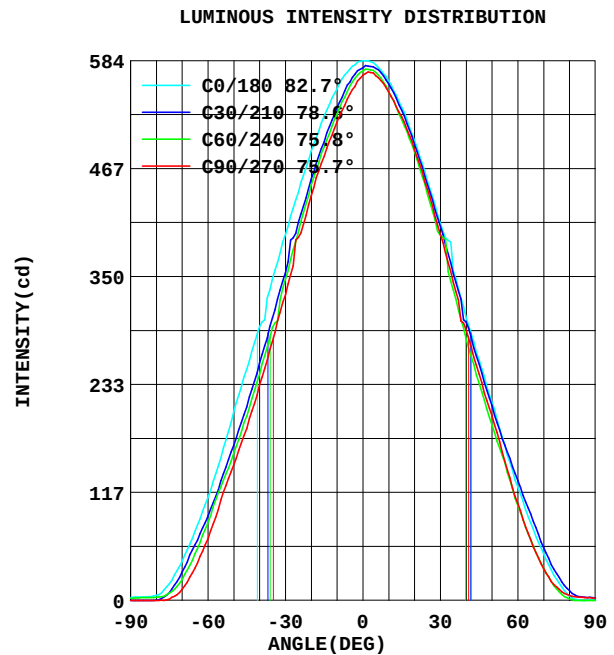
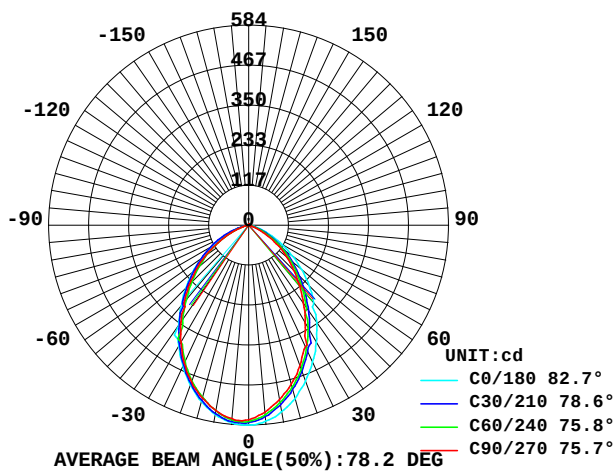


STREETLIGHT PHOTOMETRIC TEST REPORT

Report number:

|                |           |            |             |
|----------------|-----------|------------|-------------|
| MANUFACTURER:  |           |            |             |
| Address:       |           |            |             |
| NAME: 52526BK  |           | TYPE:      | WEIGHT:     |
| SPECIFICATION: | CCT(K): 0 | DIMENSION: | SERIAL No.: |

|                    |       |                   |          |                     |       |
|--------------------|-------|-------------------|----------|---------------------|-------|
| MODEL:             |       | Imax(cd):         | 583.7    | Effective Flux(lm): | 946.3 |
| NOMINAL POWER(W):  | 26    | MAXIMUM(C, γ):    | 180, 1.0 | EEI                 | 0.349 |
| RATED VOLTAGE(V):  | 120   | EFFICIENCY(%):    | 100.0    | Voltage(V)          | 120.3 |
| NOMINAL FLUX(lm):  | 989.1 | η street_up(%):   | 0.4      | Current(A)          | 0.215 |
| TEST FLUX(lm):     | 989.1 | η street_down(%): | 46.5     | Power(W)            | 25.60 |
| LAMPS QUANTITY:    | 1     | η house_up(%):    | 0.4      | Power Factor        | 0.988 |
| TOTAL RADIANT(mw): | 989.1 | η house_down(%):  | 52.8     | EEFICIENCY(lm/W)    | 38.6  |



Test System:HOPPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

Test Set: 10.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## Color Temperature Data List

Report number:

|                |           |            |             |
|----------------|-----------|------------|-------------|
| MANUFACTURER:  |           |            |             |
| Address:       |           |            |             |
| NAME: 52526BK  |           | TYPE:      | WEIGHT:     |
| SPECIFICATION: | CCT(K): 0 | DIMENSION: | SERIAL No.: |

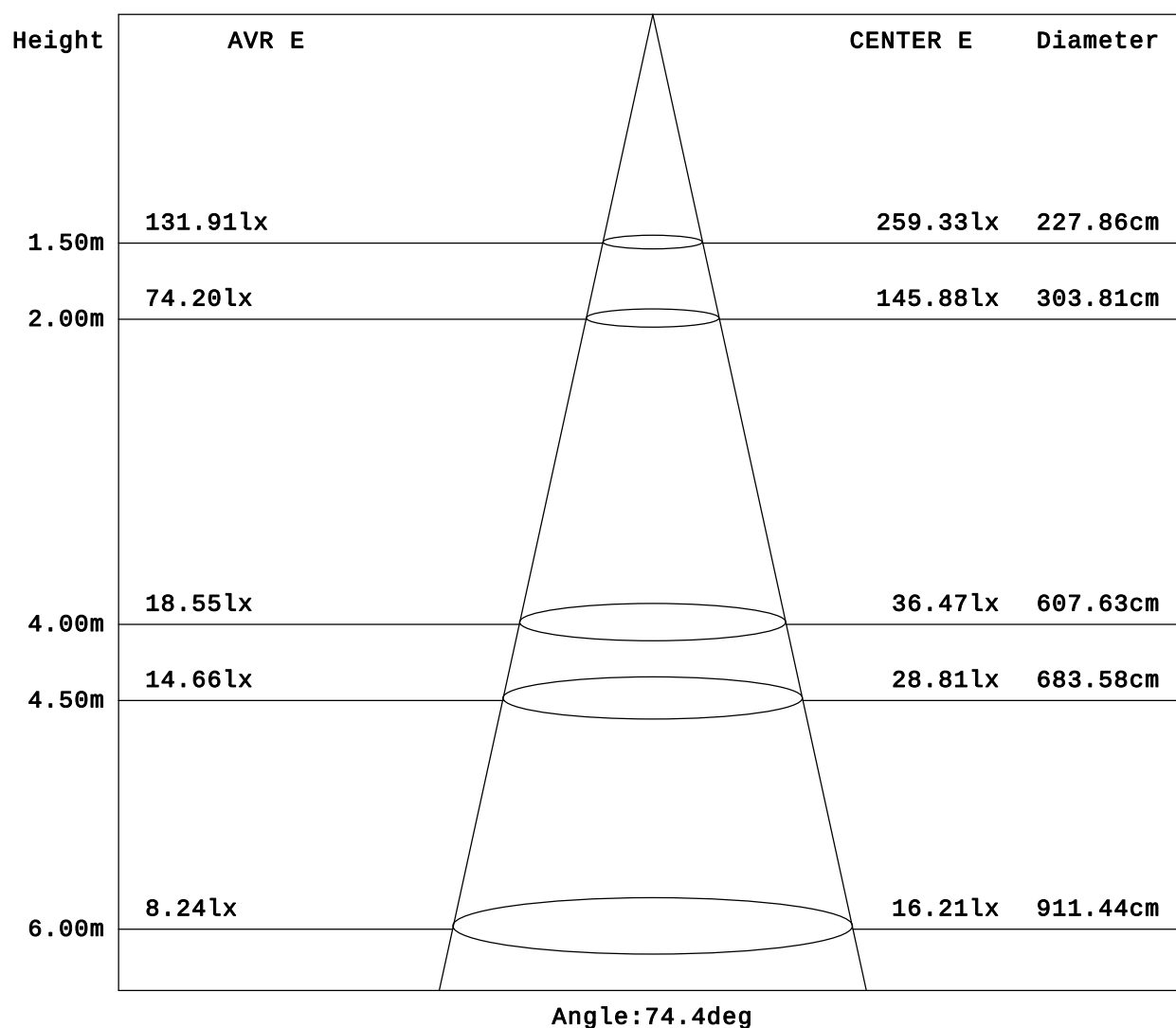
Test System:HOPPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

Test Set: 10.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

### AVERAGE AND CENTER E Figure

Report number:

|                |           |            |             |
|----------------|-----------|------------|-------------|
| MANUFACTURER:  |           |            |             |
| Address:       |           |            |             |
| NAME: 52526BK  |           | TYPE:      | WEIGHT:     |
| SPECIFICATION: | CCT(K): 0 | DIMENSION: | SERIAL No.: |



Test System: HOP00 HPG1600  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2025年05月23日

Test Set: 10.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks:



ZONAL FLUX DIAGRAM

Report number:

|                |           |            |             |
|----------------|-----------|------------|-------------|
| MANUFACTURER:  |           |            |             |
| Address:       |           |            |             |
| NAME: 52526BK  |           | TYPE:      | WEIGHT:     |
| SPECIFICATION: | CCT(K): 0 | DIMENSION: | SERIAL No.: |

| γ     | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | γ       | zone    | total |
|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|
| 5.0   | 574.5                 | 557.9 | 547.5 | 551.0 | 578.9 | 573.3 | 567.0 | 561.5 | 0- 5    | 13.53   | 13.53 |
| 10.0  | 552.8                 | 529.2 | 517.3 | 524.7 | 561.7 | 553.7 | 549.7 | 542.1 | 5- 10   | 39.36   | 52.89 |
| 15.0  | 524.1                 | 491.7 | 480.2 | 490.0 | 533.0 | 523.6 | 522.9 | 513.6 | 10- 15  | 62.06   | 114.9 |
| 20.0  | 485.6                 | 451.0 | 437.0 | 450.2 | 497.3 | 487.5 | 487.0 | 474.4 | 15- 20  | 80.44   | 195.4 |
| 25.0  | 440.7                 | 402.5 | 392.3 | 404.8 | 453.8 | 444.0 | 445.1 | 431.7 | 20- 25  | 93.57   | 288.9 |
| 30.0  | 395.7                 | 349.2 | 330.6 | 353.7 | 407.3 | 396.8 | 395.3 | 390.1 | 25- 30  | 101.2   | 390.1 |
| 35.0  | 347.3                 | 294.1 | 279.8 | 298.7 | 356.3 | 342.8 | 344.0 | 334.7 | 30- 35  | 102.9   | 493.1 |
| 40.0  | 296.3                 | 248.3 | 233.0 | 255.7 | 306.1 | 291.1 | 292.7 | 285.0 | 35- 40  | 99.29   | 592.4 |
| 45.0  | 250.3                 | 202.5 | 185.8 | 210.1 | 259.6 | 243.0 | 244.6 | 238.2 | 40- 45  | 92.81   | 685.2 |
| 50.0  | 203.6                 | 161.7 | 146.1 | 170.0 | 214.0 | 198.5 | 199.6 | 195.0 | 45- 50  | 83.10   | 768.3 |
| 55.0  | 153.9                 | 124.9 | 108.4 | 133.1 | 168.0 | 157.1 | 150.5 | 154.4 | 50- 55  | 71.12   | 839.4 |
| 60.0  | 111.3                 | 90.94 | 66.50 | 98.55 | 122.3 | 118.9 | 104.4 | 116.8 | 55- 60  | 56.52   | 896.0 |
| 65.0  | 74.50                 | 56.14 | 34.70 | 65.84 | 83.70 | 80.85 | 65.40 | 79.85 | 60- 65  | 40.91   | 936.9 |
| 70.0  | 42.00                 | 26.65 | 12.10 | 35.35 | 50.80 | 46.25 | 34.40 | 46.25 | 65- 70  | 25.82   | 962.7 |
| 75.0  | 17.80                 | 7.050 | 1.100 | 12.45 | 22.70 | 20.25 | 14.20 | 20.00 | 70- 75  | 12.97   | 975.7 |
| 80.0  | 5.500                 | 2.000 | 0     | 2.400 | 4.500 | 5.250 | 5.300 | 4.900 | 75- 80  | 4.375   | 980.1 |
| 85.0  | 3.600                 | 1.650 | 0     | 1.600 | 0     | 1.550 | 3.300 | 1.700 | 80- 85  | 1.183   | 981.2 |
| 90.0  | 3.100                 | 1.250 | 0     | 1.350 | 0     | 1.200 | 2.600 | 1.350 | 85- 90  | 0.786   | 982.0 |
| 95.0  | 2.800                 | 1.100 | 0     | 1.250 | 0     | 1.250 | 2.500 | 1.200 | 90- 95  | 0.672   | 982.7 |
| 100.0 | 2.500                 | 1.050 | 0     | 1.100 | 0     | 1.150 | 1.900 | 1.200 | 95-100  | 0.601   | 983.3 |
| 105.0 | 2.200                 | 0.800 | 0     | 0.950 | 0     | 0.950 | 1.700 | 0.900 | 100-105 | 0.532   | 983.8 |
| 110.0 | 1.900                 | 0.950 | 0     | 0.900 | 0.100 | 0.950 | 1.700 | 0.800 | 105-110 | 0.498   | 984.3 |
| 115.0 | 1.900                 | 0.800 | 0     | 0.850 | 0.300 | 0.950 | 1.800 | 0.850 | 110-115 | 0.453   | 984.8 |
| 120.0 | 2.300                 | 0.850 | 0.200 | 1.000 | 0.600 | 0.950 | 1.900 | 0.950 | 115-120 | 0.433   | 985.2 |
| 125.0 | 1.900                 | 0.750 | 0.100 | 1.000 | 0.400 | 0.850 | 1.500 | 0.900 | 120-125 | 0.413   | 985.6 |
| 130.0 | 1.600                 | 1.050 | 0.300 | 0.750 | 0.700 | 1.050 | 2.100 | 1.050 | 125-130 | 0.426   | 986.1 |
| 135.0 | 2.100                 | 1.050 | 0.500 | 1.300 | 1.200 | 1.200 | 1.600 | 1.000 | 130-135 | 0.437   | 986.5 |
| 140.0 | 1.900                 | 1.100 | 0.500 | 1.400 | 1.200 | 0.850 | 1.900 | 1.350 | 135-140 | 0.431   | 986.9 |
| 145.0 | 2.300                 | 1.450 | 0.800 | 1.300 | 1.300 | 1.300 | 1.600 | 1.300 | 140-145 | 0.423   | 987.3 |
| 150.0 | 2.600                 | 1.400 | 0.300 | 1.500 | 1.500 | 1.700 | 1.700 | 1.350 | 145-150 | 0.398   | 987.7 |
| 155.0 | 2.300                 | 1.450 | 0.700 | 1.200 | 1.700 | 1.300 | 1.700 | 1.500 | 150-155 | 0.367   | 988.1 |
| 160.0 | 2.300                 | 1.550 | 0.900 | 1.850 | 1.800 | 1.400 | 2.000 | 1.700 | 155-160 | 0.321   | 988.4 |
| 165.0 | 2.000                 | 1.550 | 1.200 | 1.500 | 1.800 | 1.550 | 1.900 | 1.850 | 160-165 | 0.275   | 988.7 |
| 170.0 | 2.300                 | 1.400 | 1.300 | 1.500 | 2.000 | 1.800 | 1.900 | 1.500 | 165-170 | 0.202   | 988.9 |
| 175.0 | 2.200                 | 1.550 | 1.400 | 1.700 | 2.200 | 1.850 | 2.200 | 2.000 | 170-175 | 0.125   | 989.0 |
| 180.0 | 2.700                 | 1.850 | 1.800 | 1.950 | 2.500 | 1.650 | 2.000 | 2.050 | 175-180 | 0.043   | 989.1 |
| DEG   | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |         | UNIT:lm |       |

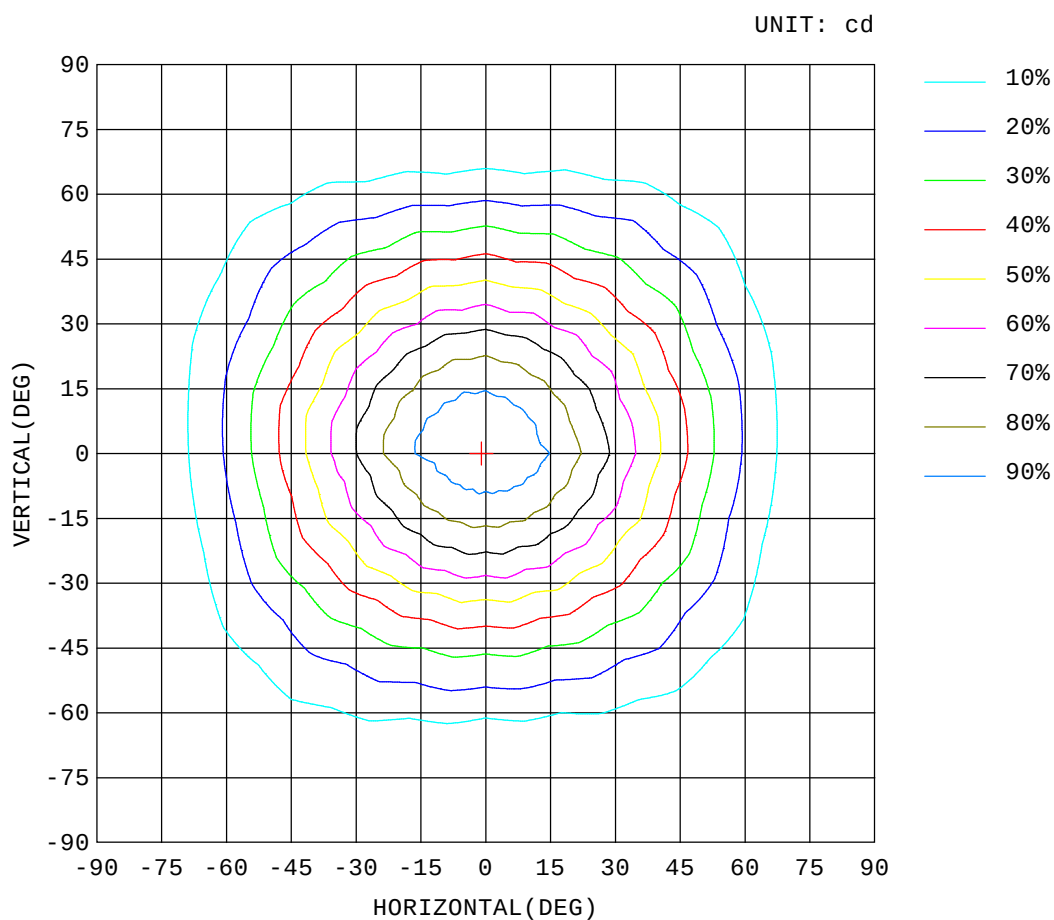
Test System:HOPPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

Test Set: 10.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

**ISOCANDELA DIAGRAM**

Report number:

|                |           |            |             |
|----------------|-----------|------------|-------------|
| MANUFACTURER:  |           |            |             |
| Address:       |           |            |             |
| NAME: 52526BK  |           | TYPE:      | WEIGHT:     |
| SPECIFICATION: | CCT(K): 0 | DIMENSION: | SERIAL No.: |



Test System:HOP00 HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

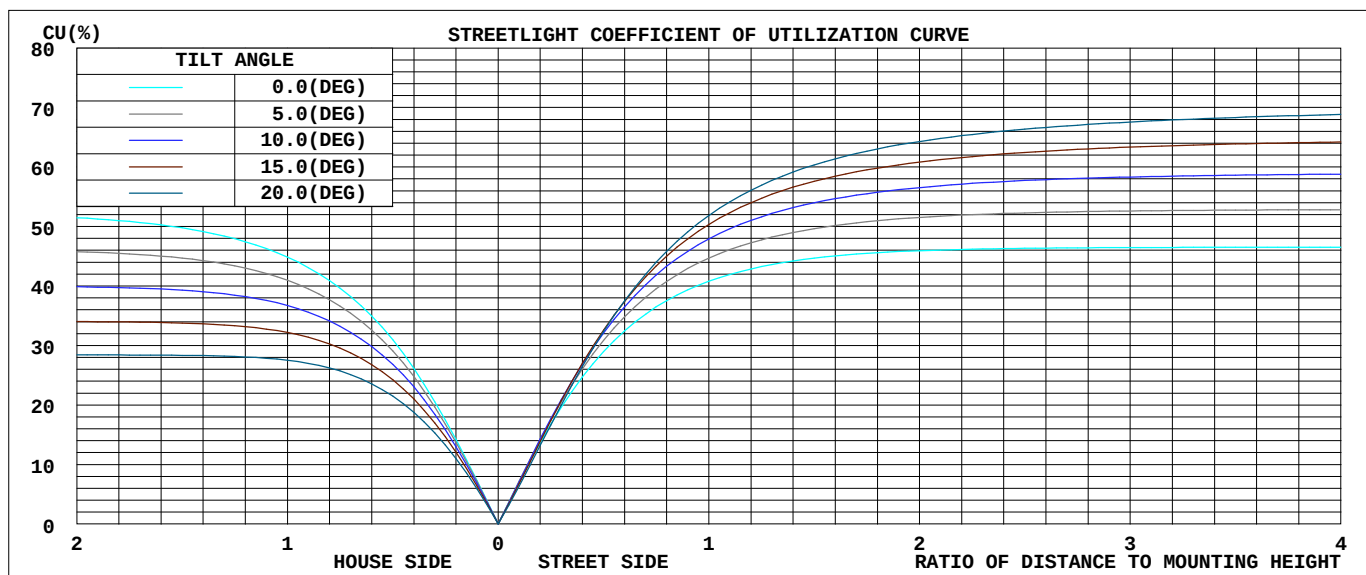
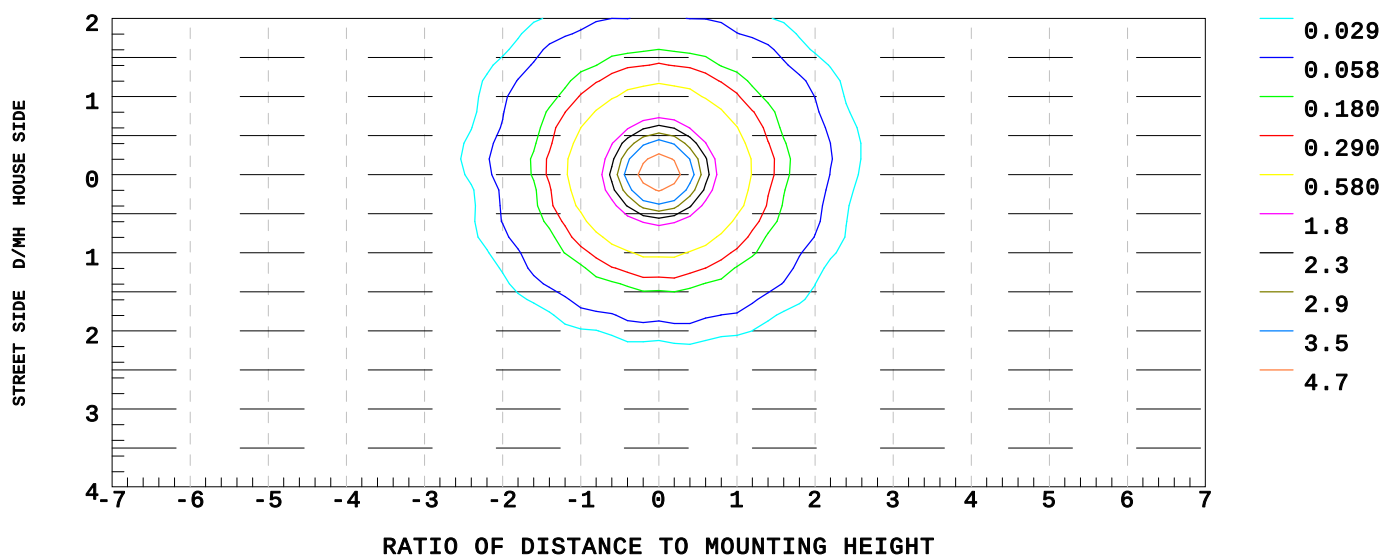
Test Set: 10.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

# ISOLUX DIAGRAM

Report number:

|                |           |            |             |
|----------------|-----------|------------|-------------|
| MANUFACTURER:  |           |            |             |
| Address:       |           |            |             |
| NAME: 52526BK  |           | TYPE:      | WEIGHT:     |
| SPECIFICATION: | CCT(K): 0 | DIMENSION: | SERIAL No.: |

ILLUMINANCE AT MH=10 m, Enadir = 5.84 lx



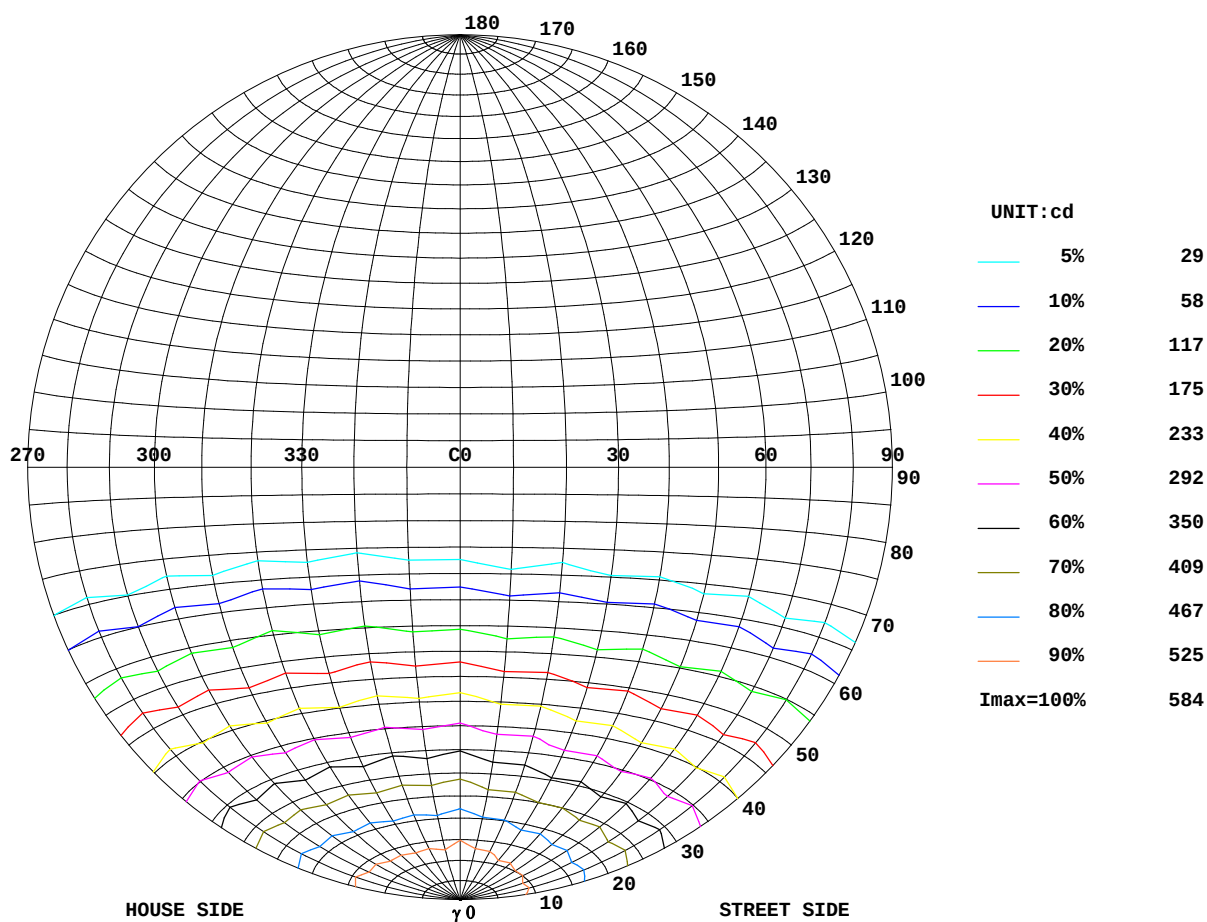
Test System:HOPPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

Test Set: 10.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

### ISOCANDELA DIAGRAM

Report number:

|                |           |            |             |
|----------------|-----------|------------|-------------|
| MANUFACTURER:  |           |            |             |
| Address:       |           |            |             |
| NAME: 52526BK  |           | TYPE:      | WEIGHT:     |
| SPECIFICATION: | CCT(K): 0 | DIMENSION: | SERIAL No.: |



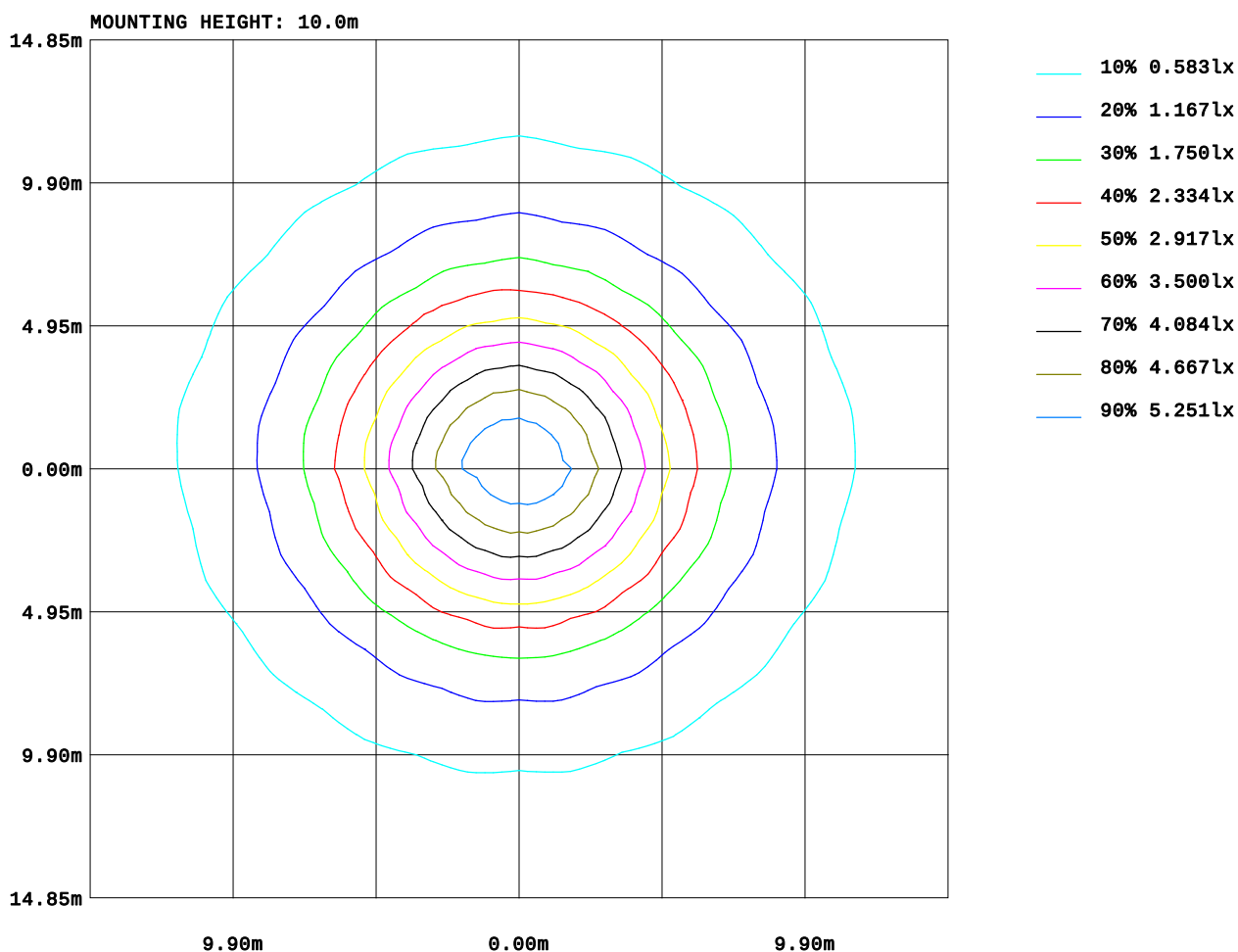
Test System:HOPPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

Test Set: 10.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

# ISOLUX DIAGRAM

Report number:

|                |           |            |             |
|----------------|-----------|------------|-------------|
| MANUFACTURER:  |           |            |             |
| Address:       |           |            |             |
| NAME: 52526BK  |           | TYPE:      | WEIGHT:     |
| SPECIFICATION: | CCT(K): 0 | DIMENSION: | SERIAL No.: |



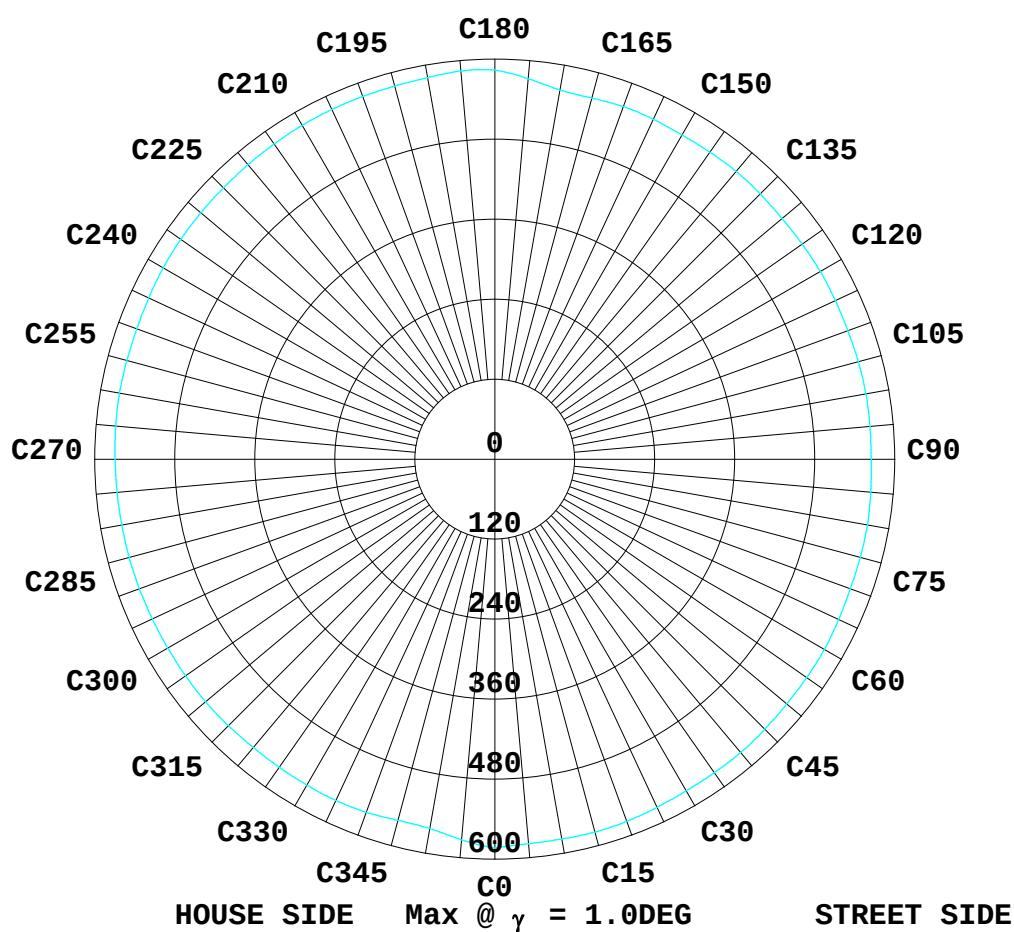
Test System:HOPPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

Test Set: 10.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

ISOCANDELA DIAGRAM

Report number:

|                |           |            |             |
|----------------|-----------|------------|-------------|
| MANUFACTURER:  |           |            |             |
| Address:       |           |            |             |
| NAME: 52526BK  |           | TYPE:      | WEIGHT:     |
| SPECIFICATION: | CCT(K): 0 | DIMENSION: | SERIAL No.: |



Test System:HOP00 HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

Test Set: 10.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:



AREA LUMINOUS FLUX

Report number:

|                |  |  |  |  |           |  |  |  |  |            |  |  |  |  |             |  |  |  |  |
|----------------|--|--|--|--|-----------|--|--|--|--|------------|--|--|--|--|-------------|--|--|--|--|
| MANUFACTURER:  |  |  |  |  |           |  |  |  |  |            |  |  |  |  |             |  |  |  |  |
| Address:       |  |  |  |  |           |  |  |  |  |            |  |  |  |  |             |  |  |  |  |
| NAME: 52526BK  |  |  |  |  |           |  |  |  |  | TYPE:      |  |  |  |  | WEIGHT:     |  |  |  |  |
| SPECIFICATION: |  |  |  |  | CCT(K): 0 |  |  |  |  | DIMENSION: |  |  |  |  | SERIAL No.: |  |  |  |  |

| VERTICAL (DEG)                                                           | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | UNIT: lm |      | Φ t | Φ a |
|--------------------------------------------------------------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|-----|-----|
|                                                                          | 0.01              | 0.01 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.04 | 0.04 | 0.03 | 0.03 | 0.02 | 0.01 | 0.01 | 0.56     | 0.00 |     |     |
| 90                                                                       | 0.01              | 0.01 | 0.03 | 0.09 | 0.15 | 0.25 | 0.31 | 0.38 | 0.40 | 0.41 | 0.40 | 0.33 | 0.27 | 0.15 | 0.07 | 0.02 | 0.01 | 0.01 | 3.30     | 0.00 |     |     |
| 80                                                                       | 0.01              | 0.02 | 0.11 | 0.39 | 0.70 | 1.15 | 1.42 | 1.75 | 1.86 | 1.88 | 1.79 | 1.49 | 1.17 | 0.68 | 0.34 | 0.07 | 0.02 | 0.01 | 14.8     | 7.18 |     |     |
| 70                                                                       | 0.01              | 0.05 | 0.29 | 0.90 | 1.60 | 2.55 | 3.24 | 4.05 | 4.37 | 4.35 | 4.03 | 3.29 | 2.56 | 1.53 | 0.81 | 0.21 | 0.03 | 0.01 | 33.9     | 31.7 |     |     |
| 60                                                                       | 0.01              | 0.10 | 0.52 | 1.44 | 2.65 | 4.00 | 5.32 | 6.59 | 7.18 | 7.10 | 6.44 | 5.22 | 3.92 | 2.48 | 1.27 | 0.40 | 0.07 | 0.01 | 54.7     | 53.4 |     |     |
| 50                                                                       | 0.01              | 0.16 | 0.75 | 1.90 | 3.64 | 5.41 | 7.45 | 9.15 | 10.2 | 10.0 | 8.94 | 7.30 | 5.30 | 3.48 | 1.70 | 0.61 | 0.11 | 0.01 | 76.2     | 75.2 |     |     |
| 40                                                                       | 0.01              | 0.20 | 0.97 | 2.38 | 4.43 | 6.94 | 9.54 | 11.9 | 13.2 | 13.0 | 11.6 | 9.27 | 6.75 | 4.25 | 2.15 | 0.81 | 0.14 | 0.01 | 97.8     | 97.0 |     |     |
| 30                                                                       | 0.00              | 0.22 | 1.10 | 2.83 | 5.19 | 8.09 | 11.3 | 14.0 | 15.5 | 15.3 | 13.6 | 10.9 | 7.74 | 4.93 | 2.57 | 0.95 | 0.17 | 0.01 | 115      | 114  |     |     |
|                                                                          | 0.00              | 0.22 | 1.12 | 2.97 | 5.62 | 8.91 | 12.3 | 15.3 | 17.0 | 16.7 | 14.8 | 11.8 | 8.47 | 5.36 | 2.73 | 1.00 | 0.17 | 0.01 | 125      | 124  |     |     |
|                                                                          | 0.00              | 0.20 | 1.07 | 2.83 | 5.35 | 8.49 | 11.8 | 14.6 | 16.3 | 16.4 | 14.6 | 11.6 | 8.19 | 5.13 | 2.61 | 0.95 | 0.16 | 0.01 | 121      | 120  |     |     |
|                                                                          | 0.00              | 0.17 | 0.94 | 2.49 | 4.83 | 7.55 | 10.4 | 12.8 | 14.4 | 14.4 | 12.8 | 10.2 | 7.32 | 4.59 | 2.27 | 0.81 | 0.13 | 0.01 | 106      | 106  |     |     |
| -30                                                                      | 0.00              | 0.13 | 0.78 | 2.16 | 4.10 | 6.20 | 8.50 | 10.4 | 11.6 | 11.6 | 10.3 | 8.31 | 5.96 | 3.86 | 1.97 | 0.66 | 0.09 | 0.01 | 86.9     | 86.0 |     |     |
| -40                                                                      | 0.00              | 0.08 | 0.62 | 1.69 | 3.10 | 4.83 | 6.35 | 7.74 | 8.53 | 8.51 | 7.64 | 6.17 | 4.61 | 2.88 | 1.52 | 0.52 | 0.05 | 0.01 | 64.9     | 63.9 |     |     |
| -50                                                                      | 0.00              | 0.04 | 0.43 | 1.13 | 2.21 | 3.37 | 4.45 | 5.24 | 5.81 | 5.77 | 5.13 | 4.29 | 3.18 | 2.05 | 1.00 | 0.35 | 0.03 | 0.01 | 44.5     | 42.9 |     |     |
| -60                                                                      | 0.00              | 0.02 | 0.23 | 0.64 | 1.37 | 2.03 | 2.76 | 3.11 | 3.40 | 3.35 | 2.94 | 2.54 | 1.81 | 1.18 | 0.50 | 0.16 | 0.01 | 0.00 | 26.1     | 23.1 |     |     |
| -70                                                                      | 0.00              | 0.01 | 0.08 | 0.23 | 0.55 | 0.80 | 1.11 | 1.18 | 1.24 | 1.18 | 1.02 | 0.90 | 0.61 | 0.40 | 0.14 | 0.05 | 0.01 | 0.00 | 9.54     | 1.51 |     |     |
| -80                                                                      | 0.00              | 0.01 | 0.03 | 0.04 | 0.09 | 0.12 | 0.17 | 0.16 | 0.17 | 0.16 | 0.13 | 0.12 | 0.07 | 0.06 | 0.03 | 0.02 | 0.01 | 0.00 | 1.40     | 0.00 |     |     |
| -90                                                                      | 0.00              | 0.01 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 | 0.03 | 0.02 | 0.02 | 0.01 | 0.00 | 0.49     | 0.00 |     |     |
| -90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90 |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |     |     |
| Φ t                                                                      | 0.05              | 1.67 | 9.10 | 24.2 | 45.7 | 70.8 | 96.6 | 119  | 132  | 131  | 117  | 94.1 | 68.0 | 43.1 | 21.7 | 7.63 | 1.24 | 0.14 | 989      |      |     |     |
| Φ a                                                                      | 0.00              | 0.00 | 5.90 | 21.8 | 43.5 | 68.7 | 94.5 | 117  | 129  | 128  | 115  | 91.9 | 65.9 | 40.9 | 19.3 | 4.11 | 0.00 | 0.00 |          | 946  |     |     |

Test System:HOPPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

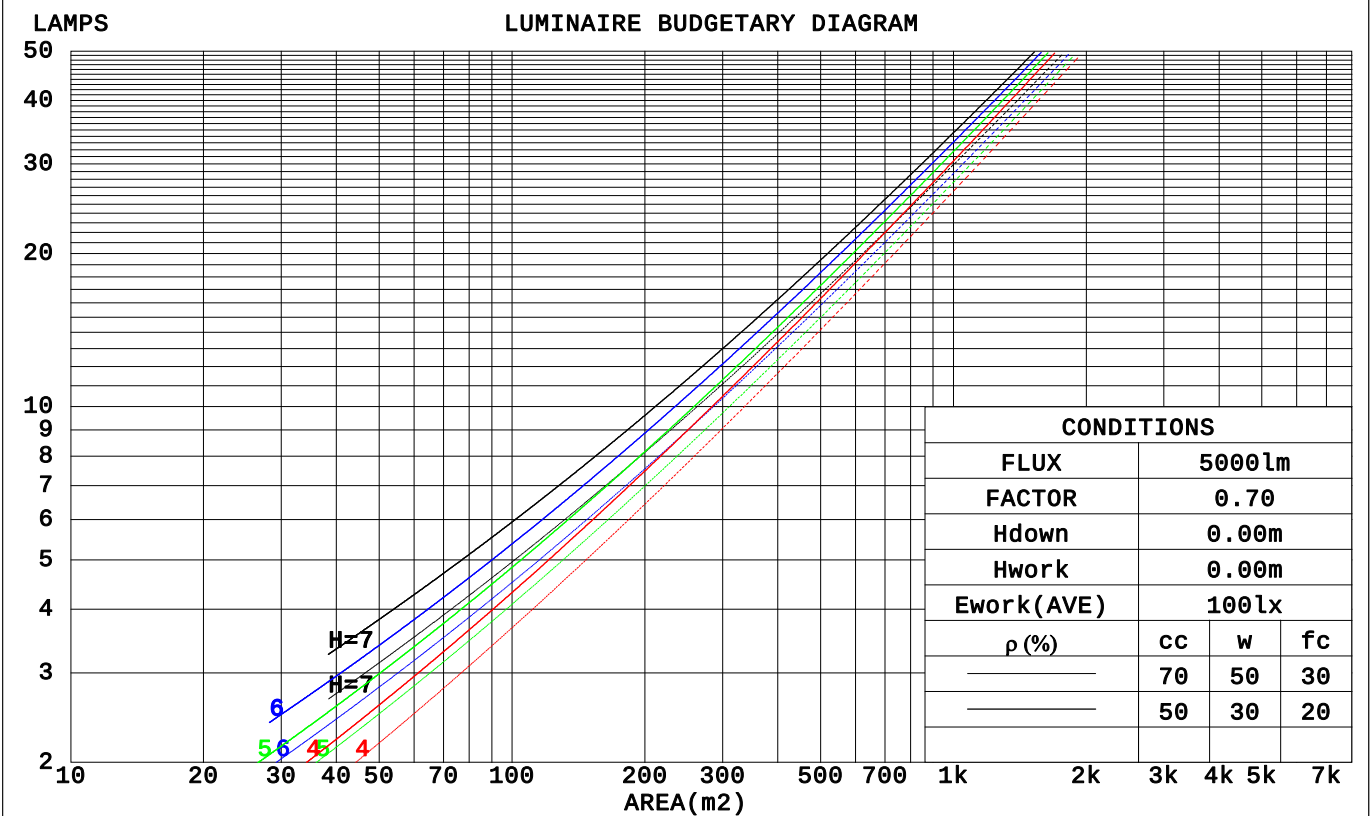
Test Set: 10.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

|                |  |  |  |           |  |  |  |            |  |  |  |             |  |  |  |
|----------------|--|--|--|-----------|--|--|--|------------|--|--|--|-------------|--|--|--|
| MANUFACTURER:  |  |  |  |           |  |  |  |            |  |  |  |             |  |  |  |
| Address:       |  |  |  |           |  |  |  |            |  |  |  |             |  |  |  |
| NAME: 52526BK  |  |  |  |           |  |  |  | TYPE:      |  |  |  | WEIGHT:     |  |  |  |
| SPECIFICATION: |  |  |  | CCT(K): 0 |  |  |  | DIMENSION: |  |  |  | SERIAL No.: |  |  |  |

| ρ <sub>cc</sub> | 80%                                                                        |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0   |
|-----------------|----------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| ρ <sub>w</sub>  | 50%                                                                        | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| ρ <sub>fc</sub> | 20%                                                                        |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0   |
| RCR             | RCR:Room Cavity Ratio                      Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| 0.0             | 1.19                                                                       | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.01 | 1.01 | 1.01 | .99 |
| 1.0             | 1.07                                                                       | 1.04 | 1.01 | 1.05 | 1.02 | .99  | 1.01 | .98  | .96  | .97  | .95  | .93  | .93  | .92  | .90  | .88 |
| 2.0             | .96                                                                        | .91  | .86  | .94  | .89  | .85  | .91  | .86  | .83  | .87  | .84  | .81  | .84  | .82  | .79  | .77 |
| 3.0             | .86                                                                        | .79  | .74  | .85  | .78  | .73  | .82  | .76  | .72  | .79  | .75  | .71  | .77  | .73  | .69  | .68 |
| 4.0             | .78                                                                        | .70  | .65  | .77  | .70  | .64  | .74  | .68  | .63  | .72  | .67  | .62  | .70  | .65  | .62  | .60 |
| 5.0             | .71                                                                        | .63  | .57  | .70  | .62  | .57  | .67  | .61  | .56  | .66  | .60  | .55  | .64  | .59  | .55  | .53 |
| 6.0             | .64                                                                        | .57  | .51  | .63  | .56  | .51  | .62  | .55  | .50  | .60  | .54  | .50  | .58  | .53  | .49  | .47 |
| 7.0             | .59                                                                        | .51  | .46  | .58  | .51  | .46  | .57  | .50  | .45  | .55  | .49  | .45  | .54  | .49  | .45  | .43 |
| 8.0             | .54                                                                        | .47  | .41  | .54  | .46  | .41  | .52  | .46  | .41  | .51  | .45  | .41  | .50  | .45  | .41  | .39 |
| 9.0             | .50                                                                        | .43  | .38  | .50  | .43  | .38  | .49  | .42  | .37  | .48  | .42  | .37  | .46  | .41  | .37  | .35 |
| 10.0            | .47                                                                        | .39  | .35  | .46  | .39  | .35  | .45  | .39  | .34  | .44  | .38  | .34  | .43  | .38  | .34  | .32 |



Test System:HOP00 HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

Test Set: 10.0deg/s    C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## WEC AND CCEC

Report number:

|                |  |  |  |           |  |            |  |  |             |  |  |
|----------------|--|--|--|-----------|--|------------|--|--|-------------|--|--|
| MANUFACTURER:  |  |  |  |           |  |            |  |  |             |  |  |
| Address:       |  |  |  |           |  |            |  |  |             |  |  |
| NAME: 52526BK  |  |  |  |           |  | TYPE:      |  |  | WEIGHT:     |  |  |
| SPECIFICATION: |  |  |  | CCT(K): 0 |  | DIMENSION: |  |  | SERIAL No.: |  |  |

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0         |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |  |
| 1.0         | .242                  | .137 | .044 | .234 | .134 | .042 | .221                            | .127 | .041 | .209 | .121 | .039 | .198 | .115 | .037 |   |  |
| 2.0         | .236                  | .129 | .040 | .230 | .126 | .039 | .218                            | .121 | .038 | .207 | .116 | .036 | .198 | .112 | .035 |   |  |
| 3.0         | .224                  | .119 | .036 | .219 | .117 | .035 | .209                            | .113 | .034 | .199 | .109 | .034 | .191 | .106 | .033 |   |  |
| 4.0         | .212                  | .110 | .032 | .207 | .108 | .032 | .198                            | .105 | .031 | .190 | .102 | .031 | .182 | .099 | .030 |   |  |
| 5.0         | .199                  | .102 | .029 | .195 | .100 | .029 | .187                            | .097 | .029 | .180 | .095 | .028 | .173 | .092 | .028 |   |  |
| 6.0         | .187                  | .094 | .027 | .184 | .093 | .027 | .177                            | .091 | .026 | .170 | .088 | .026 | .164 | .086 | .026 |   |  |
| 7.0         | .177                  | .087 | .025 | .173 | .086 | .025 | .167                            | .084 | .024 | .161 | .083 | .024 | .155 | .081 | .024 |   |  |
| 8.0         | .167                  | .081 | .023 | .164 | .081 | .023 | .158                            | .079 | .023 | .153 | .077 | .022 | .148 | .076 | .022 |   |  |
| 9.0         | .158                  | .076 | .021 | .155 | .075 | .021 | .150                            | .074 | .021 | .145 | .073 | .021 | .140 | .071 | .021 |   |  |
| 10.0        | .149                  | .072 | .020 | .147 | .071 | .020 | .142                            | .070 | .020 | .138 | .068 | .019 | .134 | .067 | .019 |   |  |

| $\rho_{CC}$ | 80%                   |      |      | 70%  |      |      | 50%                                        |      |      | 30%  |      |      | 10%  |      |      | 0 |
|-------------|-----------------------|------|------|------|------|------|--------------------------------------------|------|------|------|------|------|------|------|------|---|
| $\rho_W$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                                        | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                                        |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0         | .196                  | .196 | .196 | .167 | .167 | .167 | .114                                       | .114 | .114 | .066 | .066 | .066 | .021 | .021 | .021 |   |
| 1.0         | .181                  | .162 | .145 | .155 | .139 | .125 | .106                                       | .096 | .086 | .061 | .055 | .050 | .020 | .018 | .016 |   |
| 2.0         | .170                  | .138 | .110 | .146 | .119 | .095 | .100                                       | .082 | .067 | .058 | .048 | .039 | .018 | .015 | .013 |   |
| 3.0         | .161                  | .120 | .086 | .138 | .103 | .075 | .095                                       | .072 | .052 | .055 | .042 | .031 | .018 | .014 | .010 |   |
| 4.0         | .153                  | .106 | .069 | .131 | .091 | .060 | .090                                       | .064 | .042 | .052 | .037 | .025 | .017 | .012 | .008 |   |
| 5.0         | .146                  | .095 | .057 | .125 | .082 | .050 | .086                                       | .057 | .035 | .050 | .034 | .021 | .016 | .011 | .007 |   |
| 6.0         | .139                  | .086 | .049 | .119 | .075 | .042 | .082                                       | .052 | .030 | .048 | .031 | .018 | .015 | .010 | .006 |   |
| 7.0         | .133                  | .079 | .042 | .114 | .069 | .036 | .079                                       | .048 | .026 | .046 | .028 | .015 | .015 | .009 | .005 |   |
| 8.0         | .127                  | .073 | .037 | .109 | .064 | .032 | .075                                       | .045 | .023 | .044 | .026 | .014 | .014 | .009 | .004 |   |
| 9.0         | .121                  | .068 | .033 | .104 | .059 | .029 | .072                                       | .042 | .020 | .042 | .025 | .012 | .014 | .008 | .004 |   |
| 10.0        | .116                  | .064 | .030 | .100 | .056 | .026 | .069                                       | .039 | .018 | .040 | .023 | .011 | .013 | .008 | .004 |   |

Test System:HOPPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

Test Set: 10.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## UGR Table

Report number:

|                                                    |                  |      |           |      |      |                |      |      |             |      |      |
|----------------------------------------------------|------------------|------|-----------|------|------|----------------|------|------|-------------|------|------|
| MANUFACTURER:                                      |                  |      |           |      |      |                |      |      |             |      |      |
| Address:                                           |                  |      |           |      |      |                |      |      |             |      |      |
| NAME: 52526BK                                      |                  |      |           |      |      | TYPE:          |      |      | WEIGHT:     |      |      |
| SPECIFICATION:                                     |                  |      | CCT(K): 0 |      |      | DIMENSION:     |      |      | 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                                      | 2H               | 15.2 | 16.5      | 15.4 | 16.7 | 16.9           | 13.8 | 15.1 | 14.0        | 15.3 | 15.5 |
|                                                    | 3H               | 15.6 | 16.8      | 15.9 | 17.1 | 17.3           | 13.8 | 15.0 | 14.1        | 15.3 | 15.5 |
|                                                    | 4H               | 15.7 | 16.8      | 16.0 | 17.0 | 17.3           | 13.8 | 14.9 | 14.1        | 15.1 | 15.4 |
|                                                    | 6H               | 15.6 | 16.6      | 15.9 | 16.9 | 17.2           | 13.7 | 14.7 | 14.0        | 15.0 | 15.3 |
|                                                    | 8H               | 15.5 | 16.5      | 15.9 | 16.8 | 17.1           | 13.6 | 14.6 | 13.9        | 14.9 | 15.2 |
|                                                    | 12H              | 15.5 | 16.5      | 15.8 | 16.8 | 17.1           | 13.6 | 14.5 | 13.9        | 14.8 | 15.1 |
| 4H                                                 | 2H               | 15.3 | 16.4      | 15.6 | 16.7 | 16.9           | 14.1 | 15.2 | 14.4        | 15.5 | 15.7 |
|                                                    | 3H               | 15.8 | 16.8      | 16.2 | 17.1 | 17.4           | 14.2 | 15.2 | 14.5        | 15.5 | 15.8 |
|                                                    | 4H               | 15.9 | 16.8      | 16.3 | 17.1 | 17.4           | 14.1 | 15.0 | 14.5        | 15.3 | 15.7 |
|                                                    | 6H               | 15.8 | 16.6      | 16.2 | 17.0 | 17.3           | 14.0 | 14.8 | 14.4        | 15.2 | 15.5 |
|                                                    | 8H               | 15.8 | 16.5      | 16.2 | 16.9 | 17.3           | 14.0 | 14.7 | 14.4        | 15.1 | 15.5 |
|                                                    | 12H              | 15.7 | 16.4      | 16.2 | 16.8 | 17.2           | 13.9 | 14.6 | 14.4        | 15.0 | 15.4 |
| 8H                                                 | 4H               | 15.8 | 16.5      | 16.2 | 16.9 | 17.3           | 14.0 | 14.8 | 14.5        | 15.1 | 15.5 |
|                                                    | 6H               | 15.7 | 16.3      | 16.2 | 16.7 | 17.1           | 14.0 | 14.6 | 14.4        | 15.0 | 15.4 |
|                                                    | 8H               | 15.7 | 16.2      | 16.1 | 16.6 | 17.1           | 13.9 | 14.4 | 14.4        | 14.9 | 15.3 |
|                                                    | 12H              | 15.6 | 16.1      | 16.1 | 16.5 | 17.0           | 13.9 | 14.3 | 14.4        | 14.8 | 15.3 |
| 12H                                                | 4H               | 15.7 | 16.4      | 16.2 | 16.8 | 17.2           | 14.0 | 14.7 | 14.4        | 15.0 | 15.5 |
|                                                    | 6H               | 15.7 | 16.2      | 16.1 | 16.6 | 17.1           | 13.9 | 14.4 | 14.4        | 14.9 | 15.3 |
|                                                    | 8H               | 15.6 | 16.1      | 16.1 | 16.5 | 17.0           | 13.9 | 14.3 | 14.4        | 14.8 | 15.3 |
| Variations with the observer position at spacings: |                  |      |           |      |      |                |      |      |             |      |      |
| S = 1.0H                                           | + 0.5 / - 0.6    |      |           |      |      | + 0.8 / - 1.2  |      |      |             |      |      |
| 1.5H                                               | +0.5 / - 0.8     |      |           |      |      | + 0.3 / - 0.6  |      |      |             |      |      |
| 2.0H                                               | + 1.5 / - 2.0    |      |           |      |      | + 1.4 / - 2.1  |      |      |             |      |      |

CIE Pub.117 Corrected 989.1 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.0)

Test System:HOPPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

Test Set: 10.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## UTILIZATION FACTORS TABLE

Report number:

|                |           |            |             |
|----------------|-----------|------------|-------------|
| MANUFACTURER:  |           |            |             |
| Address:       |           |            |             |
| NAME: 52526BK  |           | TYPE:      | WEIGHT:     |
| SPECIFICATION: | CCT(K): 0 | DIMENSION: | SERIAL No.: |

| REFLECTANCE                      |                                                     |     |     |           |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----|-----------|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8                                                 | 0.8 | 0.8 | 0.7       | 0.7 | 0.7 | 0.5 | 0.5           | 0.5 | 0      |
| Walls                            | 0.7                                                 | 0.5 | 0.3 | 0.7       | 0.5 | 0.3 | 0.7 | 0.5           | 0.3 | 0      |
| Working plane                    | 0.2                                                 | 0.2 | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ |     |     |           |     |     |     |               |     |        |
| $k = 0.60$                       | 66                                                  | 56  | 50  | 65        | 56  | 50  | 64  | 55            | 50  | 44     |
| 0.80                             | 76                                                  | 66  | 60  | 75        | 66  | 60  | 74  | 65            | 60  | 54     |
| 1.00                             | 84                                                  | 75  | 69  | 83        | 74  | 69  | 81  | 75            | 68  | 62     |
| 1.25                             | 91                                                  | 82  | 76  | 89        | 81  | 76  | 87  | 80            | 75  | 69     |
| 1.50                             | 95                                                  | 87  | 82  | 93        | 86  | 81  | 91  | 85            | 80  | 74     |
| 2.00                             | 101                                                 | 94  | 89  | 99        | 93  | 88  | 96  | 91            | 87  | 80     |
| 2.50                             | 104                                                 | 98  | 93  | 102       | 96  | 92  | 98  | 94            | 90  | 83     |
| 3.00                             | 106                                                 | 101 | 97  | 104       | 99  | 96  | 100 | 97            | 93  | 86     |
| 4.00                             | 109                                                 | 105 | 101 | 107       | 103 | 100 | 103 | 100           | 97  | 89     |
| 5.00                             | 111                                                 | 108 | 104 | 109       | 106 | 103 | 104 | 102           | 100 | 91     |
| ROOM INDEX                       | UF(total)                                           |     |     |           |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                     |     |     | Suspended |     |     |     | SHRNOM = 1.25 |     |        |

Test System:HOPPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

Test Set: 10.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

|                |           |            |             |
|----------------|-----------|------------|-------------|
| MANUFACTURER:  |           |            |             |
| Address:       |           |            |             |
| NAME: 52526BK  |           | TYPE:      | WEIGHT:     |
| SPECIFICATION: | CCT(K): 0 | DIMENSION: | SERIAL No.: |

UNIT: cd

| C(DEG)<br>γ (DEG) |  | 0    | 10   | 20   | 30   | 40   | 50   | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  |
|-------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.0               |  | 584  | 580  | 579  | 576  | 575  | 573  | 573  | 570  | 570  | 568  | 568  | 566  | 566  | 564  | 564  |
| 5.0               |  | 575  | 568  | 567  | 560  | 561  | 555  | 556  | 549  | 552  | 548  | 551  | 547  | 550  | 549  | 553  |
| 10.0              |  | 553  | 544  | 542  | 533  | 532  | 526  | 526  | 519  | 522  | 517  | 522  | 517  | 523  | 522  | 528  |
| 15.0              |  | 524  | 510  | 508  | 496  | 497  | 486  | 491  | 481  | 486  | 480  | 487  | 480  | 488  | 485  | 495  |
| 20.0              |  | 486  | 470  | 469  | 455  | 457  | 445  | 449  | 437  | 445  | 437  | 445  | 439  | 448  | 445  | 456  |
| 25.0              |  | 441  | 424  | 422  | 409  | 409  | 397  | 398  | 393  | 393  | 392  | 394  | 392  | 400  | 399  | 411  |
| 30.0              |  | 396  | 390  | 375  | 355  | 359  | 340  | 348  | 331  | 342  | 331  | 343  | 334  | 350  | 344  | 364  |
| 35.0              |  | 347  | 324  | 327  | 305  | 300  | 289  | 295  | 281  | 291  | 280  | 292  | 284  | 299  | 295  | 303  |
| 40.0              |  | 296  | 277  | 276  | 257  | 257  | 240  | 245  | 232  | 241  | 233  | 243  | 236  | 249  | 247  | 265  |
| 45.0              |  | 250  | 229  | 230  | 209  | 212  | 194  | 199  | 186  | 196  | 186  | 198  | 189  | 204  | 200  | 220  |
| 50.0              |  | 204  | 184  | 188  | 167  | 170  | 153  | 159  | 146  | 156  | 146  | 157  | 150  | 164  | 161  | 179  |
| 55.0              |  | 154  | 139  | 142  | 129  | 132  | 118  | 123  | 110  | 116  | 108  | 120  | 115  | 127  | 125  | 141  |
| 60.0              |  | 111  | 97.6 | 103  | 91.1 | 98.0 | 83.9 | 84.1 | 68.3 | 74.6 | 66.5 | 79.1 | 76.4 | 95.2 | 92.5 | 105  |
| 65.0              |  | 74.5 | 63.2 | 69.3 | 60.0 | 63.5 | 48.6 | 50.4 | 36.7 | 41.2 | 34.7 | 45.4 | 44.1 | 59.7 | 59.2 | 72.5 |
| 70.0              |  | 42.0 | 34.0 | 39.7 | 30.7 | 32.1 | 21.1 | 22.2 | 13.4 | 17.1 | 12.1 | 19.3 | 18.5 | 29.3 | 29.3 | 41.4 |
| 75.0              |  | 17.8 | 10.9 | 16.5 | 8.10 | 11.0 | 3.10 | 7.70 | 1.70 | 5.60 | 1.10 | 6.90 | 2.70 | 9.50 | 7.80 | 17.1 |
| 80.0              |  | 5.50 | 0.30 | 4.20 | 0.20 | 4.00 | 0.00 | 3.40 | 0.00 | 3.10 | 0.00 | 3.20 | 0.00 | 3.60 | 0.00 | 4.80 |
| 85.0              |  | 3.60 | 0.00 | 3.10 | 0.00 | 3.30 | 0.00 | 2.90 | 0.00 | 2.60 | 0.00 | 2.80 | 0.00 | 3.40 | 0.00 | 3.20 |
| 90.0              |  | 3.10 | 0.00 | 2.50 | 0.00 | 2.50 | 0.00 | 2.10 | 0.00 | 2.10 | 0.00 | 2.20 | 0.00 | 2.60 | 0.00 | 2.70 |
| 95.0              |  | 2.80 | 0.00 | 2.30 | 0.00 | 2.20 | 0.00 | 2.10 | 0.00 | 2.20 | 0.00 | 2.00 | 0.00 | 2.40 | 0.00 | 2.50 |
| 100.0             |  | 2.50 | 0.00 | 1.80 | 0.00 | 2.10 | 0.00 | 2.00 | 0.00 | 1.80 | 0.00 | 1.50 | 0.00 | 2.10 | 0.00 | 2.20 |
| 105.0             |  | 2.20 | 0.00 | 2.00 | 0.00 | 1.60 | 0.00 | 1.90 | 0.00 | 1.50 | 0.00 | 1.70 | 0.00 | 1.40 | 0.00 | 1.90 |
| 110.0             |  | 1.90 | 0.00 | 1.80 | 0.00 | 1.90 | 0.00 | 2.00 | 0.00 | 1.50 | 0.00 | 1.70 | 0.00 | 1.60 | 0.00 | 1.80 |
| 115.0             |  | 1.90 | 0.00 | 1.60 | 0.00 | 1.60 | 0.00 | 1.80 | 0.00 | 1.80 | 0.00 | 1.70 | 0.00 | 1.80 | 0.10 | 1.60 |
| 120.0             |  | 2.30 | 0.00 | 1.80 | 0.00 | 1.60 | 0.10 | 1.80 | 0.00 | 1.60 | 0.20 | 1.50 | 0.00 | 1.50 | 0.00 | 2.00 |
| 125.0             |  | 1.90 | 0.00 | 1.90 | 0.00 | 1.50 | 0.00 | 1.70 | 0.00 | 1.50 | 0.10 | 1.50 | 0.00 | 1.40 | 0.00 | 2.00 |
| 130.0             |  | 1.60 | 0.40 | 1.90 | 0.40 | 1.70 | 0.40 | 1.90 | 0.60 | 1.70 | 0.30 | 1.50 | 0.00 | 1.80 | 0.00 | 1.50 |
| 135.0             |  | 2.10 | 0.20 | 1.10 | 0.00 | 1.70 | 0.40 | 1.70 | 0.40 | 1.70 | 0.50 | 1.50 | 0.40 | 1.30 | 0.60 | 2.00 |
| 140.0             |  | 1.90 | 0.70 | 1.90 | 1.00 | 1.80 | 0.40 | 1.50 | 0.80 | 1.80 | 0.50 | 2.10 | 0.80 | 1.60 | 0.70 | 2.10 |
| 145.0             |  | 2.30 | 0.40 | 1.90 | 0.80 | 1.90 | 1.00 | 1.70 | 0.70 | 1.70 | 0.80 | 1.90 | 0.60 | 1.60 | 0.70 | 1.90 |
| 150.0             |  | 2.60 | 0.60 | 2.40 | 0.60 | 2.00 | 0.80 | 2.10 | 0.70 | 1.30 | 0.30 | 1.80 | 0.70 | 1.80 | 1.10 | 1.90 |
| 155.0             |  | 2.30 | 0.80 | 2.20 | 0.30 | 2.10 | 0.80 | 1.90 | 1.10 | 2.20 | 0.70 | 1.90 | 0.80 | 1.70 | 0.70 | 1.70 |
| 160.0             |  | 2.30 | 0.60 | 2.10 | 0.90 | 1.90 | 1.20 | 2.40 | 1.40 | 2.00 | 0.90 | 1.90 | 1.60 | 1.90 | 1.30 | 2.40 |
| 165.0             |  | 2.00 | 1.50 | 2.40 | 1.10 | 2.00 | 1.10 | 2.30 | 0.70 | 2.10 | 1.20 | 2.10 | 0.90 | 2.10 | 0.90 | 2.10 |
| 170.0             |  | 2.30 | 1.20 | 2.10 | 1.40 | 1.80 | 1.00 | 2.10 | 1.40 | 2.30 | 1.30 | 1.90 | 1.30 | 2.20 | 1.20 | 1.80 |
| 175.0             |  | 2.20 | 1.00 | 1.80 | 1.00 | 1.70 | 1.40 | 1.70 | 1.00 | 1.80 | 1.40 | 2.30 | 1.50 | 2.60 | 1.60 | 1.80 |
| 180.0             |  | 2.70 | 1.70 | 1.90 | 1.70 | 2.20 | 1.50 | 2.10 | 1.90 | 2.00 | 1.80 | 1.90 | 1.30 | 1.70 | 1.40 | 2.50 |

Test System:HOPPO0 HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

Test Set: 10.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

|                |           |            |             |
|----------------|-----------|------------|-------------|
| MANUFACTURER:  |           |            |             |
| Address:       |           |            |             |
| NAME: 52526BK  |           | TYPE:      | WEIGHT:     |
| SPECIFICATION: | CCT(K): 0 | DIMENSION: | SERIAL No.: |

UNIT: cd

| C(DEG)<br>γ (DEG) | 150  | 160  | 170  | 180  | 190  | 200  | 210  | 220  | 230  | 240  | 250  | 260  | 270  | 280  | 290  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.0               | 564  | 563  | 563  | 584  | 580  | 579  | 576  | 575  | 573  | 573  | 570  | 570  | 568  | 568  | 566  |
| 5.0               | 552  | 556  | 555  | 579  | 579  | 576  | 575  | 573  | 573  | 571  | 571  | 569  | 567  | 565  | 564  |
| 10.0              | 528  | 535  | 537  | 562  | 563  | 557  | 559  | 553  | 554  | 550  | 553  | 547  | 550  | 545  | 547  |
| 15.0              | 494  | 506  | 506  | 533  | 537  | 528  | 530  | 522  | 526  | 520  | 526  | 519  | 523  | 515  | 518  |
| 20.0              | 454  | 469  | 470  | 497  | 498  | 490  | 493  | 485  | 490  | 485  | 490  | 484  | 487  | 478  | 482  |
| 25.0              | 411  | 426  | 428  | 454  | 457  | 445  | 450  | 441  | 447  | 440  | 449  | 439  | 445  | 434  | 439  |
| 30.0              | 360  | 381  | 389  | 407  | 412  | 399  | 404  | 394  | 400  | 395  | 399  | 394  | 395  | 393  | 391  |
| 35.0              | 313  | 335  | 333  | 356  | 362  | 348  | 353  | 340  | 346  | 336  | 346  | 336  | 344  | 331  | 339  |
| 40.0              | 266  | 285  | 288  | 306  | 302  | 297  | 301  | 287  | 295  | 283  | 295  | 284  | 293  | 279  | 289  |
| 45.0              | 220  | 241  | 240  | 260  | 266  | 249  | 255  | 239  | 247  | 235  | 247  | 235  | 245  | 231  | 241  |
| 50.0              | 179  | 199  | 197  | 214  | 221  | 205  | 211  | 195  | 202  | 189  | 202  | 190  | 200  | 186  | 196  |
| 55.0              | 139  | 154  | 153  | 168  | 176  | 164  | 168  | 154  | 160  | 149  | 155  | 143  | 151  | 142  | 154  |
| 60.0              | 99.0 | 114  | 109  | 122  | 132  | 120  | 129  | 118  | 120  | 102  | 109  | 95.5 | 104  | 96.2 | 110  |
| 65.0              | 66.5 | 78.3 | 72.7 | 83.7 | 92.7 | 84.0 | 93.4 | 79.9 | 81.8 | 65.6 | 69.9 | 57.9 | 65.4 | 58.4 | 71.4 |
| 70.0              | 38.9 | 46.3 | 42.5 | 50.8 | 58.7 | 52.8 | 57.3 | 45.5 | 47.0 | 35.1 | 38.0 | 28.7 | 34.4 | 29.8 | 39.2 |
| 75.0              | 14.8 | 21.9 | 17.0 | 22.7 | 31.0 | 24.6 | 28.9 | 18.7 | 21.6 | 12.2 | 16.4 | 8.70 | 14.2 | 9.50 | 16.6 |
| 80.0              | 0.80 | 6.80 | 1.60 | 4.50 | 10.9 | 5.30 | 10.4 | 3.70 | 6.80 | 1.50 | 5.40 | 0.70 | 5.30 | 0.80 | 5.40 |
| 85.0              | 0.00 | 3.70 | 0.00 | 0.00 | 3.50 | 0.00 | 3.50 | 0.00 | 3.10 | 0.00 | 2.60 | 0.00 | 3.30 | 0.00 | 3.10 |
| 90.0              | 0.00 | 2.80 | 0.00 | 0.00 | 3.00 | 0.00 | 2.70 | 0.00 | 2.40 | 0.00 | 2.50 | 0.00 | 2.60 | 0.00 | 2.40 |
| 95.0              | 0.00 | 2.50 | 0.00 | 0.00 | 2.60 | 0.00 | 2.70 | 0.00 | 2.50 | 0.00 | 2.20 | 0.00 | 2.50 | 0.00 | 2.30 |
| 100.0             | 0.00 | 2.40 | 0.00 | 0.00 | 2.60 | 0.00 | 1.90 | 0.00 | 2.30 | 0.00 | 2.00 | 0.00 | 1.90 | 0.00 | 2.10 |
| 105.0             | 0.00 | 2.20 | 0.00 | 0.00 | 1.90 | 0.00 | 2.00 | 0.00 | 1.90 | 0.00 | 1.80 | 0.00 | 1.70 | 0.00 | 1.70 |
| 110.0             | 0.00 | 1.60 | 0.00 | 0.10 | 2.10 | 0.00 | 1.70 | 0.00 | 1.90 | 0.00 | 2.00 | 0.00 | 1.70 | 0.00 | 2.00 |
| 115.0             | 0.00 | 1.50 | 0.00 | 0.30 | 1.80 | 0.00 | 2.10 | 0.00 | 1.90 | 0.00 | 2.00 | 0.00 | 1.80 | 0.00 | 1.40 |
| 120.0             | 0.10 | 1.50 | 0.00 | 0.60 | 1.50 | 0.00 | 1.90 | 0.00 | 1.90 | 0.00 | 1.40 | 0.00 | 1.90 | 0.00 | 1.60 |
| 125.0             | 0.00 | 1.70 | 0.20 | 0.40 | 1.70 | 0.00 | 1.50 | 0.10 | 1.60 | 0.00 | 1.50 | 0.00 | 1.50 | 0.20 | 1.70 |
| 130.0             | 0.40 | 1.90 | 0.40 | 0.70 | 2.00 | 0.00 | 2.20 | 0.20 | 1.90 | 0.00 | 1.70 | 0.30 | 2.10 | 0.20 | 1.50 |
| 135.0             | 0.60 | 1.90 | 0.50 | 1.20 | 2.10 | 0.30 | 1.40 | 0.40 | 2.00 | 0.10 | 2.00 | 0.30 | 1.60 | 0.20 | 2.00 |
| 140.0             | 0.60 | 2.00 | 0.70 | 1.20 | 2.00 | 0.60 | 1.50 | 0.10 | 1.60 | 0.70 | 1.90 | 0.50 | 1.90 | 0.40 | 1.40 |
| 145.0             | 0.90 | 1.80 | 0.60 | 1.30 | 2.50 | 0.40 | 2.00 | 0.80 | 1.80 | 0.90 | 1.70 | 0.50 | 1.60 | 1.00 | 2.00 |
| 150.0             | 1.20 | 1.80 | 0.70 | 1.50 | 2.20 | 0.50 | 2.00 | 1.10 | 2.30 | 0.80 | 1.70 | 0.70 | 1.70 | 0.80 | 1.80 |
| 155.0             | 0.90 | 1.90 | 0.90 | 1.70 | 2.10 | 0.70 | 1.90 | 0.80 | 1.80 | 1.10 | 2.10 | 1.00 | 1.70 | 1.10 | 2.30 |
| 160.0             | 1.10 | 2.30 | 1.50 | 1.80 | 2.10 | 1.20 | 2.40 | 0.70 | 2.10 | 0.80 | 2.60 | 1.50 | 2.00 | 1.30 | 2.10 |
| 165.0             | 1.20 | 2.10 | 1.00 | 1.80 | 2.10 | 1.20 | 2.30 | 1.00 | 2.10 | 0.90 | 1.80 | 0.80 | 1.90 | 1.10 | 2.20 |
| 170.0             | 0.80 | 2.40 | 1.50 | 2.00 | 2.60 | 1.00 | 2.30 | 1.50 | 2.10 | 1.10 | 1.90 | 1.20 | 1.90 | 1.20 | 2.50 |
| 175.0             | 0.90 | 1.90 | 1.40 | 2.20 | 1.90 | 1.30 | 2.40 | 1.50 | 2.20 | 0.90 | 1.90 | 1.20 | 2.20 | 1.20 | 2.00 |
| 180.0             | 1.50 | 2.00 | 1.60 | 2.50 | 2.10 | 1.30 | 2.00 | 1.30 | 2.00 | 1.70 | 2.00 | 1.70 | 2.00 | 1.70 | 2.20 |

Test System:HOPPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

Test Set: 10.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

|                |           |            |             |
|----------------|-----------|------------|-------------|
| MANUFACTURER:  |           |            |             |
| Address:       |           |            |             |
| NAME: 52526BK  |           | TYPE:      | WEIGHT:     |
| SPECIFICATION: | CCT(K): 0 | DIMENSION: | SERIAL No.: |

UNIT: cd

| C(DEG)<br>γ (DEG) | 300  | 310  | 320  | 330  | 340  | 350  |
|-------------------|------|------|------|------|------|------|
| 0.0               | 566  | 564  | 564  | 564  | 563  | 563  |
| 5.0               | 563  | 563  | 560  | 560  | 556  | 557  |
| 10.0              | 542  | 544  | 540  | 544  | 538  | 538  |
| 15.0              | 511  | 517  | 510  | 515  | 510  | 512  |
| 20.0              | 474  | 477  | 472  | 477  | 473  | 476  |
| 25.0              | 430  | 436  | 428  | 435  | 430  | 436  |
| 30.0              | 392  | 390  | 391  | 391  | 390  | 393  |
| 35.0              | 328  | 339  | 331  | 342  | 335  | 344  |
| 40.0              | 276  | 289  | 281  | 294  | 285  | 297  |
| 45.0              | 230  | 242  | 235  | 249  | 239  | 251  |
| 50.0              | 186  | 199  | 191  | 206  | 196  | 208  |
| 55.0              | 147  | 157  | 152  | 160  | 151  | 158  |
| 60.0              | 106  | 122  | 111  | 119  | 109  | 116  |
| 65.0              | 69.4 | 82.5 | 77.1 | 83.5 | 72.5 | 79.2 |
| 70.0              | 37.2 | 48.1 | 44.4 | 52.1 | 42.6 | 46.5 |
| 75.0              | 13.3 | 22.4 | 17.6 | 24.7 | 17.4 | 21.6 |
| 80.0              | 1.50 | 7.20 | 2.60 | 7.90 | 2.10 | 6.10 |
| 85.0              | 0.00 | 3.40 | 0.00 | 3.20 | 0.00 | 3.40 |
| 90.0              | 0.00 | 2.70 | 0.00 | 2.90 | 0.00 | 3.10 |
| 95.0              | 0.00 | 2.40 | 0.00 | 2.20 | 0.00 | 2.40 |
| 100.0             | 0.00 | 2.40 | 0.00 | 2.20 | 0.00 | 2.40 |
| 105.0             | 0.00 | 1.80 | 0.00 | 2.40 | 0.00 | 1.90 |
| 110.0             | 0.00 | 1.60 | 0.00 | 2.00 | 0.00 | 2.10 |
| 115.0             | 0.00 | 1.70 | 0.00 | 1.80 | 0.00 | 1.50 |
| 120.0             | 0.00 | 1.70 | 0.20 | 2.00 | 0.00 | 1.80 |
| 125.0             | 0.00 | 1.70 | 0.10 | 2.20 | 0.00 | 1.80 |
| 130.0             | 0.10 | 1.70 | 0.40 | 1.70 | 0.70 | 1.70 |
| 135.0             | 0.40 | 1.60 | 0.40 | 1.90 | 0.50 | 1.60 |
| 140.0             | 0.60 | 2.10 | 0.60 | 1.90 | 1.10 | 1.60 |
| 145.0             | 0.30 | 1.80 | 0.80 | 2.10 | 1.00 | 2.10 |
| 150.0             | 0.80 | 1.80 | 0.90 | 2.10 | 0.80 | 2.00 |
| 155.0             | 0.90 | 2.20 | 0.80 | 2.00 | 0.90 | 2.10 |
| 160.0             | 0.70 | 2.30 | 1.10 | 2.00 | 1.00 | 2.00 |
| 165.0             | 1.10 | 2.30 | 1.40 | 2.10 | 1.00 | 2.20 |
| 170.0             | 1.80 | 2.20 | 0.80 | 1.80 | 1.10 | 2.10 |
| 175.0             | 1.20 | 2.50 | 1.50 | 2.10 | 0.90 | 2.70 |
| 180.0             | 1.40 | 1.90 | 2.20 | 2.10 | 1.50 | 2.20 |

Test System:HOPPO0 HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2025年05月23日

Test Set: 10.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks: