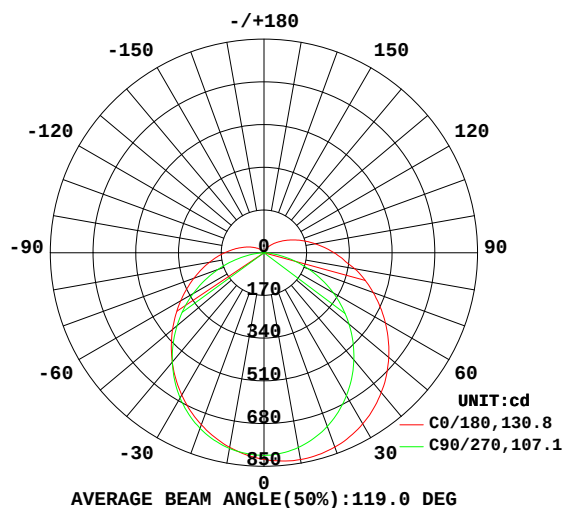


## LUMINAIRE PHOTOMETRIC TEST REPORT

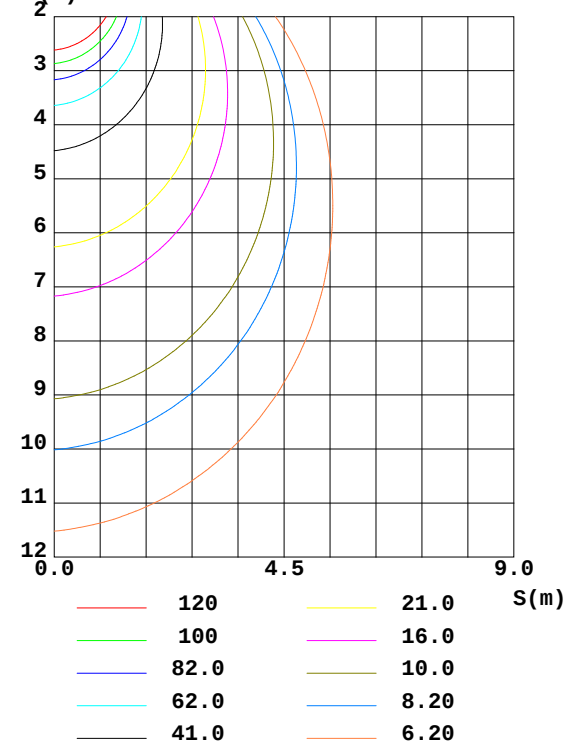
|                                                                               |       |                  |
|-------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.1V I:0.1012A P:21.96W PF:0.9845 Freq:49.99Hz Lamp Flux:2892.3x1 lm |       |                  |
| NAME:                                                                         | TYPE: | WEIGHT:          |
| SPEC.:                                                                        | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                | SUR.: | Shielding Angle: |

| DATA OF LAMP     |        | PHOTOMETRIC DATA Eff: 131.71 lm/W |        |                         |           |
|------------------|--------|-----------------------------------|--------|-------------------------|-----------|
| MODEL            |        | Imax(cd)                          | 835.8  | S/MH(C0/180)            | 1.42      |
| NOMINAL POWER(W) | 22.60  | LOR(%)                            | 100.0  | S/MH(C90/270)           | 1.22      |
| RATED VOLTAGE(V) | 220    | TOTAL FLUX(lm)                    | 2892.3 | $\eta$ UP, DN(C0-180)   | 4.3, 44.7 |
| NOMINAL FLUX(lm) | 2892.3 | CIE CLASS                         | DIRECT | $\eta$ UP, DN(C180-360) | 5.1, 45.9 |
| LAMPS INSIDE     | 1      | $\eta$ up(%)                      | 9.4    | CIBSE SHR NOM           | 1.25      |
| TEST VOLTAGE(V)  | 24     | $\eta$ down(%)                    | 90.6   | CIBSE SHR MAX           | 1.35      |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 12 June 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE G0-2000A\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 9.480m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

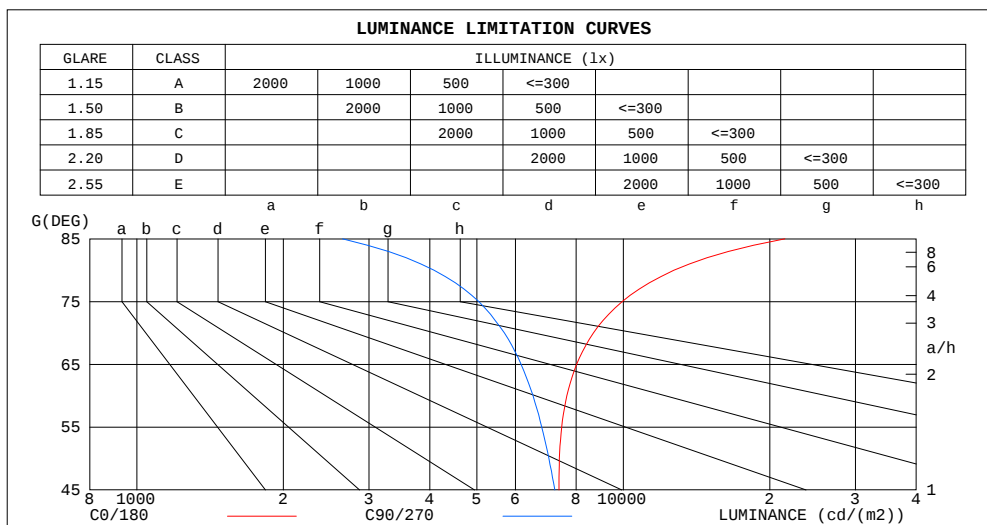
| γ   | C0                    | C45   | C90    | C135  | C180  | C225  | C270   | C315  | γ       | Φ zone  | Φ total | %lum, lamp |
|-----|-----------------------|-------|--------|-------|-------|-------|--------|-------|---------|---------|---------|------------|
| 10  | 786.3                 | 783.6 | 790.8  | 806.9 | 835.4 | 799.2 | 787.0  | 770.3 | 0- 10   | 76.43   | 76.43   | 2.64, 2.64 |
| 20  | 729.0                 | 727.2 | 744.0  | 781.6 | 823.1 | 771.4 | 735.6  | 710.8 | 10- 20  | 218.7   | 295.1   | 10.2, 10.2 |
| 30  | 654.4                 | 647.8 | 667.8  | 728.2 | 785.8 | 722.4 | 656.4  | 628.4 | 20- 30  | 331.9   | 627.0   | 21.7, 21.7 |
| 40  | 567.6                 | 552.9 | 567.9  | 651.8 | 726.0 | 647.6 | 556.7  | 528.6 | 30- 40  | 402.4   | 1029    | 35.6, 35.6 |
| 50  | 474.9                 | 449.0 | 452.0  | 557.9 | 647.9 | 556.0 | 442.1  | 431.3 | 40- 50  | 424.4   | 1454    | 50.3, 50.3 |
| 60  | 382.8                 | 344.7 | 326.1  | 454.4 | 557.7 | 455.4 | 317.9  | 329.4 | 50- 60  | 399.8   | 1854    | 64.1, 64.1 |
| 70  | 296.9                 | 248.2 | 194.8  | 350.9 | 462.5 | 353.6 | 188.6  | 234.9 | 60- 70  | 338.7   | 2192    | 75.8, 75.8 |
| 80  | 220.6                 | 166.4 | 70.88  | 255.7 | 367.2 | 257.4 | 67.06  | 155.5 | 70- 80  | 255.9   | 2448    | 84.7, 84.7 |
| 90  | 157.1                 | 103.5 | 1.315  | 176.2 | 279.2 | 179.9 | 1.374  | 91.94 | 80- 90  | 172.6   | 2621    | 90.6, 90.6 |
| 100 | 106.2                 | 59.17 | 0.6969 | 116.0 | 207.3 | 119.8 | 0.9394 | 54.04 | 90-100  | 111.8   | 2733    | 94.5, 94.5 |
| 110 | 67.91                 | 31.35 | 0.9214 | 73.58 | 147.2 | 76.72 | 1.229  | 25.55 | 100-110 | 70.37   | 2803    | 96.9, 96.9 |
| 120 | 41.12                 | 15.26 | 1.281  | 45.93 | 98.88 | 48.10 | 1.584  | 11.15 | 110-120 | 41.86   | 2845    | 98.4, 98.4 |
| 130 | 23.73                 | 8.290 | 1.666  | 28.60 | 62.91 | 30.36 | 1.938  | 6.592 | 120-130 | 23.66   | 2869    | 99.2, 99.2 |
| 140 | 13.19                 | 5.265 | 2.073  | 17.77 | 37.79 | 19.06 | 2.280  | 4.618 | 130-140 | 12.54   | 2881    | 99.6, 99.6 |
| 150 | 7.529                 | 4.071 | 2.433  | 10.75 | 20.80 | 11.94 | 2.587  | 3.875 | 140-150 | 6.396   | 2888    | 99.8, 99.8 |
| 160 | 4.738                 | 3.851 | 2.705  | 6.814 | 10.64 | 7.525 | 2.823  | 3.609 | 150-160 | 3.078   | 2891    | 99.9, 99.9 |
| 170 | 3.556                 | 3.845 | 2.924  | 3.857 | 4.524 | 5.055 | 2.989  | 3.470 | 160-170 | 1.285   | 2892    | 100, 100   |
| 180 | 3.054                 | 3.692 | 3.018  | 3.054 | 3.071 | 3.733 | 3.054  | 3.036 | 170-180 | 0.3305  | 2892    | 100, 100   |
| DEG | LUMINOUS INTENSITY:cd |       |        |       |       |       |        |       |         | UNIT:lm |         |            |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 June 2019

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.361  
Humidity:65.0%  
Test Distance:9.480m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

|                                                                               |       |                  |
|-------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.1V I:0.1012A P:21.96W PF:0.9845 Freq:49.99Hz Lamp Flux:2892.3x1 lm |       |                  |
| NAME:                                                                         | TYPE: | WEIGHT:          |
| SPEC.:                                                                        | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 21477  | 2649    |
| 80                | 12706  | 4082    |
| 75                | 9945   | 5046    |
| 70                | 8680   | 5696    |
| 65                | 8015   | 6162    |
| 60                | 7655   | 6522    |
| 55                | 7471   | 6798    |
| 50                | 7387   | 7032    |
| 45                | 7377   | 7229    |

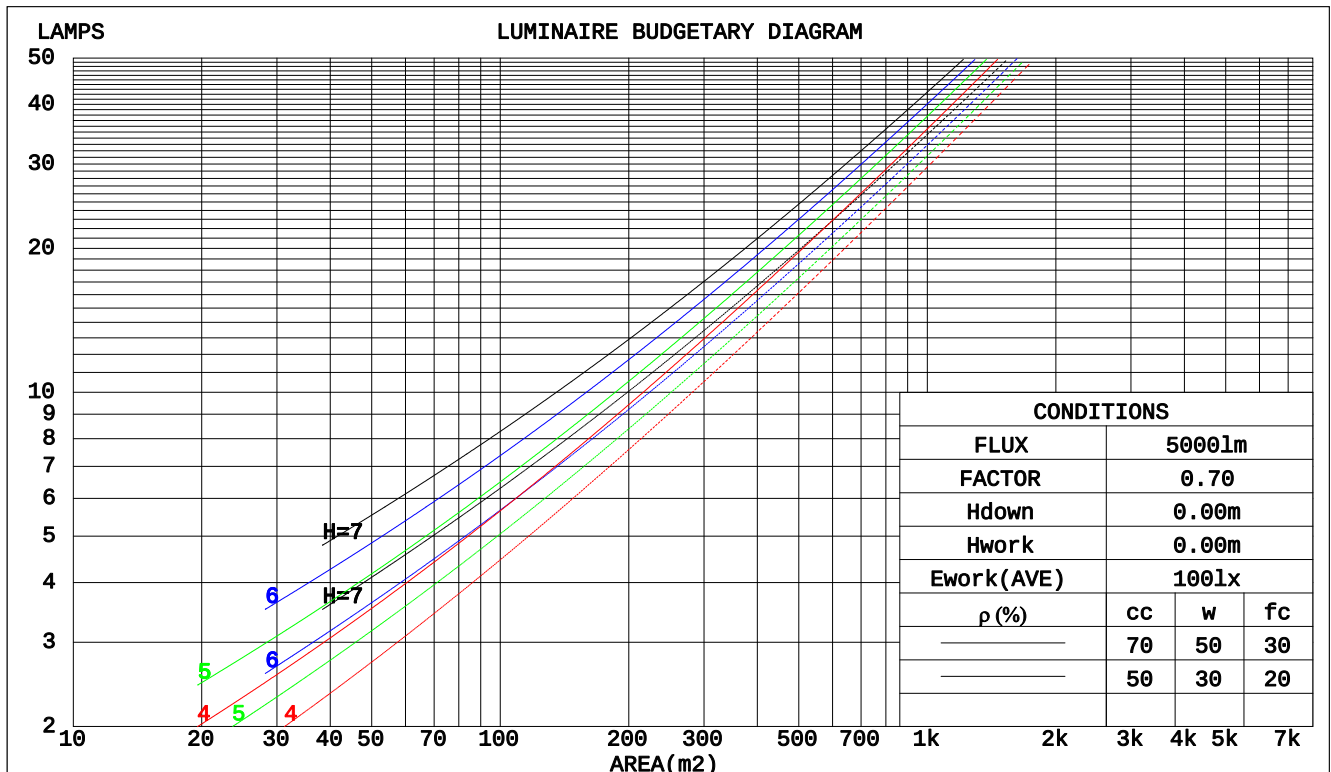
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 12 June 2019

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE G0-2000A\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 9.480m [K=1.0000]  
 Remarks:

# CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                               |       |                  |
|-------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.1V I:0.1012A P:21.96W PF:0.9845 Freq:49.99Hz Lamp Flux:2892.3x1 lm |       |                  |
| NAME:                                                                         | TYPE: | WEIGHT:          |
| SPEC.:                                                                        | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                | SUR.: | Shielding Angle: |

| $\rho_{CC}$ | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30% |     |     | 10% |     |     | 0   |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|-----|-----|-----|-----|-----|-----|-----|
| $\rho_W$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50% | 30% | 10% | 50% | 30% | 10% | 0   |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20% |     |     | 20% |     |     | 0   |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |     |     |     |     |     |     |     |
| 0.0         | 1.17                  | 1.17 | 1.17 | 1.13 | 1.13 | 1.13 | 1.06                            | 1.06 | 1.06 | .99 | .99 | .99 | .93 | .93 | .93 | .91 |
| 1.0         | .99                   | .94  | .89  | .96  | .91  | .87  | .90                             | .86  | .82  | .84 | .81 | .78 | .79 | .76 | .74 | .71 |
| 2.0         | .85                   | .78  | .71  | .82  | .75  | .70  | .77                             | .71  | .67  | .72 | .68 | .64 | .68 | .64 | .61 | .58 |
| 3.0         | .74                   | .65  | .58  | .72  | .64  | .57  | .67                             | .61  | .55  | .63 | .58 | .53 | .60 | .55 | .51 | .48 |
| 4.0         | .65                   | .56  | .49  | .63  | .55  | .48  | .60                             | .52  | .46  | .56 | .50 | .45 | .53 | .48 | .43 | .41 |
| 5.0         | .58                   | .49  | .42  | .57  | .48  | .41  | .53                             | .46  | .40  | .50 | .44 | .39 | .48 | .42 | .37 | .35 |
| 6.0         | .52                   | .43  | .36  | .51  | .42  | .36  | .48                             | .40  | .35  | .45 | .39 | .34 | .43 | .37 | .33 | .30 |
| 7.0         | .47                   | .38  | .32  | .46  | .38  | .32  | .44                             | .36  | .31  | .41 | .35 | .30 | .39 | .33 | .29 | .27 |
| 8.0         | .43                   | .34  | .28  | .42  | .34  | .28  | .40                             | .33  | .27  | .38 | .31 | .27 | .36 | .30 | .26 | .24 |
| 9.0         | .39                   | .31  | .25  | .38  | .31  | .25  | .37                             | .30  | .25  | .35 | .28 | .24 | .33 | .27 | .23 | .21 |
| 10.0        | .36                   | .28  | .23  | .35  | .28  | .23  | .34                             | .27  | .22  | .32 | .26 | .22 | .31 | .25 | .21 | .19 |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:12 June 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:9.480m [K=1.0000]  
 Remarks:

### WEC AND CCEC

|                                                                               |  |  |  |       |  |  |  |                  |  |
|-------------------------------------------------------------------------------|--|--|--|-------|--|--|--|------------------|--|
| Test:U:220.1V I:0.1012A P:21.96W PF:0.9845 Freq:49.99Hz Lamp Flux:2892.3x1 lm |  |  |  |       |  |  |  |                  |  |
| NAME:                                                                         |  |  |  | TYPE: |  |  |  | WEIGHT:          |  |
| SPEC.:                                                                        |  |  |  | DIM.: |  |  |  | SERIAL No.:      |  |
| MFR.: EVERFINE                                                                |  |  |  | SUR.: |  |  |  | Shielding Angle: |  |

| $\rho_{CC}$ | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| $\rho_W$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0         |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |  |
| 1.0         | .363                  | .207 | .065 | .353 | .201 | .064 | .334                            | .192 | .061 | .317 | .183 | .059 | .301 | .175 | .056 |   |  |
| 2.0         | .321                  | .176 | .054 | .312 | .172 | .053 | .295                            | .164 | .051 | .280 | .157 | .049 | .265 | .150 | .047 |   |  |
| 3.0         | .289                  | .154 | .046 | .280 | .150 | .045 | .265                            | .144 | .044 | .251 | .138 | .042 | .238 | .132 | .041 |   |  |
| 4.0         | .262                  | .136 | .040 | .254 | .133 | .039 | .241                            | .128 | .038 | .228 | .122 | .037 | .216 | .117 | .036 |   |  |
| 5.0         | .239                  | .122 | .035 | .232 | .119 | .035 | .220                            | .115 | .034 | .209 | .110 | .033 | .198 | .106 | .032 |   |  |
| 6.0         | .220                  | .110 | .032 | .214 | .108 | .031 | .203                            | .104 | .030 | .192 | .100 | .029 | .183 | .096 | .029 |   |  |
| 7.0         | .203                  | .100 | .028 | .198 | .099 | .028 | .188                            | .095 | .027 | .178 | .091 | .027 | .169 | .088 | .026 |   |  |
| 8.0         | .189                  | .092 | .026 | .184 | .091 | .026 | .175                            | .087 | .025 | .166 | .084 | .024 | .158 | .081 | .024 |   |  |
| 9.0         | .176                  | .085 | .024 | .172 | .084 | .024 | .164                            | .081 | .023 | .156 | .078 | .022 | .148 | .075 | .022 |   |  |
| 10.0        | .165                  | .079 | .022 | .161 | .078 | .022 | .154                            | .075 | .021 | .146 | .073 | .021 | .139 | .070 | .020 |   |  |

| ρ <sub>CC</sub> | 80%                   |      |      | 70%  |      |      | 50%                                        |      |      | 30%  |      |      | 10%  |      |      | 0 |
|-----------------|-----------------------|------|------|------|------|------|--------------------------------------------|------|------|------|------|------|------|------|------|---|
| ρ <sub>W</sub>  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                                        | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρ <sub>fc</sub> | 20%                   |      |      | 20%  |      |      | 20%                                        |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR             | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0             | .262                  | .262 | .262 | .224 | .224 | .224 | .153                                       | .153 | .153 | .088 | .088 | .088 | .028 | .028 | .028 |   |
| 1.0             | .256                  | .228 | .202 | .219 | .195 | .174 | .150                                       | .134 | .120 | .086 | .078 | .070 | .028 | .025 | .023 |   |
| 2.0             | .249                  | .204 | .167 | .213 | .176 | .144 | .146                                       | .122 | .101 | .084 | .071 | .059 | .027 | .023 | .019 |   |
| 3.0             | .241                  | .187 | .145 | .207 | .162 | .125 | .142                                       | .112 | .088 | .082 | .066 | .052 | .026 | .021 | .017 |   |
| 4.0             | .233                  | .175 | .130 | .200 | .151 | .113 | .138                                       | .105 | .079 | .080 | .062 | .047 | .026 | .020 | .015 |   |
| 5.0             | .225                  | .164 | .119 | .194 | .142 | .104 | .133                                       | .099 | .073 | .077 | .058 | .044 | .025 | .019 | .014 |   |
| 6.0             | .218                  | .156 | .112 | .187 | .135 | .098 | .129                                       | .095 | .069 | .075 | .056 | .041 | .024 | .018 | .014 |   |
| 7.0             | .211                  | .150 | .107 | .181 | .130 | .093 | .125                                       | .091 | .066 | .073 | .054 | .039 | .024 | .018 | .013 |   |
| 8.0             | .204                  | .144 | .102 | .176 | .125 | .089 | .122                                       | .088 | .063 | .071 | .052 | .038 | .023 | .017 | .012 |   |
| 9.0             | .198                  | .139 | .099 | .171 | .121 | .086 | .118                                       | .085 | .061 | .069 | .050 | .037 | .022 | .016 | .012 |   |
| 10.0            | .192                  | .135 | .097 | .166 | .117 | .084 | .115                                       | .082 | .060 | .067 | .049 | .036 | .022 | .016 | .012 |   |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 June 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.361  
Humidity:65.0%  
Test Distance:9.480m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

|                                                                               |     |                  |      |      |       |      |                |                  |      |      |      |
|-------------------------------------------------------------------------------|-----|------------------|------|------|-------|------|----------------|------------------|------|------|------|
| Test:U:220.1V I:0.1012A P:21.96W PF:0.9845 Freq:49.99Hz Lamp Flux:2892.3x1 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                                                                 |     | 15.3             | 16.7 | 15.7 | 17.1  | 17.5 | 14.5           | 16.0             | 14.9 | 16.4 | 16.8 |
| 3H                                                                            |     | 17.4             | 18.8 | 17.9 | 19.2  | 19.6 | 16.0           | 17.3             | 16.4 | 17.7 | 18.2 |
| 4H                                                                            |     | 18.6             | 19.8 | 19.0 | 20.3  | 20.7 | 16.5           | 17.8             | 17.0 | 18.2 | 18.7 |
| 6H                                                                            |     | 19.8             | 21.0 | 20.3 | 21.4  | 21.9 | 16.9           | 18.1             | 17.4 | 18.5 | 19.0 |
| 8H                                                                            |     | 20.5             | 21.6 | 20.9 | 22.1  | 22.6 | 17.0           | 18.2             | 17.5 | 18.6 | 19.1 |
| 12H                                                                           |     | 21.2             | 22.4 | 21.7 | 22.8  | 23.3 | 17.0           | 18.1             | 17.5 | 18.6 | 19.1 |
| 4H 2H                                                                         |     | 15.8             | 17.1 | 16.3 | 17.5  | 18.0 | 15.3           | 16.5             | 15.7 | 17.0 | 17.4 |
| 3H                                                                            |     | 18.2             | 19.3 | 18.7 | 19.8  | 20.3 | 16.9           | 18.0             | 17.4 | 18.5 | 19.0 |
| 4H                                                                            |     | 19.5             | 20.6 | 20.0 | 21.1  | 21.6 | 17.6           | 18.6             | 18.1 | 19.1 | 19.7 |
| 6H                                                                            |     | 21.0             | 21.9 | 21.5 | 22.4  | 23.0 | 18.1           | 19.1             | 18.7 | 19.6 | 20.1 |
| 8H                                                                            |     | 21.8             | 22.6 | 22.3 | 23.2  | 23.8 | 18.3           | 19.2             | 18.9 | 19.7 | 20.3 |
| 12H                                                                           |     | 22.7             | 23.5 | 23.3 | 24.0  | 24.7 | 18.4           | 19.2             | 19.0 | 19.7 | 20.4 |
| 8H 4H                                                                         |     | 19.8             | 20.7 | 20.4 | 21.2  | 21.8 | 18.2           | 19.1             | 18.8 | 19.6 | 20.2 |
| 6H                                                                            |     | 21.6             | 22.3 | 22.2 | 22.9  | 23.5 | 19.0           | 19.8             | 19.6 | 20.3 | 20.9 |
| 8H                                                                            |     | 22.6             | 23.2 | 23.2 | 23.8  | 24.5 | 19.3           | 20.0             | 19.9 | 20.6 | 21.2 |
| 12H                                                                           |     | 23.8             | 24.3 | 24.4 | 24.9  | 25.6 | 19.6           | 20.1             | 20.2 | 20.8 | 21.4 |
| 12H 4H                                                                        |     | 19.9             | 20.7 | 20.4 | 21.2  | 21.8 | 18.4           | 19.2             | 19.0 | 19.7 | 20.3 |
| 6H                                                                            |     | 21.7             | 22.3 | 22.3 | 22.9  | 23.6 | 19.4           | 20.0             | 20.0 | 20.6 | 21.2 |
| 8H                                                                            |     | 22.8             | 23.4 | 23.4 | 24.0  | 24.6 | 19.8           | 20.4             | 20.4 | 21.0 | 21.7 |
| Variations with the observer position at spacings:                            |     |                  |      |      |       |      |                |                  |      |      |      |
| S = 1.0H                                                                      |     | + 0.1 / - 0.1    |      |      |       |      | + 0.1 / - 0.2  |                  |      |      |      |
| 1.5H                                                                          |     | + 0.2 / - 0.3    |      |      |       |      | + 0.2 / - 0.2  |                  |      |      |      |
| 2.0H                                                                          |     | + 0.2 / - 0.3    |      |      |       |      | + 0.1 / - 0.2  |                  |      |      |      |

CIE Pub.117, 2892 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 3.7$ )

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 June 2019

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.361  
Humidity:65.0%  
Test Distance:9.480m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|                                                                               |       |                  |
|-------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.1V I:0.1012A P:21.96W PF:0.9845 Freq:49.99Hz Lamp Flux:2892.3x1 lm |       |                  |
| NAME:                                                                         | TYPE: | WEIGHT:          |
| SPEC.:                                                                        | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                | SUR.: | Shielding Angle: |

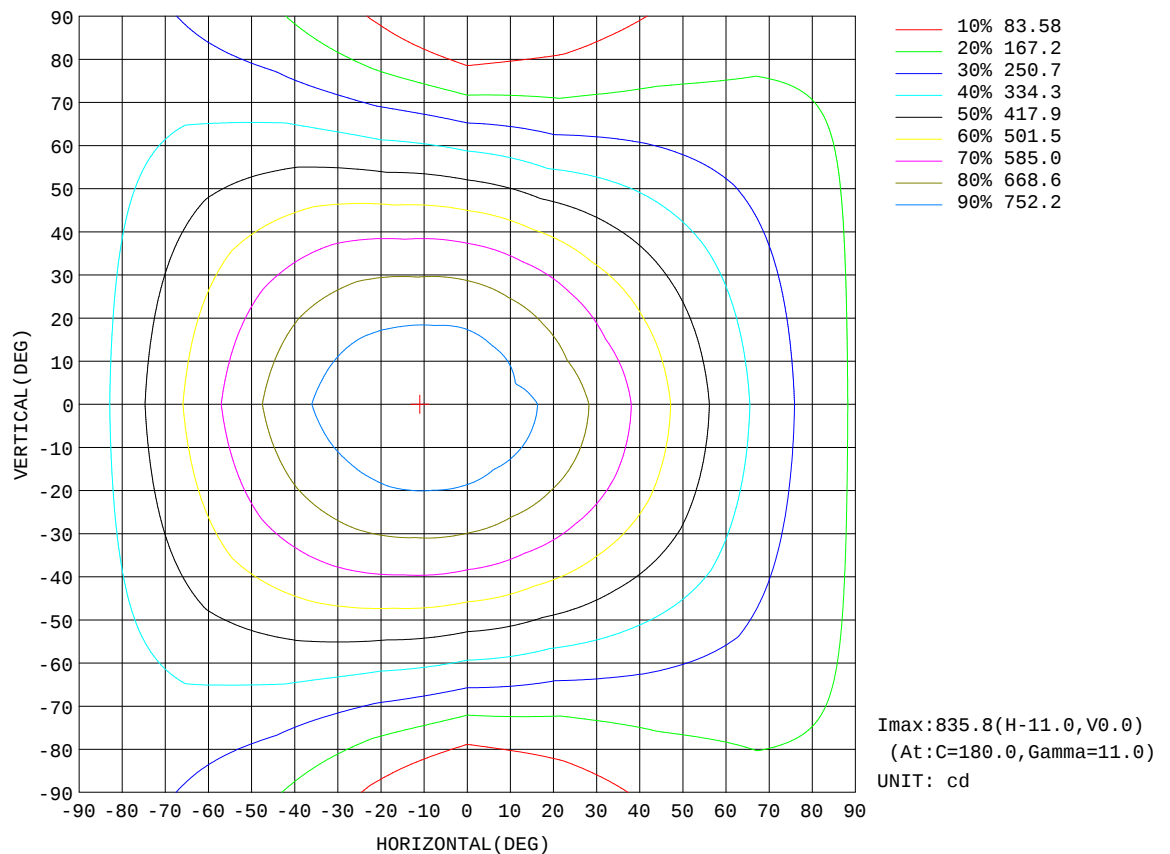
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 52                                                  | 40  | 33        | 51  | 40  | 33  | 50  | 39            | 32  | 26     |
| 0.80                             | 61                                                  | 49  | 41        | 60  | 48  | 41  | 58  | 47            | 40  | 33     |
| 1.00                             | 69                                                  | 57  | 49        | 68  | 56  | 49  | 65  | 57            | 48  | 40     |
| 1.25                             | 76                                                  | 64  | 56        | 74  | 63  | 56  | 71  | 62            | 55  | 46     |
| 1.50                             | 81                                                  | 70  | 62        | 79  | 69  | 61  | 75  | 66            | 60  | 51     |
| 2.00                             | 88                                                  | 78  | 71        | 86  | 77  | 69  | 81  | 74            | 67  | 58     |
| 2.50                             | 93                                                  | 83  | 76        | 90  | 81  | 75  | 85  | 78            | 72  | 62     |
| 3.00                             | 96                                                  | 88  | 81        | 93  | 86  | 79  | 88  | 82            | 76  | 65     |
| 4.00                             | 101                                                 | 93  | 88        | 97  | 91  | 86  | 92  | 86            | 82  | 70     |
| 5.00                             | 103                                                 | 97  | 92        | 100 | 95  | 90  | 94  | 90            | 86  | 73     |
| 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:25.3DEG  
Operators:DAMIN  
Test Date:12 June 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.361  
Humidity:65.0%  
Test Distance:9.480m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

|                                                                               |       |                  |
|-------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.1V I:0.1012A P:21.96W PF:0.9845 Freq:49.99Hz Lamp Flux:2892.3x1 lm |       |                  |
| NAME:                                                                         | TYPE: | WEIGHT:          |
| SPEC.:                                                                        | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                | SUR.: | Shielding Angle: |

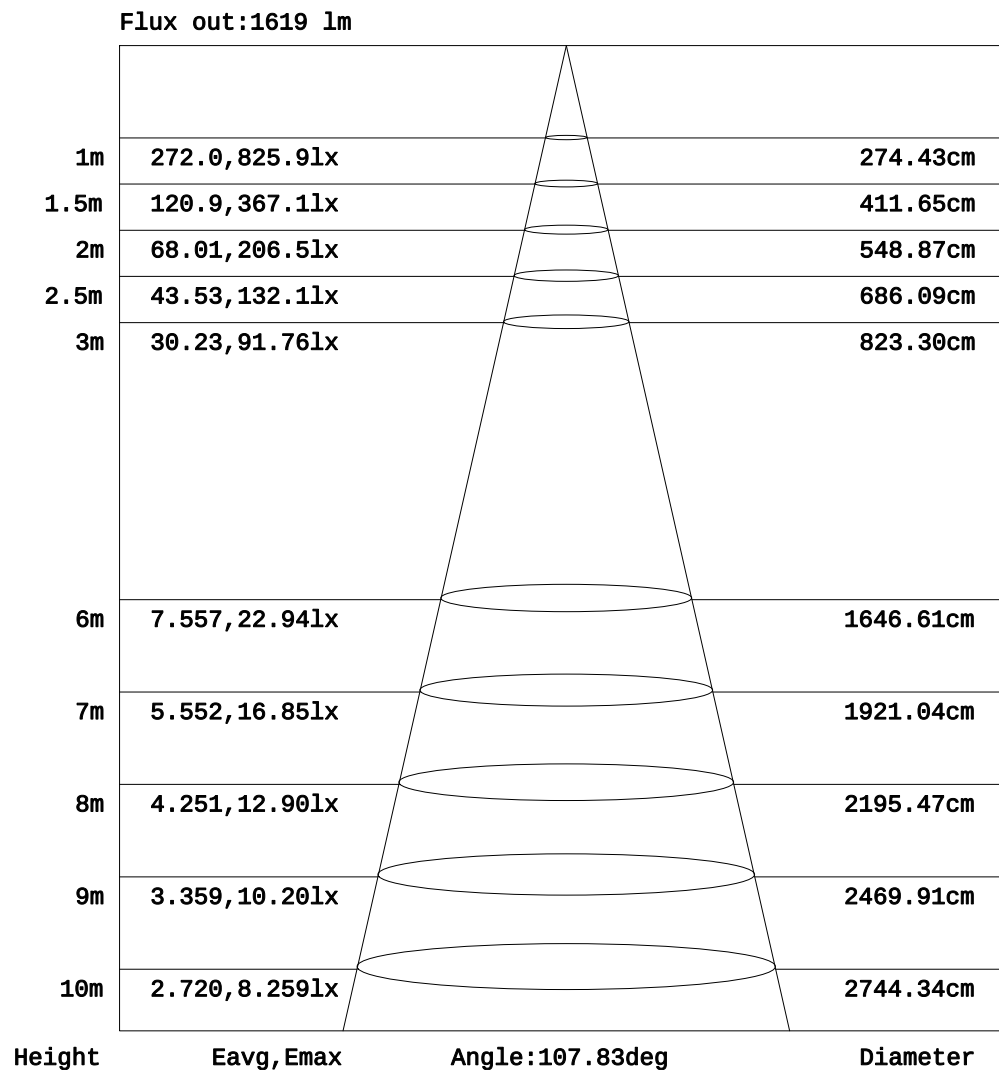


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 June 2019

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.361  
Humidity:65.0%  
Test Distance:9.480m [K=1.0000]  
Remarks:

### AAI Figure

|                                                                               |       |                  |
|-------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.1V I:0.1012A P:21.96W PF:0.9845 Freq:49.99Hz Lamp Flux:2892.3x1 lm |       |                  |
| NAME:                                                                         | TYPE: | WEIGHT:          |
| SPEC.:                                                                        | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                | SUR.: | Shielding Angle: |



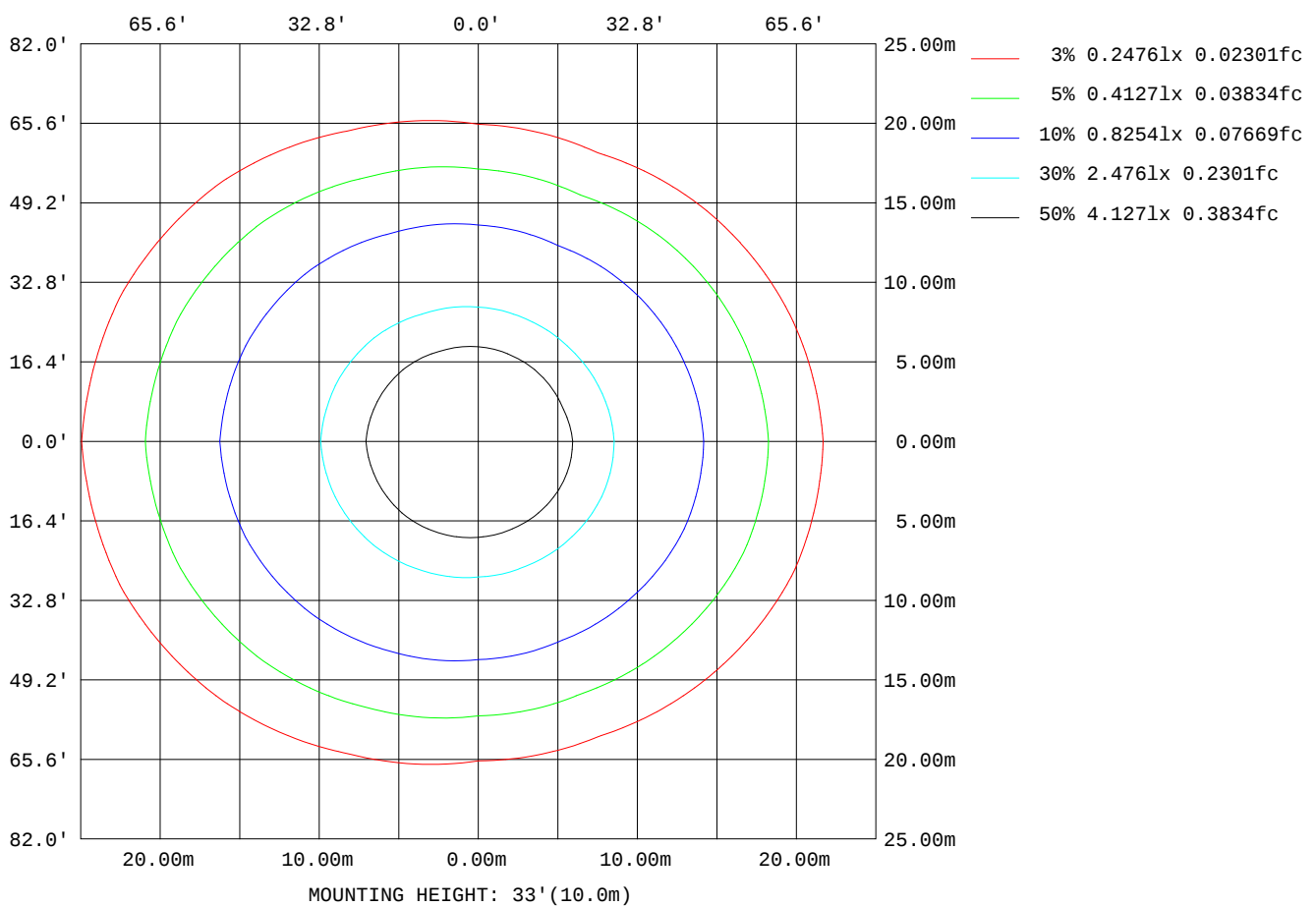
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 12 June 2019

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE G0-2000A\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 9.480m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

|                                                                               |       |                  |
|-------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.1V I:0.1012A P:21.96W PF:0.9845 Freq:49.99Hz Lamp Flux:2892.3x1 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: 25.3DEG  
Operators: DAMIN  
Test Date: 12 June 2019

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-2000A\_V1 SYSTEM V2.0.361  
Humidity: 65.0%  
Test Distance: 9.480m [K=1.0000]  
Remarks:

### LED Avg.L Report

|                                                                               |       |                  |
|-------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.1V I:0.1012A P:21.96W PF:0.9845 Freq:49.99Hz Lamp Flux:2892.3x1 lm |       |                  |
| NAME:                                                                         | TYPE: | WEIGHT:          |
| SPEC.:                                                                        | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                | SUR.: | Shielding Angle: |

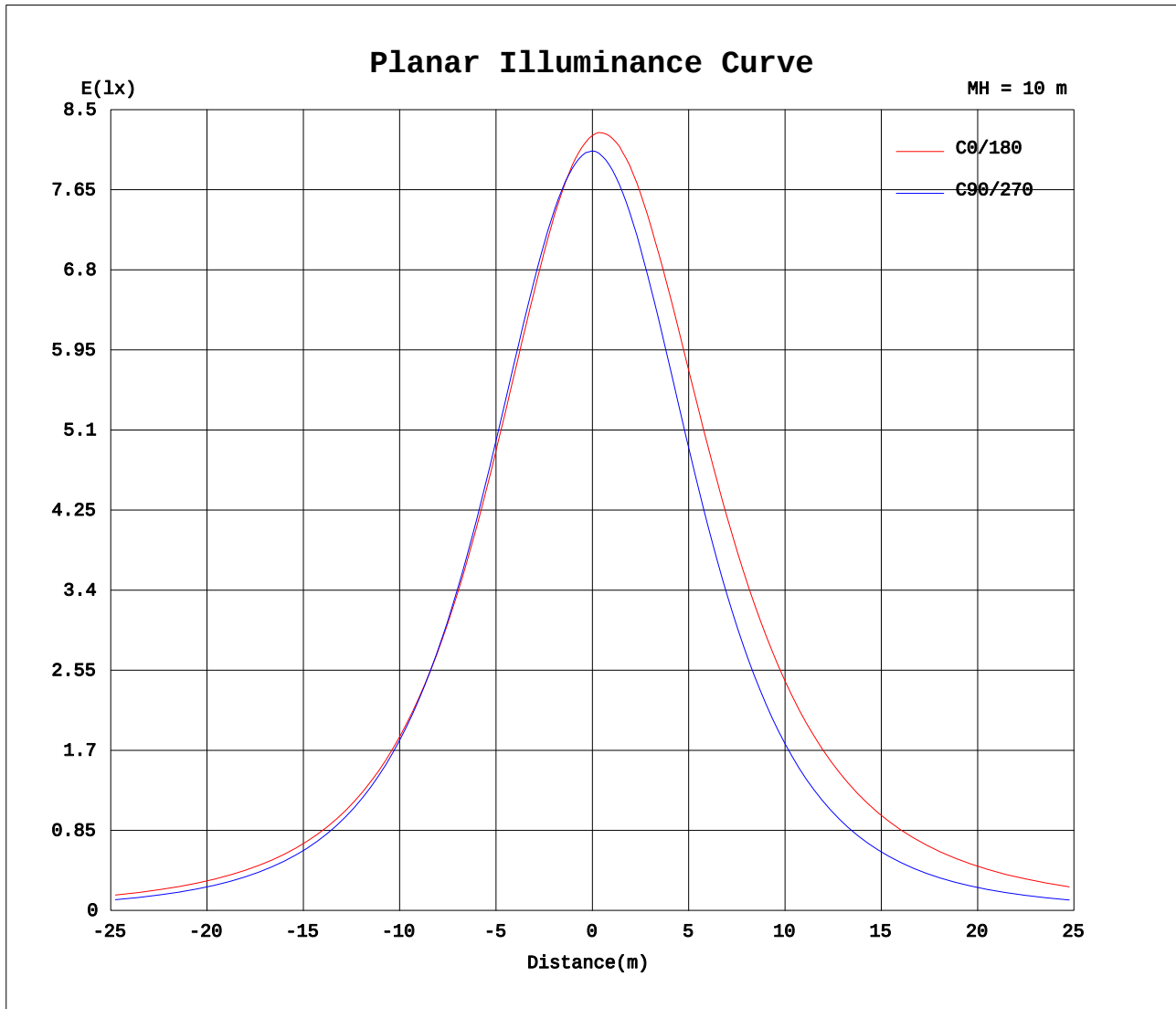
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 10041 |
| L_0~180(75)av  | 12991 |
| L_0~180(85)av  | 28997 |
| L_90~270(65)av | 6080  |
| L_90~270(75)av | 4941  |
| L_90~270(85)av | 2543  |
| L_45(65)av     | 8173  |
| L_45(75)av     | 9697  |
| L_45(85)av     | 19658 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 June 2019

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.361  
Humidity:65.0%  
Test Distance:9.480m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 12 June 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE G0-2000A\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 9.480m [K=1.0000]  
 Remarks:

### LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                               |       |                  |
|-------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.1V I:0.1012A P:21.96W PF:0.9845 Freq:49.99Hz Lamp Flux:2892.3x1 lm |       |                  |
| NAME:                                                                         | TYPE: | WEIGHT:          |
| SPEC.:                                                                        | DIM.: | SERIAL No.:      |
| MFR.: EVERFINE                                                                | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C(°) \ γ (°) | 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            | 823  | 818  | 807  | 803  | 806  | 804   | 803  | 801   | 823  | 818   | 807  | 803   | 806  | 804   | 803  | 801   |  |  |  |
| 5            | 807  | 804  | 799  | 797  | 802  | 805   | 809  | 810   | 832  | 825   | 806  | 802   | 801  | 794   | 791  | 785   |  |  |  |
| 10           | 786  | 784  | 784  | 782  | 791  | 798   | 807  | 812   | 835  | 824   | 799  | 793   | 787  | 776   | 770  | 763   |  |  |  |
| 15           | 760  | 758  | 758  | 760  | 771  | 783   | 798  | 808   | 833  | 812   | 788  | 775   | 765  | 751   | 744  | 736   |  |  |  |
| 20           | 729  | 728  | 727  | 730  | 744  | 760   | 782  | 797   | 823  | 794   | 771  | 750   | 736  | 719   | 711  | 706   |  |  |  |
| 25           | 693  | 692  | 690  | 693  | 709  | 730   | 758  | 780   | 807  | 778   | 749  | 718   | 699  | 680   | 672  | 670   |  |  |  |
| 30           | 654  | 652  | 648  | 650  | 668  | 694   | 728  | 756   | 786  | 757   | 722  | 681   | 656  | 636   | 628  | 627   |  |  |  |
| 35           | 612  | 609  | 602  | 602  | 620  | 651   | 693  | 727   | 759  | 727   | 688  | 637   | 609  | 587   | 581  | 586   |  |  |  |
| 40           | 568  | 564  | 553  | 550  | 568  | 603   | 652  | 693   | 726  | 693   | 648  | 590   | 557  | 534   | 529  | 544   |  |  |  |
| 45           | 522  | 517  | 501  | 495  | 511  | 552   | 607  | 654   | 689  | 654   | 603  | 538   | 501  | 476   | 480  | 498   |  |  |  |
| 50           | 475  | 469  | 449  | 437  | 452  | 496   | 558  | 612   | 648  | 609   | 556  | 484   | 442  | 417   | 431  | 451   |  |  |  |
| 55           | 429  | 421  | 396  | 378  | 390  | 439   | 507  | 566   | 604  | 565   | 506  | 428   | 381  | 355   | 380  | 404   |  |  |  |
| 60           | 383  | 374  | 345  | 319  | 326  | 379   | 454  | 519   | 558  | 519   | 455  | 371   | 318  | 298   | 329  | 358   |  |  |  |
| 65           | 339  | 329  | 295  | 261  | 260  | 319   | 402  | 471   | 510  | 472   | 404  | 313   | 253  | 243   | 281  | 314   |  |  |  |
| 70           | 297  | 286  | 248  | 205  | 195  | 260   | 351  | 424   | 463  | 424   | 354  | 257   | 189  | 190   | 235  | 272   |  |  |  |
| 75           | 257  | 246  | 205  | 153  | 131  | 203   | 302  | 377   | 415  | 378   | 304  | 204   | 125  | 141   | 193  | 233   |  |  |  |
| 80           | 221  | 209  | 166  | 108  | 70.9 | 152   | 256  | 332   | 367  | 332   | 257  | 155   | 67.1 | 97.2  | 155  | 197   |  |  |  |
| 85           | 187  | 175  | 133  | 72.2 | 23.1 | 108   | 214  | 290   | 318  | 290   | 217  | 113   | 21.2 | 62.5  | 122  | 165   |  |  |  |
| 90           | 157  | 145  | 103  | 45.5 | 1.32 | 74.5  | 176  | 251   | 279  | 251   | 180  | 80.3  | 1.37 | 34.7  | 91.9 | 134   |  |  |  |
| 95           | 130  | 118  | 79.4 | 27.9 | 0.83 | 50.2  | 144  | 214   | 242  | 215   | 148  | 54.1  | 0.89 | 21.7  | 71.9 | 110   |  |  |  |
| 100          | 106  | 95.3 | 59.2 | 17.1 | 0.70 | 34.1  | 116  | 181   | 207  | 182   | 120  | 37.7  | 0.94 | 12.7  | 54.0 | 89.7  |  |  |  |
| 105          | 85.5 | 75.7 | 44.0 | 10.5 | 0.80 | 24.1  | 92.7 | 152   | 176  | 152   | 96.5 | 27.5  | 1.08 | 7.04  | 38.9 | 71.0  |  |  |  |
| 110          | 67.9 | 58.5 | 31.3 | 6.76 | 0.92 | 17.8  | 73.6 | 125   | 147  | 126   | 76.7 | 20.7  | 1.23 | 4.83  | 25.5 | 55.4  |  |  |  |
| 115          | 53.2 | 45.4 | 21.2 | 4.86 | 1.10 | 13.8  | 58.2 | 103   | 121  | 104   | 60.7 | 16.5  | 1.41 | 3.73  | 16.7 | 42.7  |  |  |  |
| 120          | 41.1 | 34.5 | 15.3 | 3.87 | 1.28 | 11.2  | 45.9 | 82.8  | 98.9 | 84.1  | 48.1 | 13.6  | 1.58 | 3.14  | 11.2 | 32.1  |  |  |  |
| 125          | 31.4 | 25.8 | 10.9 | 3.36 | 1.48 | 9.43  | 36.3 | 66.2  | 79.4 | 67.3  | 38.2 | 11.6  | 1.75 | 2.94  | 8.39 | 21.8  |  |  |  |
| 130          | 23.7 | 17.3 | 8.29 | 3.07 | 1.67 | 8.07  | 28.6 | 52.3  | 62.9 | 53.1  | 30.4 | 10.2  | 1.94 | 2.80  | 6.59 | 13.9  |  |  |  |
| 135          | 17.7 | 12.0 | 6.48 | 2.91 | 1.90 | 7.00  | 22.5 | 40.8  | 49.2 | 41.6  | 24.1 | 8.46  | 2.12 | 2.82  | 5.34 | 10.1  |  |  |  |
| 140          | 13.2 | 8.95 | 5.26 | 2.94 | 2.07 | 6.16  | 17.8 | 31.4  | 37.8 | 31.9  | 19.1 | 7.24  | 2.28 | 2.91  | 4.62 | 7.02  |  |  |  |
| 145          | 9.84 | 6.79 | 4.52 | 3.01 | 2.27 | 5.59  | 14.0 | 23.8  | 28.2 | 24.2  | 15.2 | 6.69  | 2.43 | 3.01  | 4.26 | 6.16  |  |  |  |
| 150          | 7.53 | 5.58 | 4.07 | 3.20 | 2.43 | 5.12  | 10.8 | 17.8  | 20.8 | 18.1  | 11.9 | 6.42  | 2.59 | 3.12  | 3.87 | 5.11  |  |  |  |
| 155          | 5.86 | 4.54 | 3.98 | 3.31 | 2.59 | 4.62  | 8.39 | 13.1  | 15.1 | 13.3  | 9.36 | 5.96  | 2.72 | 3.21  | 3.74 | 4.28  |  |  |  |
| 160          | 4.74 | 3.92 | 3.85 | 3.42 | 2.71 | 3.81  | 6.81 | 9.51  | 10.6 | 9.48  | 7.52 | 5.28  | 2.82 | 3.27  | 3.61 | 3.80  |  |  |  |
| 165          | 3.99 | 3.91 | 3.82 | 3.25 | 2.83 | 2.79  | 5.51 | 7.05  | 6.12 | 7.21  | 6.37 | 3.79  | 2.91 | 2.99  | 3.56 | 3.55  |  |  |  |
| 170          | 3.56 | 3.94 | 3.85 | 3.24 | 2.92 | 2.91  | 3.86 | 5.36  | 4.52 | 5.67  | 5.05 | 3.66  | 2.99 | 3.01  | 3.47 | 3.48  |  |  |  |
| 175          | 3.07 | 3.47 | 3.54 | 3.37 | 2.99 | 2.99  | 3.03 | 3.05  | 3.49 | 3.45  | 3.81 | 3.61  | 3.02 | 3.04  | 3.07 | 3.10  |  |  |  |
| 180          | 3.05 | 3.45 | 3.69 | 3.54 | 3.02 | 3.04  | 3.05 | 3.08  | 3.07 | 3.46  | 3.73 | 3.51  | 3.05 | 3.04  | 3.04 | 3.08  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 June 2019

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.361  
Humidity:65.0%  
Test Distance:9.480m [K=1.0000]  
Remarks: