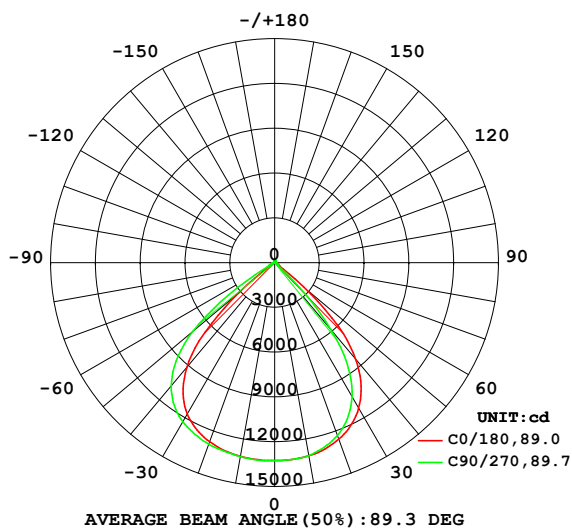


## LUMINAIRE PHOTOMETRIC TEST REPORT

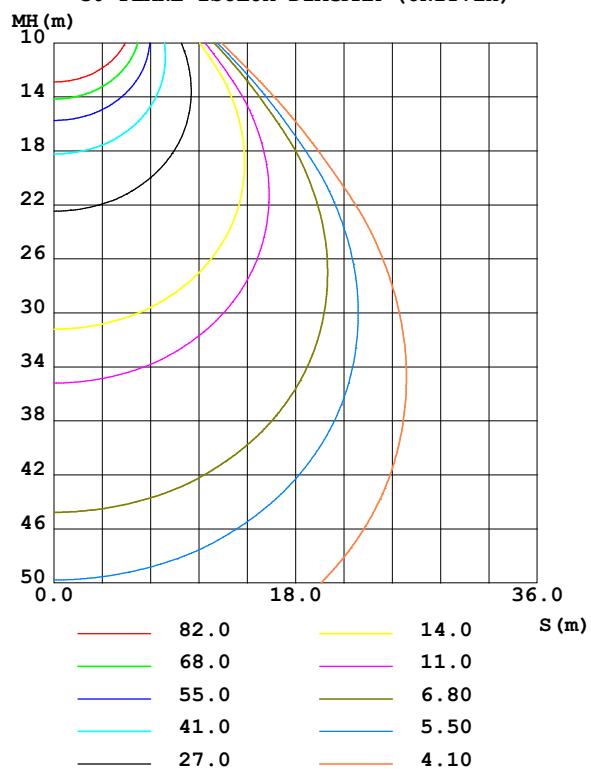
|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:229.94V I:0.7886A P:178.25W PF:0.9830 Freq:50.00Hz<br>Lamp Flux:23518.7x1 lm |       |                  |
| NAME:                                                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                      | SUR.: | Shielding Angle: |

| DATA OF LAMP     |         | PHOTOMETRIC DATA Eff: 131.95 lm/W |        |                   |          |
|------------------|---------|-----------------------------------|--------|-------------------|----------|
| MODEL            | 415-200 | I <sub>max</sub> (cd)             | 13276  | S/MH(C0/180)      | 1.29     |
| NOMINAL POWER(W) | 180     | LOR(%)                            | 100.0  | S/MH(C90/270)     | 1.37     |
| RATED VOLTAGE(V) | 230     | TOTAL FLUX(lm)                    | 23519  | η UP,DN(C0-180)   | 0.6,41.2 |
| NOMINAL FLUX(lm) | 23518.7 | CIE CLASS                         | DIRECT | η UP,DN(C180-360) | 0.5,57.7 |
| LAMPS INSIDE     | 1       | η up(%)                           | 1.1    | CIBSE SHR NOM     | 1.25     |
| TEST VOLTAGE(V)  | 230     | η down(%)                         | 98.9   | CIBSE SHR MAX     | 1.30     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
Humidity:65.0%  
Test Distance:9.401m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                       | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|--------------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 1314                     | 1308   | 1313   | 1314   | 1318   | 1320   | 1319   | 1317   | 0- 10    | 1261        | 1261         | 5.36,5.36  |
| 20       | 1259                     | 1227   | 1232   | 1252   | 1276   | 1295   | 1294   | 1285   | 10- 20   | 3661        | 4923         | 20.9,20.9  |
| 30       | 1127                     | 1034   | 1037   | 1090   | 1171   | 1228   | 1231   | 1204   | 20- 30   | 5589        | 10511        | 44.7,44.7  |
| 40       | 845.9                    | 630.5  | 583.7  | 711.2  | 915.3  | 1067   | 1078   | 1018   | 30- 40   | 6364        | 16875        | 71.8,71.8  |
| 50       | 252.8                    | 43.45  | 38.74  | 61.42  | 315.5  | 673.3  | 715.6  | 603.7  | 40- 50   | 4622        | 21498        | 91.4,91.4  |
| 60       | 30.97                    | 21.23  | 20.65  | 23.30  | 37.05  | 56.85  | 60.38  | 47.46  | 50- 60   | 1370        | 22868        | 97.2,97.2  |
| 70       | 16.00                    | 9.055  | 8.834  | 9.700  | 17.86  | 27.67  | 27.47  | 23.89  | 60- 70   | 256.2       | 23124        | 98.3,98.3  |
| 80       | 4.154                    | 0.7708 | 0.3488 | 0.9684 | 4.290  | 11.08  | 13.60  | 9.061  | 70- 80   | 114.3       | 23238        | 98.8,98.8  |
| 90       | 0.1886                   | 0.3887 | 0.4036 | 0.3056 | 0.2547 | 0.8411 | 1.172  | 0.6354 | 80- 90   | 24.99       | 23263        | 98.9,98.9  |
| 100      | 0.7426                   | 1.261  | 1.316  | 1.091  | 0.9515 | 0.4987 | 0.4061 | 0.5199 | 90-100   | 5.844       | 23269        | 98.9,98.9  |
| 110      | 1.862                    | 2.619  | 2.721  | 2.404  | 2.222  | 1.514  | 1.367  | 1.581  | 100-110  | 14.72       | 23284        | 99,99      |
| 120      | 3.401                    | 4.235  | 4.340  | 4.044  | 3.841  | 2.987  | 2.835  | 3.120  | 110-120  | 27.67       | 23311        | 99.1,99.1  |
| 130      | 4.975                    | 5.646  | 5.737  | 5.476  | 5.482  | 4.707  | 4.593  | 4.892  | 120-130  | 39.39       | 23351        | 99.3,99.3  |
| 140      | 6.314                    | 6.857  | 7.045  | 6.711  | 6.854  | 6.241  | 6.191  | 6.440  | 130-140  | 45.57       | 23396        | 99.5,99.5  |
| 150      | 7.391                    | 7.875  | 8.104  | 7.849  | 7.922  | 7.479  | 7.571  | 7.748  | 140-150  | 44.99       | 23441        | 99.7,99.7  |
| 160      | 8.708                    | 9.540  | 9.687  | 9.337  | 9.208  | 8.566  | 8.673  | 8.896  | 150-160  | 38.48       | 23480        | 99.8,99.8  |
| 170      | 10.74                    | 11.39  | 11.38  | 11.08  | 11.07  | 10.48  | 10.44  | 10.59  | 160-170  | 28.06       | 23508        | 100,100    |
| 180      | 11.83                    | 11.92  | 11.80  | 11.78  | 11.94  | 11.99  | 11.85  | 11.82  | 170-180  | 10.82       | 23519        | 100,100    |
| DEG      | LUMINOUS INTENSITY:X10cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 19614 lm

%lum = 83.4%

%lamp = 83.4%

Conical surface Flux(130deg): 23017 lm

%lum = 97.9%

%lamp = 97.9%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2025-11-25

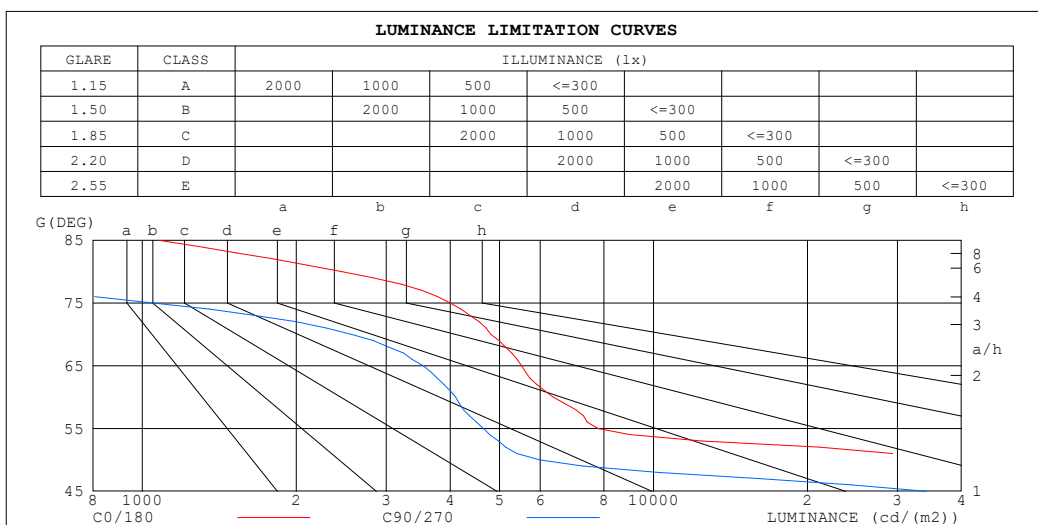
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:229.94V I:0.7886A P:178.25W PF:0.9830 Freq:50.00Hz

Lamp Flux:23518.7x1 lm

|                |       |                  |
|----------------|-------|------------------|
| NAME:          | TYPE: | WEIGHT:          |
| SPEC.:         | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE | SUR.: | Shielding Angle: |



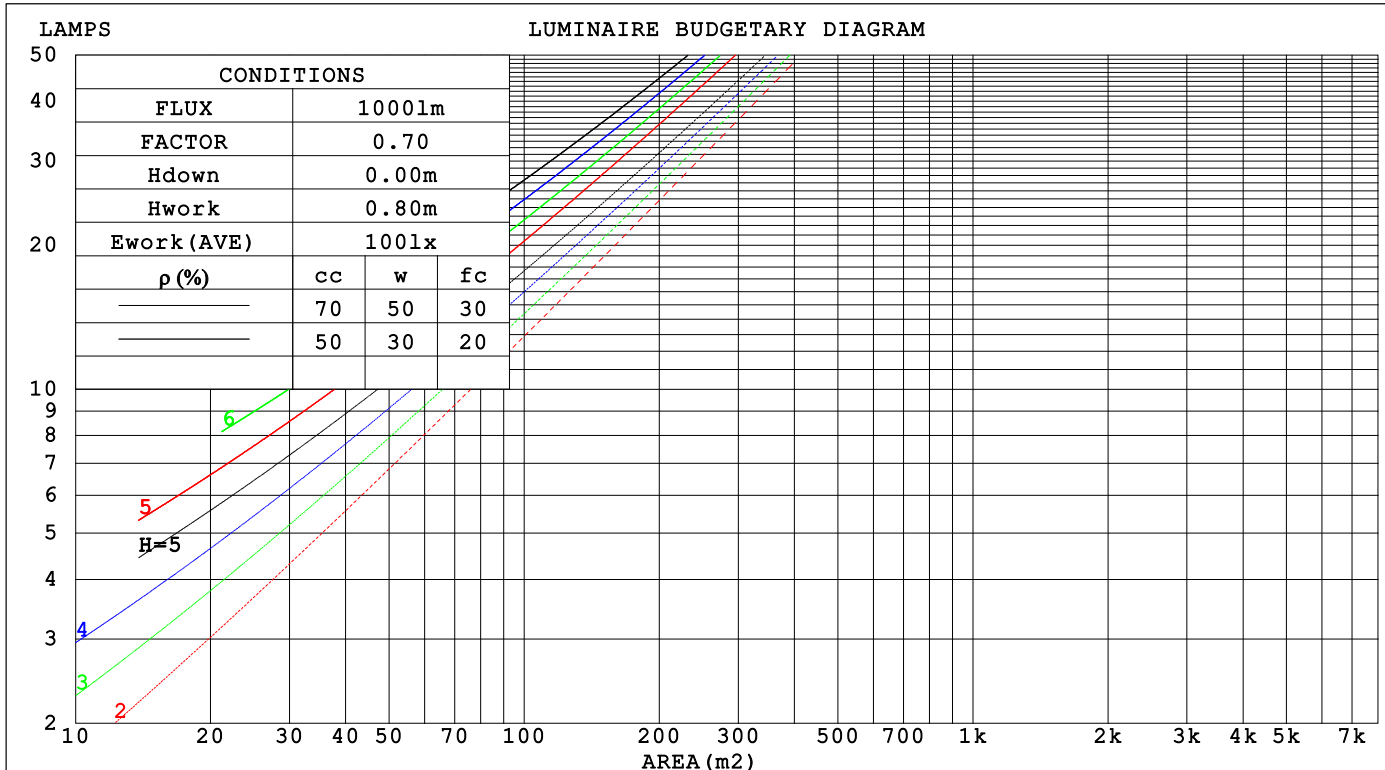
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:DAMIN  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
Humidity:65.0%  
Test Distance:9.401m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:229.94V I:0.7886A P:178.25W PF:0.9830 Freq:50.00Hz<br>Lamp Flux:23518.7x1 lm |       |                  |
| NAME:                                                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                      | 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 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:DAMIN  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
Humidity:65.0%  
Test Distance:9.401m [K=1.0000]  
Remarks:

### WEC AND CCEC

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:229.94V I:0.7886A P:178.25W PF:0.9830 Freq:50.00Hz<br>Lamp Flux:23518.7x1 lm |       |                  |
| NAME:                                                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                      | 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  | .212                  | .121 | .038 | .205 | .117 | .037 | .192                            | .110 | .035 | .179 | .104 | .033 | .168 | .097 | .031 |   |  |
| 2.0  | .207                  | .114 | .035 | .201 | .111 | .034 | .190                            | .105 | .033 | .179 | .100 | .031 | .169 | .096 | .030 |   |  |
| 3.0  | .199                  | .106 | .032 | .194 | .104 | .031 | .184                            | .099 | .030 | .174 | .095 | .029 | .166 | .092 | .028 |   |  |
| 4.0  | .190                  | .099 | .029 | .185 | .097 | .029 | .176                            | .094 | .028 | .168 | .090 | .027 | .161 | .087 | .027 |   |  |
| 5.0  | .181                  | .092 | .027 | .177 | .091 | .026 | .169                            | .088 | .026 | .162 | .085 | .025 | .155 | .083 | .025 |   |  |
| 6.0  | .172                  | .086 | .025 | .168 | .085 | .024 | .161                            | .083 | .024 | .155 | .080 | .024 | .149 | .078 | .023 |   |  |
| 7.0  | .164                  | .081 | .023 | .160 | .080 | .023 | .154                            | .078 | .022 | .148 | .076 | .022 | .143 | .074 | .022 |   |  |
| 8.0  | .156                  | .076 | .021 | .153 | .075 | .021 | .147                            | .074 | .021 | .142 | .072 | .021 | .137 | .070 | .020 |   |  |
| 9.0  | .149                  | .072 | .020 | .146 | .071 | .020 | .141                            | .070 | .020 | .136 | .068 | .020 | .131 | .067 | .019 |   |  |
| 10.0 | .142                  | .068 | .019 | .139 | .067 | .019 | .135                            | .066 | .019 | .130 | .065 | .018 | .126 | .063 | .018 |   |  |

| 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  | .199                  | .199 | .199 | .170 | .170 | .170 | .116                                        | .116 | .116 | .067 | .067 | .067 | .021 | .021 | .021 |   |  |
| 1.0  | .182                  | .165 | .150 | .156 | .142 | .129 | .106                                        | .098 | .090 | .061 | .056 | .052 | .020 | .018 | .017 |   |  |
| 2.0  | .169                  | .141 | .117 | .145 | .121 | .101 | .099                                        | .084 | .070 | .057 | .049 | .041 | .018 | .016 | .013 |   |  |
| 3.0  | .159                  | .122 | .093 | .137 | .105 | .080 | .094                                        | .073 | .056 | .054 | .043 | .033 | .017 | .014 | .011 |   |  |
| 4.0  | .151                  | .108 | .076 | .129 | .093 | .066 | .089                                        | .065 | .046 | .051 | .038 | .027 | .017 | .012 | .009 |   |  |
| 5.0  | .143                  | .097 | .063 | .123 | .084 | .055 | .085                                        | .059 | .039 | .049 | .034 | .023 | .016 | .011 | .008 |   |  |
| 6.0  | .137                  | .088 | .054 | .117 | .077 | .047 | .081                                        | .054 | .033 | .047 | .032 | .020 | .015 | .010 | .006 |   |  |
| 7.0  | .131                  | .081 | .047 | .112 | .070 | .041 | .078                                        | .049 | .029 | .045 | .029 | .017 | .015 | .010 | .006 |   |  |
| 8.0  | .125                  | .075 | .041 | .108 | .065 | .036 | .075                                        | .046 | .025 | .043 | .027 | .015 | .014 | .009 | .005 |   |  |
| 9.0  | .120                  | .070 | .037 | .104 | .061 | .032 | .072                                        | .043 | .023 | .042 | .025 | .014 | .014 | .008 | .005 |   |  |
| 10.0 | .115                  | .066 | .033 | .100 | .057 | .029 | .069                                        | .040 | .021 | .040 | .024 | .012 | .013 | .008 | .004 |   |  |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
Humidity:65.0%  
Test Distance:9.401m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

|                                                                                     |                  |      |       |      |      |                  |      |     |      |      |
|-------------------------------------------------------------------------------------|------------------|------|-------|------|------|------------------|------|-----|------|------|
| Test:U:229.94V I:0.7886A P:178.25W PF:0.9830 Freq:50.00Hz<br>Lamp Flux:23518.7x1 lm |                  |      |       |      |      |                  |      |     |      |      |
| NAME:                                                                               |                  |      | TYPE: |      |      | WEIGHT:          |      |     |      |      |
| SPEC.:                                                                              |                  |      | DIM.: |      |      | SERIAL No.:      |      |     |      |      |
| MFR.: EVERFINE                                                                      |                  |      | 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                                                                       | 11.7             | 12.9 | 12.0  | 13.1 | 13.3 | 9.6              | 10.8 | 9.9 | 11.0 | 11.2 |
| 3H                                                                                  | 11.6             | 12.6 | 11.9  | 12.9 | 13.1 | 9.4              | 10.5 | 9.7 | 10.8 | 11.0 |
| 4H                                                                                  | 11.5             | 12.5 | 11.8  | 12.8 | 13.0 | 9.4              | 10.4 | 9.7 | 10.6 | 10.9 |
| 6H                                                                                  | 11.4             | 12.4 | 11.7  | 12.6 | 12.9 | 9.3              | 10.2 | 9.6 | 10.5 | 10.8 |
| 8H                                                                                  | 11.4             | 12.3 | 11.7  | 12.6 | 12.8 | 9.2              | 10.1 | 9.6 | 10.4 | 10.7 |
| 12H                                                                                 | 11.3             | 12.2 | 11.7  | 12.5 | 12.8 | 9.2              | 10.0 | 9.5 | 10.3 | 10.6 |
| 4H 2H                                                                               | 11.4             | 12.5 | 11.8  | 12.7 | 13.0 | 9.3              | 10.4 | 9.7 | 10.6 | 10.9 |
| 3H                                                                                  | 11.3             | 12.2 | 11.7  | 12.5 | 12.8 | 9.2              | 10.1 | 9.5 | 10.4 | 10.7 |
| 4H                                                                                  | 11.2             | 12.0 | 11.6  | 12.3 | 12.7 | 9.1              | 9.9  | 9.5 | 10.2 | 10.5 |
| 6H                                                                                  | 11.2             | 11.8 | 11.6  | 12.2 | 12.6 | 9.0              | 9.7  | 9.4 | 10.1 | 10.4 |
| 8H                                                                                  | 11.1             | 11.7 | 11.5  | 12.1 | 12.5 | 9.0              | 9.6  | 9.4 | 10.0 | 10.4 |
| 12H                                                                                 | 11.1             | 11.6 | 11.5  | 12.0 | 12.4 | 8.9              | 9.5  | 9.3 | 9.9  | 10.3 |
| 8H 4H                                                                               | 11.1             | 11.7 | 11.5  | 12.1 | 12.5 | 9.0              | 9.6  | 9.4 | 10.0 | 10.4 |
| 6H                                                                                  | 11.0             | 11.5 | 11.5  | 11.9 | 12.4 | 8.9              | 9.4  | 9.3 | 9.8  | 10.2 |
| 8H                                                                                  | 11.0             | 11.4 | 11.4  | 11.9 | 12.3 | 8.8              | 9.3  | 9.3 | 9.7  | 10.2 |
| 12H                                                                                 | 10.9             | 11.3 | 11.4  | 11.8 | 12.3 | 8.8              | 9.2  | 9.3 | 9.6  | 10.1 |
| 12H 4H                                                                              | 11.0             | 11.6 | 11.5  | 12.0 | 12.4 | 8.9              | 9.5  | 9.4 | 9.9  | 10.3 |
| 6H                                                                                  | 11.0             | 11.4 | 11.4  | 11.9 | 12.3 | 8.8              | 9.3  | 9.3 | 9.7  | 10.2 |
| 8H                                                                                  | 10.9             | 11.3 | 11.4  | 11.8 | 12.3 | 8.8              | 9.2  | 9.3 | 9.6  | 10.1 |
| Variations with the observer position at spacings(CIE Pub.117):                     |                  |      |       |      |      |                  |      |     |      |      |
| S = 1.0H                                                                            | + 2.7 / -10.0    |      |       |      |      | + 2.5 / -11.7    |      |     |      |      |
| 1.5H                                                                                | + 3.9 / -11.2    |      |       |      |      | + 4.9 / -10.7    |      |     |      |      |
| 2.0H                                                                                | + 8.4 / - 8.9    |      |       |      |      | + 8.2 / - 4.9    |      |     |      |      |

CIE Pub.117, 23519 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.0)  
Area: 0.1 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
Humidity:65.0%  
Test Distance:9.401m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:229.94V I:0.7886A P:178.25W PF:0.9830 Freq:50.00Hz<br>Lamp Flux:23518.7x1 lm |       |                  |
| NAME:                                                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                      | SUR.: | Shielding Angle: |

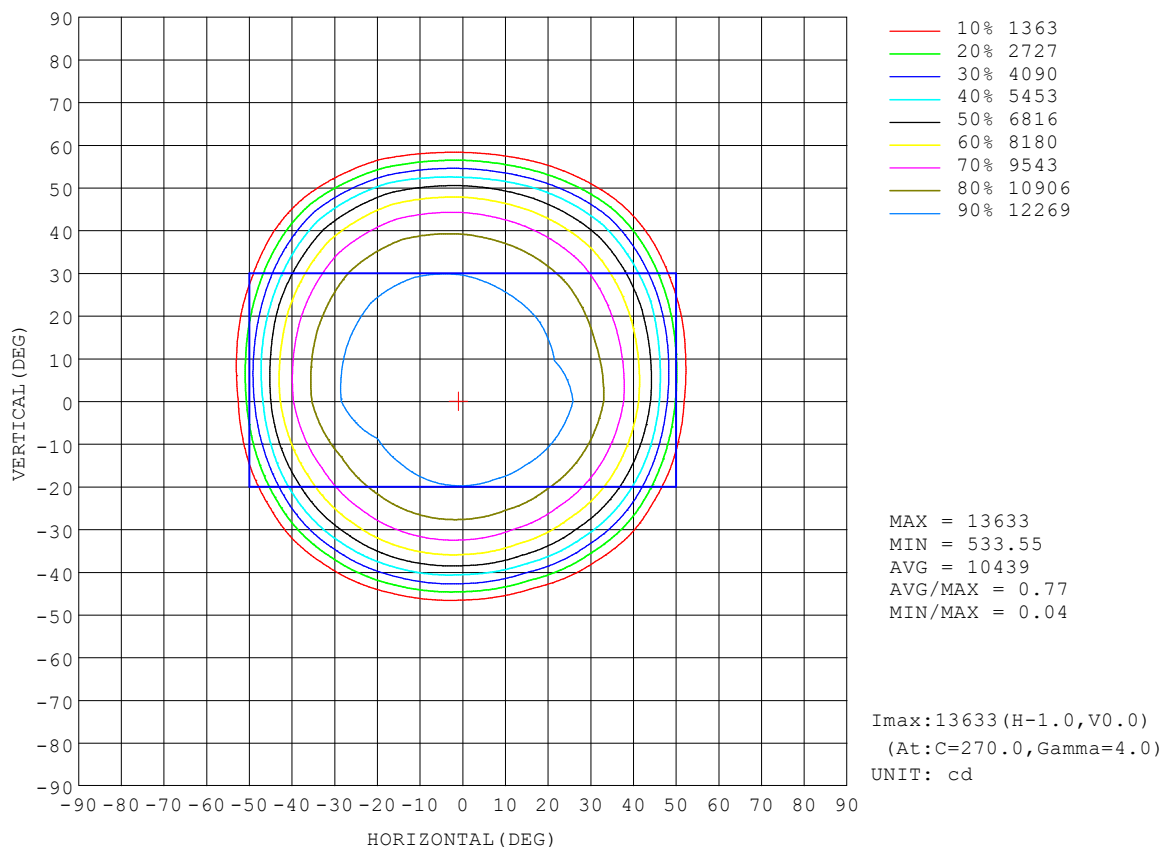
| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 73                                                   | 65  | 59        | 73  | 64  | 59  | 72  | 64            | 59  | 54     |
| 0.80                             | 83                                                   | 75  | 70        | 82  | 74  | 69  | 81  | 74            | 69  | 64     |
| 1.00                             | 90                                                   | 83  | 78        | 89  | 82  | 77  | 87  | 82            | 77  | 72     |
| 1.25                             | 96                                                   | 89  | 84        | 95  | 88  | 84  | 92  | 87            | 83  | 78     |
| 1.50                             | 100                                                  | 93  | 89        | 98  | 93  | 88  | 96  | 91            | 87  | 81     |
| 2.00                             | 104                                                  | 99  | 95        | 103 | 98  | 94  | 100 | 95            | 92  | 86     |
| 2.50                             | 107                                                  | 102 | 98        | 105 | 100 | 97  | 101 | 98            | 95  | 88     |
| 3.00                             | 109                                                  | 104 | 101       | 107 | 103 | 100 | 103 | 100           | 97  | 90     |
| 4.00                             | 111                                                  | 107 | 104       | 109 | 106 | 103 | 105 | 102           | 100 | 92     |
| 5.00                             | 113                                                  | 109 | 107       | 110 | 107 | 105 | 106 | 104           | 102 | 93     |
| ROOM INDEX                       | UF (total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                      |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: DAMIN  
Test Date: 2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
Humidity: 65.0%  
Test Distance: 9.401m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:229.94V I:0.7886A P:178.25W PF:0.9830 Freq:50.00Hz<br>Lamp Flux:23518.7x1 lm |       |                  |
| NAME:                                                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                      | SUR.: | Shielding Angle: |



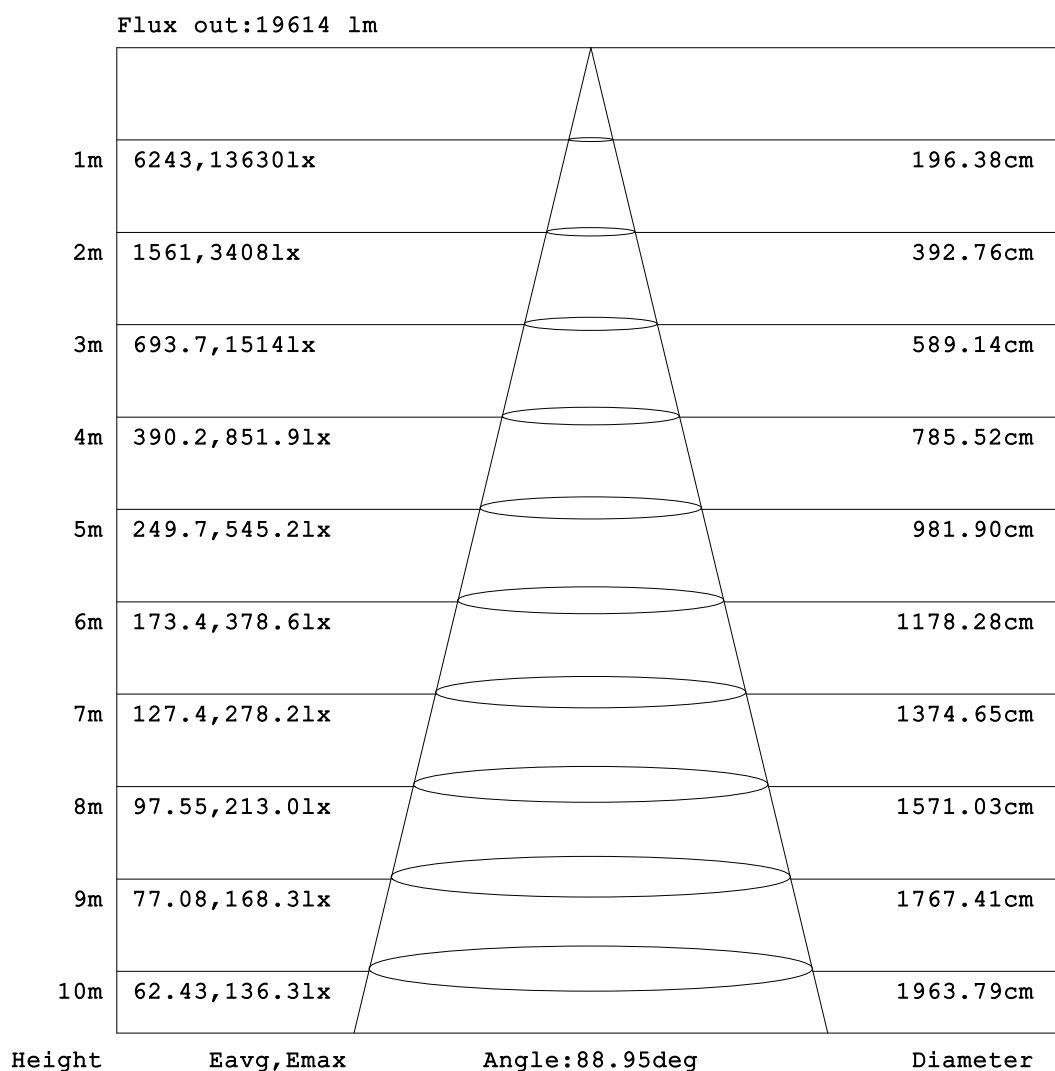
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:DAMIN  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
Humidity:65.0%  
Test Distance:9.401m [K=1.0000]  
Remarks:



**AAI Figure**

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:229.94V I:0.7886A P:178.25W PF:0.9830 Freq:50.00Hz<br>Lamp Flux:23518.7x1 lm |       |                  |
| NAME:                                                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                      | SUR.: | Shielding Angle: |



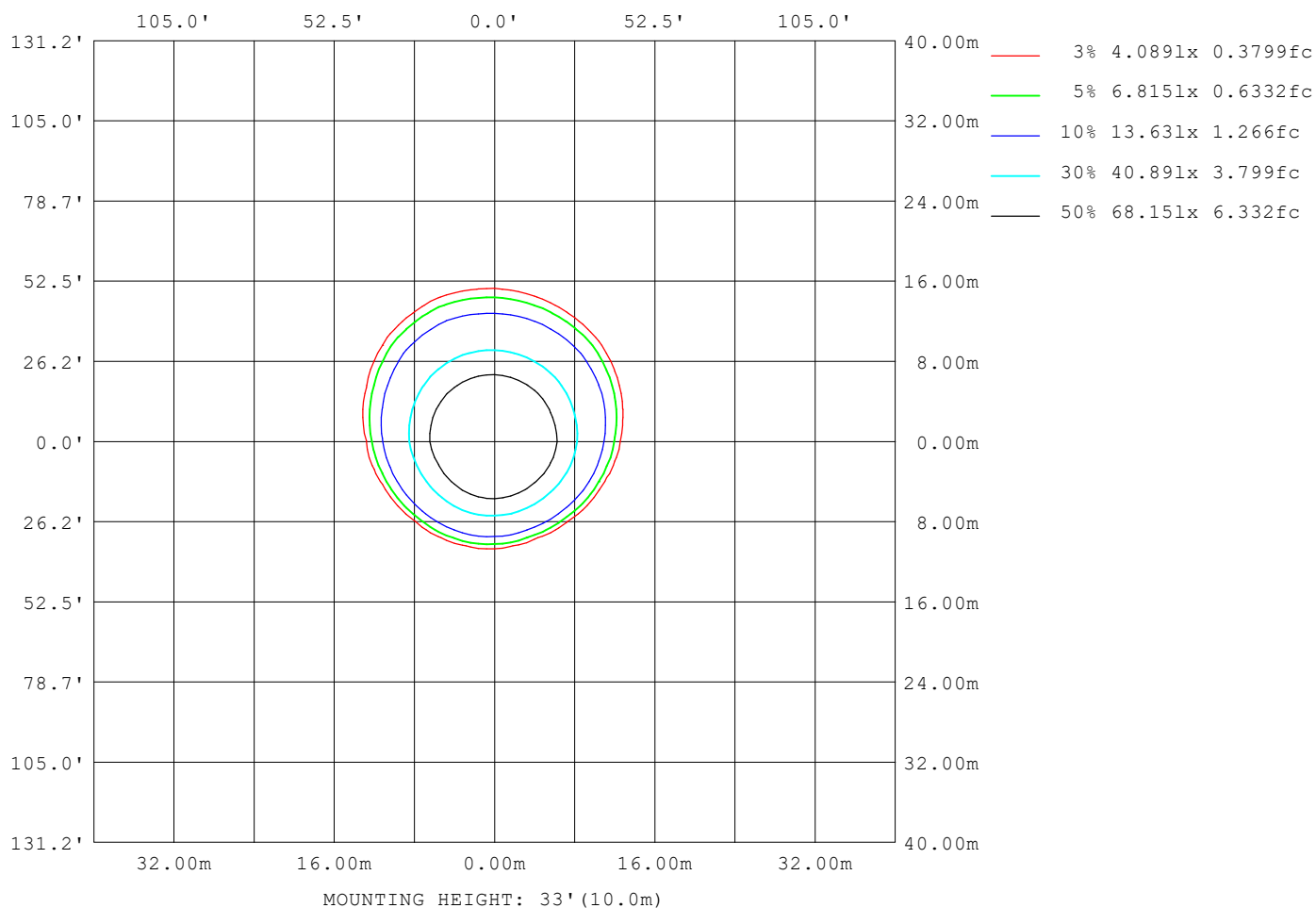
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:DAMIN  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
Humidity:65.0%  
Test Distance:9.401m [K=1.0000]  
Remarks:

### ISOLUX DIAGRAM

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:229.94V I:0.7886A P:178.25W PF:0.9830 Freq:50.00Hz<br>Lamp Flux:23518.7x1 lm |       |                  |
| NAME:                                                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                      | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:DAMIN  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
Humidity:65.0%  
Test Distance:9.401m [K=1.0000]  
Remarks:

### LED Avg.L Report

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:229.94V I:0.7886A P:178.25W PF:0.9830 Freq:50.00Hz<br>Lamp Flux:23518.7x1 lm |       |                  |
| NAME:                                                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                      | SUR.: | Shielding Angle: |

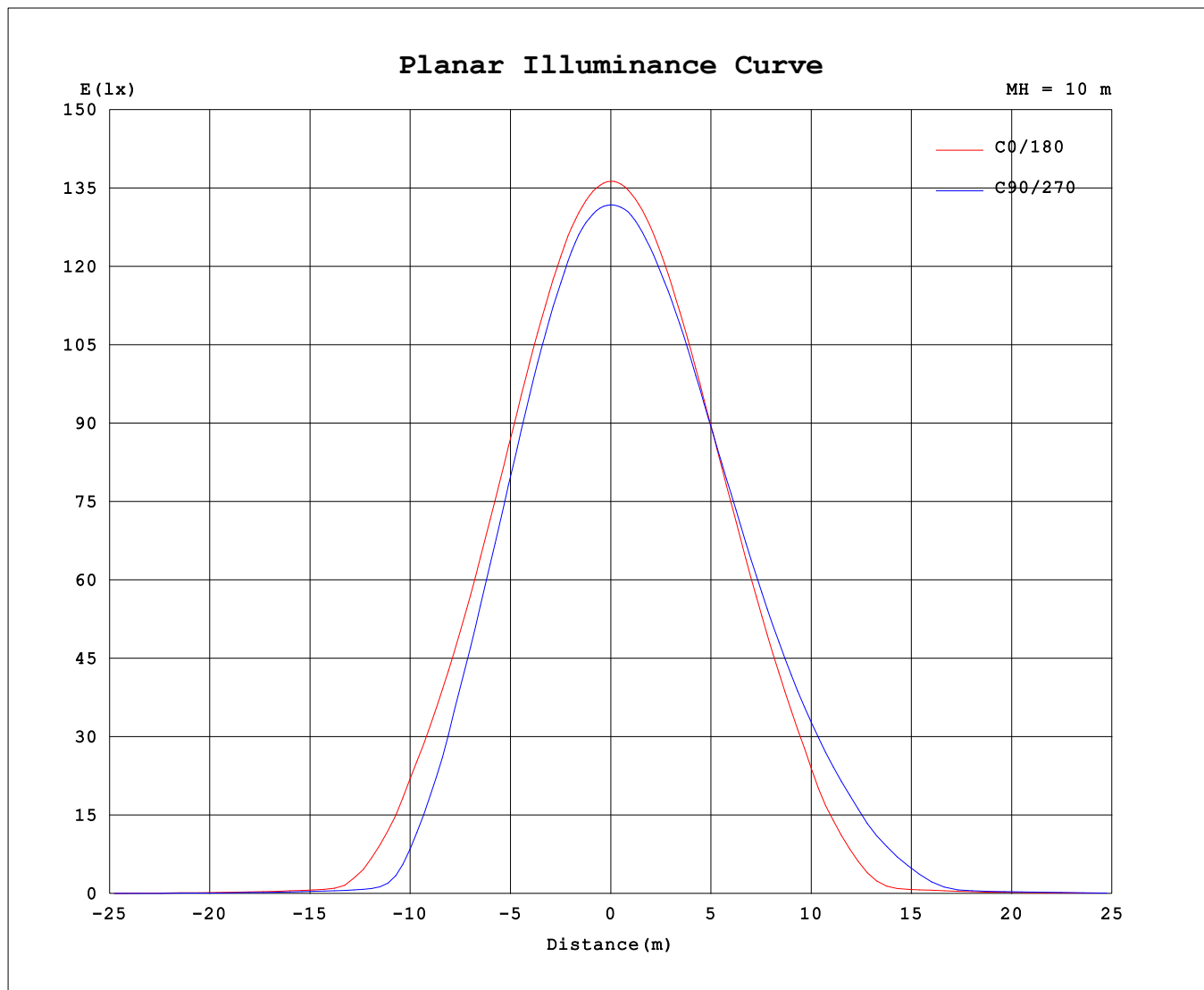
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 5678  |
| L_0~180 (75) av  | 4088  |
| L_0~180 (85) av  | 1058  |
| L_90~270 (65) av | 6437  |
| L_90~270 (75) av | 4498  |
| L_90~270 (85) av | 3238  |
| L_45 (65) av     | 6257  |
| L_45 (75) av     | 4234  |
| L_45 (85) av     | 2516  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
Humidity:65.0%  
Test Distance:9.401m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: DAMIN  
Test Date: 2025-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
Humidity: 65.0%  
Test Distance: 9.401m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:229.94V I:0.7886A P:178.25W PF:0.9830 Freq:50.00Hz<br>Lamp Flux:23518.7x1 lm |       |                  |
| NAME:                                                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                      | SUR.: | Shielding Angle: |

Table--1

UNIT: X10cd

| C (DEG)<br>γ (DEG) | 0    | 22.5 | 45   | 67.5 | 90   | 112.5 | 135  | 157.5 | 180  | 202.5 | 225  | 247.5 | 270  | 292.5 | 315  | 337.5 |  |  |  |
|--------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0                  | 1326 | 1326 | 1326 | 1326 | 1326 | 1326  | 1326 | 1326  | 1326 | 1326  | 1326 | 1326  | 1326 | 1326  | 1326 | 1326  |  |  |  |
| 5                  | 1323 | 1323 | 1322 | 1323 | 1324 | 1325  | 1324 | 1324  | 1325 | 1325  | 1326 | 1326  | 1328 | 1327  | 1325 | 1324  |  |  |  |
| 10                 | 1314 | 1312 | 1308 | 1309 | 1313 | 1315  | 1314 | 1316  | 1318 | 1318  | 1320 | 1320  | 1319 | 1318  | 1317 | 1316  |  |  |  |
| 15                 | 1293 | 1286 | 1276 | 1275 | 1281 | 1286  | 1291 | 1298  | 1303 | 1309  | 1310 | 1309  | 1308 | 1305  | 1304 | 1303  |  |  |  |
| 20                 | 1259 | 1244 | 1227 | 1223 | 1232 | 1242  | 1252 | 1267  | 1276 | 1287  | 1295 | 1294  | 1294 | 1288  | 1285 | 1277  |  |  |  |
| 25                 | 1206 | 1178 | 1149 | 1141 | 1154 | 1171  | 1188 | 1215  | 1235 | 1254  | 1269 | 1271  | 1268 | 1259  | 1253 | 1238  |  |  |  |
| 30                 | 1127 | 1081 | 1034 | 1018 | 1037 | 1062  | 1090 | 1135  | 1171 | 1203  | 1228 | 1235  | 1231 | 1218  | 1204 | 1177  |  |  |  |
| 35                 | 1010 | 941  | 869  | 841  | 862  | 899   | 941  | 1009  | 1070 | 1125  | 1166 | 1181  | 1171 | 1153  | 1130 | 1086  |  |  |  |
| 40                 | 846  | 742  | 631  | 574  | 584  | 651   | 711  | 818   | 915  | 1001  | 1067 | 1092  | 1078 | 1051  | 1018 | 952   |  |  |  |
| 45                 | 607  | 450  | 286  | 215  | 243  | 300   | 383  | 528   | 661  | 810   | 911  | 950   | 934  | 897   | 849  | 757   |  |  |  |
| 50                 | 253  | 92.9 | 43.4 | 39.2 | 38.7 | 44.6  | 61.4 | 152   | 315  | 496   | 673  | 737   | 716  | 669   | 604  | 465   |  |  |  |
| 55                 | 43.5 | 34.9 | 28.6 | 26.2 | 26.8 | 28.3  | 32.0 | 39.8  | 52.5 | 151   | 332  | 406   | 379  | 327   | 252  | 106   |  |  |  |
| 60                 | 31.0 | 25.6 | 21.2 | 19.0 | 20.6 | 20.3  | 23.3 | 29.0  | 37.1 | 44.8  | 56.9 | 68.4  | 60.4 | 50.6  | 47.5 | 38.3  |  |  |  |
| 65                 | 22.7 | 17.8 | 14.9 | 12.8 | 15.1 | 14.2  | 16.3 | 19.8  | 25.3 | 31.5  | 40.7 | 43.3  | 39.3 | 37.4  | 33.8 | 26.9  |  |  |  |
| 70                 | 16.0 | 11.6 | 9.06 | 7.34 | 8.83 | 8.30  | 9.70 | 12.4  | 17.9 | 21.4  | 27.7 | 28.6  | 27.5 | 25.4  | 23.9 | 18.9  |  |  |  |
| 75                 | 10.1 | 6.28 | 4.02 | 2.68 | 2.74 | 3.35  | 4.59 | 6.68  | 11.1 | 13.6  | 19.1 | 19.6  | 20.5 | 17.5  | 16.2 | 12.1  |  |  |  |
| 80                 | 4.15 | 2.08 | 0.77 | 0.38 | 0.35 | 0.57  | 0.97 | 2.16  | 4.29 | 7.07  | 11.1 | 11.9  | 13.6 | 10.5  | 9.06 | 6.39  |  |  |  |
| 85                 | 0.91 | 0.29 | 0.19 | 0.21 | 0.19 | 0.18  | 0.16 | 0.29  | 0.93 | 2.26  | 4.71 | 5.56  | 5.45 | 4.51  | 3.72 | 2.11  |  |  |  |
| 90                 | 0.19 | 0.28 | 0.39 | 0.44 | 0.40 | 0.36  | 0.31 | 0.23  | 0.25 | 0.35  | 0.84 | 1.33  | 1.17 | 0.94  | 0.64 | 0.31  |  |  |  |
| 95                 | 0.38 | 0.56 | 0.75 | 0.84 | 0.79 | 0.71  | 0.62 | 0.47  | 0.52 | 0.35  | 0.25 | 0.21  | 0.21 | 0.22  | 0.25 | 0.33  |  |  |  |
| 100                | 0.74 | 1.00 | 1.26 | 1.38 | 1.32 | 1.21  | 1.09 | 0.88  | 0.95 | 0.70  | 0.50 | 0.41  | 0.41 | 0.45  | 0.52 | 0.67  |  |  |  |
| 105                | 1.25 | 1.58 | 1.89 | 2.05 | 1.97 | 1.84  | 1.69 | 1.44  | 1.53 | 1.20  | 0.93 | 0.80  | 0.80 | 0.88  | 0.97 | 1.18  |  |  |  |
| 110                | 1.86 | 2.26 | 2.62 | 2.81 | 2.72 | 2.58  | 2.40 | 2.11  | 2.22 | 1.82  | 1.51 | 1.35  | 1.37 | 1.45  | 1.58 | 1.83  |  |  |  |
| 115                | 2.59 | 3.04 | 3.43 | 3.63 | 3.55 | 3.40  | 3.21 | 2.89  | 3.00 | 2.55  | 2.21 | 2.02  | 2.05 | 2.16  | 2.31 | 2.59  |  |  |  |
| 120                | 3.40 | 3.87 | 4.24 | 4.43 | 4.34 | 4.20  | 4.04 | 3.74  | 3.84 | 3.37  | 2.99 | 2.79  | 2.84 | 2.96  | 3.12 | 3.43  |  |  |  |
| 125                | 4.23 | 4.66 | 4.97 | 5.15 | 5.06 | 4.94  | 4.80 | 4.55  | 4.71 | 4.23  | 3.84 | 3.64  | 3.70 | 3.84  | 4.00 | 4.32  |  |  |  |
| 130                | 4.97 | 5.36 | 5.65 | 5.83 | 5.74 | 5.61  | 5.48 | 5.26  | 5.48 | 5.06  | 4.71 | 4.52  | 4.59 | 4.74  | 4.89 | 5.17  |  |  |  |
| 135                | 5.65 | 6.01 | 6.28 | 6.48 | 6.40 | 6.25  | 6.11 | 5.92  | 6.19 | 5.81  | 5.52 | 5.34  | 5.42 | 5.57  | 5.71 | 5.94  |  |  |  |
| 140                | 6.31 | 6.64 | 6.86 | 7.10 | 7.05 | 6.87  | 6.71 | 6.56  | 6.85 | 6.49  | 6.24 | 6.08  | 6.19 | 6.31  | 6.44 | 6.65  |  |  |  |
| 145                | 6.92 | 7.17 | 7.39 | 7.61 | 7.60 | 7.42  | 7.31 | 7.16  | 7.45 | 7.12  | 6.91 | 6.77  | 6.91 | 7.00  | 7.11 | 7.32  |  |  |  |
| 150                | 7.39 | 7.62 | 7.88 | 8.12 | 8.10 | 7.95  | 7.85 | 7.73  | 7.92 | 7.64  | 7.48 | 7.39  | 7.57 | 7.63  | 7.75 | 7.91  |  |  |  |
| 155                | 7.90 | 8.25 | 8.58 | 8.86 | 8.79 | 8.60  | 8.48 | 8.31  | 8.43 | 8.09  | 7.96 | 7.90  | 8.12 | 8.19  | 8.30 | 8.46  |  |  |  |
| 160                | 8.71 | 9.16 | 9.54 | 9.82 | 9.69 | 9.48  | 9.34 | 9.10  | 9.21 | 8.79  | 8.57 | 8.46  | 8.67 | 8.75  | 8.90 | 9.06  |  |  |  |
| 165                | 9.76 | 10.2 | 10.6 | 10.8 | 10.7 | 10.5  | 10.3 | 10.03 | 10.2 | 9.73  | 9.45 | 9.30  | 9.50 | 9.59  | 9.70 | 9.89  |  |  |  |
| 170                | 10.7 | 11.1 | 11.4 | 11.6 | 11.4 | 11.2  | 11.1 | 10.9  | 11.1 | 10.7  | 10.5 | 10.3  | 10.4 | 10.5  | 10.6 | 10.7  |  |  |  |
| 175                | 11.5 | 11.8 | 11.9 | 11.9 | 11.8 | 11.7  | 11.6 | 11.5  | 11.7 | 11.5  | 11.4 | 11.2  | 11.3 | 11.4  | 11.4 | 11.4  |  |  |  |
| 180                | 11.8 | 12.0 | 11.9 | 11.9 | 11.8 | 11.8  | 11.8 | 11.8  | 11.9 | 11.9  | 12.0 | 11.8  | 11.9 | 11.8  | 11.8 | 11.7  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
Humidity:65.0%  
Test Distance:9.401m [K=1.0000]  
Remarks: