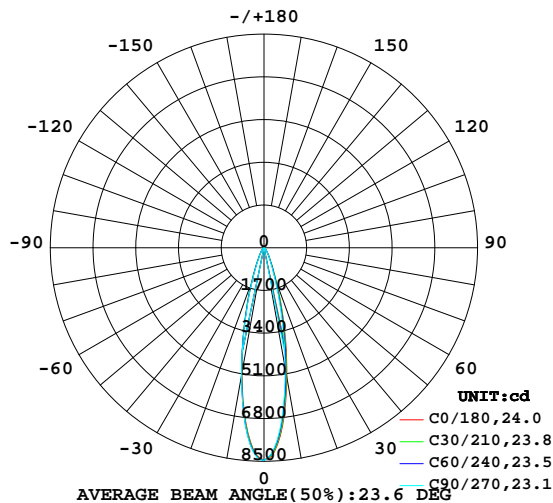


## LUMINAIRE PHOTOMETRIC TEST REPORT

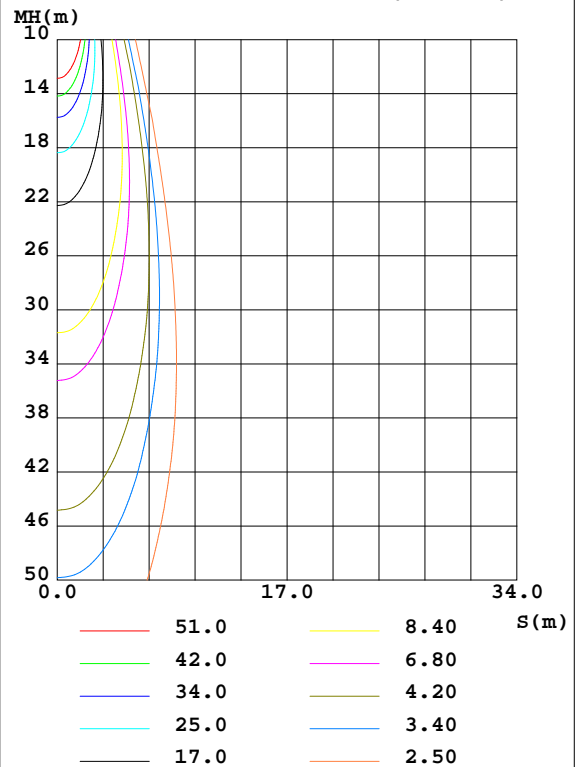
|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2083.1lx1 lm |          |                  |
| NAME: Optic/CCT/Wattage/Up & Down Light  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: LEDVANCE LLC   | SUR.:    | Shielding Angle: |

| DATA OF LAMP     |                        | PHOTOMETRIC DATA Eff: 133.45 lm/W |        |                   |          |
|------------------|------------------------|-----------------------------------|--------|-------------------|----------|
| MODEL            | INDFPS020UNHD8SC2R4BZP | I <sub>max</sub> (cd)             | 8456   | S/MH(C0/180)      | 0.40     |
| NOMINAL POWER(W) | 15                     | LOR(%)                            | 100.0  | S/MH(C90/270)     | 0.40     |
| RATED VOLTAGE(V) | 120-347                | TOTAL FLUX(lm)                    | 2083.1 | η UP,DN(C0-180)   | 0.1,49.3 |
| NOMINAL FLUX(lm) | 2083.11                | CIE CLASS                         | DIRECT | η UP,DN(C180-360) | 0.1,50.5 |
| LAMPS INSIDE     | 1                      | η up(%)                           | 0.1    | CIBSE SHR NOM     | 0.00     |
| TEST VOLTAGE(V)  | 120                    | η down(%)                         | 99.9   | CIBSE SHR MAX     | 1.00     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 5244                  | 5075   | 4868   | 4868   | 5070   | 5140   | 5162   | 5224   | 0- 10    | 630.5       | 630.5        | 30.3,30.3  |
| 20       | 1440                  | 1384   | 1216   | 1263   | 1408   | 1411   | 1317   | 1395   | 10- 20   | 784.3       | 1415         | 67.9,67.9  |
| 30       | 386.1                 | 390.7  | 371.6  | 368.1  | 381.5  | 377.7  | 361.0  | 369.3  | 20- 30   | 325.1       | 1740         | 83.5,83.5  |
| 40       | 157.6                 | 159.0  | 156.7  | 154.6  | 155.4  | 150.8  | 146.5  | 149.4  | 30- 40   | 151.0       | 1891         | 90.8,90.8  |
| 50       | 77.03                 | 77.00  | 75.64  | 75.23  | 76.61  | 74.99  | 73.29  | 74.71  | 40- 50   | 83.49       | 1974         | 94.8,94.8  |
| 60       | 42.18                 | 41.73  | 40.56  | 40.77  | 41.79  | 41.26  | 40.25  | 41.13  | 50- 60   | 50.36       | 2025         | 97.2,97.2  |
| 70       | 23.60                 | 23.08  | 22.25  | 22.60  | 23.38  | 23.09  | 22.84  | 23.21  | 60- 70   | 30.96       | 2056         | 98.7,98.7  |
| 80       | 12.55                 | 12.18  | 10.08  | 11.28  | 12.70  | 12.39  | 11.06  | 11.80  | 70- 80   | 17.98       | 2074         | 99.5,99.5  |
| 90       | 0.0291                | 0.0253 | 0.0188 | 0.0206 | 0.0294 | 0.0322 | 0.0366 | 0.0375 | 80- 90   | 6.313       | 2080         | 99.9,99.9  |
| 100      | 0.0234                | 0.0231 | 0.0234 | 0.0234 | 0.0411 | 0.0402 | 0.0395 | 0.0389 | 90-100   | 0.0295      | 2080         | 99.9,99.9  |
| 110      | 0.0338                | 0.0323 | 0.0332 | 0.0332 | 0.0522 | 0.0519 | 0.0500 | 0.0500 | 100-110  | 0.0390      | 2080         | 99.9,99.9  |
| 120      | 0.0574                | 0.0560 | 0.0556 | 0.0565 | 0.0816 | 0.0817 | 0.0798 | 0.0788 | 110-120  | 0.0518      | 2080         | 99.9,99.9  |
| 130      | 0.1422                | 0.1403 | 0.1370 | 0.1392 | 0.2233 | 0.2200 | 0.2098 | 0.2100 | 120-130  | 0.0981      | 2080         | 99.9,99.9  |
| 140      | 0.4730                | 0.4791 | 0.4778 | 0.4808 | 0.8582 | 0.8301 | 0.7987 | 0.8054 | 130-140  | 0.2762      | 2081         | 99.9,99.9  |
| 150      | 1.147                 | 1.162  | 1.178  | 1.174  | 2.398  | 2.362  | 2.339  | 2.343  | 140-150  | 0.7374      | 2081         | 99.9,99.9  |
| 160      | 1.481                 | 1.485  | 1.509  | 1.509  | 3.375  | 3.349  | 3.362  | 3.389  | 150-160  | 1.004       | 2082         | 100,100    |
| 170      | 1.384                 | 1.405  | 1.434  | 1.427  | 2.794  | 2.781  | 2.780  | 2.844  | 160-170  | 0.6705      | 2083         | 100,100    |
| 180      | 1.643                 | 1.633  | 1.627  | 1.649  | 1.649  | 1.637  | 1.615  | 1.639  | 170-180  | 0.1805      | 2083         | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 1938.2 lm

%lum = 93.0%

%lamp = 93.0%

Conical surface Flux(120deg): 2024.8 lm

%lum = 97.2%

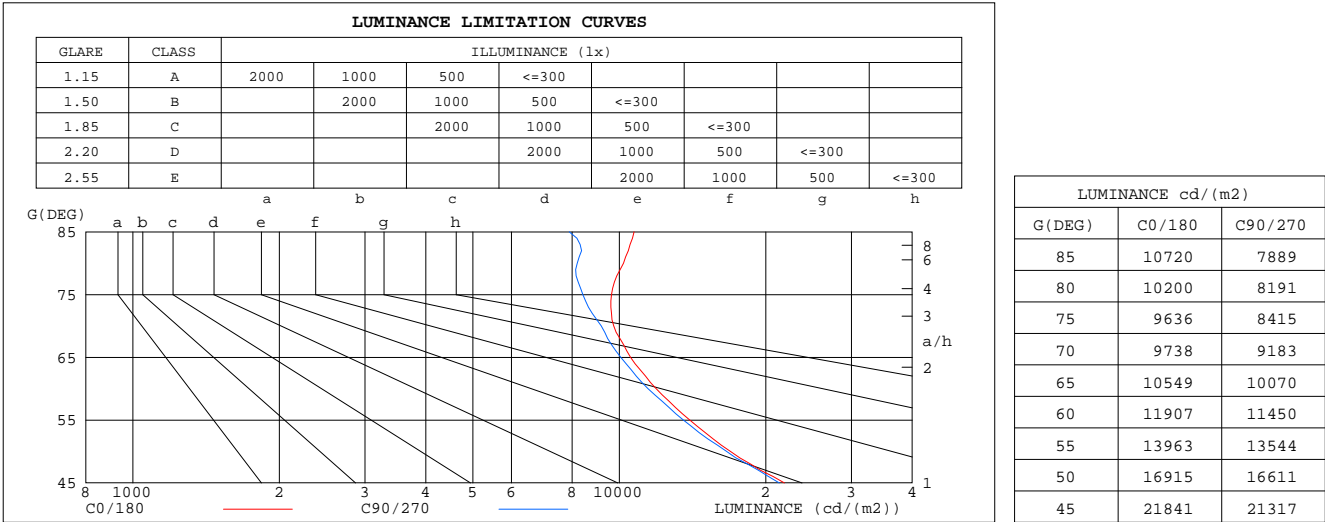
%lamp = 97.2%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 15 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 41.6%  
 Test Distance: 2.500m [K=1.0461]  
 Remarks:

LUMINANCE LIMITATION CURVES

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2083.1lx1 lm |          |                  |
| NAME: Optic/CCT/Wattage/Up & Down Light  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: LEDVANCE LLC   | SUR.:    | Shielding Angle: |



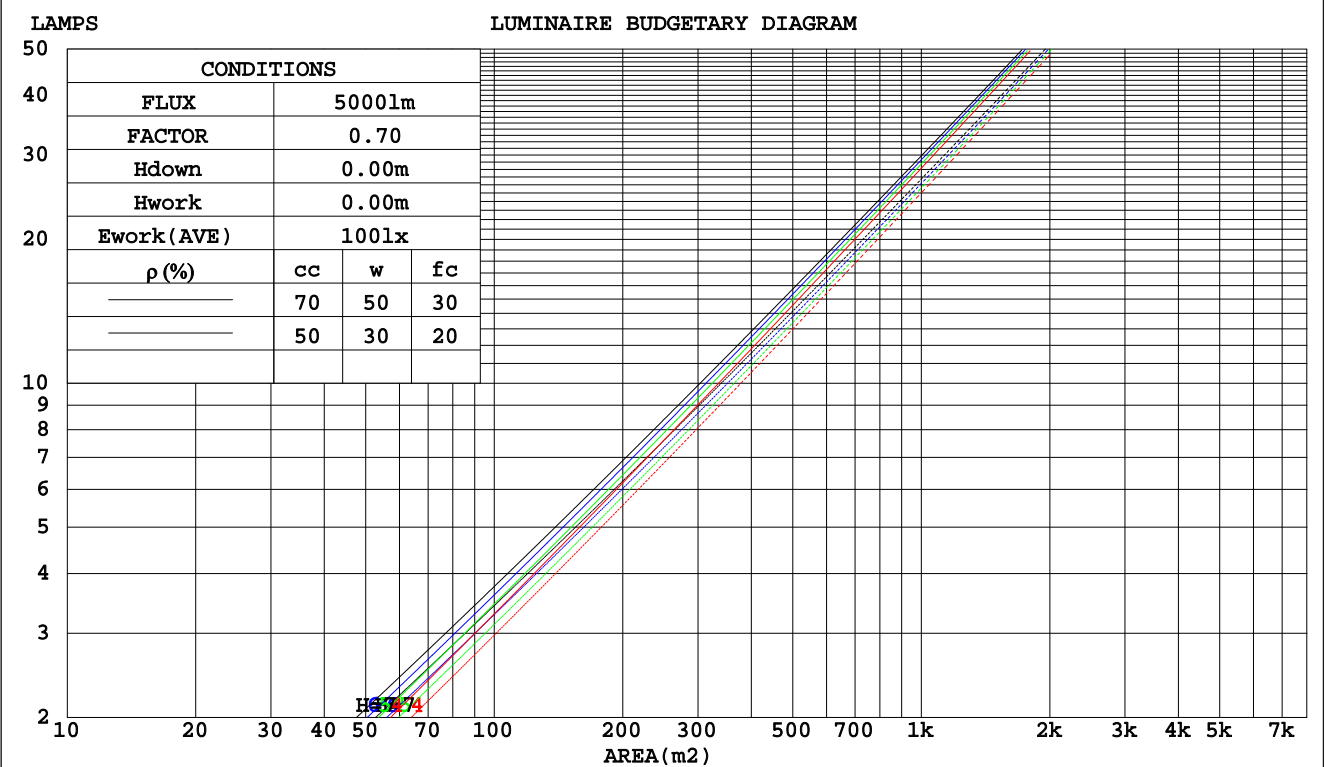
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2083.11x1 lm |          |                  |
| NAME: Optic/CCT/Wattage/Up & Down Light  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: LEDVANCE LLC   | SUR.:    | Shielding Angle: |

| pcc | 80%                   |     |     | 70% |     |     | 50% |     |     | 30% |     |     | 10% |     |     | 0 |
|-----|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| ρw  | 50%                   | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20%                   |     |     | 20% |     |     | 20% |     |     | 20% |     |     | 20% |     |     | 0 |
| RCR | RCR:Room Cavity Ratio |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:

## WEC AND CCEC

|  |  |  |          |  |                  |
|--|--|--|----------|--|------------------|
| Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2083.11x1 lm |  |  |          |  |                  |
| NAME: Optic/CCT/Wattage/Up & Down Light  |  |  | TYPE:LED |  | WEIGHT:          |
| SPEC.:   |  |  | DIM.:    |  | SERIAL No.:      |
| MFR.: LEDVANCE LLC   |  |  | SUR.:    |  | Shielding Angle: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |  |
| 1.0  | .162                  | .092 | .029 | .155 | .089 | .028 | .143                            | .082 | .026 | .131 | .076 | .024 | .120 | .070 | .022 |   |  |
| 2.0  | .151                  | .083 | .025 | .145 | .080 | .025 | .135                            | .075 | .023 | .125 | .070 | .022 | .116 | .066 | .021 |   |  |
| 3.0  | .141                  | .075 | .022 | .136 | .073 | .022 | .127                            | .069 | .021 | .119 | .065 | .020 | .111 | .062 | .019 |   |  |
| 4.0  | .132                  | .068 | .020 | .128 | .067 | .020 | .120                            | .064 | .019 | .113 | .061 | .018 | .107 | .058 | .018 |   |  |
| 5.0  | .124                  | .063 | .018 | .120 | .062 | .018 | .114                            | .059 | .017 | .108 | .057 | .017 | .102 | .055 | .016 |   |  |
| 6.0  | .117                  | .058 | .017 | .114 | .057 | .017 | .108                            | .055 | .016 | .103 | .053 | .016 | .098 | .052 | .015 |   |  |
| 7.0  | .110                  | .055 | .015 | .108 | .054 | .015 | .103                            | .052 | .015 | .098 | .050 | .015 | .094 | .049 | .014 |   |  |
| 8.0  | .105                  | .051 | .014 | .102 | .050 | .014 | .098                            | .049 | .014 | .094 | .048 | .014 | .090 | .046 | .013 |   |  |
| 9.0  | .100                  | .048 | .013 | .098 | .048 | .013 | .094                            | .046 | .013 | .090 | .045 | .013 | .087 | .044 | .013 |   |  |
| 10.0 | .095                  | .046 | .013 | .093 | .045 | .013 | .090                            | .044 | .012 | .087 | .043 | .012 | .084 | .042 | .012 |   |  |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .192                  | .192 | .192 | .164 | .164 | .164 | .112                                       | .112 | .112 | .064 | .064 | .064 | .021 | .021 | .021 |   |
| 1.0  | .171                  | .159 | .147 | .146 | .136 | .127 | .100                                       | .094 | .088 | .058 | .054 | .051 | .018 | .017 | .016 |   |
| 2.0  | .155                  | .134 | .116 | .132 | .115 | .100 | .091                                       | .080 | .070 | .052 | .046 | .041 | .017 | .015 | .013 |   |
| 3.0  | .141                  | .115 | .094 | .121 | .099 | .081 | .083                                       | .069 | .057 | .048 | .040 | .034 | .015 | .013 | .011 |   |
| 4.0  | .129                  | .100 | .077 | .111 | .086 | .067 | .076                                       | .060 | .047 | .044 | .035 | .028 | .014 | .011 | .009 |   |
| 5.0  | .119                  | .088 | .064 | .102 | .076 | .056 | .070                                       | .053 | .039 | .041 | .031 | .023 | .013 | .010 | .008 |   |
| 6.0  | .111                  | .078 | .054 | .095 | .067 | .047 | .066                                       | .047 | .033 | .038 | .028 | .020 | .012 | .009 | .007 |   |
| 7.0  | .103                  | .070 | .046 | .089 | .061 | .040 | .061                                       | .042 | .029 | .036 | .025 | .017 | .012 | .008 | .006 |   |
| 8.0  | .097                  | .063 | .040 | .083 | .055 | .035 | .058                                       | .039 | .025 | .034 | .023 | .015 | .011 | .007 | .005 |   |
| 9.0  | .091                  | .058 | .035 | .078 | .050 | .031 | .054                                       | .035 | .022 | .032 | .021 | .013 | .010 | .007 | .004 |   |
| 10.0 | .086                  | .053 | .031 | .074 | .046 | .027 | .051                                       | .032 | .019 | .030 | .019 | .011 | .010 | .006 | .004 |   |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 15 October 2024

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 41.6%  
 Test Distance: 2.500m [K=1.0461]  
 Remarks:

## UGR(Unified Glare Rating) Table

|  |                  |      |      |      |          |                |      |                  |      |      |
|--|------------------|------|------|------|----------|----------------|------|------------------|------|------|
| Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2083.1lx1 lm |                  |      |      |      |          |                |      |                  |      |      |
| NAME: Optic/CCT/Wattage/Up & Down Light  |                  |      |      |      | TYPE:LED |                |      | WEIGHT:          |      |      |
| SPEC.:   |                  |      |      |      | DIM.:    |                |      | SERIAL No.:      |      |      |
| MFR.: LEDVANCE LLC   |                  |      |      |      | SUR.:    |                |      | Shielding Angle: |      |      |
| 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  | 16.9             | 17.7 | 17.1 | 17.9 | 18.0     | 16.7           | 17.5 | 16.9             | 17.7 | 17.8 |
| 3H   | 17.6             | 18.3 | 17.9 | 18.5 | 18.7     | 17.4           | 18.1 | 17.6             | 18.3 | 18.5 |
| 4H   | 18.0             | 18.7 | 18.2 | 18.9 | 19.1     | 17.7           | 18.4 | 18.0             | 18.6 | 18.8 |
| 6H   | 18.3             | 19.0 | 18.6 | 19.2 | 19.5     | 17.9           | 18.6 | 18.2             | 18.8 | 19.1 |
| 8H   | 18.5             | 19.1 | 18.8 | 19.4 | 19.6     | 18.1           | 18.7 | 18.4             | 18.9 | 19.2 |
| 12H  | 18.6             | 19.2 | 18.9 | 19.5 | 19.8     | 18.1           | 18.7 | 18.4             | 19.0 | 19.3 |
| 4H 2H  | 17.2             | 17.8 | 17.4 | 18.1 | 18.3     | 17.0           | 17.7 | 17.3             | 17.9 | 18.1 |
| 3H   | 18.0             | 18.6 | 18.4 | 18.9 | 19.2     | 17.8           | 18.4 | 18.1             | 18.7 | 19.0 |
| 4H   | 18.5             | 19.1 | 18.9 | 19.4 | 19.7     | 18.3           | 18.8 | 18.6             | 19.1 | 19.4 |
| 6H   | 19.1             | 19.6 | 19.4 | 19.9 | 20.2     | 18.6           | 19.1 | 19.0             | 19.5 | 19.8 |
| 8H   | 19.3             | 19.7 | 19.7 | 20.1 | 20.5     | 18.8           | 19.3 | 19.2             | 19.6 | 20.0 |
| 12H  | 19.5             | 19.9 | 19.9 | 20.3 | 20.7     | 18.9           | 19.4 | 19.3             | 19.7 | 20.1 |
| 8H 4H  | 18.7             | 19.2 | 19.1 | 19.5 | 19.9     | 18.4           | 18.9 | 18.8             | 19.2 | 19.6 |
| 6H   | 19.4             | 19.7 | 19.8 | 20.1 | 20.6     | 19.0           | 19.4 | 19.4             | 19.8 | 20.2 |
| 8H   | 19.7             | 20.0 | 20.1 | 20.4 | 20.9     | 19.2           | 19.6 | 19.7             | 20.0 | 20.4 |
| 12H  | 19.9             | 20.2 | 20.4 | 20.7 | 21.2     | 19.4           | 19.7 | 19.9             | 20.2 | 20.7 |
| 12H 4H   | 18.7             | 19.1 | 19.1 | 19.5 | 19.9     | 18.4           | 18.9 | 18.8             | 19.2 | 19.6 |
| 6H   | 19.4             | 19.7 | 19.9 | 20.2 | 20.6     | 19.0           | 19.4 | 19.5             | 19.8 | 20.2 |
| 8H   | 19.8             | 20.1 | 20.2 | 20.5 | 21.0     | 19.3           | 19.6 | 19.8             | 20.1 | 20.6 |
| Variations with the observer position at spacings:                             |                  |      |      |      |          |                |      |                  |      |      |
| S = 1.0H   | + 0.5 / - 0.7    |      |      |      |          | + 0.6 / - 0.7  |      |                  |      |      |
| 1.5H   | + 0.7 / - 0.5    |      |      |      |          | + 0.8 / - 0.5  |      |                  |      |      |
| 2.0H   | + 0.9 / - 0.6    |      |      |      |          | + 1.0 / - 0.6  |      |                  |      |      |

CIE Pub.117, 2083 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 2.5$ )  
Area: 0.00708462 m<sup>2</sup>

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:

## UTILIZATION FACTORS TABLE

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2083.11x1 lm |          |                  |
| NAME: Optic/CCT/Wattage/Up & Down Light  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: LEDVANCE LLC   | SUR.:    | Shielding Angle: |

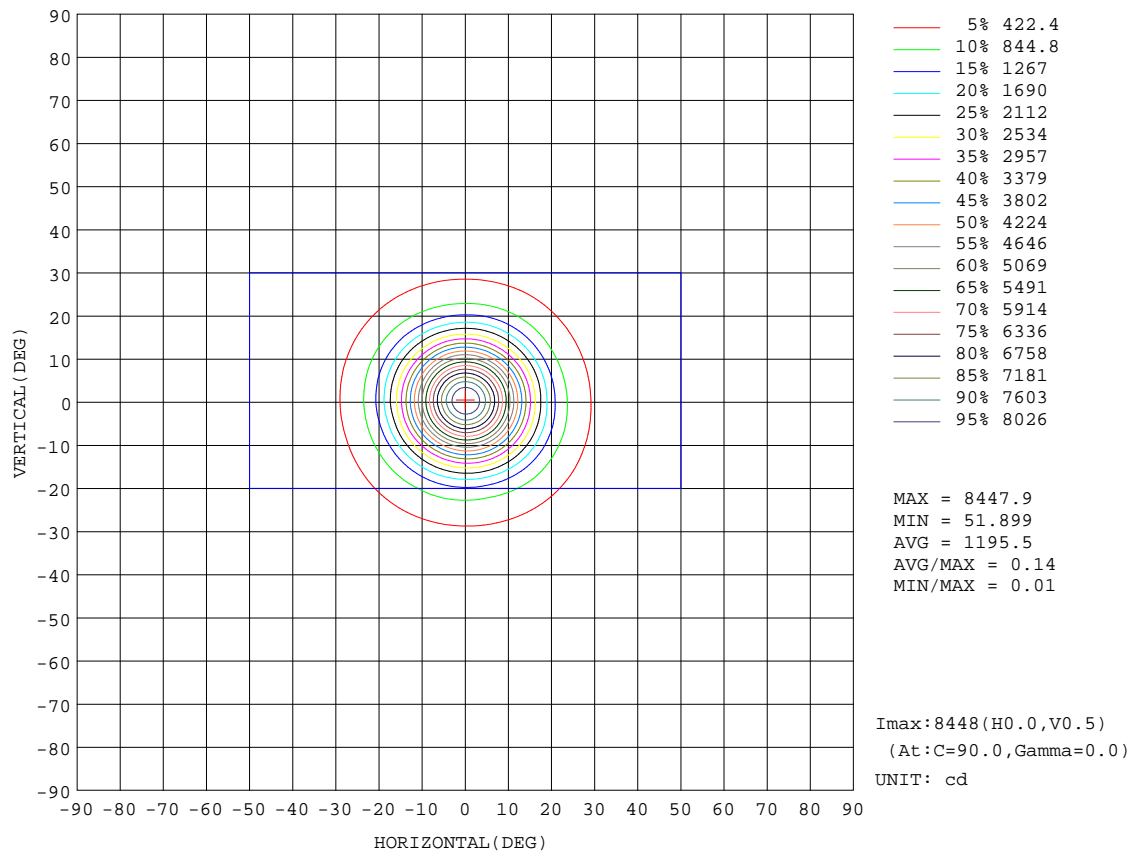
| REFLECTANCE                      |   |     |           |     |     |     |     |               |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 86  | 79  | 75        | 85  | 79  | 75  | 85  | 79            | 75  | 71     |
| 0.80                             | 93  | 87  | 83        | 93  | 87  | 83  | 91  | 86            | 83  | 79     |
| 1.00                             | 98  | 92  | 88        | 97  | 92  | 88  | 95  | 91            | 87  | 83     |
| 1.25                             | 102   | 96  | 93        | 101 | 96  | 92  | 99  | 95            | 92  | 87     |
| 1.50                             | 105   | 100 | 96        | 104 | 99  | 96  | 101 | 97            | 95  | 90     |
| 2.00                             | 108   | 103 | 100       | 106 | 102 | 99  | 103 | 100           | 98  | 92     |
| 2.50                             | 109   | 105 | 102       | 108 | 104 | 101 | 105 | 102           | 99  | 93     |
| 3.00                             | 111   | 108 | 105       | 109 | 106 | 103 | 106 | 103           | 101 | 95     |
| 4.00                             | 113   | 110 | 108       | 111 | 109 | 107 | 108 | 106           | 104 | 97     |
| 5.00                             | 115   | 112 | 110       | 112 | 110 | 109 | 108 | 107           | 105 | 98     |
| ROOM INDEX                       | UF(total)   |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 15 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 41.6%  
 Test Distance: 2.500m [K=1.0461]  
 Remarks:

## ISOCANDELA DIAGRAM

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2083.1lx1 lm |          |                  |
| NAME: Optic/CCT/Wattage/Up & Down Light  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: LEDVANCE LLC   | SUR.:    | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

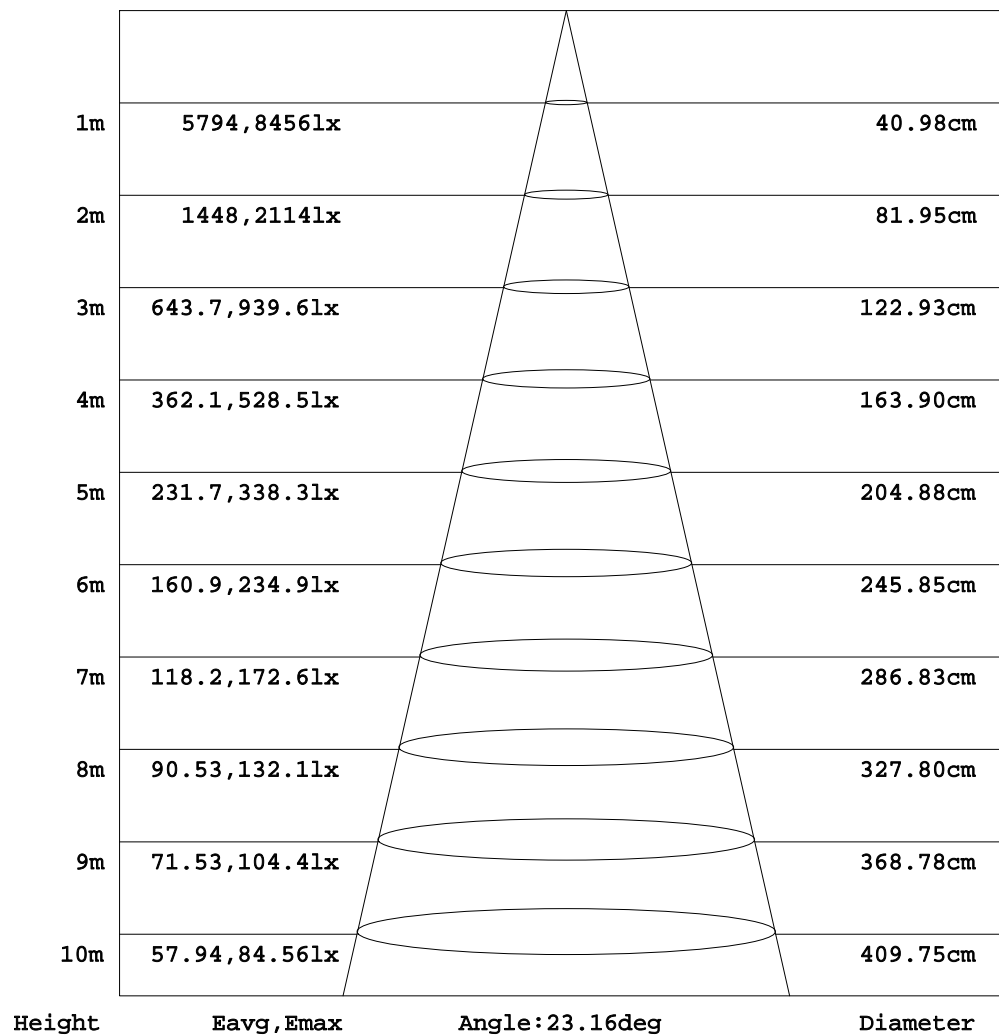
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:



## AAI Figure

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2083.1lx1 lm |          |                  |
| NAME: Optic/CCT/Wattage/Up & Down Light  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: LEDVANCE LLC   | SUR.:    | Shielding Angle: |

Flux out:822.3 lm



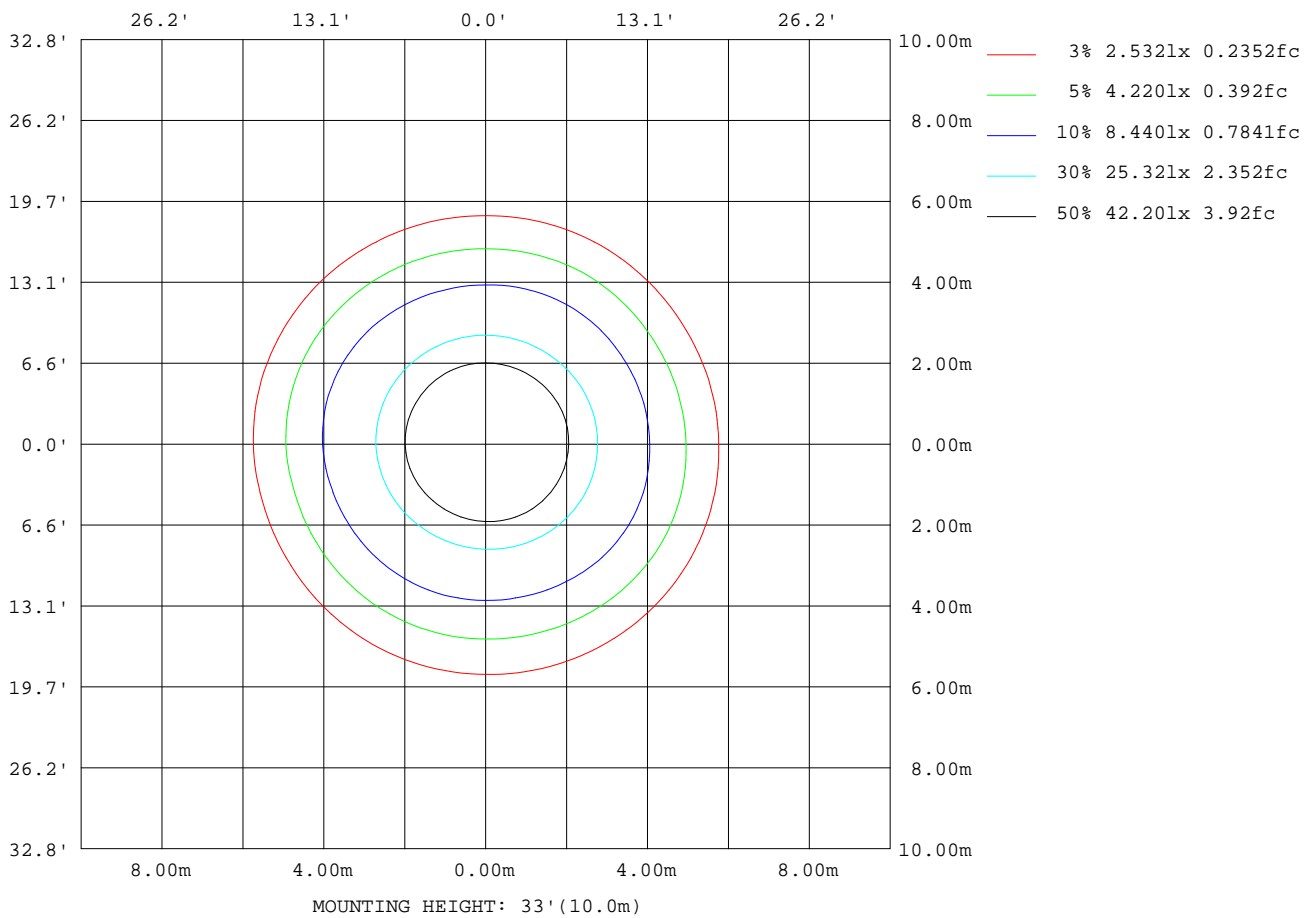
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators:Alan Wang  
 Test Date:15 October 2024

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 41.6%  
 Test Distance:2.500m [K=1.0461]  
 Remarks:

## ISOLUX DIAGRAM

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2083.1lx1 lm |          |                  |
| NAME: Optic/CCT/Wattage/Up & Down Light  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: LEDVANCE LLC   | SUR.:    | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:

## LED Avg.L Report

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2083.11x1 lm |          |                  |
| NAME: Optic/CCT/Wattage/Up & Down Light  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: LEDVANCE LLC   | SUR.:    | Shielding Angle: |

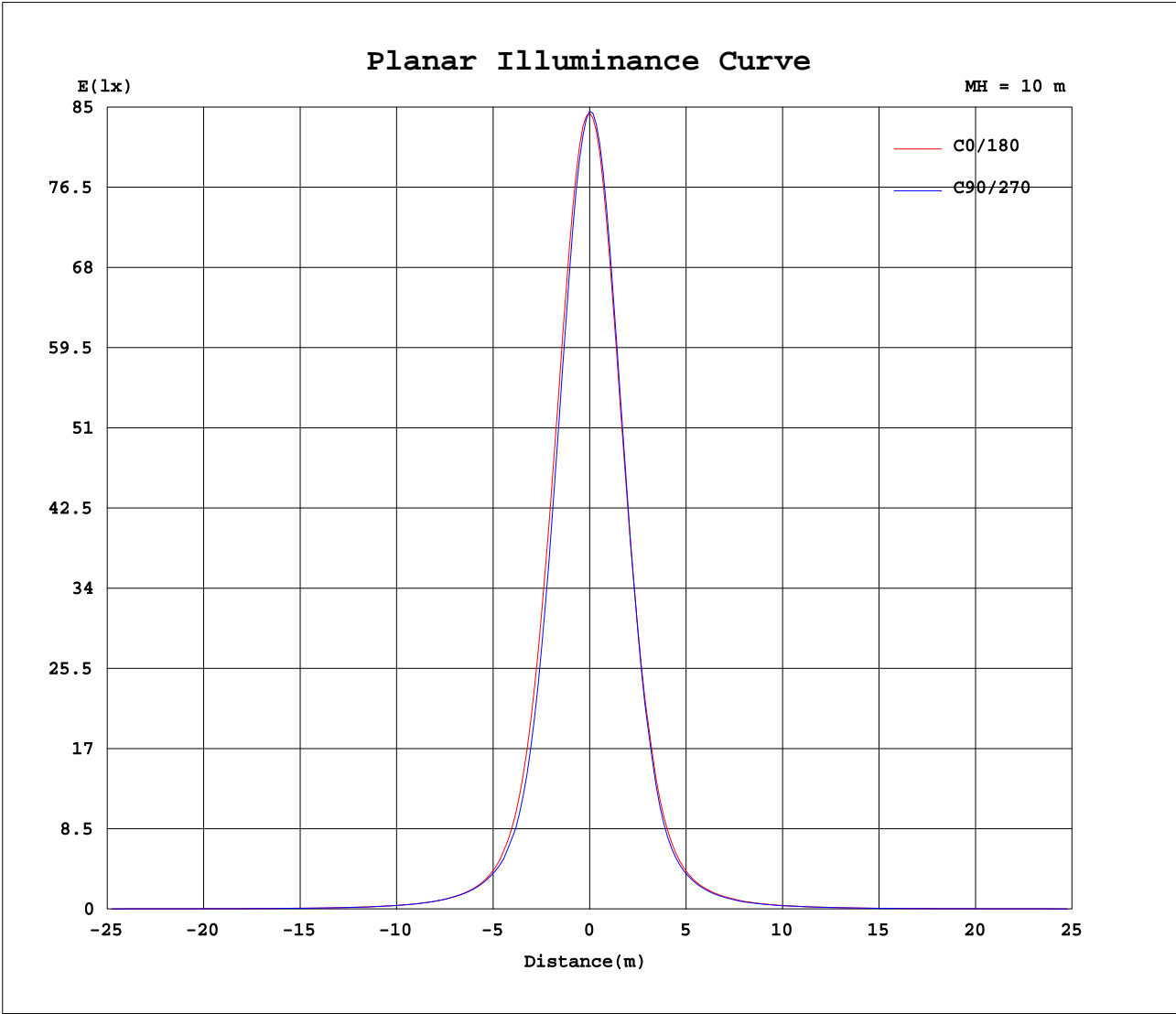
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 10503 |
| L_0~180(75)av  | 9608  |
| L_0~180(85)av  | 10785 |
| L_90~270(65)av | 10141 |
| L_90~270(75)av | 8631  |
| L_90~270(85)av | 8660  |
| L_45(65)av     | 10293 |
| L_45(75)av     | 9184  |
| L_45(85)av     | 9511  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2083.1lx1 lm |          |                  |
| NAME: Optic/CCT/Wattage/Up & Down Light  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: LEDVANCE LLC   | SUR.:    | Shielding Angle: |

Table--1

UNIT: cd

| C(DEG)<br>γ (DEG) | 0    | 15   | 30   | 45   | 60   | 75   | 90   | 105  | 120  | 135  | 150  | 165  | 180  | 195  | 210  | 225  | 240  | 255  | 270  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                 | 8440 | 8442 | 8445 | 8436 | 8454 | 8456 | 8456 | 8452 | 8452 | 8452 | 8452 | 8451 | 8440 | 8442 | 8445 | 8436 | 8454 | 8456 | 8456 |
| 5                 | 7505 | 7466 | 7428 | 7384 | 7337 | 7295 | 7277 | 7265 | 7249 | 7255 | 7288 | 7318 | 7388 | 7425 | 7435 | 7474 | 7500 | 7518 | 7524 |
| 10                | 5244 | 5198 | 5130 | 5075 | 5005 | 4929 | 4868 | 4826 | 4827 | 4868 | 4943 | 5008 | 5070 | 5100 | 5117 | 5140 | 5163 | 5168 | 5162 |
| 15                | 3006 | 2979 | 2938 | 2857 | 2759 | 2677 | 2618 | 2590 | 2605 | 2647 | 2729 | 2804 | 2875 | 2904 | 2908 | 2890 | 2860 | 2842 | 2829 |
| 20                | 1440 | 1463 | 1446 | 1384 | 1306 | 1242 | 1216 | 1221 | 1240 | 1263 | 1291 | 1338 | 1408 | 1447 | 1446 | 1411 | 1358 | 1323 | 1317 |
| 25                | 695  | 712  | 709  | 685  | 656  | 633  | 623  | 625  | 628  | 630  | 635  | 649  | 687  | 704  | 702  | 682  | 661  | 641  | 632  |
| 30                | 386  | 394  | 395  | 391  | 384  | 377  | 372  | 370  | 370  | 368  | 367  | 371  | 381  | 387  | 383  | 378  | 370  | 365  | 361  |
| 35                | 240  | 246  | 245  | 245  | 240  | 239  | 238  | 236  | 234  | 232  | 233  | 234  | 239  | 239  | 236  | 235  | 231  | 228  | 226  |
| 40                | 158  | 161  | 162  | 159  | 158  | 158  | 157  | 154  | 155  | 155  | 154  | 153  | 155  | 155  | 153  | 151  | 150  | 147  | 147  |
| 45                | 109  | 110  | 110  | 109  | 109  | 107  | 107  | 106  | 106  | 105  | 106  | 106  | 108  | 107  | 107  | 105  | 103  | 102  | 101  |
| 50                | 77.0 | 78.0 | 78.2 | 77.0 | 76.4 | 75.8 | 75.6 | 75.8 | 75.7 | 75.2 | 75.6 | 75.3 | 76.6 | 76.7 | 76.2 | 75.0 | 74.0 | 73.1 | 73.3 |
| 55                | 56.7 | 57.2 | 57.5 | 56.5 | 55.8 | 54.9 | 55.0 | 55.1 | 55.4 | 54.8 | 55.1 | 55.0 | 56.2 | 56.3 | 56.3 | 55.3 | 54.7 | 53.8 | 54.3 |
| 60                | 42.2 | 42.3 | 42.6 | 41.7 | 41.4 | 40.7 | 40.6 | 40.6 | 40.9 | 40.8 | 41.1 | 41.1 | 41.8 | 41.7 | 42.1 | 41.3 | 41.0 | 40.6 | 40.2 |
| 65                | 31.6 | 31.7 | 31.4 | 31.1 | 30.7 | 30.1 | 30.2 | 29.9 | 30.3 | 30.4 | 30.8 | 30.8 | 31.3 | 31.2 | 31.7 | 30.9 | 31.0 | 30.6 | 30.6 |
| 70                | 23.6 | 23.7 | 23.5 | 23.1 | 22.8 | 22.4 | 22.3 | 21.9 | 22.2 | 22.6 | 22.5 | 22.9 | 23.4 | 23.5 | 23.7 | 23.1 | 23.2 | 23.0 | 22.8 |
| 75                | 17.7 | 17.8 | 17.4 | 17.1 | 16.6 | 15.7 | 15.4 | 15.5 | 16.1 | 16.1 | 16.2 | 17.0 | 17.6 | 17.5 | 17.7 | 17.3 | 17.0 | 16.6 | 16.2 |
| 80                | 12.5 | 12.6 | 12.2 | 12.2 | 11.6 | 10.7 | 10.1 | 10.5 | 11.0 | 11.3 | 11.7 | 12.4 | 12.7 | 12.6 | 12.6 | 12.4 | 12.0 | 11.5 | 11.1 |
| 85                | 6.62 | 5.87 | 5.16 | 5.80 | 5.98 | 5.22 | 4.87 | 5.32 | 5.69 | 5.45 | 5.47 | 6.40 | 6.70 | 6.00 | 5.65 | 6.21 | 6.58 | 6.32 | 5.82 |
| 90                | 0.03 | 0.03 | 0.02 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 |
| 95                | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 100               | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 105               | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 110               | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 115               | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| 120               | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| 125               | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.12 | 0.12 |
| 130               | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.21 | 0.21 |
| 135               | 0.27 | 0.27 | 0.27 | 0.27 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.27 | 0.27 | 0.43 | 0.43 | 0.43 | 0.42 | 0.41 | 0.40 | 0.40 |
| 140               | 0.47 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.49 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 |
| 145               | 0.82 | 0.82 | 0.83 | 0.83 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 1.62 | 1.60 | 1.59 | 1.58 | 1.56 | 1.55 | 1.54 |
| 150               | 1.15 | 1.15 | 1.15 | 1.16 | 1.17 | 1.18 | 1.18 | 1.18 | 1.18 | 1.17 | 1.17 | 1.17 | 2.40 | 2.38 | 2.37 | 2.36 | 2.35 | 2.35 | 2.34 |
| 155               | 1.48 | 1.48 | 1.48 | 1.49 | 1.49 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.49 | 1.49 | 3.02 | 3.01 | 3.00 | 2.99 | 2.99 | 2.99 | 2.99 |
| 160               | 1.48 | 1.48 | 1.48 | 1.49 | 1.49 | 1.50 | 1.51 | 1.51 | 1.51 | 1.51 | 1.50 | 1.50 | 3.37 | 3.36 | 3.35 | 3.35 | 3.35 | 3.36 | 3.36 |
| 165               | 1.45 | 1.45 | 1.45 | 1.46 | 1.47 | 1.47 | 1.48 | 1.48 | 1.48 | 1.48 | 1.47 | 1.47 | 3.30 | 3.30 | 3.29 | 3.28 | 3.29 | 3.29 | 3.30 |
| 170               | 1.38 | 1.39 | 1.39 | 1.40 | 1.42 | 1.43 | 1.43 | 1.44 | 1.44 | 1.43 | 1.42 | 1.41 | 2.79 | 2.80 | 2.79 | 2.78 | 2.78 | 2.79 | 2.78 |
| 175               | 1.34 | 1.35 | 1.36 | 1.37 | 1.38 | 1.39 | 1.39 | 1.39 | 1.39 | 1.38 | 1.37 | 1.36 | 2.17 | 2.18 | 2.16 | 2.15 | 2.15 | 2.15 | 2.15 |
| 180               | 1.64 | 1.64 | 1.64 | 1.63 | 1.62 | 1.62 | 1.63 | 1.62 | 1.63 | 1.65 | 1.66 | 1.66 | 1.65 | 1.65 | 1.64 | 1.64 | 1.63 | 1.62 | 1.62 |

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.0DEG

Operators: Alan Wang

Test Date: 15 October 2024

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416

Humidity: 41.6%

Test Distance: 2.500m [K=1.0461]

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2083.11x1 lm |          |                  |
| NAME: Optic/CCT/Wattage/Up & Down Light  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: LEDVANCE LLC   | SUR.:    | Shielding Angle: |

Table--2

UNIT: cd

| C(DEG)<br>γ (DEG) | 285  | 300  | 315  | 330  | 345  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 8452 | 8452 | 8452 | 8452 | 8451 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 7527 | 7532 | 7530 | 7527 | 7518 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 5165 | 5191 | 5224 | 5257 | 5276 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 2841 | 2862 | 2911 | 2977 | 3010 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 1345 | 1374 | 1395 | 1413 | 1439 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 643  | 657  | 657  | 660  | 678  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 364  | 367  | 369  | 372  | 381  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 226  | 229  | 231  | 233  | 237  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 146  | 148  | 149  | 154  | 154  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 102  | 103  | 103  | 105  | 107  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 73.8 | 74.4 | 74.7 | 75.6 | 76.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 54.5 | 55.1 | 54.9 | 55.5 | 55.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 40.7 | 41.4 | 41.1 | 41.6 | 41.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 30.7 | 31.1 | 30.9 | 31.2 | 31.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 23.1 | 23.2 | 23.2 | 23.3 | 23.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 16.8 | 16.9 | 16.8 | 17.1 | 17.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 11.6 | 12.0 | 11.8 | 12.2 | 12.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 6.55 | 6.71 | 6.03 | 6.28 | 6.84 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 0.21 | 0.21 | 0.21 | 0.21 | 0.22 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 0.40 | 0.40 | 0.40 | 0.41 | 0.41 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 0.80 | 0.80 | 0.81 | 0.82 | 0.83 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 1.53 | 1.54 | 1.54 | 1.55 | 1.57 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 2.34 | 2.34 | 2.34 | 2.35 | 2.35 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 2.99 | 2.99 | 2.99 | 2.99 | 2.99 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 3.38 | 3.39 | 3.39 | 3.39 | 3.38 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 3.31 | 3.33 | 3.34 | 3.35 | 3.35 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 2.80 | 2.82 | 2.84 | 2.86 | 2.88 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 2.16 | 2.18 | 2.20 | 2.22 | 2.24 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 1.62 | 1.62 | 1.64 | 1.66 | 1.67 |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.0DEG

Operators: Alan Wang

Test Date: 15 October 2024

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416

Humidity: 41.6%

Test Distance: 2.500m [K=1.0461]

Remarks: