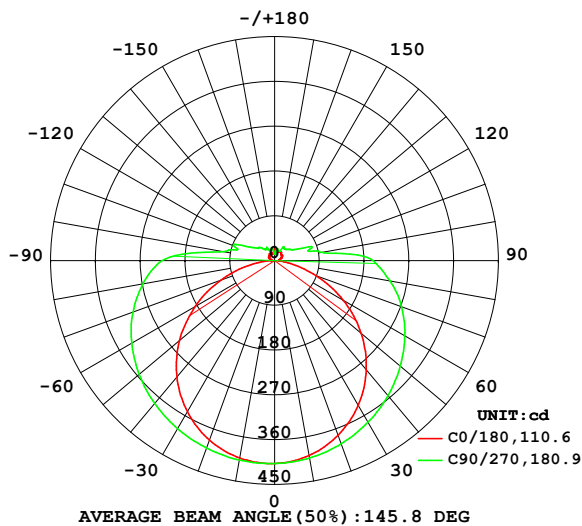


## LUMINAIRE PHOTOMETRIC TEST REPORT

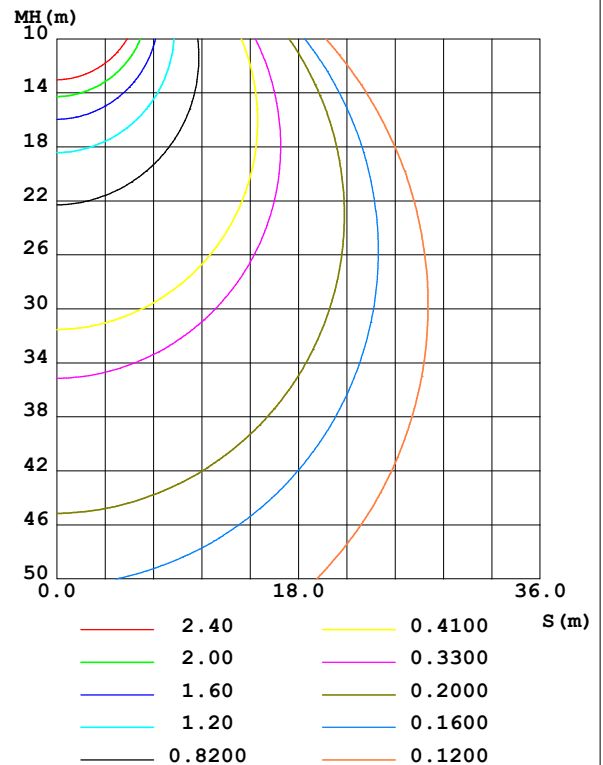
|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.10V I:0.2176A P:24.582W PF:0.9406 Freq:59.98Hz<br>Lamp Flux:1817.04x1 lm |       |                  |
| NAME: WS24-033B-BN 24W 35K                                                          | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.: 1    |
| MFR.: EVERFINE                                                                      | SUR.: | Shielding Angle: |

| DATA OF LAMP     |         | PHOTOMETRIC DATA      |         |                   |          | Eff: 73.92 lm/W |
|------------------|---------|-----------------------|---------|-------------------|----------|-----------------|
| MODEL            | 3500K   | I <sub>max</sub> (cd) | 408.0   | S/MH(C0/180)      | 1.28     |                 |
| NOMINAL POWER(W) | 24      | LOR(%)                | 100.0   | S/MH(C90/270)     | 1.44     |                 |
| RATED VOLTAGE(V) | 120     | TOTAL FLUX(lm)        | 1817.0  | η UP,DN(C0-180)   | 6.9,40.9 |                 |
| NOMINAL FLUX(lm) | 1817.04 | CIE CLASS             | SEMI-D. | η UP,DN(C180-360) | 7.4,44.8 |                 |
| LAMPS INSIDE     | 1       | η up(%)               | 14.3    | CIBSE SHR NOM     | 1.50     |                 |
| TEST VOLTAGE(V)  | 120     | η down(%)             | 85.7    | CIBSE SHR MAX     | 1.55     |                 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:10 February 2026

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity:65.0%  
Test Distance:7.380m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C90   | C180  | C270  |  |  |  |  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|--|--|--|--|----------|-------------|--------------|------------|
| 10       | 397.8                 | 402.9 | 402.9 | 406.9 |  |  |  |  | 0- 10    | 38.68       | 38.68        | 2.13,2.13  |
| 20       | 373.5                 | 391.7 | 383.7 | 400.8 |  |  |  |  | 10- 20   | 112.0       | 150.7        | 8.29,8.29  |
| 30       | 336.0                 | 375.2 | 350.8 | 390.2 |  |  |  |  | 20- 30   | 173.7       | 324.3        | 17.8,17.8  |
| 40       | 286.7                 | 354.5 | 305.8 | 374.8 |  |  |  |  | 30- 40   | 217.8       | 542.1        | 29.8,29.8  |
| 50       | 227.3                 | 329.8 | 250.0 | 355.5 |  |  |  |  | 40- 50   | 240.5       | 782.6        | 43.1,43.1  |
| 60       | 159.4                 | 302.1 | 184.2 | 331.7 |  |  |  |  | 50- 60   | 239.9       | 1023         | 56.3,56.3  |
| 70       | 88.49                 | 271.6 | 114.8 | 303.0 |  |  |  |  | 60- 70   | 217.7       | 1240         | 68.3,68.3  |
| 80       | 27.88                 | 236.1 | 48.85 | 268.7 |  |  |  |  | 70- 80   | 179.1       | 1419         | 78.1,78.1  |
| 90       | 7.663                 | 198.2 | 8.524 | 226.5 |  |  |  |  | 80- 90   | 137.2       | 1557         | 85.7,85.7  |
| 100      | 9.990                 | 96.70 | 8.153 | 105.3 |  |  |  |  | 90-100   | 91.50       | 1648         | 90.7,90.7  |
| 110      | 13.31                 | 80.24 | 10.81 | 88.48 |  |  |  |  | 100-110  | 50.26       | 1698         | 93.5,93.5  |
| 120      | 16.79                 | 44.37 | 14.21 | 53.91 |  |  |  |  | 110-120  | 40.18       | 1738         | 95.7,95.7  |
| 130      | 18.33                 | 35.58 | 14.73 | 41.67 |  |  |  |  | 120-130  | 26.35       | 1765         | 97.1,97.1  |
| 140      | 20.14                 | 31.25 | 16.79 | 30.33 |  |  |  |  | 130-140  | 19.85       | 1785         | 98.2,98.2  |
| 150      | 20.15                 | 22.81 | 16.83 | 28.22 |  |  |  |  | 140-150  | 15.46       | 1800         | 99.1,99.1  |
| 160      | 18.57                 | 21.20 | 14.96 | 23.40 |  |  |  |  | 150-160  | 9.415       | 1810         | 99.6,99.6  |
| 170      | 19.44                 | 20.75 | 16.36 | 25.46 |  |  |  |  | 160-170  | 5.688       | 1815         | 99.9,99.9  |
| 180      | 22.71                 | 14.81 | 22.69 | 14.77 |  |  |  |  | 170-180  | 1.817       | 1817         | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |  |  |  |  |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 660.98 lm

%lum = 36.4%

%lamp = 36.4%

Conical surface Flux(120deg): 1022.5 lm

%lum = 56.3%

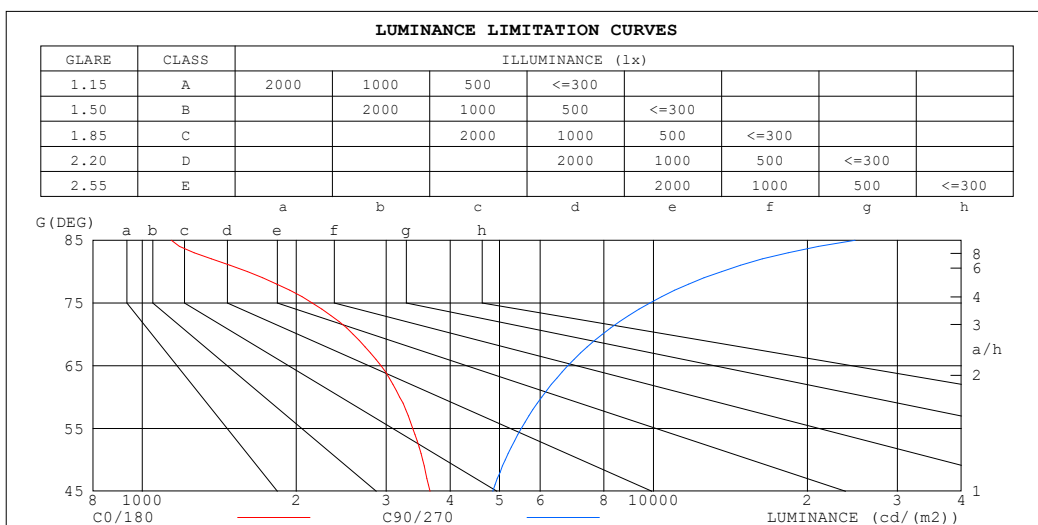
%lamp = 56.3%

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:10 February 2026

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
 Humidity:65.0%  
 Test Distance:7.380m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.10V I:0.2176A P:24.582W PF:0.9406 Freq:59.98Hz<br>Lamp Flux:1817.04x1 lm |       |                  |
| NAME: WS24-033B-BN 24W 35K                                                          | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.: 1    |
| MFR.: EVERFINE                                                                      | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 1140   | 24817   |
| 80                | 1605   | 13595   |
| 75                | 2150   | 9843    |
| 70                | 2587   | 7941    |
| 65                | 2929   | 6798    |
| 60                | 3189   | 6042    |
| 55                | 3382   | 5515    |
| 50                | 3537   | 5130    |
| 45                | 3652   | 4845    |

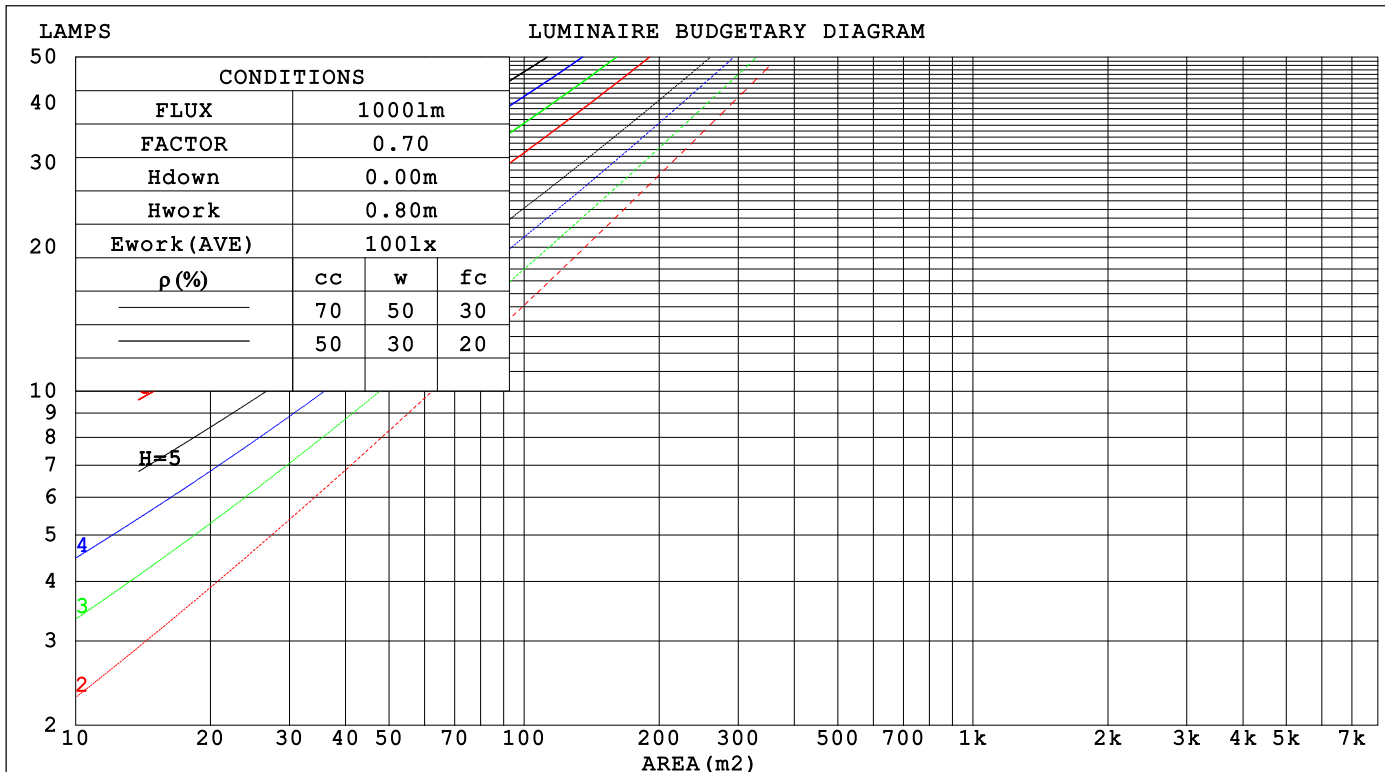
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:10 February 2026

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity:65.0%  
Test Distance:7.380m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.10V I:0.2176A P:24.582W PF:0.9406 Freq:59.98Hz<br>Lamp Flux:1817.04x1 lm |       |                  |
| NAME: WS24-033B-BN 24W 35K                                                          | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.: 1    |
| 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                      Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |
| 0.0  | 1.16                                                                       | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.03 | 1.03 | 1.03 | .96 | .96 | .96 | .89 | .89 | .89 | .86 |
| 1.0  | .96                                                                        | .91  | .86  | .93  | .88  | .83  | .86  | .82  | .78  | .79 | .76 | .73 | .73 | .71 | .68 | .65 |
| 2.0  | .82                                                                        | .74  | .68  | .79  | .72  | .66  | .73  | .67  | .62  | .68 | .63 | .58 | .63 | .59 | .55 | .52 |
| 3.0  | .71                                                                        | .62  | .55  | .69  | .60  | .54  | .63  | .56  | .51  | .59 | .53 | .48 | .54 | .50 | .45 | .42 |
| 4.0  | .63                                                                        | .53  | .46  | .60  | .51  | .45  | .56  | .48  | .42  | .52 | .45 | .40 | .48 | .43 | .38 | .35 |
| 5.0  | .56                                                                        | .46  | .39  | .54  | .45  | .38  | .50  | .42  | .36  | .46 | .40 | .34 | .43 | .37 | .33 | .30 |
| 6.0  | .50                                                                        | .40  | .33  | .48  | .39  | .33  | .45  | .37  | .31  | .42 | .35 | .30 | .39 | .33 | .29 | .26 |
| 7.0  | .45                                                                        | .36  | .29  | .43  | .35  | .29  | .40  | .33  | .27  | .38 | .31 | .26 | .35 | .29 | .25 | .23 |
| 8.0  | .41                                                                        | .32  | .26  | .39  | .31  | .25  | .37  | .30  | .24  | .34 | .28 | .23 | .32 | .27 | .22 | .20 |
| 9.0  | .37                                                                        | .29  | .23  | .36  | .28  | .23  | .34  | .27  | .22  | .32 | .25 | .21 | .30 | .24 | .20 | .18 |
| 10.0 | .34                                                                        | .26  | .21  | .33  | .26  | .20  | .31  | .24  | .20  | .29 | .23 | .19 | .28 | .22 | .18 | .16 |



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:10 February 2026

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity:65.0%  
Test Distance:7.380m [K=1.0000]  
Remarks:

### WEC AND CCEC

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.10V I:0.2176A P:24.582W PF:0.9406 Freq:59.98Hz<br>Lamp Flux:1817.04x1 lm |       |                  |
| NAME: WS24-033B-BN 24W 35K                                                          | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.: 1    |
| 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  | .389                  | .221 | .070 | .377 | .215 | .068 | .355                            | .204 | .065 | .335 | .193 | .062 | .317 | .184 | .059 |   |  |
| 2.0  | .337                  | .185 | .057 | .326 | .180 | .055 | .307                            | .170 | .053 | .289 | .162 | .051 | .272 | .154 | .048 |   |  |
| 3.0  | .299                  | .159 | .048 | .290 | .155 | .047 | .272                            | .147 | .045 | .256 | .140 | .043 | .240 | .133 | .041 |   |  |
| 4.0  | .269                  | .140 | .041 | .261 | .136 | .040 | .245                            | .130 | .039 | .230 | .123 | .037 | .216 | .117 | .036 |   |  |
| 5.0  | .245                  | .125 | .036 | .237 | .122 | .035 | .223                            | .116 | .034 | .209 | .110 | .033 | .196 | .105 | .032 |   |  |
| 6.0  | .224                  | .112 | .032 | .217 | .110 | .032 | .204                            | .105 | .030 | .192 | .100 | .029 | .180 | .095 | .028 |   |  |
| 7.0  | .207                  | .102 | .029 | .200 | .100 | .028 | .188                            | .095 | .027 | .177 | .091 | .026 | .166 | .086 | .025 |   |  |
| 8.0  | .192                  | .094 | .026 | .186 | .091 | .026 | .175                            | .087 | .025 | .164 | .083 | .024 | .155 | .079 | .023 |   |  |
| 9.0  | .178                  | .086 | .024 | .173 | .084 | .024 | .163                            | .081 | .023 | .154 | .077 | .022 | .145 | .073 | .021 |   |  |
| 10.0 | .167                  | .080 | .022 | .162 | .078 | .022 | .153                            | .075 | .021 | .144 | .072 | .020 | .136 | .068 | .020 |   |  |

| 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  | .300                  | .300 | .300 | .256 | .256 | .256 | .175                                        | .175 | .175 | .100 | .100 | .100 | .032 | .032 | .032 |   |  |
| 1.0  | .296                  | .266 | .238 | .253 | .228 | .205 | .173                                        | .157 | .142 | .100 | .091 | .082 | .032 | .029 | .027 |   |  |
| 2.0  | .289                  | .243 | .203 | .248 | .209 | .176 | .170                                        | .144 | .123 | .098 | .084 | .072 | .031 | .027 | .023 |   |  |
| 3.0  | .282                  | .226 | .182 | .241 | .195 | .157 | .166                                        | .135 | .110 | .096 | .079 | .065 | .031 | .026 | .021 |   |  |
| 4.0  | .274                  | .213 | .167 | .235 | .184 | .145 | .162                                        | .129 | .102 | .093 | .075 | .061 | .030 | .025 | .020 |   |  |
| 5.0  | .266                  | .204 | .157 | .228 | .176 | .137 | .157                                        | .123 | .097 | .091 | .072 | .057 | .029 | .024 | .019 |   |  |
| 6.0  | .259                  | .196 | .150 | .222 | .169 | .131 | .153                                        | .119 | .093 | .089 | .070 | .055 | .029 | .023 | .018 |   |  |
| 7.0  | .251                  | .189 | .145 | .216 | .164 | .126 | .149                                        | .115 | .090 | .087 | .068 | .053 | .028 | .022 | .018 |   |  |
| 8.0  | .245                  | .183 | .141 | .211 | .159 | .123 | .146                                        | .112 | .087 | .085 | .066 | .052 | .027 | .022 | .017 |   |  |
| 9.0  | .238                  | .178 | .138 | .205 | .155 | .120 | .142                                        | .109 | .086 | .083 | .064 | .051 | .027 | .021 | .017 |   |  |
| 10.0 | .232                  | .174 | .136 | .200 | .151 | .118 | .139                                        | .106 | .084 | .081 | .063 | .050 | .026 | .021 | .017 |   |  |

C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:10 February 2026

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459

Humidity:65.0%

Test Distance:7.380m [K=1.0000]

Remarks:

UGR(Unified Glare Rating) Table

|                                                                                     |                  |      |      |      |      |                |      |                  |      |      |
|-------------------------------------------------------------------------------------|------------------|------|------|------|------|----------------|------|------------------|------|------|
| Test:U:120.10V I:0.2176A P:24.582W PF:0.9406 Freq:59.98Hz<br>Lamp Flux:1817.04x1 lm |                  |      |      |      |      |                |      |                  |      |      |
| NAME: WS24-033B-BN 24W 35K                                                          |                  |      |      |      |      | TYPE:          |      | WEIGHT:          |      |      |
| SPEC.:                                                                              |                  |      |      |      |      | DIM.:          |      | SERIAL No.: 1    |      |      |
| 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                                                                       | 13.8             | 15.2 | 14.3 | 15.7 | 16.2 | 16.0           | 17.4 | 16.5             | 17.9 | 18.4 |
| 3H                                                                                  | 15.1             | 16.5 | 15.6 | 16.9 | 17.5 | 18.8           | 20.1 | 19.3             | 20.6 | 21.1 |
| 4H                                                                                  | 15.6             | 16.9 | 16.1 | 17.4 | 17.9 | 20.3           | 21.6 | 20.8             | 22.1 | 22.6 |
| 6H                                                                                  | 15.9             | 17.1 | 16.4 | 17.6 | 18.2 | 22.0           | 23.2 | 22.6             | 23.7 | 24.3 |
| 8H                                                                                  | 16.0             | 17.1 | 16.5 | 17.6 | 18.2 | 23.0           | 24.1 | 23.5             | 24.7 | 25.3 |
| 12H                                                                                 | 16.0             | 17.1 | 16.5 | 17.6 | 18.2 | 24.1           | 25.2 | 24.6             | 25.7 | 26.3 |
| 4H 2H                                                                               | 14.9             | 16.1 | 15.4 | 16.6 | 17.2 | 16.5           | 17.8 | 17.0             | 18.3 | 18.8 |
| 3H                                                                                  | 16.5             | 17.6 | 17.1 | 18.2 | 18.8 | 19.4           | 20.6 | 20.0             | 21.1 | 21.7 |
| 4H                                                                                  | 17.2             | 18.2 | 17.8 | 18.8 | 19.4 | 21.2           | 22.2 | 21.7             | 22.7 | 23.4 |
| 6H                                                                                  | 17.7             | 18.6 | 18.3 | 19.2 | 19.9 | 23.1           | 24.0 | 23.7             | 24.6 | 25.3 |
| 8H                                                                                  | 17.9             | 18.7 | 18.5 | 19.3 | 20.0 | 24.2           | 25.0 | 24.8             | 25.6 | 26.3 |
| 12H                                                                                 | 17.9             | 18.7 | 18.6 | 19.4 | 20.1 | 25.4           | 26.2 | 26.1             | 26.8 | 27.6 |
| 8H 4H                                                                               | 18.2             | 19.1 | 18.8 | 19.7 | 20.4 | 21.4           | 22.3 | 22.0             | 22.9 | 23.6 |
| 6H                                                                                  | 19.1             | 19.8 | 19.7 | 20.4 | 21.2 | 23.6           | 24.3 | 24.2             | 25.0 | 25.7 |
| 8H                                                                                  | 19.4             | 20.1 | 20.1 | 20.8 | 21.5 | 24.9           | 25.5 | 25.5             | 26.2 | 26.9 |
| 12H                                                                                 | 19.7             | 20.3 | 20.4 | 21.0 | 21.8 | 26.4           | 27.0 | 27.1             | 27.6 | 28.4 |
| 12H 4H                                                                              | 18.5             | 19.3 | 19.2 | 20.0 | 20.7 | 21.4           | 22.2 | 22.0             | 22.8 | 23.5 |
| 6H                                                                                  | 19.6             | 20.3 | 20.3 | 20.9 | 21.7 | 23.7           | 24.3 | 24.3             | 25.0 | 25.7 |
| 8H                                                                                  | 20.2             | 20.7 | 20.9 | 21.4 | 22.2 | 25.0           | 25.6 | 25.7             | 26.3 | 27.1 |
| Variations with the observer position at spacings(CIE Pub.117):                     |                  |      |      |      |      |                |      |                  |      |      |
| S = 1.0H                                                                            | + 0.1 / - 0.2    |      |      |      |      | + 0.1 / - 0.1  |      |                  |      |      |
| 1.5H                                                                                | + 0.2 / - 0.3    |      |      |      |      | + 0.2 / - 0.2  |      |                  |      |      |
| 2.0H                                                                                | + 0.2 / - 0.5    |      |      |      |      | + 0.2 / - 0.3  |      |                  |      |      |

CIE Pub.117, 1817 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.1)  
Area: 0.1 m2

C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:10 February 2026

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459

Humidity:65.0%

Test Distance:7.380m [K=1.0000]

Remarks:

### UTILIZATION FACTORS TABLE

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.10V I:0.2176A P:24.582W PF:0.9406 Freq:59.98Hz<br>Lamp Flux:1817.04x1 lm |       |                  |
| NAME: WS24-033B-BN 24W 35K                                                          | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.: 1    |
| MFR.: EVERFINE                                                                      | SUR.: | Shielding Angle: |

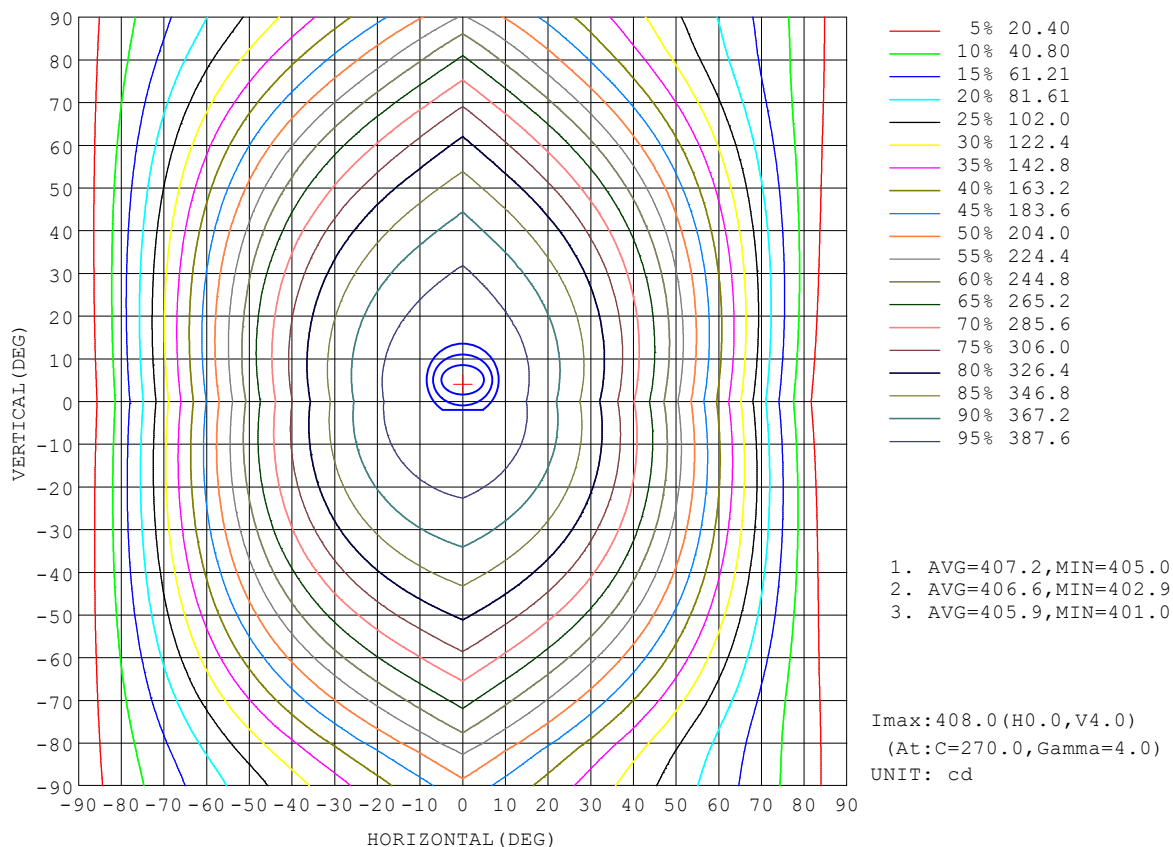
| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 49                                                   | 36  | 29        | 48  | 36  | 29  | 46  | 35            | 28  | 21     |
| 0.80                             | 58                                                   | 45  | 37        | 56  | 44  | 36  | 54  | 43            | 36  | 28     |
| 1.00                             | 66                                                   | 53  | 44        | 64  | 52  | 44  | 61  | 53            | 43  | 34     |
| 1.25                             | 73                                                   | 60  | 52        | 70  | 59  | 51  | 66  | 57            | 49  | 40     |
| 1.50                             | 78                                                   | 66  | 57        | 75  | 64  | 56  | 71  | 61            | 54  | 44     |
| 2.00                             | 85                                                   | 74  | 66        | 82  | 72  | 65  | 77  | 69            | 62  | 51     |
| 2.50                             | 90                                                   | 79  | 72        | 86  | 77  | 70  | 81  | 73            | 67  | 55     |
| 3.00                             | 93                                                   | 84  | 77        | 90  | 82  | 75  | 84  | 77            | 71  | 59     |
| 4.00                             | 98                                                   | 90  | 84        | 94  | 87  | 81  | 88  | 82            | 77  | 64     |
| 5.00                             | 101                                                  | 94  | 88        | 97  | 91  | 86  | 90  | 85            | 81  | 67     |
| ROOM INDEX                       | UF (total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                      |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: DAMIN  
Test Date: 10 February 2026

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 7.380m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.10V I:0.2176A P:24.582W PF:0.9406 Freq:59.98Hz<br>Lamp Flux:1817.04x1 lm |       |                  |
| NAME: WS24-033B-BN 24W 35K                                                          | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.: 1    |
| MFR.: EVERFINE                                                                      | SUR.: | Shielding Angle: |



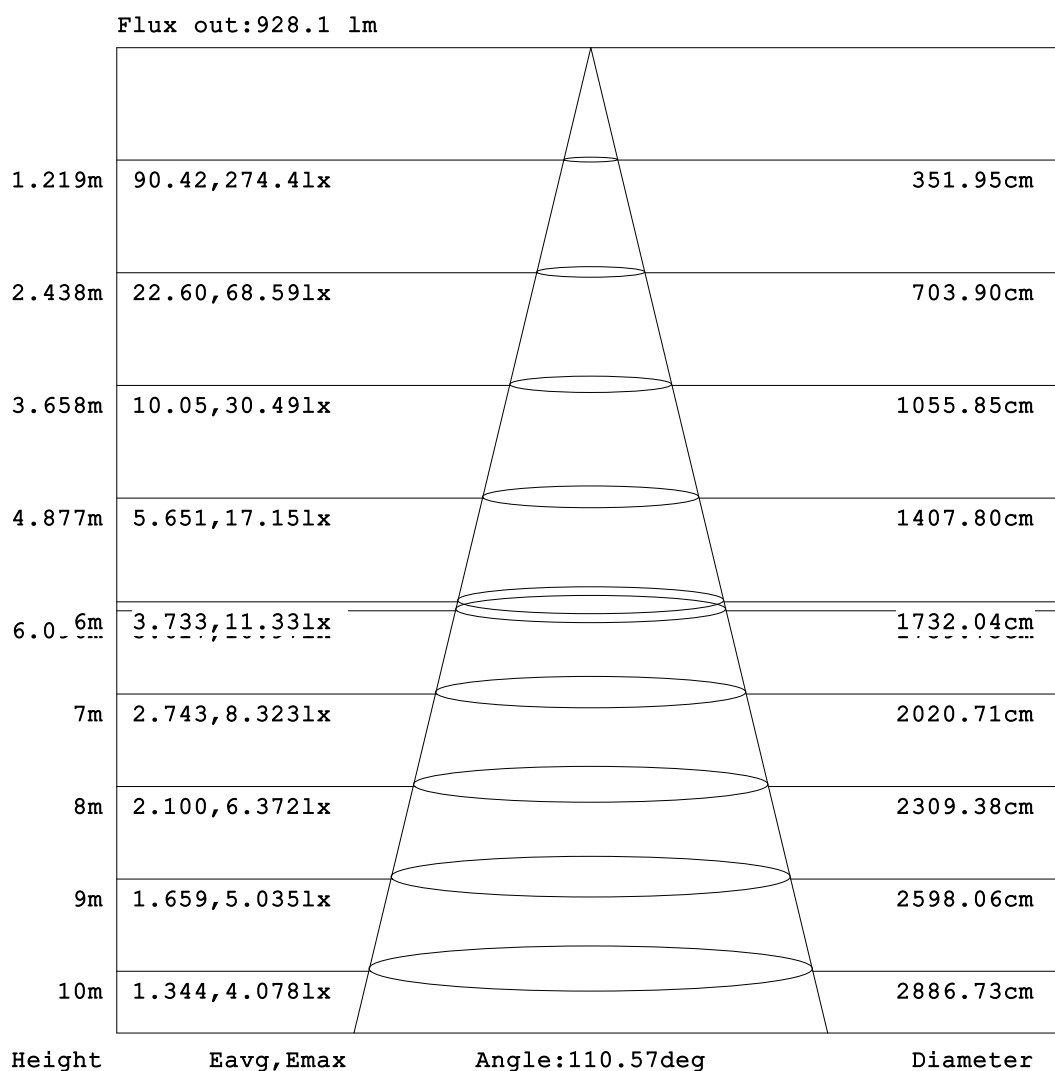
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:10 February 2026

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity:65.0%  
Test Distance:7.380m [K=1.0000]  
Remarks:



### AAI Figure

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.10V I:0.2176A P:24.582W PF:0.9406 Freq:59.98Hz<br>Lamp Flux:1817.04x1 lm |       |                  |
| NAME: WS24-033B-BN 24W 35K                                                          | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.: 1    |
| MFR.: EVERFINE                                                                      | SUR.: | Shielding Angle: |



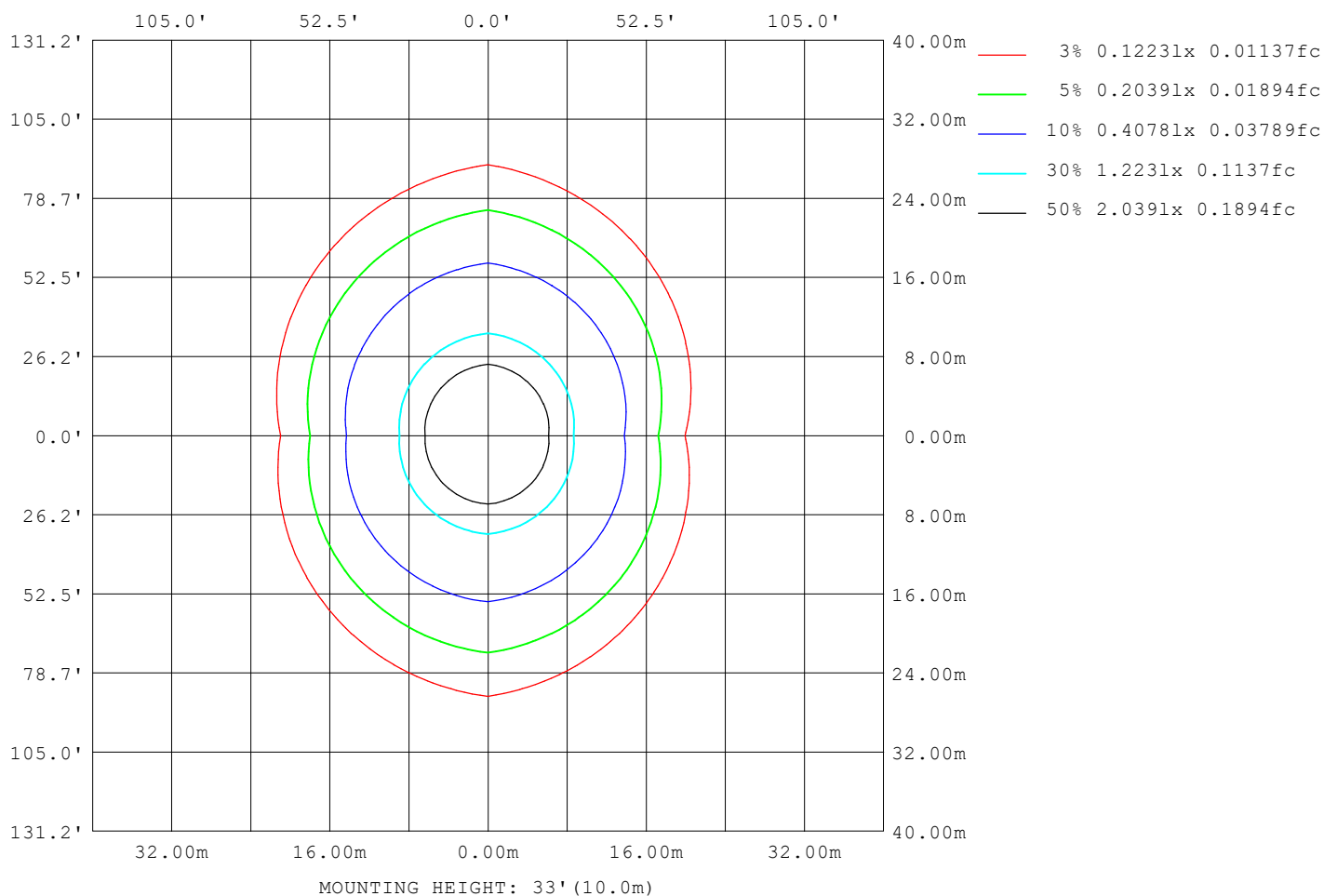
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:10 February 2026

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity:65.0%  
Test Distance:7.380m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.10V I:0.2176A P:24.582W PF:0.9406 Freq:59.98Hz<br>Lamp Flux:1817.04x1 lm |       |                  |
| NAME: WS24-033B-BN 24W 35K                                                          | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.: 1    |
| MFR.: EVERFINE                                                                      | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: DAMIN  
Test Date: 10 February 2026

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 7.380m [K=1.0000]  
Remarks:

## LED Avg.L Report

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.10V I:0.2176A P:24.582W PF:0.9406 Freq:59.98Hz<br>Lamp Flux:1817.04x1 lm |       |                  |
| NAME: WS24-033B-BN 24W 35K                                                          | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.: 1    |
| MFR.: EVERFINE                                                                      | SUR.: | Shielding Angle: |

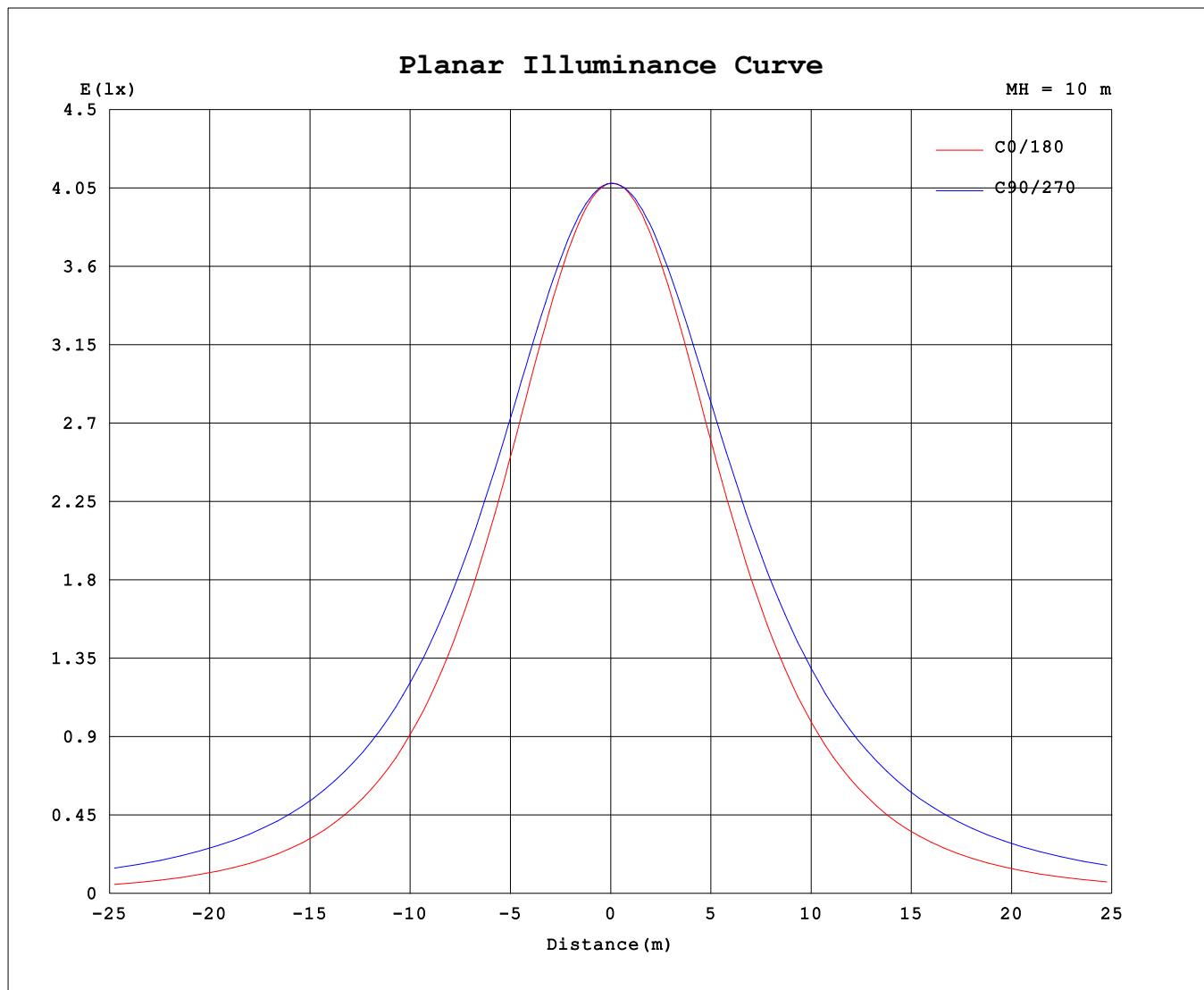
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 3237  |
| L_0~180 (75) av  | 2631  |
| L_0~180 (85) av  | 1894  |
| L_90~270 (65) av | 7165  |
| L_90~270 (75) av | 10455 |
| L_90~270 (85) av | 26713 |
| L_45 (65) av     | 5711  |
| L_45 (75) av     | 7551  |
| L_45 (85) av     | 17453 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:10 February 2026

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity:65.0%  
Test Distance:7.380m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: DAMIN  
Test Date: 10 February 2026

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 7.380m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.10V I:0.2176A P:24.582W PF:0.9406 Freq:59.98Hz<br>Lamp Flux:1817.04x1 lm |       |                  |
| NAME: WS24-033B-BN 24W 35K                                                          | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.: 1    |
| MFR.: EVERFINE                                                                      | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                  | 408  | 408  | 408  | 408  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 405  | 406  | 407  | 408  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 398  | 403  | 403  | 407  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 387  | 398  | 395  | 405  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 374  | 392  | 384  | 401  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 356  | 384  | 369  | 396  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 336  | 375  | 351  | 390  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 313  | 366  | 330  | 383  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 287  | 355  | 306  | 375  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 258  | 343  | 279  | 366  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 227  | 330  | 250  | 356  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 194  | 316  | 217  | 344  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                 | 159  | 302  | 184  | 332  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 124  | 287  | 150  | 318  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 88.5 | 272  | 115  | 303  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                 | 55.6 | 255  | 80.5 | 286  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                 | 27.9 | 236  | 48.9 | 269  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                 | 9.94 | 216  | 23.1 | 249  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                 | 7.66 | 198  | 8.52 | 226  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                 | 8.71 | 153  | 7.30 | 171  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100                | 9.99 | 96.7 | 8.15 | 105  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105                | 11.4 | 73.8 | 8.84 | 84.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110                | 13.3 | 80.2 | 10.8 | 88.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115                | 15.1 | 58.9 | 12.4 | 73.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120                | 16.8 | 44.4 | 14.2 | 53.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125                | 18.0 | 39.3 | 14.3 | 44.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130                | 18.3 | 35.6 | 14.7 | 41.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135                | 18.4 | 32.6 | 15.2 | 35.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140                | 20.1 | 31.2 | 16.8 | 30.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145                | 21.1 | 31.8 | 17.7 | 29.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150                | 20.1 | 22.8 | 16.8 | 28.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155                | 19.6 | 21.6 | 16.3 | 24.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160                | 18.6 | 21.2 | 15.0 | 23.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165                | 17.8 | 24.5 | 14.3 | 25.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170                | 19.4 | 20.8 | 16.4 | 25.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175                | 21.6 | 13.9 | 20.1 | 16.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180                | 22.7 | 14.8 | 22.7 | 14.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:10 February 2026

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459

Humidity:65.0%

Test Distance:7.380m [K=1.0000]

Remarks: