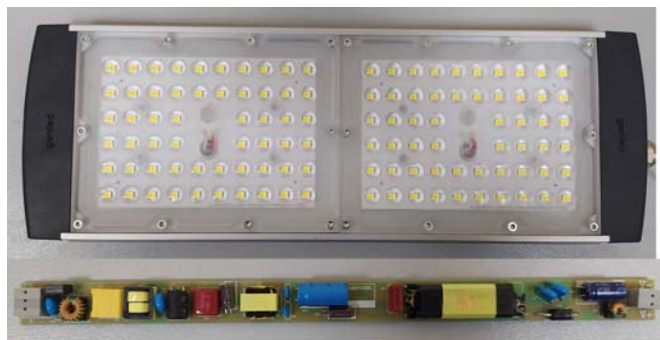
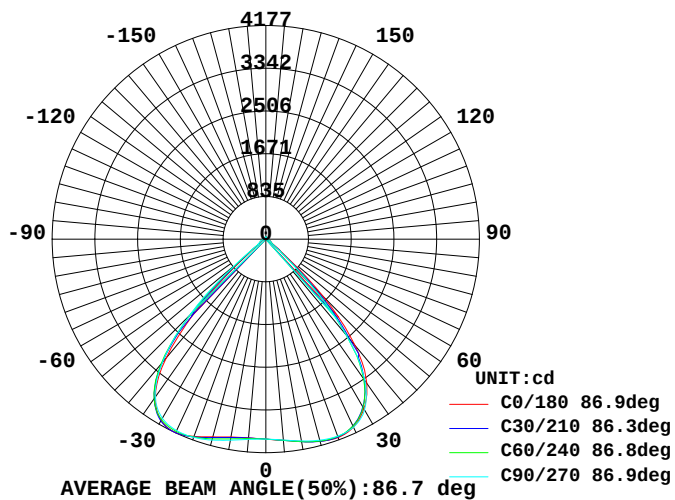


## STREETLIGHT PHOTOMETRIC TEST REPORT

Report number:

|                                   |              |                       |             |
|-----------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                     |              |                       |             |
| Address:                          |              |                       |             |
| NAME: Optimus 2Mx1L 40W 5000K D90 |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                    | CCT(K): 4876 | DIMENSION: 371x128x40 | SERIAL No.: |

|                    |        |                   |          |                     |        |
|--------------------|--------|-------------------|----------|---------------------|--------|
| MODEL:             |        | Imax(cd):         | 4177     | Effective Flux(lm): | 7346.7 |
| NOMINAL POWER(W):  | 42     | MAXIMUM(C, γ):    | 30, 25.0 | EEI                 | 0.078  |
| RATED VOLTAGE(V):  | 220    | EFFICIENCY(%):    | 100.0    | Voltage(V)          | 220.3  |
| NOMINAL FLUX(lm):  | 7346.7 | η street_up(%):   | 0.7      | Current(A)          | 0.196  |
| TEST FLUX(lm):     | 7346.7 | η street_down(%): | 51.6     | Power(W)            | 42.25  |
| LAMPS QUANTITY:    | 1      | η house_up(%)     | 0.7      | Power Factor        | 0.973  |
| TOTAL RADIANT(mw): | 7346.7 | η house_down(%)   | 47.1     | EEFICIENCY(lm/W)    | 173.9  |



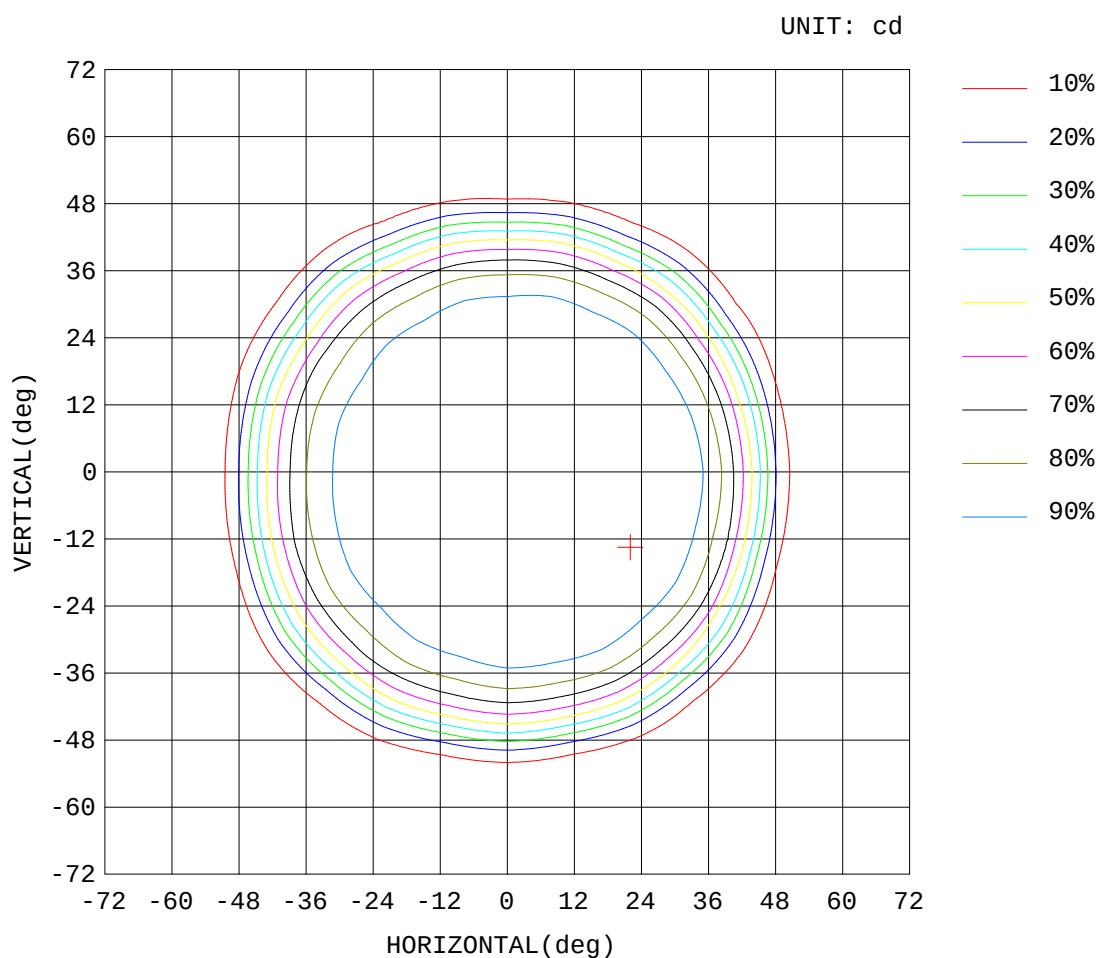
Temperature:25.3'C  
 Operators:  
 Test Date:22-02-2022

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks: 69Ra. 0,4% Flickering. Temp 39.3C

## ISOCANDELA DIAGRAM

Report number:

|                                   |              |                       |             |
|-----------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                     |              |                       |             |
| Address:                          |              |                       |             |
| NAME: Optimus 2Mx1L 40W 5000K D90 |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                    | CCT(K): 4876 | DIMENSION: 371x128x40 | SERIAL No.: |



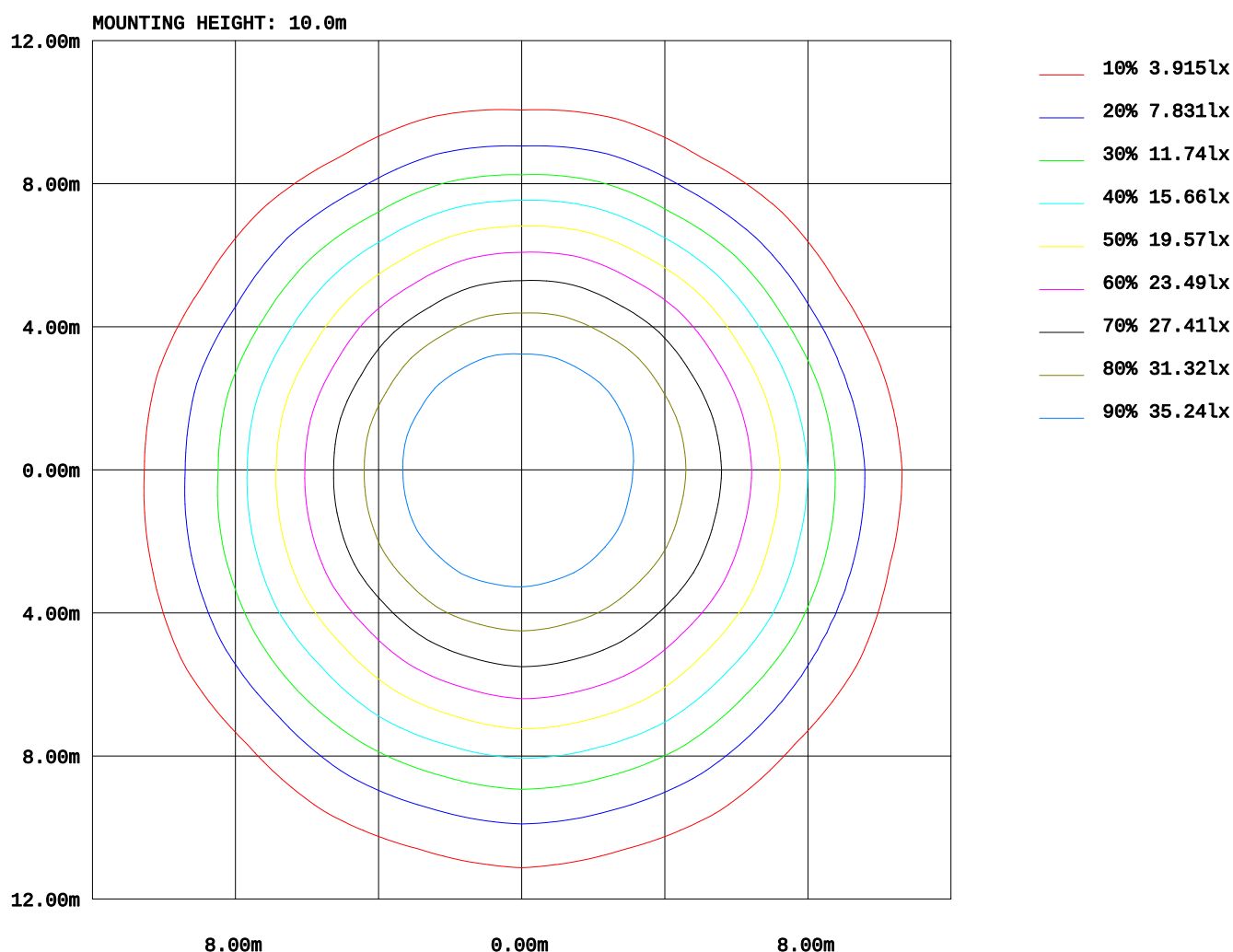
Temperature:25.3'C  
Operators:  
Test Date:22-02-2022

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks: 69Ra. 0,4% Flickering. Temp 39.3C

## ISOLUX DIAGRAM

Report number:

|                                   |              |                       |             |
|-----------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                     |              |                       |             |
| Address:                          |              |                       |             |
| NAME: Optimus 2Mx1L 40W 5000K D90 |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                    | CCT(K): 4876 | DIMENSION: 371x128x40 | SERIAL No.: |



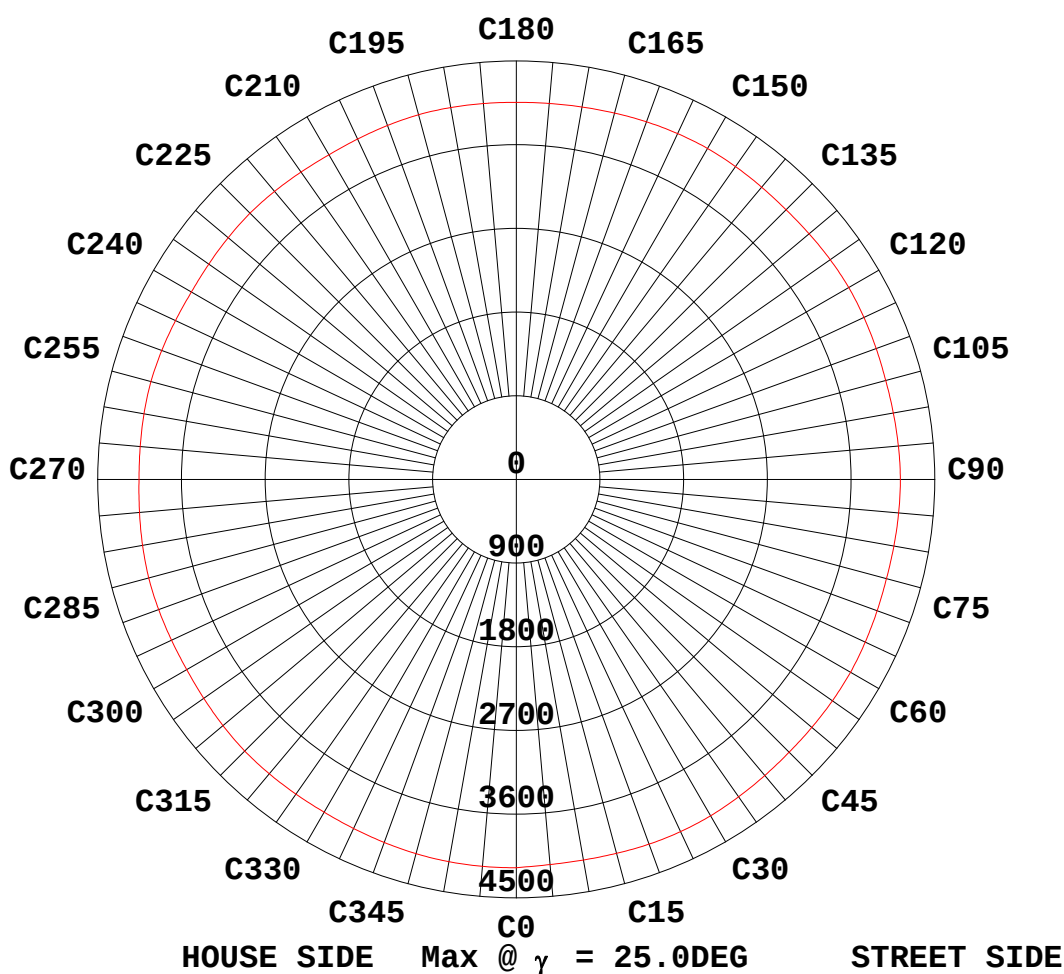
Temperature: 25.3°C  
Operators:  
Test Date: 22-02-2022

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity: 65.0%  
Test Distance: 10.000 m  
Remarks: 69Ra. 0,4% Flickering. Temp 39.3C

## ISOCANDELA DIAGRAM

Report number:

|                                   |              |                       |             |
|-----------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                     |              |                       |             |
| Address:                          |              |                       |             |
| NAME: Optimus 2Mx1L 40W 5000K D90 |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                    | CCT(K): 4876 | DIMENSION: 371x128x40 | SERIAL No.: |



Temperature: 25.3°C  
Operators:  
Test Date: 22-02-2022

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity: 65.0%  
Test Distance: 10.000 m  
Remarks: 69Ra. 0,4% Flickering. Temp 39.3C

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

|                                   |              |                       |             |
|-----------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                     |              |                       |             |
| Address:                          |              |                       |             |
| NAME: Optimus 2Mx1L 40W 5000K D90 |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                    | CCT(K): 4876 | DIMENSION: 371x128x40 | 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               | 3911 | 3911 | 3911 | 3911 | 3911 | 3912 | 3911 | 3912 | 3913 | 3913 | 3913 | 3913 | 3911 | 3911 | 3911 |
| 5.0               | 3900 | 3899 | 3903 | 3907 | 3916 | 3923 | 3930 | 3935 | 3942 | 3942 | 3947 | 3947 | 3947 | 3952 | 3950 |
| 10.0              | 3930 | 3927 | 3938 | 3949 | 3966 | 3977 | 3992 | 4000 | 4011 | 4009 | 4016 | 4013 | 4016 | 4022 | 4021 |
| 15.0              | 4003 | 4001 | 4016 | 4027 | 4043 | 4052 | 4067 | 4076 | 4093 | 4093 | 4101 | 4094 | 4093 | 4100 | 4096 |
| 20.0              | 4105 | 4098 | 4116 | 4109 | 4118 | 4110 | 4124 | 4126 | 4148 | 4141 | 4154 | 4139 | 4129 | 4137 | 4119 |
| 25.0              | 4175 | 4162 | 4177 | 4149 | 4149 | 4120 | 4130 | 4112 | 4128 | 4102 | 4111 | 4079 | 4056 | 4061 | 4031 |
| 30.0              | 4094 | 4082 | 4105 | 4068 | 4079 | 4044 | 4047 | 3995 | 3987 | 3930 | 3931 | 3879 | 3833 | 3842 | 3791 |
| 35.0              | 3763 | 3756 | 3805 | 3770 | 3809 | 3763 | 3767 | 3680 | 3661 | 3576 | 3575 | 3501 | 3444 | 3439 | 3362 |
| 40.0              | 3025 | 3047 | 3153 | 3122 | 3184 | 3124 | 3146 | 3051 | 3052 | 2946 | 2947 | 2894 | 2708 | 2709 | 2570 |
| 45.0              | 1759 | 1784 | 1976 | 1952 | 2077 | 2060 | 2114 | 2019 | 2044 | 1898 | 1919 | 1751 | 1589 | 1590 | 1360 |
| 50.0              | 469  | 450  | 556  | 549  | 688  | 679  | 786  | 698  | 737  | 623  | 646  | 534  | 472  | 463  | 372  |
| 55.0              | 181  | 155  | 183  | 165  | 174  | 176  | 174  | 183  | 175  | 180  | 174  | 172  | 165  | 183  | 152  |
| 60.0              | 135  | 118  | 143  | 125  | 148  | 127  | 151  | 131  | 154  | 132  | 152  | 126  | 122  | 142  | 120  |
| 65.0              | 108  | 93.5 | 116  | 102  | 121  | 104  | 124  | 108  | 127  | 109  | 125  | 102  | 97.1 | 115  | 98.1 |
| 70.0              | 82.9 | 71.6 | 93.5 | 80.9 | 99.1 | 83.0 | 101  | 86.5 | 105  | 88.0 | 102  | 78.4 | 73.0 | 90.3 | 77.2 |
| 75.0              | 59.3 | 51.0 | 71.5 | 60.9 | 77.6 | 62.1 | 76.4 | 65.8 | 83.0 | 67.5 | 78.7 | 56.0 | 50.4 | 66.9 | 56.1 |
| 80.0              | 46.2 | 32.7 | 49.7 | 38.7 | 54.9 | 39.8 | 50.8 | 43.5 | 59.3 | 44.5 | 55.9 | 36.5 | 38.2 | 45.4 | 35.1 |
| 85.0              | 30.5 | 17.8 | 28.2 | 19.0 | 31.7 | 21.2 | 34.4 | 22.6 | 34.2 | 21.7 | 33.2 | 22.1 | 23.4 | 28.5 | 15.0 |
| 90.0              | 9.40 | 3.80 | 12.5 | 5.20 | 13.5 | 7.10 | 16.7 | 7.30 | 14.2 | 6.10 | 14.8 | 5.40 | 3.30 | 10.9 | 3.20 |
| 95.0              | 7.80 | 3.10 | 8.00 | 3.10 | 8.20 | 3.10 | 8.40 | 3.20 | 8.20 | 3.10 | 8.00 | 3.10 | 3.30 | 7.80 | 3.10 |
| 100.0             | 7.50 | 3.60 | 7.50 | 3.50 | 7.50 | 3.40 | 7.50 | 3.40 | 7.60 | 3.40 | 7.60 | 3.50 | 3.80 | 7.40 | 3.70 |
| 105.0             | 7.90 | 4.60 | 7.70 | 4.40 | 7.60 | 4.30 | 7.60 | 4.20 | 7.60 | 4.30 | 7.70 | 4.60 | 5.00 | 7.80 | 4.90 |
| 110.0             | 9.00 | 6.30 | 8.60 | 6.00 | 8.40 | 5.80 | 8.40 | 5.70 | 8.50 | 5.90 | 8.70 | 6.30 | 6.90 | 9.09 | 7.00 |
| 115.0             | 10.7 | 8.60 | 10.2 | 8.20 | 10.0 | 8.00 | 9.90 | 8.00 | 10.1 | 8.29 | 10.4 | 8.80 | 9.60 | 11.3 | 9.70 |
| 120.0             | 13.0 | 11.4 | 12.6 | 10.9 | 12.2 | 10.7 | 12.2 | 10.7 | 12.4 | 11.1 | 12.8 | 11.7 | 12.8 | 13.9 | 13.0 |
| 125.0             | 15.9 | 14.5 | 15.4 | 14.1 | 15.0 | 13.7 | 15.0 | 13.9 | 15.2 | 14.5 | 15.8 | 15.0 | 16.2 | 17.0 | 16.4 |
| 130.0             | 18.9 | 17.7 | 18.1 | 17.2 | 18.0 | 17.2 | 18.0 | 17.2 | 18.2 | 17.8 | 18.7 | 18.2 | 19.7 | 20.2 | 19.6 |
| 135.0             | 21.9 | 20.8 | 20.9 | 20.1 | 20.8 | 20.2 | 21.1 | 20.4 | 21.1 | 20.6 | 21.5 | 21.5 | 23.1 | 23.2 | 22.7 |
| 140.0             | 24.6 | 23.7 | 23.5 | 22.7 | 23.2 | 23.1 | 23.8 | 23.2 | 23.6 | 23.2 | 24.1 | 24.4 | 26.1 | 26.1 | 25.5 |
| 145.0             | 27.1 | 26.3 | 26.0 | 25.5 | 25.7 | 25.7 | 26.1 | 25.7 | 26.1 | 26.1 | 26.6 | 27.1 | 28.6 | 28.7 | 28.2 |
| 150.0             | 29.4 | 28.9 | 28.5 | 28.0 | 28.2 | 28.2 | 28.2 | 28.2 | 28.5 | 28.7 | 29.1 | 29.9 | 30.8 | 31.2 | 30.7 |
| 155.0             | 32.2 | 31.7 | 31.2 | 31.2 | 31.0 | 31.6 | 30.8 | 31.0 | 31.0 | 31.7 | 32.0 | 33.0 | 33.7 | 34.0 | 33.7 |
| 160.0             | 35.4 | 35.2 | 34.2 | 34.5 | 34.4 | 35.2 | 34.2 | 34.5 | 34.2 | 35.2 | 35.2 | 36.7 | 37.4 | 37.4 | 37.2 |
| 165.0             | 38.9 | 38.5 | 37.7 | 38.1 | 37.9 | 38.9 | 38.1 | 38.2 | 37.9 | 38.8 | 38.9 | 40.0 | 41.0 | 40.5 | 40.4 |
| 170.0             | 42.0 | 41.2 | 40.7 | 41.1 | 41.1 | 41.8 | 41.6 | 41.2 | 41.1 | 41.7 | 41.8 | 42.5 | 43.7 | 43.0 | 42.6 |
| 175.0             | 44.1 | 43.0 | 42.8 | 43.0 | 43.2 | 43.5 | 44.1 | 43.2 | 43.2 | 43.3 | 43.5 | 43.7 | 45.1 | 44.2 | 43.7 |
| 180.0             | 45.1 | 44.1 | 44.1 | 44.0 | 44.2 | 44.4 | 45.4 | 44.4 | 44.4 | 44.1 | 44.4 | 44.2 | 45.4 | 44.2 | 43.9 |

Temperature:25.3'C  
Operators:  
Test Date:22-02-2022

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks: 69Ra. 0,4% Flickering. Temp 39.3C

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

|                                   |              |                       |             |
|-----------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                     |              |                       |             |
| Address:                          |              |                       |             |
| NAME: Optimus 2Mx1L 40W 5000K D90 |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                    | CCT(K): 4876 | DIMENSION: 371x128x40 | SERIAL No.: |

UNIT: cd

| C(deg)<br>γ (deg) | 225  | 240  | 255  | 270  | 285  | 300  | 315  | 330  | 345  |
|-------------------|------|------|------|------|------|------|------|------|------|
| 0.0               | 3911 | 3911 | 3912 | 3911 | 3912 | 3913 | 3913 | 3913 | 3913 |
| 5.0               | 3953 | 3950 | 3951 | 3942 | 3939 | 3930 | 3923 | 3913 | 3909 |
| 10.0              | 4029 | 4022 | 4021 | 4006 | 4002 | 3986 | 3974 | 3955 | 3944 |
| 15.0              | 4102 | 4088 | 4088 | 4071 | 4072 | 4061 | 4055 | 4037 | 4021 |
| 20.0              | 4128 | 4108 | 4118 | 4099 | 4115 | 4110 | 4129 | 4117 | 4119 |
| 25.0              | 4051 | 4034 | 4068 | 4057 | 4092 | 4091 | 4130 | 4132 | 4166 |
| 30.0              | 3825 | 3801 | 3866 | 3856 | 3922 | 3910 | 3977 | 3982 | 4056 |
| 35.0              | 3379 | 3334 | 3396 | 3379 | 3455 | 3456 | 3551 | 3575 | 3685 |
| 40.0              | 2567 | 2461 | 2517 | 2457 | 2551 | 2531 | 2679 | 2705 | 2891 |
| 45.0              | 1377 | 1199 | 1279 | 1155 | 1268 | 1166 | 1342 | 1323 | 1580 |
| 50.0              | 383  | 370  | 340  | 382  | 329  | 379  | 345  | 384  | 405  |
| 55.0              | 176  | 143  | 167  | 137  | 163  | 137  | 166  | 141  | 174  |
| 60.0              | 139  | 116  | 133  | 111  | 131  | 112  | 132  | 112  | 133  |
| 65.0              | 114  | 95.0 | 109  | 89.6 | 107  | 91.1 | 108  | 90.6 | 106  |
| 70.0              | 92.0 | 74.9 | 86.0 | 67.2 | 84.0 | 71.1 | 86.1 | 70.3 | 82.8 |
| 75.0              | 70.3 | 54.0 | 63.5 | 43.5 | 61.5 | 50.3 | 64.6 | 49.7 | 60.5 |
| 80.0              | 44.9 | 31.0 | 40.9 | 28.7 | 39.3 | 28.4 | 40.0 | 30.0 | 40.9 |
| 85.0              | 24.7 | 13.0 | 22.6 | 14.2 | 21.6 | 11.9 | 22.2 | 13.0 | 25.0 |
| 90.0              | 9.60 | 3.10 | 9.20 | 3.30 | 9.00 | 3.10 | 8.90 | 3.10 | 9.00 |
| 95.0              | 7.70 | 3.10 | 7.70 | 3.20 | 7.70 | 3.20 | 7.70 | 3.10 | 7.70 |
| 100.0             | 7.40 | 3.80 | 7.40 | 3.80 | 7.40 | 3.80 | 7.50 | 3.80 | 7.40 |
| 105.0             | 7.90 | 5.10 | 8.00 | 5.20 | 8.00 | 5.10 | 8.00 | 5.00 | 7.90 |
| 110.0             | 9.30 | 7.10 | 9.40 | 7.20 | 9.40 | 7.10 | 9.30 | 7.00 | 9.20 |
| 115.0             | 11.5 | 9.90 | 11.5 | 10.0 | 11.5 | 9.80 | 11.4 | 9.60 | 11.1 |
| 120.0             | 14.3 | 13.2 | 14.4 | 13.3 | 14.3 | 13.0 | 14.1 | 12.7 | 13.7 |
| 125.0             | 17.5 | 16.6 | 17.6 | 16.6 | 17.4 | 16.5 | 17.2 | 16.0 | 16.6 |
| 130.0             | 20.7 | 20.0 | 20.7 | 20.2 | 20.6 | 19.7 | 20.2 | 19.3 | 19.7 |
| 135.0             | 23.1 | 22.7 | 23.6 | 23.4 | 23.5 | 22.6 | 22.7 | 22.2 | 22.7 |
| 140.0             | 25.7 | 25.5 | 26.1 | 26.0 | 26.0 | 25.2 | 25.4 | 25.0 | 25.5 |
| 145.0             | 28.2 | 28.0 | 28.4 | 28.2 | 28.4 | 27.9 | 28.0 | 27.7 | 28.0 |
| 150.0             | 30.5 | 30.5 | 30.7 | 30.7 | 31.0 | 30.7 | 30.4 | 30.3 | 30.4 |
| 155.0             | 33.3 | 33.5 | 33.3 | 33.7 | 34.0 | 33.7 | 33.1 | 33.1 | 33.0 |
| 160.0             | 36.7 | 36.8 | 36.7 | 37.4 | 37.5 | 37.2 | 36.5 | 36.5 | 36.0 |
| 165.0             | 39.8 | 40.2 | 39.8 | 40.9 | 40.7 | 40.2 | 39.5 | 39.7 | 39.2 |
| 170.0             | 42.3 | 42.5 | 42.5 | 43.3 | 43.0 | 42.5 | 42.0 | 42.0 | 41.8 |
| 175.0             | 43.9 | 43.7 | 44.0 | 44.9 | 44.2 | 43.7 | 43.7 | 43.5 | 43.5 |
| 180.0             | 44.2 | 44.2 | 44.6 | 45.2 | 44.6 | 44.2 | 44.2 | 44.2 | 44.4 |

Temperature:25.3'C  
Operators:  
Test Date:22-02-2022

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks: 69Ra. 0,4% Flickering. Temp 39.3C