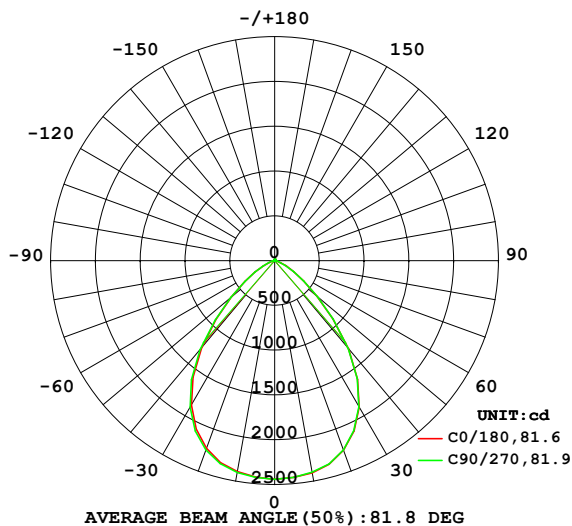


LUMINAIRE PHOTOMETRIC TEST REPORT

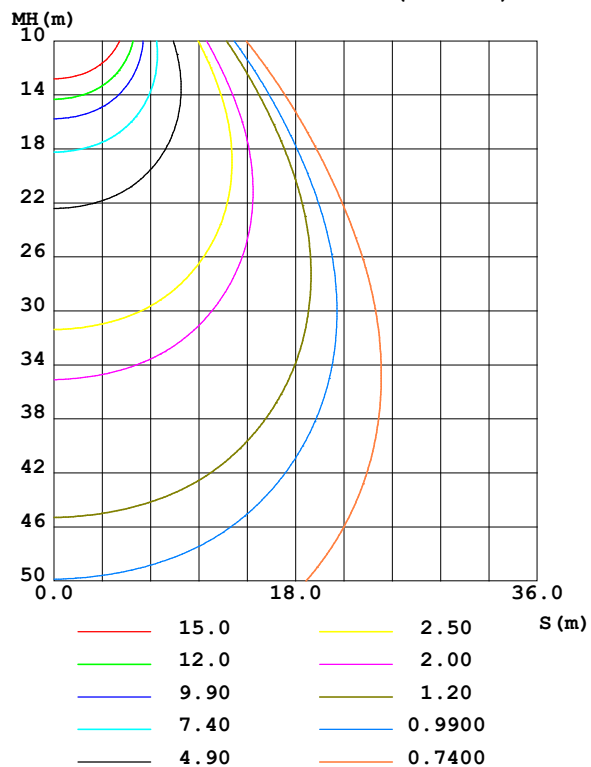
|                                                                                     |           |                  |
|-------------------------------------------------------------------------------------|-----------|------------------|
| Test:U:220.32V I:0.1881A P:40.589W PF:0.9793 Freq:50.00Hz<br>Lamp Flux:4195.55x1 lm |           |                  |
| NAME:                                                                               | TYPE: 219 | WEIGHT:          |
| SPEC.:                                                                              | DIM.:     | SERIAL No.:      |
| MFR.: EVERFINE                                                                      | SUR.:     | Shielding Angle: |

| DATA OF LAMP     |         | PHOTOMETRIC DATA Eff: 103.37 lm/W |        |                   |          |
|------------------|---------|-----------------------------------|--------|-------------------|----------|
| MODEL            | 219E    | I <sub>max</sub> (cd)             | 2441   | S/MH(C0/180)      | 1.15     |
| NOMINAL POWER(W) | 40      | LOR(%)                            | 100.0  | S/MH(C90/270)     | 1.16     |
| RATED VOLTAGE(V) | 220     | TOTAL FLUX(lm)                    | 4195.6 | η UP,DN(C0-180)   | 0.5,49.5 |
| NOMINAL FLUX(lm) | 4195.55 | CIE CLASS                         | DIRECT | η UP,DN(C180-360) | 0.5,49.5 |
| LAMPS INSIDE     | 1       | η up (%)                          | 1.0    | CIBSE SHR NOM     | 1.00     |
| TEST VOLTAGE(V)  | 219.5   | η down (%)                        | 99.0   | CIBSE SHR MAX     | 1.15     |

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:2023-11-22

γ Range: 0 - 180DEG  
γ Interval: 5.0DEG  
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       | 2407                  | 2407   | 2401   | 2395   | 2390   | 2393   | 2402   | 2409   | 0- 10    | 231.0       | 231.0        | 5.51,5.51  |
| 20       | 2251                  | 2245   | 2247   | 2243   | 2231   | 2232   | 2247   | 2252   | 10- 20   | 659.9       | 890.9        | 21.2,21.2  |
| 30       | 1891                  | 1889   | 1885   | 1873   | 1863   | 1871   | 1891   | 1898   | 20- 30   | 957.7       | 1849         | 44.1,44.1  |
| 40       | 1287                  | 1284   | 1282   | 1267   | 1271   | 1283   | 1296   | 1292   | 30- 40   | 997.2       | 2846         | 67.8,67.8  |
| 50       | 616.9                 | 624.4  | 628.6  | 625.9  | 632.8  | 641.6  | 639.9  | 623.6  | 40- 50   | 724.4       | 3570         | 85.1,85.1  |
| 60       | 243.9                 | 244.6  | 243.4  | 248.6  | 253.4  | 254.8  | 252.9  | 248.6  | 50- 60   | 375.1       | 3945         | 94,94      |
| 70       | 73.35                 | 71.45  | 67.79  | 72.12  | 73.86  | 73.43  | 71.03  | 73.69  | 60- 70   | 149.3       | 4095         | 97.6,97.6  |
| 80       | 21.89                 | 20.67  | 18.91  | 20.47  | 21.98  | 21.03  | 19.79  | 21.46  | 70- 80   | 45.80       | 4140         | 98.7,98.7  |
| 90       | 0.8599                | 0.8116 | 0.7988 | 0.7960 | 0.9975 | 0.9739 | 0.9601 | 0.9873 | 80- 90   | 11.21       | 4152         | 99,99      |
| 100      | 1.700                 | 1.704  | 1.706  | 1.687  | 2.138  | 2.128  | 2.113  | 2.120  | 90-100   | 1.464       | 4153         | 99,99      |
| 110      | 3.418                 | 3.445  | 3.455  | 3.435  | 4.097  | 4.093  | 4.069  | 4.057  | 100-110  | 2.940       | 4156         | 99.1,99.1  |
| 120      | 5.745                 | 5.757  | 5.783  | 5.770  | 6.598  | 6.550  | 6.543  | 6.532  | 110-120  | 4.886       | 4161         | 99.2,99.2  |
| 130      | 8.246                 | 8.262  | 8.299  | 8.282  | 9.189  | 9.127  | 9.137  | 9.129  | 120-130  | 6.649       | 4168         | 99.3,99.3  |
| 140      | 10.56                 | 10.56  | 10.65  | 10.55  | 11.55  | 11.38  | 11.53  | 11.43  | 130-140  | 7.627       | 4175         | 99.5,99.5  |
| 150      | 12.59                 | 12.65  | 12.75  | 12.59  | 13.54  | 13.39  | 13.52  | 13.43  | 140-150  | 7.546       | 4183         | 99.7,99.7  |
| 160      | 14.73                 | 14.94  | 14.97  | 14.79  | 15.52  | 15.49  | 15.57  | 15.55  | 150-160  | 6.501       | 4189         | 99.8,99.8  |
| 170      | 17.28                 | 17.46  | 17.45  | 17.29  | 17.79  | 17.69  | 17.81  | 17.78  | 160-170  | 4.622       | 4194         | 100,100    |
| 180      | 18.88                 | 19.01  | 18.84  | 18.97  | 18.94  | 19.05  | 18.91  | 18.99  | 170-180  | 1.738       | 4196         | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 3255.4 lm

%lum = 77.6%

%lamp = 77.6%

Conical surface Flux(130deg): 4040.3 lm

%lum = 96.3%

%lamp = 96.3%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-11-22

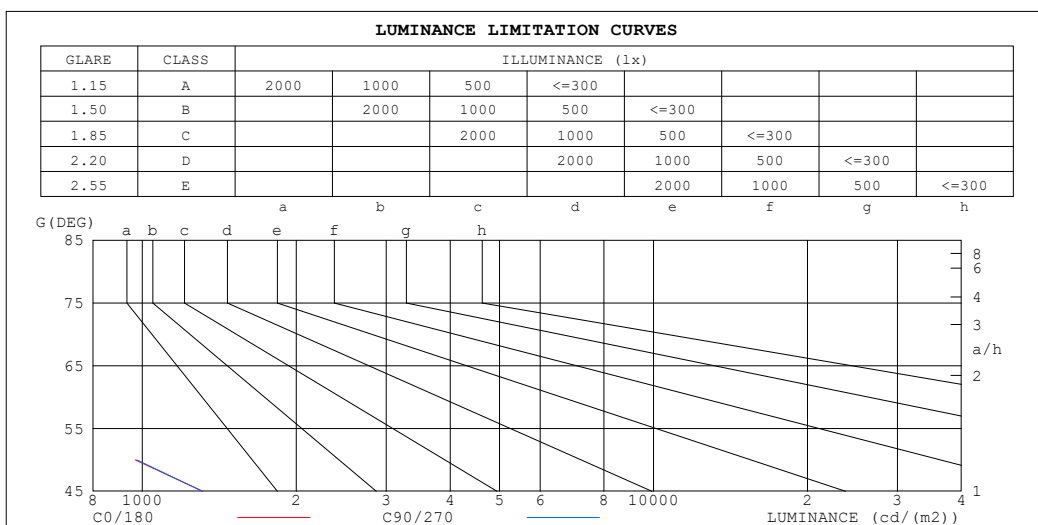
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:220.32V I:0.1881A P:40.589W PF:0.9793 Freq:50.00Hz

Lamp Flux:4195.55x1 lm

|                |           |                  |
|----------------|-----------|------------------|
| NAME:          | TYPE: 219 | WEIGHT:          |
| SPEC.:         | DIM.:     | SERIAL No.:      |
| MFR.: EVERFINE | SUR.:     | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 123    | 102     |
| 80                | 127    | 109     |
| 75                | 163    | 143     |
| 70                | 216    | 198     |
| 65                | 339    | 316     |
| 60                | 492    | 486     |
| 55                | 694    | 697     |
| 50                | 968    | 976     |
| 45                | 1313   | 1310    |

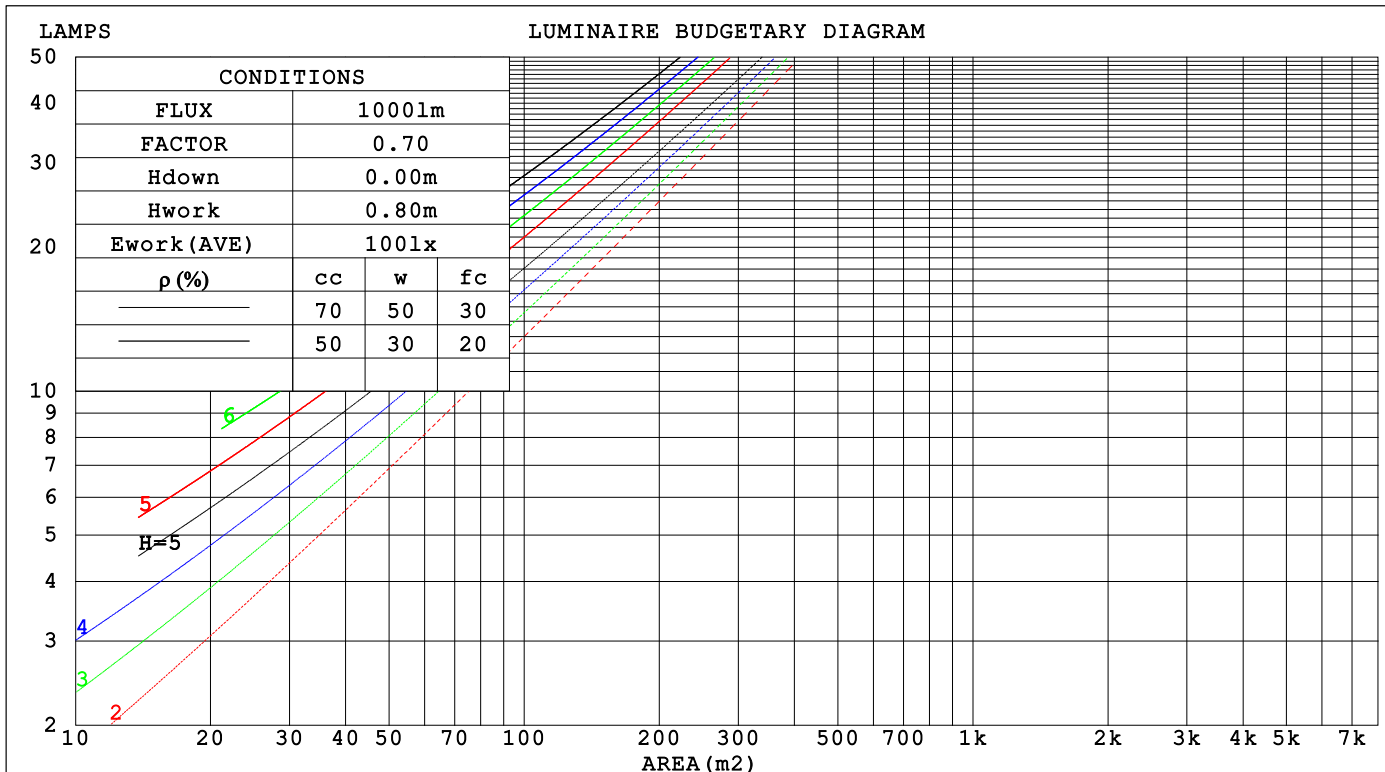
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:DAMIN  
Test Date:2023-11-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 5.0DEG  
 $\gamma$  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:220.32V I:0.1881A P:40.589W PF:0.9793 Freq:50.00Hz<br>Lamp Flux:4195.55x1 lm |           |                  |
| NAME:                                                                               | TYPE: 219 | WEIGHT:          |
| SPEC.:                                                                              | DIM.:     | SERIAL No.:      |
| MFR.: EVERFINE                                                                      | SUR.:     | Shielding Angle: |

| pcc             | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| p <sub>w</sub>  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| p <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             | 1.08                  | 1.05 | 1.02 | 1.06 | 1.03 | 1.00 | 1.01 | .99  | .97  | .97  | .96  | .94  | .94  | .92  | .91  | .89                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.0             | .98                   | .93  | .88  | .96  | .91  | .87  | .92  | .88  | .85  | .89  | .86  | .83  | .86  | .83  | .81  | .79                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.0             | .89                   | .82  | .77  | .87  | .81  | .77  | .84  | .79  | .75  | .81  | .77  | .74  | .79  | .75  | .72  | .71                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.0             | .81                   | .74  | .68  | .79  | .73  | .68  | .77  | .71  | .67  | .75  | .70  | .66  | .73  | .68  | .65  | .63                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.0             | .74                   | .66  | .61  | .73  | .66  | .60  | .70  | .64  | .60  | .69  | .63  | .59  | .67  | .62  | .58  | .57                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.0             | .67                   | .60  | .55  | .67  | .60  | .54  | .65  | .59  | .54  | .63  | .58  | .53  | .62  | .57  | .53  | .51                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7.0             | .62                   | .55  | .49  | .61  | .54  | .49  | .60  | .53  | .49  | .58  | .53  | .48  | .57  | .52  | .48  | .46                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8.0             | .57                   | .50  | .45  | .57  | .50  | .45  | .55  | .49  | .45  | .54  | .48  | .44  | .53  | .48  | .44  | .42                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9.0             | .53                   | .46  | .41  | .53  | .46  | .41  | .51  | .45  | .41  | .50  | .45  | .41  | .49  | .44  | .40  | .39                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10.0            | .49                   | .42  | .38  | .49  | .42  | .38  | .48  | .42  | .38  | .47  | .41  | .37  | .46  | .41  | .37  | .36                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:DAMIN  
Test Date:2023-11-22

γ Range: 0 - 180DEG  
γ Interval: 5.0DEG  
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:220.32V I:0.1881A P:40.589W PF:0.9793 Freq:50.00Hz<br>Lamp Flux:4195.55x1 lm |           |                  |
| NAME:                                                                               | TYPE: 219 | 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  | .225                  | .128 | .041 | .218 | .124 | .039 | .204                            | .117 | .037 | .192 | .111 | .036 | .181 | .105 | .034 |   |  |
| 2.0  | .219                  | .120 | .037 | .213 | .117 | .036 | .201                            | .112 | .035 | .190 | .107 | .033 | .180 | .102 | .032 |   |  |
| 3.0  | .209                  | .111 | .033 | .203 | .109 | .033 | .193                            | .105 | .032 | .184 | .101 | .031 | .175 | .097 | .030 |   |  |
| 4.0  | .198                  | .103 | .030 | .193 | .101 | .030 | .184                            | .098 | .029 | .176 | .095 | .029 | .168 | .091 | .028 |   |  |
| 5.0  | .187                  | .095 | .028 | .183 | .094 | .027 | .175                            | .091 | .027 | .168 | .089 | .026 | .161 | .086 | .026 |   |  |
| 6.0  | .177                  | .089 | .025 | .174 | .088 | .025 | .167                            | .085 | .025 | .160 | .083 | .024 | .154 | .081 | .024 |   |  |
| 7.0  | .168                  | .083 | .024 | .165 | .082 | .023 | .158                            | .080 | .023 | .152 | .078 | .023 | .147 | .076 | .022 |   |  |
| 8.0  | .159                  | .078 | .022 | .156 | .077 | .022 | .151                            | .075 | .021 | .145 | .074 | .021 | .140 | .072 | .021 |   |  |
| 9.0  | .151                  | .073 | .020 | .149 | .072 | .020 | .143                            | .071 | .020 | .139 | .069 | .020 | .134 | .068 | .020 |   |  |
| 10.0 | .144                  | .069 | .019 | .141 | .068 | .019 | .137                            | .067 | .019 | .132 | .066 | .019 | .128 | .064 | .019 |   |  |

| 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  | .198                  | .198 | .198 | .170 | .170 | .170 | .116                                        | .116 | .116 | .067 | .067 | .067 | .021 | .021 | .021 |   |  |
| 1.0  | .182                  | .165 | .149 | .156 | .142 | .128 | .107                                        | .097 | .089 | .061 | .056 | .052 | .020 | .018 | .017 |   |  |
| 2.0  | .171                  | .140 | .115 | .146 | .121 | .099 | .100                                        | .084 | .069 | .058 | .049 | .041 | .019 | .016 | .013 |   |  |
| 3.0  | .161                  | .122 | .091 | .138 | .105 | .079 | .095                                        | .073 | .055 | .055 | .043 | .033 | .018 | .014 | .011 |   |  |
| 4.0  | .152                  | .108 | .074 | .131 | .093 | .064 | .090                                        | .065 | .045 | .052 | .038 | .027 | .017 | .012 | .009 |   |  |
| 5.0  | .145                  | .097 | .062 | .124 | .084 | .054 | .086                                        | .059 | .038 | .050 | .034 | .023 | .016 | .011 | .007 |   |  |
| 6.0  | .138                  | .088 | .053 | .119 | .077 | .046 | .082                                        | .054 | .032 | .048 | .032 | .019 | .015 | .010 | .006 |   |  |
| 7.0  | .132                  | .081 | .046 | .114 | .070 | .040 | .078                                        | .049 | .028 | .046 | .029 | .017 | .015 | .010 | .006 |   |  |
| 8.0  | .126                  | .075 | .040 | .109 | .065 | .035 | .075                                        | .046 | .025 | .044 | .027 | .015 | .014 | .009 | .005 |   |  |
| 9.0  | .121                  | .070 | .036 | .104 | .061 | .032 | .072                                        | .043 | .022 | .042 | .025 | .013 | .014 | .008 | .004 |   |  |
| 10.0 | .116                  | .066 | .033 | .100 | .057 | .029 | .069                                        | .040 | .020 | .041 | .024 | .012 | .013 | .008 | .004 |   |  |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:2023-11-22

γ Range: 0 - 180DEG  
γ Interval: 5.0DEG  
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:220.32V I:0.1881A P:40.589W PF:0.9793 Freq:50.00Hz<br>Lamp Flux:4195.55x1 lm |                  |     |           |     |     |                  |     |     |     |     |
| NAME:                                                                               |                  |     | TYPE: 219 |     |     | 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                                                                       | 5.7              | 6.9 | 5.9       | 7.1 | 7.3 | 5.6              | 6.8 | 5.9 | 7.0 | 7.3 |
| 3H                                                                                  | 5.7              | 6.8 | 6.0       | 7.0 | 7.2 | 5.6              | 6.7 | 5.9 | 7.0 | 7.2 |
| 4H                                                                                  | 5.6              | 6.7 | 5.9       | 6.9 | 7.2 | 5.6              | 6.6 | 5.9 | 6.9 | 7.1 |
| 6H                                                                                  | 5.6              | 6.6 | 5.9       | 6.8 | 7.1 | 5.5              | 6.5 | 5.8 | 6.8 | 7.0 |
| 8H                                                                                  | 5.5              | 6.5 | 5.9       | 6.8 | 7.1 | 5.5              | 6.4 | 5.8 | 6.7 | 7.0 |
| 12H                                                                                 | 5.5              | 6.4 | 5.9       | 6.7 | 7.0 | 5.4              | 6.3 | 5.8 | 6.6 | 6.9 |
| 4H 2H                                                                               | 5.6              | 6.7 | 5.9       | 6.9 | 7.2 | 5.6              | 6.6 | 5.9 | 6.9 | 7.1 |
| 3H                                                                                  | 5.7              | 6.6 | 6.0       | 6.9 | 7.2 | 5.6              | 6.5 | 6.0 | 6.8 | 7.1 |
| 4H                                                                                  | 5.7              | 6.5 | 6.0       | 6.8 | 7.1 | 5.6              | 6.4 | 6.0 | 6.7 | 7.1 |
| 6H                                                                                  | 5.6              | 6.4 | 6.0       | 6.7 | 7.1 | 5.5              | 6.3 | 5.9 | 6.6 | 7.0 |
| 8H                                                                                  | 5.6              | 6.3 | 6.0       | 6.7 | 7.1 | 5.5              | 6.2 | 5.9 | 6.6 | 7.0 |
| 12H                                                                                 | 5.6              | 6.2 | 6.0       | 6.6 | 7.0 | 5.5              | 6.1 | 5.9 | 6.5 | 6.9 |
| 8H 4H                                                                               | 5.6              | 6.2 | 6.0       | 6.6 | 7.0 | 5.5              | 6.2 | 5.9 | 6.5 | 6.9 |
| 6H                                                                                  | 5.6              | 6.1 | 6.0       | 6.5 | 7.0 | 5.5              | 6.0 | 5.9 | 6.4 | 6.9 |
| 8H                                                                                  | 5.6              | 6.0 | 6.0       | 6.5 | 6.9 | 5.5              | 5.9 | 5.9 | 6.4 | 6.8 |
| 12H                                                                                 | 5.6              | 6.0 | 6.0       | 6.4 | 6.9 | 5.4              | 5.8 | 5.9 | 6.3 | 6.8 |
| 12H 4H                                                                              | 5.5              | 6.1 | 6.0       | 6.5 | 6.9 | 5.4              | 6.1 | 5.9 | 6.5 | 6.9 |
| 6H                                                                                  | 5.5              | 6.0 | 6.0       | 6.4 | 6.9 | 5.4              | 5.9 | 5.9 | 6.4 | 6.8 |
| 8H                                                                                  | 5.5              | 5.9 | 6.0       | 6.4 | 6.9 | 5.4              | 5.8 | 5.9 | 6.3 | 6.8 |
| Variations with the observer position at spacings(CIE Pub.117):                     |                  |     |           |     |     |                  |     |     |     |     |
| S = 1.0H                                                                            | + 1.4 / - 2.4    |     |           |     |     | + 1.4 / - 2.5    |     |     |     |     |
| 1.5H                                                                                | + 1.5 / - 1.9    |     |           |     |     | + 1.5 / - 1.9    |     |     |     |     |
| 2.0H                                                                                | + 3.1 / - 2.9    |     |           |     |     | + 3.1 / - 3.2    |     |     |     |     |

CIE Pub.117, 4196 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.0)  
Area: 1 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:2023-11-22

γ Range: 0 - 180DEG  
γ Interval: 5.0DEG  
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:220.32V I:0.1881A P:40.589W PF:0.9793 Freq:50.00Hz<br>Lamp Flux:4195.55x1 lm |           |                  |
| NAME:                                                                               | TYPE: 219 | WEIGHT:          |
| SPEC.:                                                                              | DIM.:     | SERIAL No.:      |
| MFR.: EVERFINE                                                                      | SUR.:     | Shielding Angle: |

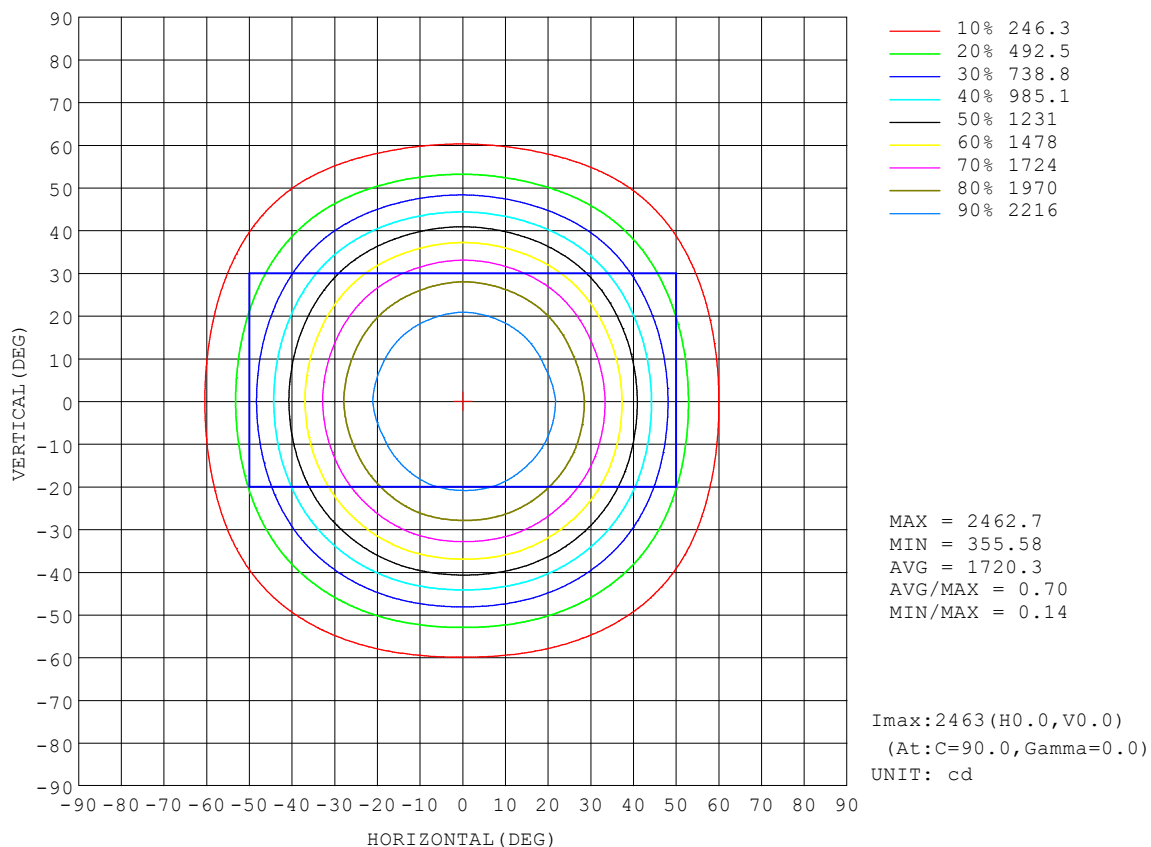
| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 71                                                   | 62  | 56        | 70  | 62  | 56  | 69  | 61            | 56  | 51     |
| 0.80                             | 81                                                   | 72  | 66        | 80  | 71  | 66  | 78  | 71            | 66  | 60     |
| 1.00                             | 88                                                   | 80  | 75        | 87  | 79  | 74  | 85  | 80            | 74  | 68     |
| 1.25                             | 94                                                   | 86  | 81        | 93  | 86  | 81  | 90  | 84            | 80  | 74     |
| 1.50                             | 98                                                   | 91  | 86        | 96  | 90  | 86  | 94  | 88            | 84  | 78     |
| 2.00                             | 103                                                  | 97  | 92        | 101 | 96  | 92  | 98  | 93            | 90  | 83     |
| 2.50                             | 105                                                  | 100 | 96        | 103 | 99  | 95  | 100 | 96            | 93  | 86     |
| 3.00                             | 108                                                  | 103 | 99        | 106 | 101 | 98  | 102 | 98            | 96  | 88     |
| 4.00                             | 110                                                  | 106 | 103       | 108 | 105 | 102 | 104 | 101           | 99  | 91     |
| 5.00                             | 112                                                  | 109 | 106       | 110 | 107 | 104 | 105 | 103           | 101 | 92     |
| 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:2023-11-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 5.0DEG  
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:220.32V I:0.1881A P:40.589W PF:0.9793 Freq:50.00Hz<br>Lamp Flux:4195.55x1 lm |           |                  |
| NAME:                                                                               | TYPE: 219 | WEIGHT:          |
| SPEC.:                                                                              | DIM.:     | SERIAL No.:      |
| MFR.: EVERFINE                                                                      | SUR.:     | Shielding Angle: |

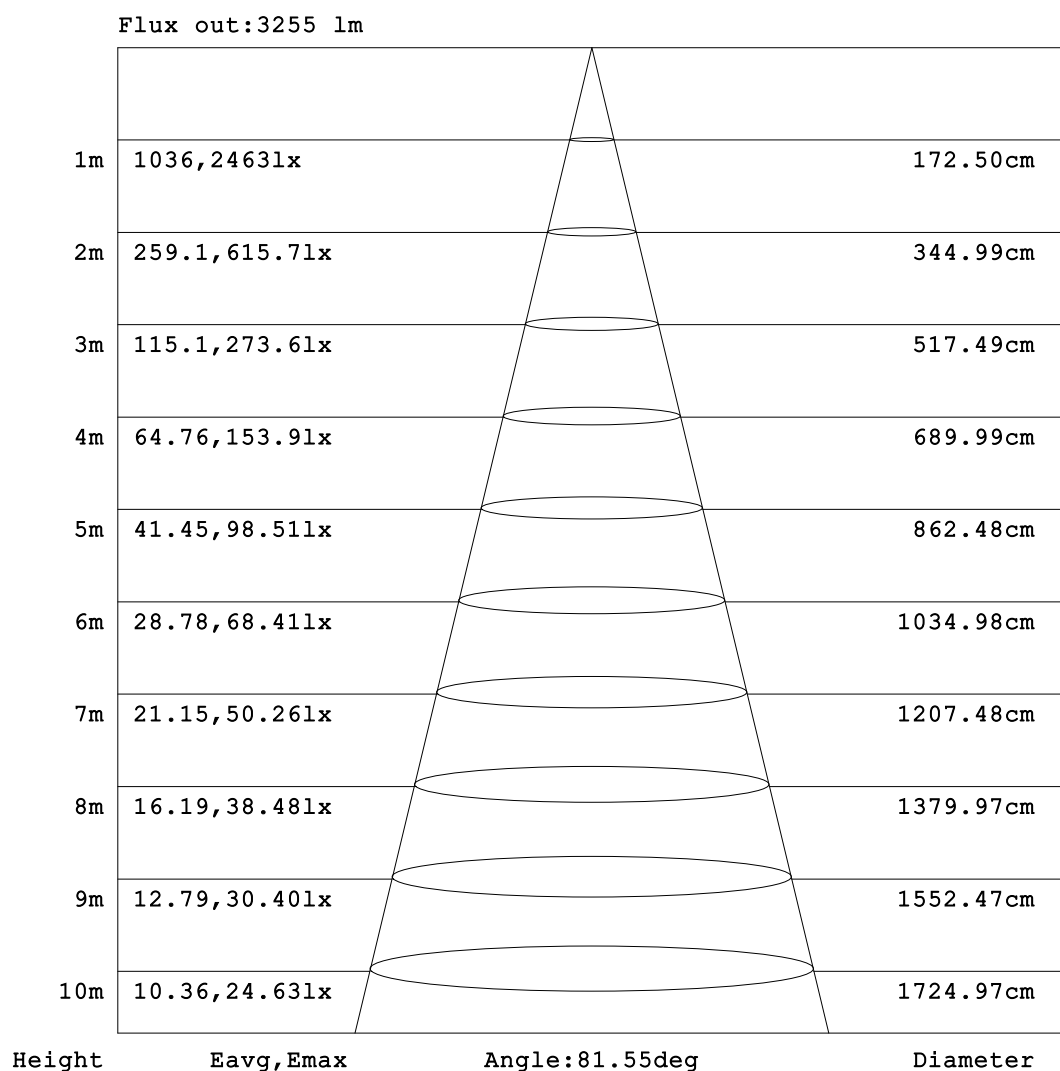


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:DAMIN  
Test Date:2023-11-22

γ Range: 0 - 180DEG  
γ Interval: 5.0DEG  
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:220.32V I:0.1881A P:40.589W PF:0.9793 Freq:50.00Hz<br>Lamp Flux:4195.55x1 lm |           |                  |
| NAME:                                                                               | TYPE: 219 | WEIGHT:          |
| SPEC.:                                                                              | DIM.:     | SERIAL No.:      |
| MFR.: EVERFINE                                                                      | SUR.:     | Shielding Angle: |



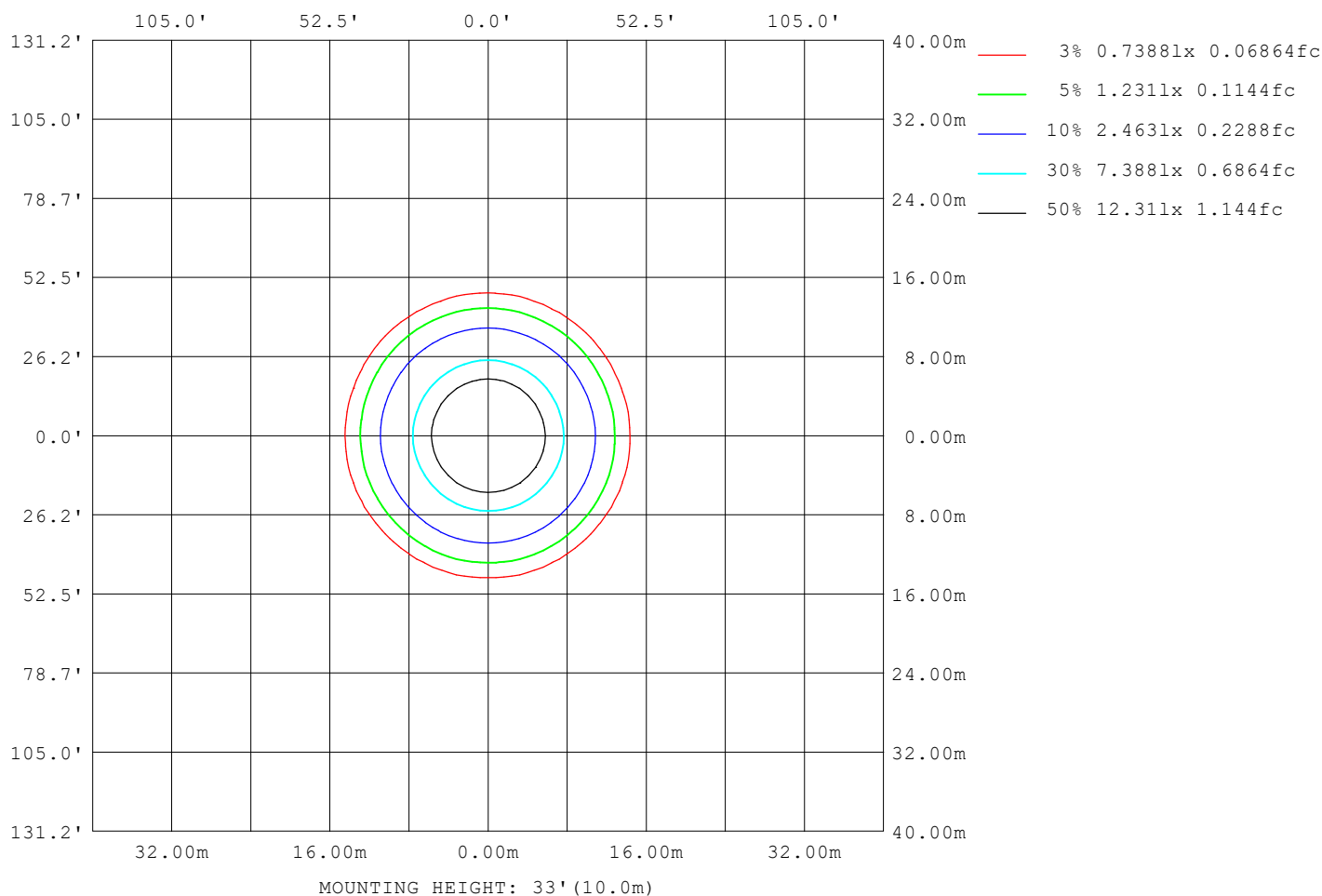
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-11-22

γ Range: 0 - 180DEG  
 γ Interval: 5.0DEG  
 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:220.32V I:0.1881A P:40.589W PF:0.9793 Freq:50.00Hz<br>Lamp Flux:4195.55x1 lm |           |                  |
| NAME:                                                                               | TYPE: 219 | 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:2023-11-22

γ Range: 0 - 180DEG  
γ Interval: 5.0DEG  
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:220.32V I:0.1881A P:40.589W PF:0.9793 Freq:50.00Hz<br>Lamp Flux:4195.55x1 lm |           |                  |
| NAME:                                                                               | TYPE: 219 | WEIGHT:          |
| SPEC.:                                                                              | DIM.:     | SERIAL No.:      |
| MFR.: EVERFINE                                                                      | SUR.:     | Shielding Angle: |

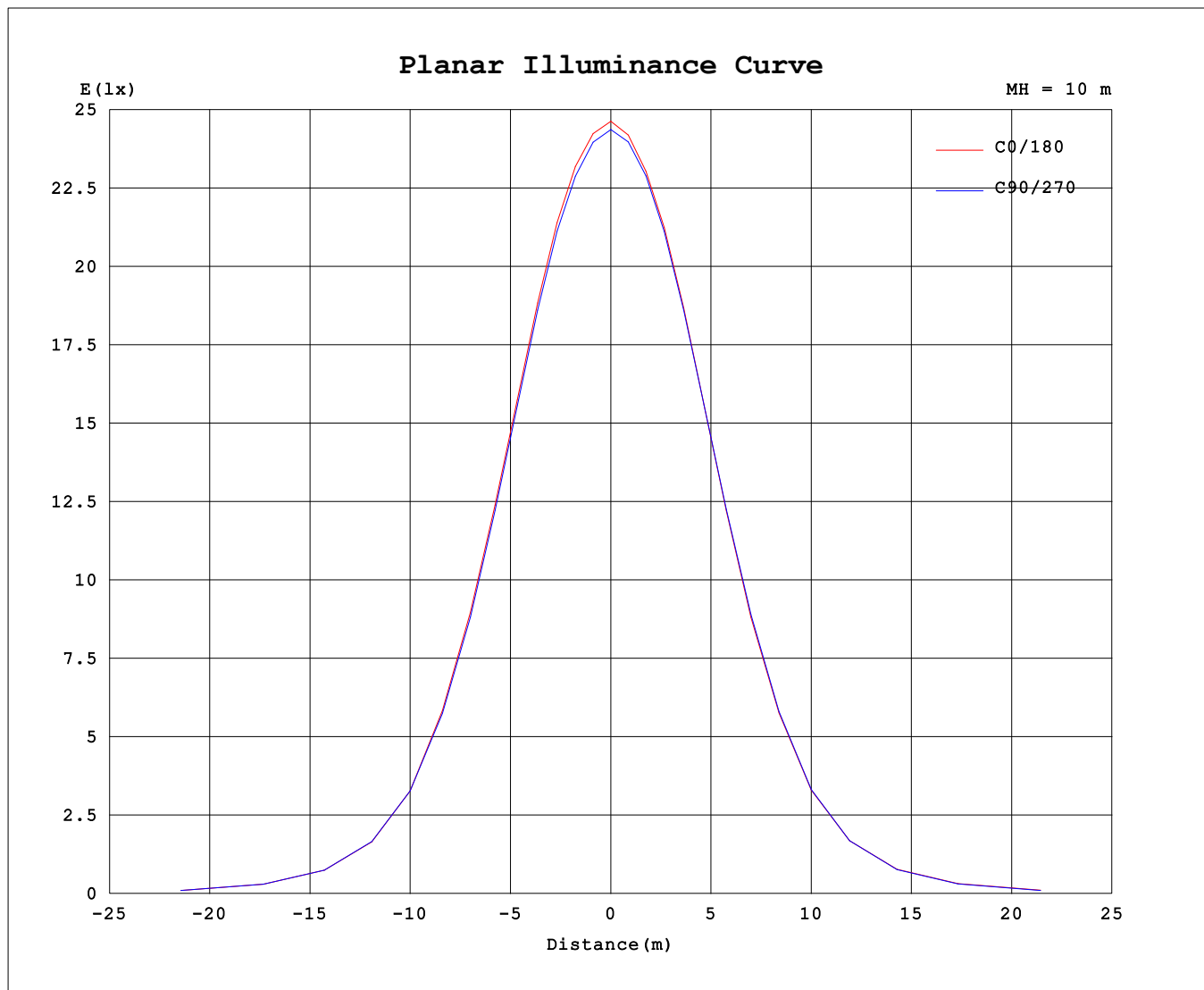
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 341   |
| L_0~180 (75) av  | 161   |
| L_0~180 (85) av  | 122   |
| L_90~270 (65) av | 325   |
| L_90~270 (75) av | 147   |
| L_90~270 (85) av | 104   |
| L_45 (65) av     | 339   |
| L_45 (75) av     | 158   |
| L_45 (85) av     | 111   |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:2023-11-22

γ Range: 0 - 180DEG  
γ Interval: 5.0DEG  
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: 2023-11-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 5.0DEG  
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:220.32V I:0.1881A P:40.589W PF:0.9793 Freq:50.00Hz<br>Lamp Flux:4195.55x1 lm |  |  |  |  |  |  |  |  |           |  |  |  |  |  |                  |  |  |
| NAME:                                                                               |  |  |  |  |  |  |  |  | TYPE: 219 |  |  |  |  |  | WEIGHT:          |  |  |
| SPEC.:                                                                              |  |  |  |  |  |  |  |  | DIM.:     |  |  |  |  |  | SERIAL No.:      |  |  |
| MFR.: EVERFINE                                                                      |  |  |  |  |  |  |  |  | SUR.:     |  |  |  |  |  | Shielding Angle: |  |  |

Table--1

UNIT: cd

| 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                  | 2441 | 2441 | 2441 | 2441 | 2441 | 2441  | 2441 | 2441  | 2441 | 2441  | 2441 | 2441  | 2441 | 2441  | 2441 | 2441  |  |  |  |
| 5                  | 2430 | 2431 | 2431 | 2433 | 2429 | 2429  | 2428 | 2425  | 2425 | 2424  | 2426 | 2427  | 2430 | 2429  | 2431 | 2431  |  |  |  |
| 10                 | 2407 | 2410 | 2407 | 2404 | 2401 | 2401  | 2395 | 2394  | 2390 | 2387  | 2393 | 2397  | 2402 | 2407  | 2409 | 2410  |  |  |  |
| 15                 | 2353 | 2356 | 2352 | 2353 | 2349 | 2351  | 2344 | 2341  | 2336 | 2330  | 2336 | 2339  | 2347 | 2351  | 2356 | 2354  |  |  |  |
| 20                 | 2251 | 2250 | 2245 | 2250 | 2247 | 2250  | 2243 | 2239  | 2231 | 2224  | 2232 | 2236  | 2247 | 2247  | 2252 | 2252  |  |  |  |
| 25                 | 2098 | 2102 | 2098 | 2100 | 2095 | 2100  | 2087 | 2083  | 2075 | 2070  | 2080 | 2083  | 2097 | 2098  | 2103 | 2101  |  |  |  |
| 30                 | 1891 | 1896 | 1889 | 1893 | 1885 | 1889  | 1873 | 1872  | 1863 | 1860  | 1871 | 1874  | 1891 | 1890  | 1898 | 1892  |  |  |  |
| 35                 | 1619 | 1625 | 1612 | 1621 | 1609 | 1613  | 1595 | 1600  | 1590 | 1587  | 1601 | 1605  | 1623 | 1620  | 1627 | 1622  |  |  |  |
| 40                 | 1287 | 1293 | 1284 | 1292 | 1282 | 1283  | 1267 | 1274  | 1271 | 1269  | 1283 | 1283  | 1296 | 1288  | 1292 | 1286  |  |  |  |
| 45                 | 920  | 929  | 924  | 936  | 928  | 933   | 920  | 928   | 927  | 926   | 939  | 937   | 942  | 927   | 927  | 918   |  |  |  |
| 50                 | 617  | 626  | 624  | 635  | 629  | 634   | 626  | 634   | 633  | 632   | 642  | 638   | 640  | 626   | 624  | 615   |  |  |  |
| 55                 | 394  | 400  | 398  | 404  | 401  | 405   | 402  | 408   | 408  | 405   | 412  | 407   | 409  | 400   | 400  | 393   |  |  |  |
| 60                 | 244  | 248  | 245  | 247  | 243  | 250   | 249  | 254   | 253  | 251   | 255  | 250   | 253  | 247   | 249  | 243   |  |  |  |
| 65                 | 142  | 144  | 141  | 138  | 134  | 140   | 143  | 147   | 146  | 144   | 146  | 142   | 141  | 141   | 144  | 142   |  |  |  |
| 70                 | 73.4 | 73.9 | 71.4 | 69.6 | 67.8 | 70.2  | 72.1 | 74.4  | 73.9 | 73.3  | 73.4 | 70.9  | 71.0 | 71.3  | 73.7 | 73.5  |  |  |  |
| 75                 | 41.7 | 42.2 | 40.0 | 38.7 | 37.2 | 38.9  | 40.4 | 42.0  | 41.9 | 41.6  | 41.0 | 39.1  | 39.1 | 39.6  | 41.7 | 41.7  |  |  |  |
| 80                 | 21.9 | 22.1 | 20.7 | 19.7 | 18.9 | 19.7  | 20.5 | 21.8  | 22.0 | 21.6  | 21.0 | 19.8  | 19.8 | 20.2  | 21.5 | 21.7  |  |  |  |
| 85                 | 10.6 | 10.4 | 9.66 | 9.23 | 8.89 | 9.07  | 9.32 | 10.2  | 10.6 | 10.1  | 9.70 | 9.16  | 9.23 | 9.37  | 9.87 | 10.3  |  |  |  |
| 90                 | 0.86 | 0.84 | 0.81 | 0.80 | 0.80 | 0.79  | 0.80 | 0.86  | 1.00 | 1.02  | 0.97 | 0.96  | 0.96 | 0.96  | 0.99 | 1.05  |  |  |  |
| 95                 | 1.12 | 1.17 | 1.14 | 1.20 | 1.13 | 1.16  | 1.11 | 1.16  | 1.45 | 1.38  | 1.43 | 1.38  | 1.43 | 1.37  | 1.44 | 1.39  |  |  |  |
| 100                | 1.70 | 1.74 | 1.70 | 1.75 | 1.71 | 1.74  | 1.69 | 1.73  | 2.14 | 2.08  | 2.13 | 2.07  | 2.11 | 2.07  | 2.12 | 2.08  |  |  |  |
| 105                | 2.46 | 2.51 | 2.48 | 2.52 | 2.48 | 2.51  | 2.46 | 2.50  | 3.02 | 2.98  | 3.01 | 2.96  | 2.99 | 2.95  | 2.99 | 2.97  |  |  |  |
| 110                | 3.42 | 3.45 | 3.45 | 3.48 | 3.45 | 3.48  | 3.43 | 3.47  | 4.10 | 4.06  | 4.09 | 4.04  | 4.07 | 4.03  | 4.06 | 4.04  |  |  |  |
| 115                | 4.53 | 4.57 | 4.55 | 4.59 | 4.57 | 4.58  | 4.56 | 4.57  | 5.30 | 5.26  | 5.29 | 5.24  | 5.27 | 5.24  | 5.26 | 5.24  |  |  |  |
| 120                | 5.74 | 5.75 | 5.76 | 5.79 | 5.78 | 5.80  | 5.77 | 5.78  | 6.60 | 6.55  | 6.55 | 6.51  | 6.54 | 6.50  | 6.53 | 6.50  |  |  |  |
| 125                | 6.99 | 7.02 | 7.01 | 7.05 | 7.04 | 7.04  | 7.03 | 7.04  | 7.92 | 7.84  | 7.87 | 7.81  | 7.85 | 7.81  | 7.85 | 7.82  |  |  |  |
| 130                | 8.25 | 8.27 | 8.26 | 8.28 | 8.30 | 8.29  | 8.28 | 8.28  | 9.19 | 9.09  | 9.13 | 9.06  | 9.14 | 9.06  | 9.13 | 9.08  |  |  |  |
| 135                | 9.42 | 9.45 | 9.45 | 9.46 | 9.49 | 9.45  | 9.46 | 9.47  | 10.4 | 10.3  | 10.3 | 10.3  | 10.4 | 10.3  | 10.3 | 10.3  |  |  |  |
| 140                | 10.6 | 10.6 | 10.6 | 10.6 | 10.7 | 10.6  | 10.6 | 10.6  | 11.5 | 11.4  | 11.4 | 11.4  | 11.5 | 11.4  | 11.4 | 11.5  |  |  |  |
| 145                | 11.6 | 11.6 | 11.6 | 11.7 | 11.7 | 11.6  | 11.6 | 11.6  | 12.6 | 12.5  | 12.4 | 12.4  | 12.6 | 12.4  | 12.4 | 12.5  |  |  |  |
| 150                | 12.6 | 12.6 | 12.7 | 12.8 | 12.8 | 12.7  | 12.6 | 12.6  | 13.5 | 13.4  | 13.4 | 13.3  | 13.5 | 13.4  | 13.4 | 13.5  |  |  |  |
| 155                | 13.6 | 13.7 | 13.7 | 13.9 | 13.8 | 13.7  | 13.6 | 13.6  | 14.5 | 14.4  | 14.4 | 14.3  | 14.5 | 14.4  | 14.4 | 14.4  |  |  |  |
| 160                | 14.7 | 14.8 | 14.9 | 15.1 | 15.0 | 14.9  | 14.8 | 14.8  | 15.5 | 15.4  | 15.5 | 15.4  | 15.6 | 15.6  | 15.5 | 15.4  |  |  |  |
| 165                | 16.0 | 16.2 | 16.2 | 16.4 | 16.3 | 16.2  | 16.1 | 16.1  | 16.7 | 16.6  | 16.6 | 16.6  | 16.8 | 16.8  | 16.7 | 16.6  |  |  |  |
| 170                | 17.3 | 17.4 | 17.5 | 17.6 | 17.5 | 17.4  | 17.3 | 17.4  | 17.8 | 17.7  | 17.7 | 17.6  | 17.8 | 17.8  | 17.8 | 17.7  |  |  |  |
| 175                | 18.3 | 18.5 | 18.5 | 18.6 | 18.4 | 18.4  | 18.4 | 18.3  | 18.6 | 18.6  | 18.6 | 18.4  | 18.6 | 18.6  | 18.7 | 18.5  |  |  |  |
| 180                | 18.9 | 19.0 | 19.0 | 19.0 | 18.8 | 18.9  | 19.0 | 18.9  | 18.9 | 19.0  | 19.1 | 18.9  | 18.9 | 18.9  | 19.0 | 18.9  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:2023-11-22

γ Range: 0 - 180DEG  
γ Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
Humidity:65.0%  
Test Distance:9.401m [K=1.0000]  
Remarks: