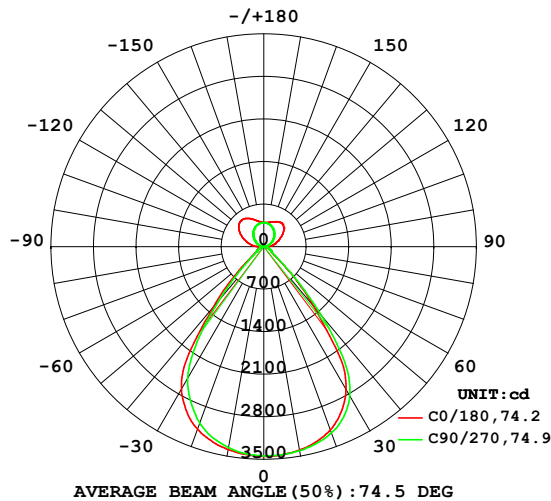


## LUMINAIRE PHOTOMETRIC TEST REPORT

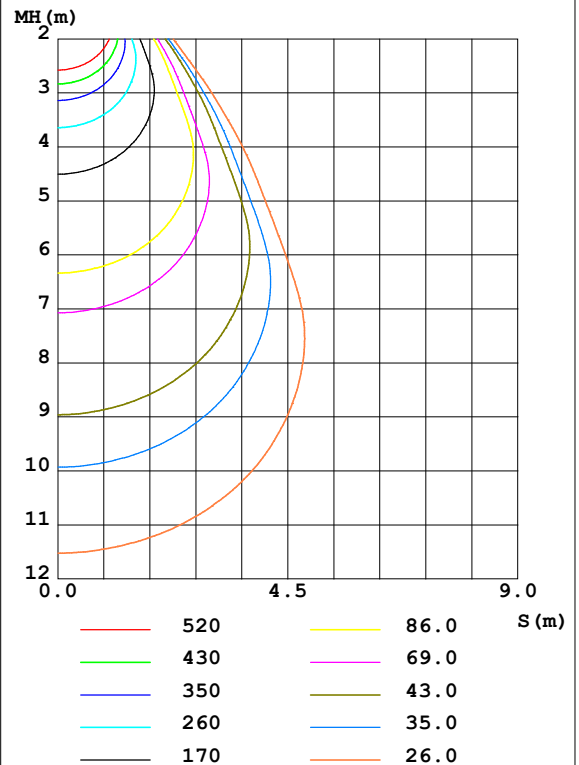
|                                                                                |                 |                  |
|--------------------------------------------------------------------------------|-----------------|------------------|
| Test:U:120.7V I:0.4070A P:49.00W PF:0.9900 Freq:60.00Hz Lamp Flux:6845.95x1 lm |                 |                  |
| NAME: 4FT                                                                      | TYPE:4000K 2.8  | WEIGHT:          |
| SPEC.:                                                                         | DIM.:           | SERIAL No.:      |
| MFR.: EVERFINE                                                                 | SUR.:1.12*0.045 | Shielding Angle: |

| DATA OF LAMP     |         | PHOTOMETRIC DATA Eff: 139.71 lm/W |         |                    |           |
|------------------|---------|-----------------------------------|---------|--------------------|-----------|
| MODEL            |         | I <sub>max</sub> (cd)             | 3452    | S/MH (C0/180)      | 1.07      |
| NOMINAL POWER(W) | 48W     | LOR(%)                            | 100.0   | S/MH (C90/270)     | 1.05      |
| RATED VOLTAGE(V) | 120.0   | TOTAL FLUX(lm)                    | 6846.0  | η UP,DN (C0-180)   | 12.7,39.1 |
| NOMINAL FLUX(lm) | 6845.95 | CIE CLASS                         | SEMI-D. | η UP,DN (C180-360) | 13.0,35.2 |
| LAMPS INSIDE     | 1       | η up (%)                          | 25.7    | CIBSE SHR NOM      | 1.25      |
| TEST VOLTAGE(V)  | 120.0   | η down (%)                        | 74.3    | CIBSE SHR MAX      | 1.25      |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators:  
Test Date:

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
Humidity: 65.0%  
Test Distance: 10.000m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

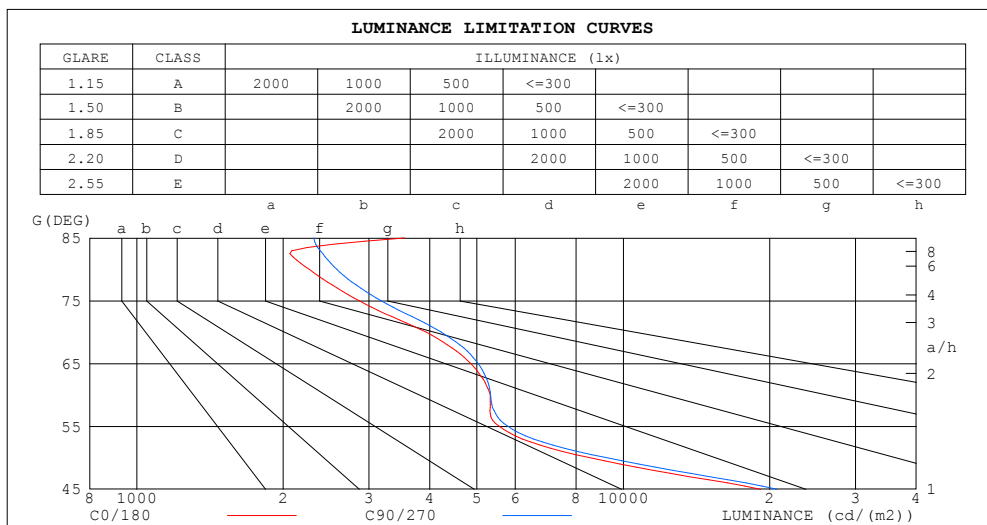
| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10       | 3399                  | 3401  | 3410  | 3405  | 3389  | 3372  | 3359  | 3364  | 0- 10    | 326.1       | 326.1        | 4.76,4.76  |
| 20       | 3207                  | 3234  | 3259  | 3253  | 3193  | 3136  | 3087  | 3111  | 10- 20   | 932.5       | 1259         | 18.4,18.4  |
| 30       | 2708                  | 2826  | 2829  | 2877  | 2713  | 2624  | 2507  | 2561  | 20- 30   | 1370        | 2629         | 38.4,38.4  |
| 40       | 1271                  | 1965  | 1468  | 2069  | 1276  | 1709  | 1117  | 1573  | 30- 40   | 1368        | 3997         | 58.4,58.4  |
| 50       | 274.1                 | 583.8 | 296.9 | 682.6 | 285.5 | 487.6 | 225.9 | 392.8 | 40- 50   | 713.6       | 4710         | 68.8,68.8  |
| 60       | 133.1                 | 158.5 | 133.4 | 180.0 | 133.4 | 144.8 | 125.3 | 127.7 | 50- 60   | 210.7       | 4921         | 71.9,71.9  |
| 70       | 67.27                 | 69.26 | 72.26 | 77.42 | 68.21 | 65.58 | 60.58 | 57.22 | 60- 70   | 100.9       | 5022         | 73.4,73.4  |
| 80       | 19.65                 | 21.56 | 22.38 | 25.74 | 20.63 | 20.45 | 17.64 | 16.97 | 70- 80   | 42.38       | 5064         | 74,74      |
| 90       | 46.77                 | 23.64 | 1.882 | 59.83 | 78.53 | 88.88 | 1.772 | 48.16 | 80- 90   | 21.53       | 5086         | 74.3,74.3  |
| 100      | 155.0                 | 113.0 | 30.65 | 181.1 | 222.4 | 191.9 | 38.02 | 125.0 | 90-100   | 98.21       | 5184         | 75.7,75.7  |
| 110      | 236.0                 | 201.2 | 87.54 | 287.1 | 338.5 | 292.6 | 95.88 | 218.5 | 100-110  | 184.7       | 5369         | 78.4,78.4  |
| 120      | 336.3                 | 288.5 | 148.6 | 382.2 | 453.5 | 376.5 | 157.1 | 312.4 | 110-120  | 262.1       | 5631         | 82.3,82.3  |
| 130      | 435.3                 | 346.9 | 210.0 | 442.9 | 540.0 | 426.2 | 218.7 | 369.2 | 120-130  | 306.3       | 5937         | 86.7,86.7  |
| 140      | 486.5                 | 379.4 | 268.2 | 463.3 | 571.0 | 440.7 | 277.4 | 393.9 | 130-140  | 304.1       | 6241         | 91.2,91.2  |
| 150      | 472.5                 | 392.5 | 320.9 | 452.5 | 539.2 | 432.5 | 328.9 | 402.3 | 140-150  | 260.0       | 6501         | 95,95      |
| 160      | 434.2                 | 396.9 | 362.3 | 429.5 | 475.0 | 416.6 | 367.5 | 399.4 | 150-160  | 191.4       | 6693         | 97.8,97.8  |
| 170      | 405.6                 | 397.4 | 388.9 | 408.7 | 419.3 | 404.1 | 391.3 | 396.6 | 160-170  | 115.0       | 6808         | 99.4,99.4  |
| 180      | 392.6                 | 392.6 | 392.6 | 392.6 | 392.6 | 392.6 | 392.6 | 392.6 | 170-180  | 38.17       | 6846         | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT:lm     |              |            |

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
 Humidity:65.0%  
 Test Distance:10.000m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

|                                                                                |                 |                  |
|--------------------------------------------------------------------------------|-----------------|------------------|
| Test:U:120.7V I:0.4070A P:49.00W PF:0.9900 Freq:60.00Hz Lamp Flux:6845.95x1 lm |                 |                  |
| NAME: 4FT                                                                      | TYPE:4000K 2.8  | WEIGHT:          |
| SPEC.:                                                                         | DIM.:           | SERIAL No.:      |
| MFR.: EVERFINE                                                                 | SUR.:1.12*0.045 | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 3549   | 2312    |
| 80                | 2263   | 2578    |
| 75                | 2866   | 3179    |
| 70                | 3934   | 4225    |
| 65                | 4859   | 5033    |
| 60                | 5325   | 5335    |
| 55                | 5560   | 5788    |
| 50                | 8527   | 9238    |
| 45                | 19135  | 20721   |

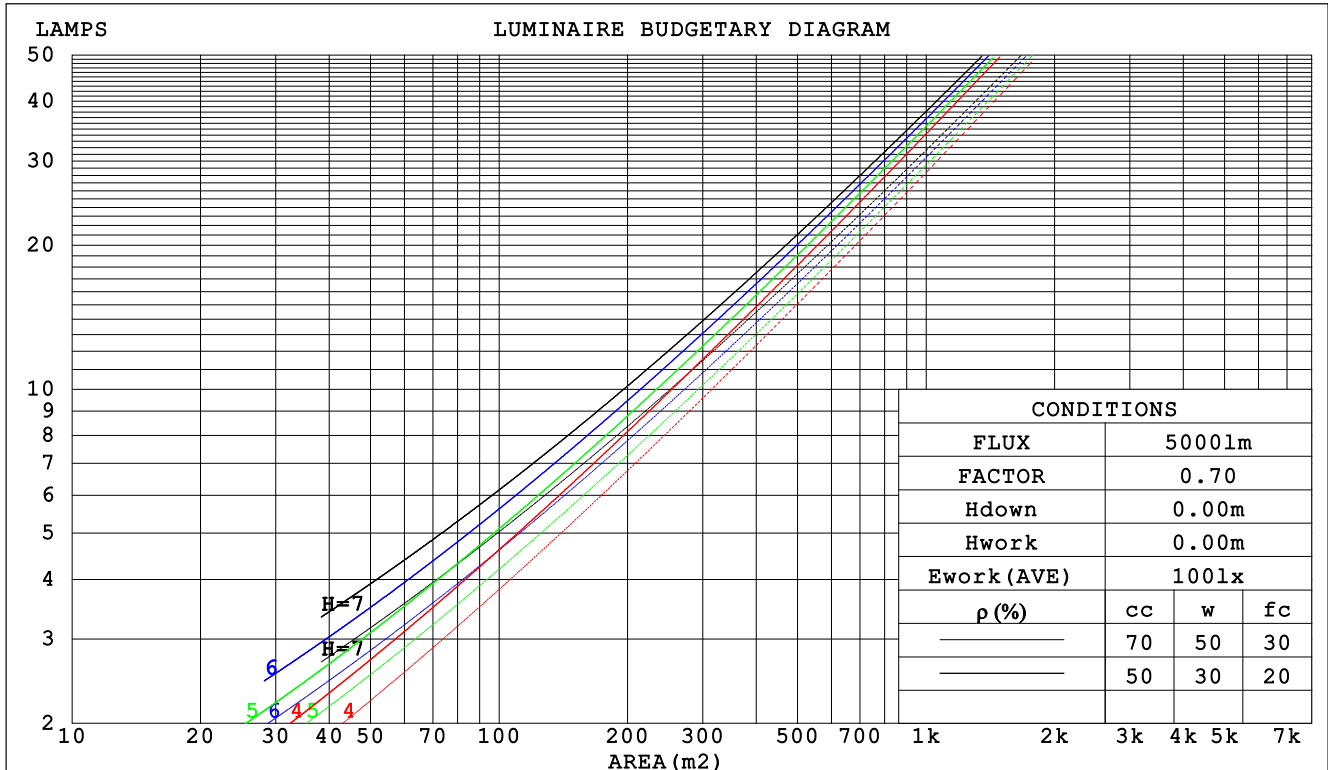
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                |                 |                  |
|--------------------------------------------------------------------------------|-----------------|------------------|
| Test:U:120.7V I:0.4070A P:49.00W PF:0.9900 Freq:60.00Hz Lamp Flux:6845.95x1 lm |                 |                  |
| NAME: 4FT                                                                      | TYPE:4000K 2.8  | WEIGHT:          |
| SPEC.:                                                                         | DIM.:           | SERIAL No.:      |
| MFR.: EVERFINE                                                                 | SUR.:1.12*0.045 | 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                   | Coefficients of Utilization(CU) |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |
| RCR:Room Cavity Ratio |                                 |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |
| 0.0                   | 1.13                            | 1.13 | 1.13 | 1.07 | 1.07 | 1.07 | .97 | .97 | .97 | .87 | .87 | .87 | .78 | .78 | .78 | .74 |
| 1.0                   | 1.02                            | .99  | .96  | .98  | .95  | .92  | .89 | .87 | .85 | .81 | .79 | .78 | .73 | .72 | .71 | .68 |
| 2.0                   | .93                             | .88  | .83  | .89  | .84  | .81  | .81 | .78 | .75 | .74 | .72 | .70 | .68 | .66 | .64 | .61 |
| 3.0                   | .84                             | .78  | .73  | .81  | .75  | .71  | .74 | .70 | .67 | .68 | .65 | .62 | .63 | .60 | .58 | .55 |
| 4.0                   | .77                             | .70  | .65  | .74  | .68  | .63  | .68 | .63 | .60 | .63 | .59 | .56 | .58 | .55 | .53 | .50 |
| 5.0                   | .70                             | .63  | .58  | .68  | .61  | .56  | .63 | .58 | .54 | .58 | .54 | .51 | .54 | .51 | .48 | .46 |
| 6.0                   | .64                             | .57  | .52  | .62  | .56  | .51  | .58 | .53 | .49 | .54 | .50 | .46 | .50 | .47 | .44 | .42 |
| 7.0                   | .59                             | .52  | .47  | .57  | .51  | .46  | .54 | .48 | .44 | .50 | .46 | .42 | .47 | .43 | .40 | .38 |
| 8.0                   | .55                             | .48  | .43  | .53  | .47  | .42  | .50 | .44 | .40 | .47 | .42 | .39 | .44 | .40 | .37 | .35 |
| 9.0                   | .51                             | .44  | .39  | .49  | .43  | .39  | .46 | .41 | .37 | .43 | .39 | .36 | .41 | .37 | .34 | .32 |
| 10.0                  | .47                             | .41  | .36  | .46  | .40  | .35  | .43 | .38 | .34 | .41 | .36 | .33 | .38 | .34 | .32 | .30 |



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

### WEC AND CCEC

|                                                                                |  |  |                 |  |                  |
|--------------------------------------------------------------------------------|--|--|-----------------|--|------------------|
| Test:U:120.7V I:0.4070A P:49.00W PF:0.9900 Freq:60.00Hz Lamp Flux:6845.95x1 lm |  |  |                 |  |                  |
| NAME: 4FT                                                                      |  |  | TYPE:4000K 2.8  |  | WEIGHT:          |
| SPEC.:                                                                         |  |  | DIM.:           |  | SERIAL No.:      |
| MFR.: EVERFINE                                                                 |  |  | SUR.:1.12*0.045 |  | 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  | .222                  | .126 | .040 | .208 | .119 | .038 | .180                             | .104 | .033 | .155 | .090 | .029 | .132 | .077 | .025 |   |  |
| 2.0  | .211                  | .116 | .036 | .198 | .109 | .034 | .174                             | .097 | .030 | .151 | .085 | .027 | .130 | .074 | .023 |   |  |
| 3.0  | .200                  | .106 | .032 | .188 | .101 | .030 | .166                             | .090 | .027 | .145 | .080 | .024 | .126 | .070 | .022 |   |  |
| 4.0  | .188                  | .098 | .029 | .178 | .093 | .027 | .158                             | .084 | .025 | .139 | .075 | .023 | .122 | .066 | .020 |   |  |
| 5.0  | .178                  | .091 | .026 | .168 | .086 | .025 | .150                             | .078 | .023 | .133 | .070 | .021 | .117 | .062 | .019 |   |  |
| 6.0  | .168                  | .084 | .024 | .159 | .080 | .023 | .142                             | .073 | .021 | .127 | .066 | .019 | .112 | .059 | .018 |   |  |
| 7.0  | .159                  | .079 | .022 | .151 | .075 | .021 | .136                             | .069 | .020 | .121 | .062 | .018 | .108 | .056 | .016 |   |  |
| 8.0  | .151                  | .074 | .021 | .143 | .071 | .020 | .129                             | .065 | .018 | .116 | .059 | .017 | .103 | .053 | .015 |   |  |
| 9.0  | .143                  | .069 | .019 | .136 | .067 | .019 | .123                             | .061 | .017 | .111 | .056 | .016 | .099 | .050 | .015 |   |  |
| 10.0 | .136                  | .065 | .018 | .130 | .063 | .018 | .118                             | .058 | .016 | .106 | .053 | .015 | .095 | .048 | .014 |   |  |

| 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  | .386                  | .386 | .386 | .330 | .330 | .330 | .225                                       | .225 | .225 | .129 | .129 | .129 | .041 | .041 | .041 |   |
| 1.0  | .372                  | .354 | .339 | .318 | .304 | .292 | .218                                       | .209 | .202 | .125 | .121 | .117 | .040 | .039 | .038 |   |
| 2.0  | .360                  | .331 | .307 | .309 | .285 | .265 | .211                                       | .197 | .185 | .122 | .115 | .108 | .039 | .037 | .035 |   |
| 3.0  | .351                  | .314 | .284 | .301 | .271 | .246 | .206                                       | .188 | .173 | .119 | .110 | .102 | .038 | .036 | .033 |   |
| 4.0  | .343                  | .300 | .268 | .294 | .260 | .233 | .202                                       | .181 | .164 | .117 | .106 | .097 | .038 | .034 | .032 |   |
| 5.0  | .335                  | .290 | .256 | .288 | .251 | .223 | .198                                       | .175 | .158 | .115 | .103 | .093 | .037 | .034 | .031 |   |
| 6.0  | .329                  | .282 | .248 | .283 | .244 | .216 | .195                                       | .171 | .153 | .113 | .100 | .091 | .037 | .033 | .030 |   |
| 7.0  | .323                  | .275 | .241 | .278 | .238 | .210 | .192                                       | .167 | .149 | .112 | .098 | .089 | .036 | .032 | .029 |   |
| 8.0  | .318                  | .269 | .236 | .273 | .234 | .206 | .189                                       | .164 | .146 | .110 | .097 | .087 | .036 | .032 | .029 |   |
| 9.0  | .313                  | .265 | .232 | .269 | .230 | .202 | .187                                       | .161 | .144 | .109 | .095 | .086 | .035 | .031 | .028 |   |
| 10.0 | .308                  | .261 | .229 | .266 | .226 | .200 | .184                                       | .159 | .142 | .107 | .094 | .085 | .035 | .031 | .028 |   |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

|                                                                                |                  |      |      |      |                 |                |      |                  |      |      |
|--------------------------------------------------------------------------------|------------------|------|------|------|-----------------|----------------|------|------------------|------|------|
| Test:U:120.7V I:0.4070A P:49.00W PF:0.9900 Freq:60.00Hz Lamp Flux:6845.95x1 lm |                  |      |      |      |                 |                |      |                  |      |      |
| NAME: 4FT                                                                      |                  |      |      |      | TYPE:4000K 2.8  |                |      | WEIGHT:          |      |      |
| SPEC.:                                                                         |                  |      |      |      | DIM.:           |                |      | SERIAL No.:      |      |      |
| MFR.: EVERFINE                                                                 |                  |      |      |      | SUR.:1.12*0.045 |                |      | 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                                                                  | 19.3             | 20.3 | 19.9 | 20.8 | 21.5            | 19.2           | 20.1 | 19.8             | 20.7 | 21.3 |
| 3H                                                                             | 19.2             | 20.1 | 19.8 | 20.7 | 21.3            | 19.1           | 20.0 | 19.7             | 20.5 | 21.2 |
| 4H                                                                             | 19.1             | 19.9 | 19.8 | 20.5 | 21.3            | 19.0           | 19.8 | 19.7             | 20.4 | 21.1 |
| 6H                                                                             | 19.0             | 19.8 | 19.7 | 20.4 | 21.1            | 18.9           | 19.7 | 19.6             | 20.3 | 21.0 |
| 8H                                                                             | 19.0             | 19.7 | 19.6 | 20.3 | 21.1            | 18.9           | 19.6 | 19.6             | 20.2 | 21.0 |
| 12H                                                                            | 18.9             | 19.6 | 19.6 | 20.3 | 21.0            | 18.8           | 19.5 | 19.5             | 20.2 | 20.9 |
| 4H 2H                                                                          | 19.1             | 19.8 | 19.7 | 20.5 | 21.2            | 18.9           | 19.7 | 19.6             | 20.3 | 21.0 |
| 3H                                                                             | 19.0             | 19.7 | 19.7 | 20.3 | 21.1            | 18.9           | 19.5 | 19.6             | 20.2 | 21.0 |
| 4H                                                                             | 18.9             | 19.5 | 19.6 | 20.2 | 21.0            | 18.8           | 19.4 | 19.5             | 20.1 | 20.9 |
| 6H                                                                             | 18.8             | 19.4 | 19.6 | 20.1 | 20.9            | 18.8           | 19.3 | 19.5             | 20.0 | 20.8 |
| 8H                                                                             | 18.8             | 19.3 | 19.5 | 20.0 | 20.9            | 18.7           | 19.2 | 19.5             | 19.9 | 20.8 |
| 12H                                                                            | 18.7             | 19.2 | 19.5 | 19.9 | 20.8            | 18.7           | 19.1 | 19.4             | 19.8 | 20.7 |
| 8H 4H                                                                          | 18.7             | 19.2 | 19.5 | 20.0 | 20.8            | 18.7           | 19.1 | 19.4             | 19.9 | 20.7 |
| 6H                                                                             | 18.7             | 19.1 | 19.5 | 19.8 | 20.7            | 18.6           | 19.0 | 19.4             | 19.8 | 20.7 |
| 8H                                                                             | 18.6             | 19.0 | 19.4 | 19.8 | 20.7            | 18.6           | 18.9 | 19.4             | 19.7 | 20.6 |
| 12H                                                                            | 18.6             | 18.9 | 19.4 | 19.7 | 20.7            | 18.5           | 18.8 | 19.3             | 19.6 | 20.6 |
| 12H 4H                                                                         | 18.7             | 19.1 | 19.4 | 19.9 | 20.7            | 18.6           | 19.0 | 19.3             | 19.8 | 20.7 |
| 6H                                                                             | 18.6             | 19.0 | 19.4 | 19.7 | 20.7            | 18.5           | 18.9 | 19.3             | 19.7 | 20.6 |
| 8H                                                                             | 18.6             | 18.9 | 19.4 | 19.7 | 20.6            | 18.5           | 18.8 | 19.3             | 19.6 | 20.6 |
| Variations with the observer position at spacings:                             |                  |      |      |      |                 |                |      |                  |      |      |
| S = 1.0H                                                                       | + 2.7 / - 5.3    |      |      |      |                 | + 2.3 / - 5.2  |      |                  |      |      |
| 1.5H                                                                           | + 2.9 / - 5.4    |      |      |      |                 | + 3.1 / - 5.0  |      |                  |      |      |
| 2.0H                                                                           | + 4.6 / - 3.2    |      |      |      |                 | + 4.2 / - 2.8  |      |                  |      |      |

CIE Pub.117 Corrected 6846 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.7)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|                                                                                |                 |                  |
|--------------------------------------------------------------------------------|-----------------|------------------|
| Test:U:120.7V I:0.4070A P:49.00W PF:0.9900 Freq:60.00Hz Lamp Flux:6845.95x1 lm |                 |                  |
| NAME: 4FT                                                                      | TYPE:4000K 2.8  | WEIGHT:          |
| SPEC.:                                                                         | DIM.:           | SERIAL No.:      |
| MFR.: EVERFINE                                                                 | SUR.:1.12*0.045 | Shielding Angle: |

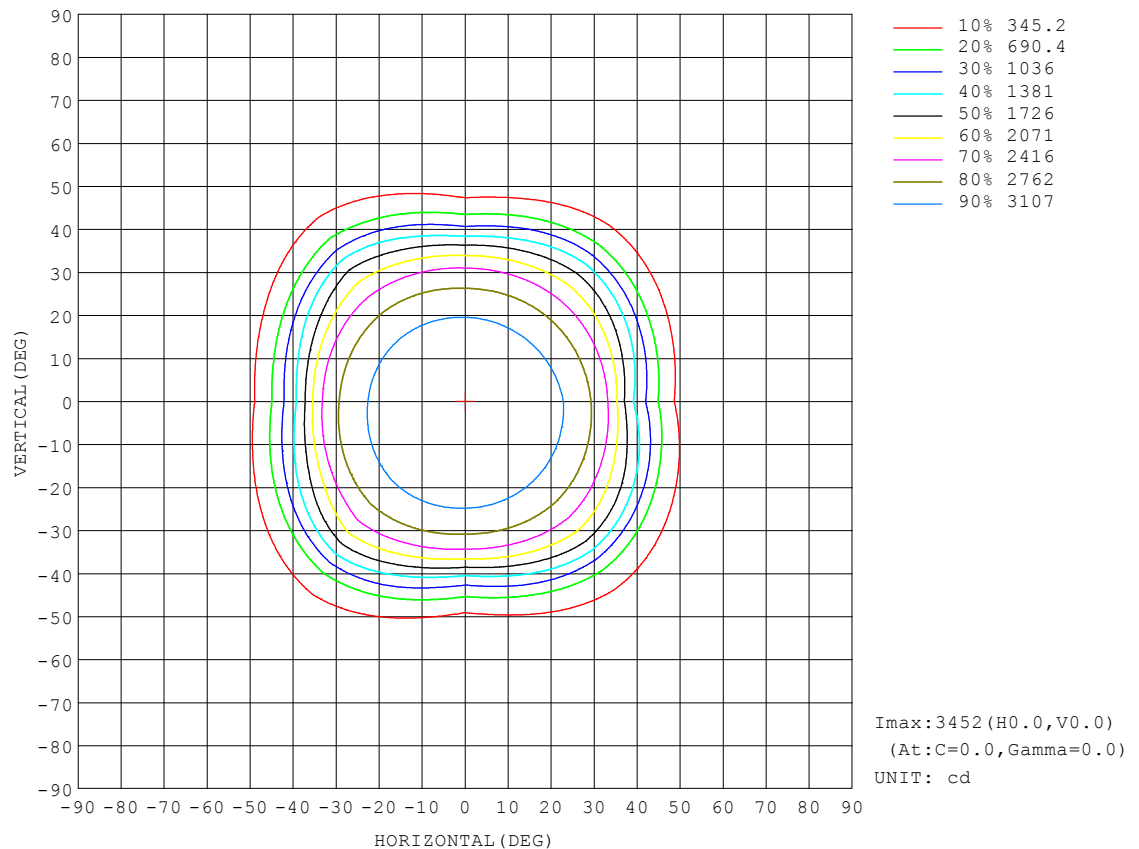
| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 66                                                   | 57  | 52        | 64  | 56  | 51  | 62  | 55            | 50  | 45     |
| 0.80                             | 74                                                   | 66  | 60        | 72  | 65  | 60  | 69  | 62            | 58  | 51     |
| 1.00                             | 81                                                   | 72  | 67        | 78  | 71  | 66  | 74  | 69            | 64  | 56     |
| 1.25                             | 86                                                   | 78  | 73        | 84  | 76  | 72  | 78  | 73            | 69  | 60     |
| 1.50                             | 90                                                   | 83  | 78        | 87  | 81  | 76  | 81  | 76            | 73  | 63     |
| 2.00                             | 95                                                   | 88  | 83        | 91  | 86  | 81  | 85  | 81            | 77  | 66     |
| 2.50                             | 98                                                   | 92  | 87        | 94  | 89  | 85  | 87  | 83            | 80  | 67     |
| 3.00                             | 100                                                  | 95  | 91        | 96  | 91  | 88  | 89  | 85            | 82  | 68     |
| 4.00                             | 103                                                  | 99  | 95        | 99  | 95  | 92  | 91  | 88            | 85  | 70     |
| 5.00                             | 105                                                  | 101 | 98        | 100 | 97  | 94  | 92  | 90            | 87  | 71     |
| ROOM INDEX                       | UF (total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                      |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

|                                                                                |                 |                  |
|--------------------------------------------------------------------------------|-----------------|------------------|
| Test:U:120.7V I:0.4070A P:49.00W PF:0.9900 Freq:60.00Hz Lamp Flux:6845.95x1 lm |                 |                  |
| NAME: 4FT                                                                      | TYPE:4000K 2.8  | WEIGHT:          |
| SPEC.:                                                                         | DIM.:           | SERIAL No.:      |
| MFR.: EVERFINE                                                                 | SUR.:1.12*0.045 | Shielding Angle: |

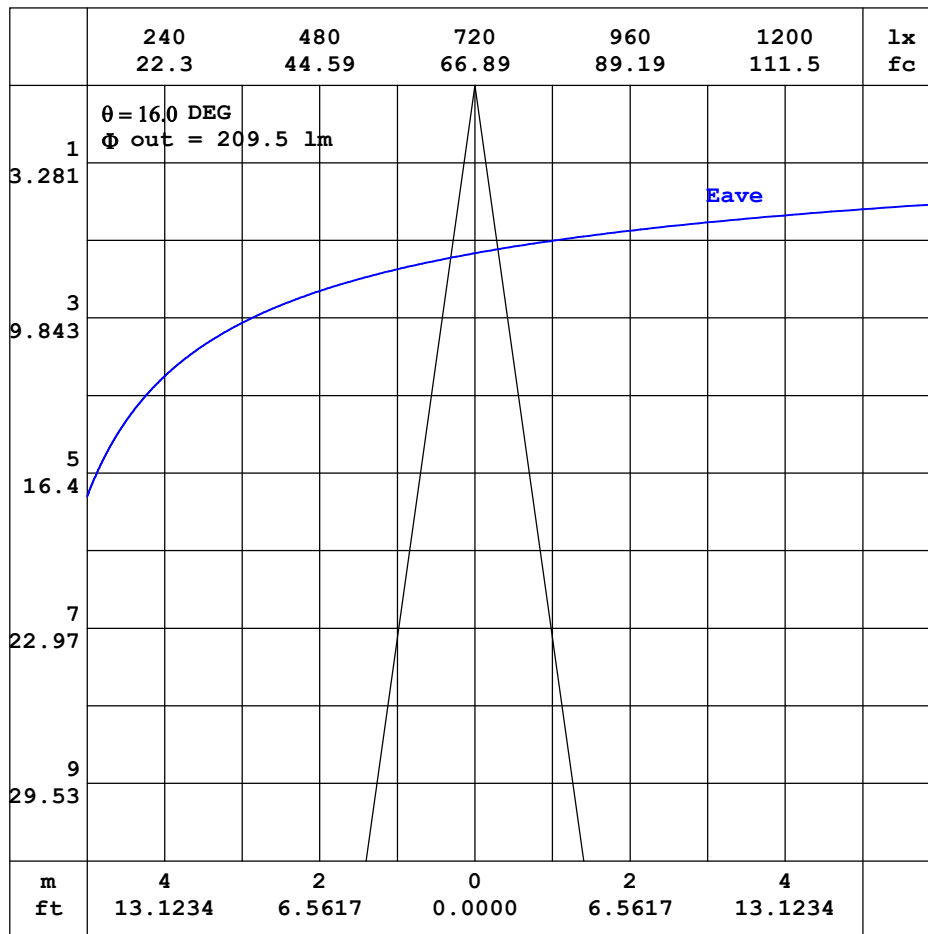


C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

### AAI CURVES

|                                                                                |                 |                  |
|--------------------------------------------------------------------------------|-----------------|------------------|
| Test:U:120.7V I:0.4070A P:49.00W PF:0.9900 Freq:60.00Hz Lamp Flux:6845.95x1 lm |                 |                  |
| NAME: 4FT                                                                      | TYPE:4000K 2.8  | WEIGHT:          |
| SPEC.:                                                                         | DIM.:           | SERIAL No.:      |
| MFR.: EVERFINE                                                                 | SUR.:1.12*0.045 | Shielding Angle: |



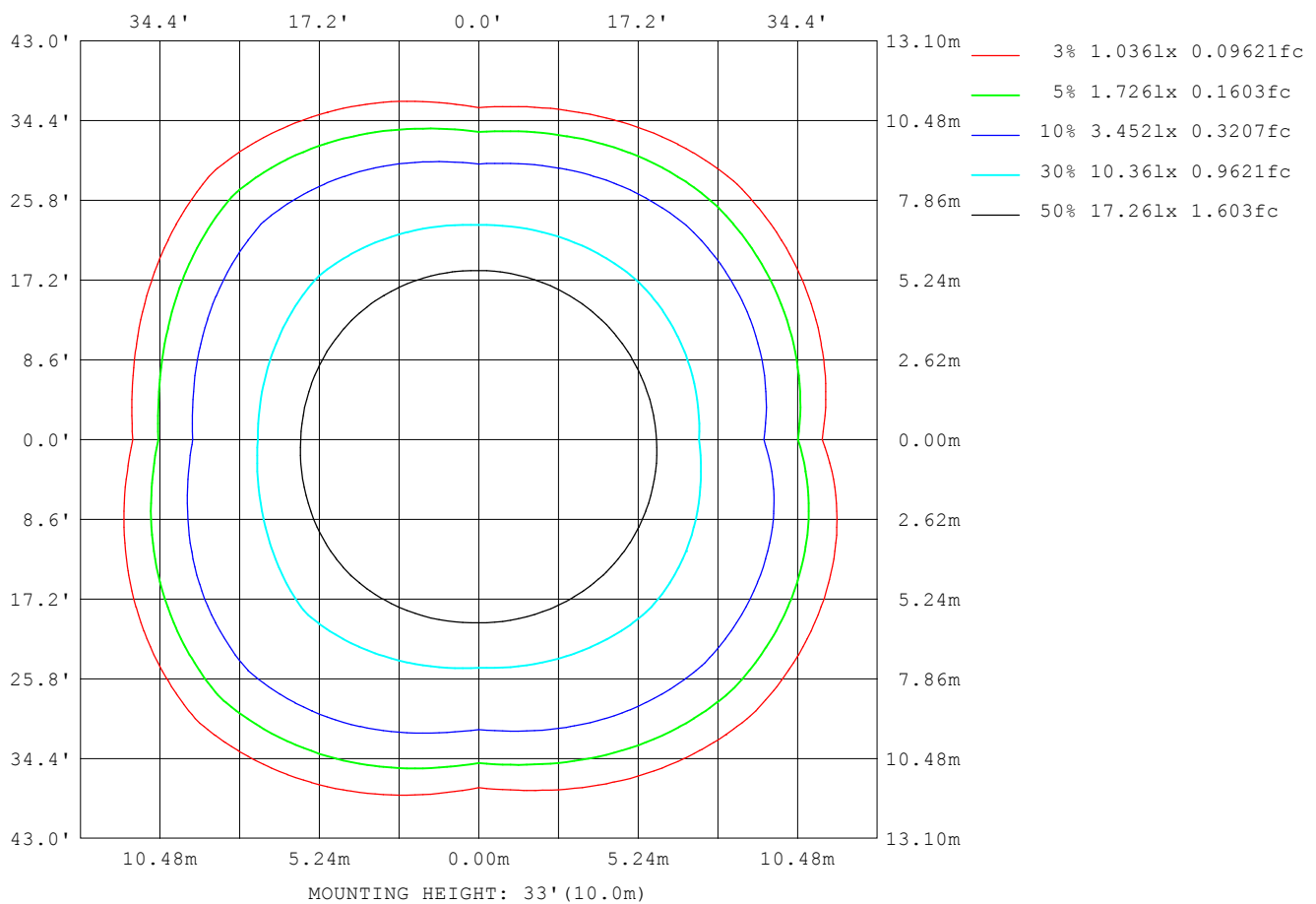
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

|                                                                                |                 |                  |
|--------------------------------------------------------------------------------|-----------------|------------------|
| Test:U:120.7V I:0.4070A P:49.00W PF:0.9900 Freq:60.00Hz Lamp Flux:6845.95x1 lm |                 |                  |
| NAME: 4FT                                                                      | TYPE:4000K 2.8  | WEIGHT:          |
| SPEC.:                                                                         | DIM.:           | SERIAL No.:      |
| MFR.: EVERFINE                                                                 | SUR.:1.12*0.045 | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

## LED Avg.L Report

|                                                                                |                 |                  |
|--------------------------------------------------------------------------------|-----------------|------------------|
| Test:U:120.7V I:0.4070A P:49.00W PF:0.9900 Freq:60.00Hz Lamp Flux:6845.95x1 lm |                 |                  |
| NAME: 4FT                                                                      | TYPE:4000K 2.8  | WEIGHT:          |
| SPEC.:                                                                         | DIM.:           | SERIAL No.:      |
| MFR.: EVERFINE                                                                 | SUR.:1.12*0.045 | Shielding Angle: |

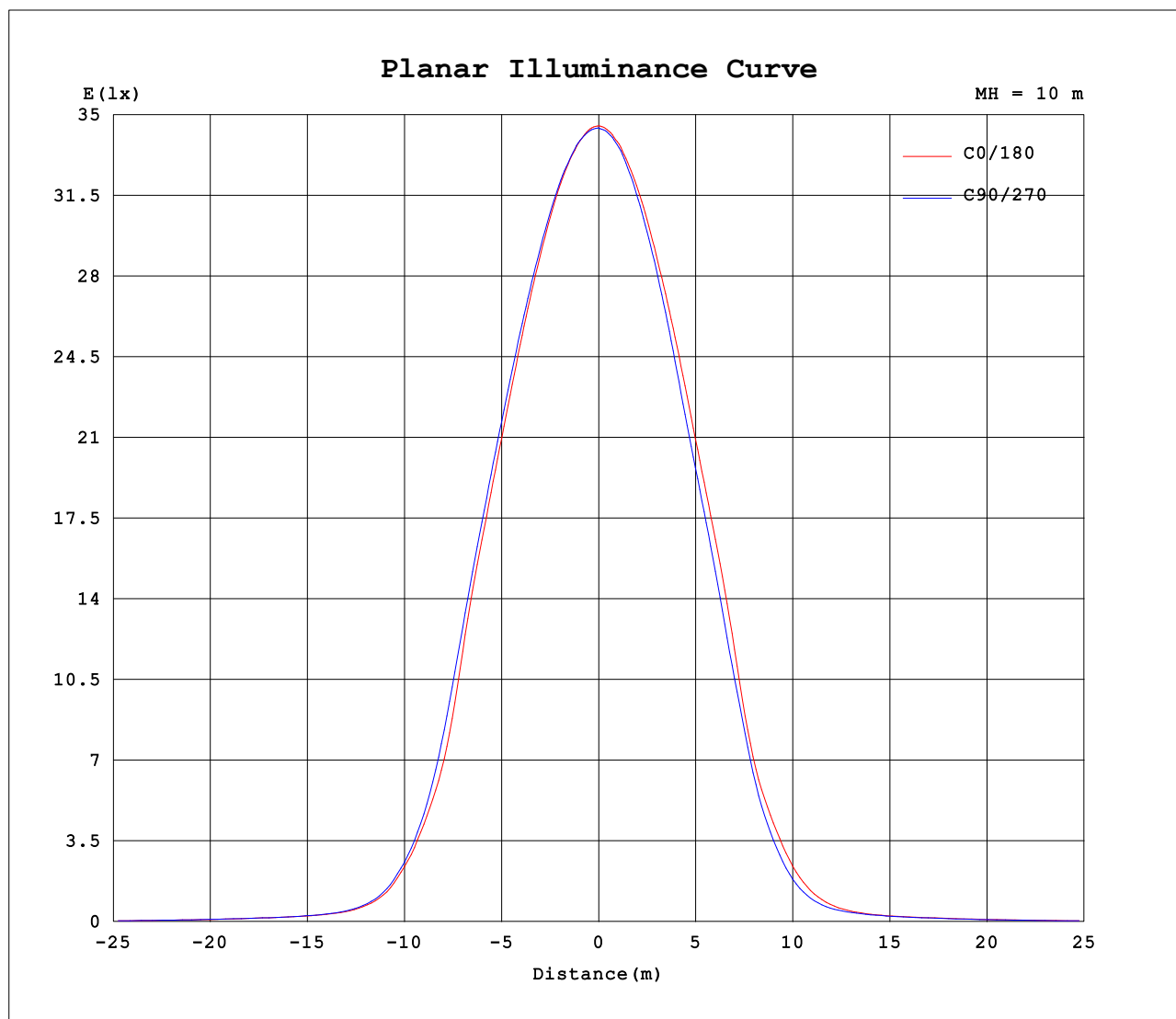
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 4885  |
| L_0~180 (75) av  | 2903  |
| L_0~180 (85) av  | 4069  |
| L_90~270 (65) av | 4778  |
| L_90~270 (75) av | 2892  |
| L_90~270 (85) av | 1876  |
| L_45 (65) av     | 4766  |
| L_45 (75) av     | 3034  |
| L_45 (85) av     | 3065  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators:  
Test Date:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
Humidity: 65.0%  
Test Distance: 10.000m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                |                 |                  |
|--------------------------------------------------------------------------------|-----------------|------------------|
| Test:U:120.7V I:0.4070A P:49.00W PF:0.9900 Freq:60.00Hz Lamp Flux:6845.95x1 lm |                 |                  |
| NAME: 4FT                                                                      | TYPE:4000K 2.8  | WEIGHT:          |
| SPEC.:                                                                         | DIM.:           | SERIAL No.:      |
| MFR.: EVERFINE                                                                 | SUR.:1.12*0.045 | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 5    | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   | 70   | 75   | 80   | 85   | 90   |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                  | 3452 | 3451 | 3451 | 3450 | 3450 | 3449 | 3449 | 3448 | 3448 | 3447 | 3447 | 3446 | 3446 | 3445 | 3445 | 3444 | 3444 | 3443 | 3443 |
| 5                  | 3436 | 3437 | 3437 | 3438 | 3438 | 3438 | 3439 | 3439 | 3439 | 3439 | 3439 | 3439 | 3439 | 3438 | 3438 | 3438 | 3437 | 3437 | 3437 |
| 10                 | 3399 | 3399 | 3399 | 3399 | 3399 | 3400 | 3400 | 3400 | 3401 | 3401 | 3402 | 3403 | 3404 | 3405 | 3406 | 3407 | 3408 | 3409 | 3410 |
| 15                 | 3328 | 3329 | 3330 | 3331 | 3333 | 3334 | 3335 | 3337 | 3338 | 3339 | 3341 | 3343 | 3345 | 3347 | 3349 | 3350 | 3352 | 3353 | 3354 |
| 20                 | 3207 | 3210 | 3213 | 3216 | 3219 | 3222 | 3225 | 3228 | 3231 | 3234 | 3237 | 3241 | 3244 | 3247 | 3250 | 3253 | 3255 | 3257 | 3259 |
| 25                 | 3009 | 3017 | 3026 | 3033 | 3041 | 3048 | 3054 | 3060 | 3066 | 3071 | 3076 | 3081 | 3085 | 3088 | 3092 | 3095 | 3097 | 3099 | 3101 |
| 30                 | 2708 | 2726 | 2744 | 2760 | 2774 | 2787 | 2799 | 2809 | 2818 | 2826 | 2829 | 2831 | 2832 | 2832 | 2831 | 2830 | 2830 | 2829 | 2829 |
| 35                 | 2134 | 2194 | 2248 | 2297 | 2340 | 2377 | 2408 | 2433 | 2453 | 2466 | 2458 | 2446 | 2430 | 2411 | 2392 | 2372 | 2353 | 2337 | 2323 |
| 40                 | 1271 | 1407 | 1528 | 1635 | 1727 | 1804 | 1866 | 1914 | 1947 | 1965 | 1927 | 1877 | 1819 | 1755 | 1689 | 1624 | 1564 | 1511 | 1468 |
| 45                 | 677  | 795  | 900  | 992  | 1070 | 1134 | 1185 | 1222 | 1246 | 1256 | 1210 | 1154 | 1090 | 1022 | 954  | 887  | 826  | 774  | 733  |
| 50                 | 274  | 338  | 394  | 444  | 485  | 520  | 547  | 567  | 579  | 584  | 558  | 527  | 492  | 455  | 417  | 380  | 347  | 319  | 297  |
| 55                 | 159  | 185  | 208  | 228  | 245  | 259  | 270  | 277  | 282  | 284  | 273  | 260  | 246  | 230  | 215  | 200  | 186  | 175  | 166  |
| 60                 | 133  | 138  | 143  | 147  | 151  | 153  | 156  | 157  | 158  | 159  | 156  | 153  | 150  | 146  | 143  | 140  | 137  | 135  | 133  |
| 65                 | 103  | 102  | 102  | 102  | 102  | 102  | 102  | 102  | 102  | 102  | 103  | 103  | 103  | 104  | 104  | 105  | 105  | 106  | 106  |
| 70                 | 67.3 | 67.4 | 67.6 | 67.8 | 68.0 | 68.2 | 68.5 | 68.7 | 69.0 | 69.3 | 69.5 | 69.8 | 70.1 | 70.4 | 70.7 | 71.1 | 71.4 | 71.8 | 72.3 |
| 75                 | 37.1 | 37.6 | 38.0 | 38.4 | 38.8 | 39.1 | 39.5 | 39.8 | 40.0 | 40.3 | 40.3 | 40.4 | 40.5 | 40.5 | 40.6 | 40.7 | 40.8 | 40.9 | 41.1 |
| 80                 | 19.6 | 19.9 | 20.2 | 20.4 | 20.6 | 20.8 | 21.0 | 21.2 | 21.4 | 21.6 | 21.6 | 21.7 | 21.8 | 21.8 | 21.9 | 22.0 | 22.1 | 22.2 | 22.4 |
| 85                 | 15.5 | 14.6 | 13.9 | 13.1 | 12.5 | 11.9 | 11.4 | 10.9 | 10.5 | 10.2 | 9.96 | 9.77 | 9.64 | 9.57 | 9.56 | 9.67 | 9.77 | 9.88 | 10.1 |
| 90                 | 46.8 | 44.1 | 41.5 | 38.9 | 36.3 | 33.8 | 31.2 | 28.7 | 26.1 | 23.6 | 19.7 | 15.9 | 12.4 | 9.15 | 6.37 | 4.15 | 2.59 | 1.85 | 1.88 |
| 95                 | 109  | 106  | 103  | 99.9 | 96.3 | 92.4 | 88.1 | 83.4 | 78.4 | 73.1 | 63.5 | 53.8 | 44.3 | 35.4 | 27.4 | 20.4 | 14.9 | 11.1 | 9.35 |
| 100                | 155  | 152  | 149  | 145  | 141  | 137  | 132  | 126  | 120  | 113  | 101  | 88.6 | 76.6 | 65.2 | 54.8 | 45.7 | 38.5 | 33.3 | 30.6 |
| 105                | 192  | 190  | 188  | 186  | 182  | 178  | 173  | 168  | 161  | 154  | 140  | 126  | 112  | 99.1 | 86.9 | 76.2 | 67.5 | 61.3 | 57.9 |
| 110                | 236  | 236  | 235  | 233  | 230  | 226  | 222  | 216  | 209  | 201  | 185  | 169  | 153  | 137  | 123  | 110  | 99.5 | 91.9 | 87.5 |
| 115                | 286  | 286  | 285  | 283  | 280  | 276  | 271  | 264  | 256  | 248  | 230  | 211  | 193  | 175  | 158  | 144  | 132  | 123  | 118  |
| 120                | 336  | 336  | 334  | 331  | 326  | 321  | 315  | 307  | 298  | 288  | 269  | 249  | 229  | 210  | 192  | 177  | 164  | 154  | 149  |
| 125                | 388  | 385  | 380  | 374  | 368  | 360  | 352  | 343  | 332  | 321  | 301  | 280  | 260  | 240  | 223  | 207  | 194  | 185  | 180  |
| 130                | 435  | 428  | 420  | 411  | 402  | 392  | 382  | 371  | 359  | 347  | 326  | 306  | 286  | 267  | 250  | 235  | 223  | 215  | 210  |
| 135                | 466  | 456  | 446  | 436  | 425  | 414  | 402  | 391  | 379  | 366  | 347  | 327  | 309  | 291  | 275  | 262  | 251  | 244  | 240  |
| 140                | 486  | 475  | 463  | 451  | 439  | 428  | 416  | 404  | 392  | 379  | 362  | 344  | 327  | 312  | 298  | 287  | 277  | 271  | 268  |
| 145                | 487  | 475  | 464  | 453  | 442  | 431  | 420  | 409  | 398  | 388  | 372  | 358  | 344  | 331  | 320  | 310  | 302  | 298  | 295  |
| 150                | 473  | 463  | 454  | 445  | 436  | 427  | 418  | 410  | 401  | 393  | 381  | 369  | 358  | 348  | 339  | 332  | 326  | 322  | 321  |
| 155                | 453  | 447  | 440  | 434  | 427  | 421  | 414  | 408  | 402  | 396  | 387  | 378  | 370  | 363  | 356  | 351  | 347  | 344  | 343  |
| 160                | 434  | 430  | 426  | 421  | 417  | 413  | 409  | 405  | 401  | 397  | 391  | 385  | 380  | 375  | 371  | 367  | 365  | 363  | 362  |
| 165                | 418  | 416  | 414  | 411  | 409  | 406  | 404  | 402  | 399  | 397  | 394  | 390  | 387  | 385  | 382  | 380  | 379  | 378  | 377  |
| 170                | 406  | 405  | 404  | 403  | 402  | 401  | 400  | 399  | 398  | 397  | 396  | 395  | 393  | 392  | 391  | 390  | 389  | 389  | 389  |
| 175                | 398  | 398  | 398  | 398  | 398  | 398  | 398  | 398  | 398  | 398  | 397  | 397  | 397  | 397  | 396  | 396  | 396  | 396  | 396  |
| 180                | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

# LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                |                 |                  |
|--------------------------------------------------------------------------------|-----------------|------------------|
| Test:U:120.7V I:0.4070A P:49.00W PF:0.9900 Freq:60.00Hz Lamp Flux:6845.95x1 lm |                 |                  |
| NAME: 4FT                                                                      | TYPE:4000K 2.8  | WEIGHT:          |
| SPEC.:                                                                         | DIM.:           | SERIAL No.:      |
| MFR.: EVERFINE                                                                 | SUR.:1.12*0.045 | Shielding Angle: |

Table--2

UNIT: cd

| C (DEG)<br>γ (DEG) | 95   | 100  | 105  | 110  | 115  | 120  | 125  | 130  | 135  | 140  | 145  | 150  | 155  | 160  | 165  | 170  | 175  | 180  | 185  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                  | 3442 | 3441 | 3441 | 3440 | 3440 | 3440 | 3439 | 3439 | 3440 | 3441 | 3442 | 3444 | 3445 | 3447 | 3448 | 3449 | 3451 | 3452 | 3452 |
| 5                  | 3437 | 3437 | 3437 | 3437 | 3437 | 3437 | 3437 | 3437 | 3437 | 3437 | 3436 | 3436 | 3435 | 3434 | 3434 | 3433 | 3432 | 3432 | 3431 |
| 10                 | 3410 | 3410 | 3409 | 3409 | 3408 | 3408 | 3407 | 3406 | 3405 | 3403 | 3402 | 3400 | 3399 | 3397 | 3395 | 3393 | 3391 | 3389 | 3387 |
| 15                 | 3354 | 3354 | 3354 | 3353 | 3352 | 3351 | 3349 | 3348 | 3345 | 3343 | 3340 | 3337 | 3333 | 3330 | 3326 | 3322 | 3318 | 3314 | 3310 |
| 20                 | 3260 | 3261 | 3262 | 3261 | 3261 | 3260 | 3258 | 3256 | 3253 | 3248 | 3242 | 3236 | 3229 | 3222 | 3215 | 3208 | 3200 | 3193 | 3186 |
| 25                 | 3104 | 3106 | 3108 | 3109 | 3109 | 3108 | 3107 | 3104 | 3101 | 3092 | 3083 | 3072 | 3061 | 3050 | 3038 | 3025 | 3013 | 3001 | 2992 |
| 30                 | 2836 | 2844 | 2852 | 2860 | 2866 | 2872 | 2875 | 2877 | 2877 | 2864 | 2849 | 2832 | 2813 | 2794 | 2773 | 2753 | 2733 | 2713 | 2701 |
| 35                 | 2348 | 2376 | 2406 | 2436 | 2465 | 2493 | 2516 | 2535 | 2547 | 2514 | 2474 | 2430 | 2383 | 2334 | 2285 | 2237 | 2191 | 2150 | 2149 |
| 40                 | 1526 | 1594 | 1669 | 1748 | 1826 | 1901 | 1968 | 2026 | 2069 | 2002 | 1922 | 1831 | 1733 | 1633 | 1534 | 1439 | 1352 | 1276 | 1305 |
| 45                 | 797  | 872  | 955  | 1041 | 1129 | 1213 | 1291 | 1358 | 1412 | 1355 | 1284 | 1203 | 1114 | 1021 | 928  | 838  | 754  | 680  | 699  |
| 50                 | 333  | 376  | 423  | 472  | 521  | 569  | 613  | 652  | 683  | 652  | 613  | 569  | 521  | 470  | 420  | 371  | 325  | 286  | 298  |
| 55                 | 182  | 201  | 221  | 242  | 264  | 285  | 304  | 320  | 334  | 320  | 304  | 285  | 264  | 242  | 220  | 199  | 179  | 162  | 167  |
| 60                 | 138  | 143  | 149  | 155  | 161  | 167  | 172  | 176  | 180  | 177  | 172  | 167  | 162  | 156  | 150  | 144  | 138  | 133  | 133  |
| 65                 | 107  | 108  | 109  | 109  | 110  | 110  | 111  | 111  | 111  | 111  | 110  | 109  | 109  | 108  | 107  | 106  | 105  | 104  | 103  |
| 70                 | 73.0 | 73.8 | 74.6 | 75.3 | 75.9 | 76.5 | 76.9 | 77.3 | 77.4 | 76.7 | 75.9 | 74.9 | 73.9 | 72.7 | 71.6 | 70.4 | 69.3 | 68.2 | 67.8 |
| 75                 | 41.9 | 42.7 | 43.4 | 44.2 | 44.9 | 45.6 | 46.1 | 46.5 | 46.8 | 46.1 | 45.3 | 44.3 | 43.3 | 42.2 | 41.1 | 40.1 | 39.0 | 38.0 | 37.8 |
| 80                 | 22.8 | 23.3 | 23.8 | 24.2 | 24.6 | 25.0 | 25.3 | 25.6 | 25.7 | 25.3 | 24.9 | 24.3 | 23.7 | 23.1 | 22.4 | 21.8 | 21.2 | 20.6 | 20.5 |
| 85                 | 10.4 | 10.7 | 11.1 | 11.6 | 12.0 | 12.6 | 13.1 | 13.7 | 14.3 | 15.0 | 15.7 | 16.4 | 17.1 | 17.7 | 18.4 | 19.0 | 19.5 | 20.0 | 20.4 |
| 90                 | 6.56 | 12.1 | 18.2 | 24.9 | 31.8 | 39.0 | 46.2 | 53.1 | 59.8 | 63.3 | 66.3 | 68.9 | 71.1 | 73.1 | 74.7 | 76.2 | 77.4 | 78.5 | 81.7 |
| 95                 | 19.0 | 30.5 | 43.6 | 57.8 | 72.8 | 88.2 | 104  | 119  | 133  | 140  | 146  | 151  | 155  | 158  | 160  | 162  | 163  | 163  | 164  |
| 100                | 42.1 | 56.0 | 71.8 | 89.1 | 107  | 126  | 145  | 164  | 181  | 190  | 198  | 205  | 211  | 215  | 218  | 221  | 222  | 222  | 224  |
| 105                | 71.3 | 87.5 | 106  | 126  | 147  | 169  | 191  | 213  | 233  | 244  | 253  | 260  | 267  | 271  | 275  | 278  | 279  | 279  | 280  |
| 110                | 103  | 121  | 142  | 165  | 189  | 214  | 239  | 264  | 287  | 299  | 310  | 318  | 325  | 331  | 335  | 337  | 339  | 339  | 339  |
| 115                | 134  | 154  | 178  | 203  | 230  | 258  | 286  | 313  | 339  | 353  | 364  | 374  | 383  | 389  | 394  | 397  | 398  | 398  | 398  |
| 120                | 166  | 187  | 211  | 238  | 267  | 296  | 325  | 354  | 382  | 398  | 412  | 423  | 433  | 441  | 447  | 451  | 453  | 454  | 452  |
| 125                | 197  | 218  | 243  | 270  | 299  | 329  | 359  | 389  | 417  | 435  | 450  | 464  | 476  | 485  | 493  | 498  | 501  | 503  | 500  |
| 130                | 227  | 248  | 272  | 298  | 326  | 355  | 385  | 414  | 443  | 462  | 479  | 494  | 507  | 518  | 527  | 534  | 538  | 540  | 536  |
| 135                | 255  | 275  | 297  | 321  | 348  | 375  | 403  | 431  | 458  | 478  | 496  | 512  | 526  | 538  | 548  | 556  | 561  | 563  | 558  |
| 140                | 282  | 299  | 319  | 340  | 364  | 389  | 414  | 439  | 463  | 482  | 500  | 516  | 531  | 544  | 554  | 562  | 568  | 571  | 564  |
| 145                | 307  | 321  | 338  | 356  | 376  | 397  | 418  | 440  | 461  | 478  | 494  | 510  | 523  | 535  | 545  | 553  | 559  | 562  | 556  |
| 150                | 330  | 341  | 354  | 369  | 385  | 401  | 418  | 436  | 453  | 467  | 481  | 494  | 505  | 516  | 525  | 531  | 536  | 539  | 533  |
| 155                | 350  | 358  | 368  | 379  | 391  | 403  | 416  | 429  | 441  | 452  | 463  | 473  | 482  | 490  | 497  | 502  | 506  | 508  | 504  |
| 160                | 367  | 373  | 380  | 387  | 395  | 403  | 412  | 421  | 429  | 437  | 444  | 451  | 457  | 463  | 467  | 471  | 474  | 475  | 472  |
| 165                | 380  | 384  | 388  | 392  | 397  | 402  | 408  | 413  | 418  | 422  | 427  | 431  | 434  | 437  | 440  | 442  | 443  | 444  | 442  |
| 170                | 390  | 392  | 394  | 396  | 399  | 401  | 404  | 406  | 409  | 411  | 412  | 414  | 416  | 417  | 418  | 419  | 419  | 419  | 418  |
| 175                | 397  | 397  | 398  | 399  | 399  | 400  | 401  | 402  | 402  | 403  | 403  | 403  | 404  | 404  | 404  | 404  | 404  | 404  | 404  |
| 180                | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                |                 |                  |
|--------------------------------------------------------------------------------|-----------------|------------------|
| Test:U:120.7V I:0.4070A P:49.00W PF:0.9900 Freq:60.00Hz Lamp Flux:6845.95x1 lm |                 |                  |
| NAME: 4FT                                                                      | TYPE:4000K 2.8  | WEIGHT:          |
| SPEC.:                                                                         | DIM.:           | SERIAL No.:      |
| MFR.: EVERFINE                                                                 | SUR.:1.12*0.045 | Shielding Angle: |

Table--3

UNIT: cd

| C (DEG)<br>γ (DEG) | 190  | 195  | 200  | 205  | 210  | 215  | 220  | 225  | 230  | 235  | 240  | 245  | 250  | 255  | 260  | 265  | 270  | 275  | 280  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                  | 3452 | 3451 | 3451 | 3450 | 3450 | 3449 | 3448 | 3447 | 3447 | 3446 | 3446 | 3445 | 3445 | 3444 | 3444 | 3443 | 3443 | 3442 | 3441 |
| 5                  | 3430 | 3429 | 3429 | 3428 | 3427 | 3426 | 3426 | 3425 | 3424 | 3423 | 3423 | 3422 | 3421 | 3421 | 3420 | 3420 | 3419 | 3419 | 3418 |
| 10                 | 3385 | 3383 | 3382 | 3380 | 3378 | 3376 | 3374 | 3372 | 3371 | 3369 | 3367 | 3365 | 3364 | 3362 | 3361 | 3360 | 3359 | 3358 | 3358 |
| 15                 | 3306 | 3302 | 3298 | 3293 | 3289 | 3285 | 3281 | 3277 | 3274 | 3270 | 3267 | 3264 | 3261 | 3259 | 3256 | 3255 | 3253 | 3252 | 3251 |
| 20                 | 3180 | 3173 | 3167 | 3160 | 3154 | 3148 | 3142 | 3136 | 3129 | 3122 | 3115 | 3109 | 3103 | 3098 | 3094 | 3090 | 3087 | 3086 | 3086 |
| 25                 | 2983 | 2974 | 2965 | 2957 | 2949 | 2940 | 2932 | 2923 | 2910 | 2898 | 2886 | 2874 | 2863 | 2853 | 2844 | 2837 | 2831 | 2831 | 2833 |
| 30                 | 2690 | 2680 | 2670 | 2661 | 2652 | 2643 | 2633 | 2624 | 2609 | 2593 | 2578 | 2564 | 2550 | 2537 | 2525 | 2515 | 2507 | 2506 | 2507 |
| 35                 | 2153 | 2160 | 2169 | 2180 | 2191 | 2200 | 2208 | 2212 | 2181 | 2148 | 2112 | 2075 | 2039 | 2004 | 1972 | 1943 | 1920 | 1931 | 1947 |
| 40                 | 1346 | 1396 | 1451 | 1509 | 1567 | 1622 | 1670 | 1709 | 1656 | 1593 | 1523 | 1449 | 1374 | 1300 | 1231 | 1169 | 1117 | 1149 | 1191 |
| 45                 | 729  | 767  | 810  | 855  | 901  | 945  | 983  | 1014 | 970  | 917  | 859  | 798  | 736  | 674  | 617  | 565  | 521  | 544  | 574  |
| 50                 | 316  | 339  | 365  | 392  | 419  | 445  | 469  | 488  | 465  | 438  | 408  | 376  | 342  | 310  | 278  | 250  | 226  | 236  | 251  |
| 55                 | 175  | 185  | 197  | 209  | 221  | 232  | 243  | 252  | 244  | 234  | 223  | 211  | 198  | 186  | 173  | 162  | 153  | 156  | 161  |
| 60                 | 134  | 135  | 137  | 138  | 140  | 142  | 143  | 145  | 143  | 141  | 139  | 137  | 134  | 132  | 130  | 127  | 125  | 125  | 125  |
| 65                 | 103  | 102  | 102  | 101  | 101  | 100  | 99.7 | 99.3 | 98.9 | 98.5 | 98.1 | 97.7 | 97.3 | 96.9 | 96.5 | 96.0 | 95.6 | 94.6 | 93.7 |
| 70                 | 67.4 | 67.0 | 66.8 | 66.5 | 66.3 | 66.1 | 65.8 | 65.6 | 65.1 | 64.5 | 64.0 | 63.4 | 62.8 | 62.3 | 61.7 | 61.1 | 60.6 | 59.9 | 59.3 |
| 75                 | 37.7 | 37.6 | 37.6 | 37.6 | 37.7 | 37.7 | 37.8 | 37.8 | 37.4 | 37.0 | 36.5 | 36.1 | 35.6 | 35.1 | 34.6 | 34.2 | 33.7 | 33.4 | 33.0 |
| 80                 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.5 | 20.4 | 20.2 | 19.9 | 19.6 | 19.2 | 18.9 | 18.6 | 18.2 | 17.9 | 17.6 | 17.4 | 17.3 |
| 85                 | 20.7 | 21.0 | 21.1 | 21.1 | 21.0 | 20.8 | 20.4 | 19.8 | 18.4 | 16.9 | 15.3 | 13.7 | 12.0 | 10.4 | 8.91 | 7.51 | 6.27 | 6.02 | 5.95 |
| 90                 | 84.7 | 87.3 | 89.5 | 91.0 | 91.9 | 91.9 | 90.9 | 88.9 | 79.8 | 69.8 | 59.3 | 48.5 | 37.7 | 27.4 | 17.7 | 9.08 | 1.77 | 3.65 | 6.93 |
| 95                 | 165  | 165  | 164  | 162  | 160  | 156  | 150  | 144  | 129  | 114  | 97.3 | 81.0 | 65.1 | 50.0 | 36.1 | 24.0 | 14.0 | 17.4 | 22.9 |
| 100                | 224  | 223  | 221  | 218  | 213  | 208  | 200  | 192  | 174  | 156  | 136  | 117  | 98.3 | 80.5 | 64.2 | 49.9 | 38.0 | 41.2 | 47.0 |
| 105                | 280  | 279  | 276  | 272  | 267  | 260  | 252  | 242  | 222  | 200  | 178  | 156  | 135  | 115  | 96.3 | 80.0 | 66.6 | 70.8 | 77.9 |
| 110                | 339  | 337  | 333  | 328  | 322  | 314  | 304  | 293  | 270  | 245  | 221  | 196  | 172  | 149  | 129  | 111  | 95.9 | 101  | 110  |
| 115                | 396  | 393  | 388  | 382  | 374  | 364  | 352  | 339  | 313  | 287  | 260  | 233  | 207  | 183  | 161  | 142  | 126  | 133  | 144  |
| 120                | 449  | 444  | 437  | 429  | 418  | 406  | 392  | 377  | 350  | 322  | 294  | 266  | 239  | 214  | 192  | 172  | 157  | 165  | 177  |
| 125                | 495  | 488  | 479  | 468  | 455  | 440  | 424  | 406  | 379  | 351  | 323  | 295  | 268  | 244  | 222  | 203  | 188  | 196  | 208  |
| 130                | 529  | 520  | 509  | 495  | 480  | 464  | 446  | 426  | 400  | 372  | 345  | 319  | 294  | 270  | 250  | 232  | 219  | 226  | 237  |
| 135                | 549  | 539  | 526  | 511  | 494  | 476  | 457  | 437  | 412  | 387  | 362  | 338  | 315  | 294  | 276  | 261  | 249  | 255  | 265  |
| 140                | 555  | 544  | 530  | 515  | 498  | 480  | 461  | 441  | 418  | 396  | 374  | 354  | 334  | 316  | 300  | 287  | 277  | 282  | 290  |
| 145                | 547  | 536  | 522  | 508  | 492  | 475  | 457  | 439  | 420  | 401  | 383  | 366  | 350  | 335  | 323  | 312  | 304  | 308  | 314  |
| 150                | 525  | 515  | 504  | 491  | 477  | 463  | 448  | 432  | 418  | 403  | 389  | 376  | 363  | 352  | 343  | 335  | 329  | 332  | 336  |
| 155                | 497  | 489  | 480  | 470  | 460  | 448  | 437  | 425  | 414  | 403  | 393  | 384  | 375  | 367  | 360  | 355  | 350  | 352  | 355  |
| 160                | 467  | 461  | 455  | 448  | 441  | 433  | 425  | 417  | 409  | 402  | 396  | 389  | 384  | 378  | 374  | 370  | 367  | 368  | 370  |
| 165                | 439  | 436  | 432  | 428  | 424  | 419  | 414  | 409  | 405  | 401  | 397  | 394  | 390  | 387  | 385  | 383  | 381  | 381  | 382  |
| 170                | 417  | 416  | 414  | 412  | 410  | 408  | 406  | 404  | 402  | 400  | 399  | 397  | 396  | 394  | 393  | 392  | 391  | 391  | 391  |
| 175                | 403  | 403  | 403  | 402  | 402  | 402  | 401  | 401  | 400  | 400  | 399  | 399  | 399  | 398  | 398  | 397  | 397  | 397  | 397  |
| 180                | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

### LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |                  |  |  |
|--------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|-----------------|--|--|--|--|--|------------------|--|--|
| Test:U:120.7V I:0.4070A P:49.00W PF:0.9900 Freq:60.00Hz Lamp Flux:6845.95x1 lm |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |                  |  |  |
| NAME: 4FT                                                                      |  |  |  |  |  |  |  |  | TYPE:4000K 2.8  |  |  |  |  |  | WEIGHT:          |  |  |
| SPEC.:                                                                         |  |  |  |  |  |  |  |  | DIM.:           |  |  |  |  |  | SERIAL No.:      |  |  |
| MFR.: EVERFINE                                                                 |  |  |  |  |  |  |  |  | SUR.:1.12*0.045 |  |  |  |  |  | Shielding Angle: |  |  |

Table--4

UNIT: cd

| C (DEG)<br>γ (DEG) | 285  | 290  | 295  | 300  | 305  | 310  | 315  | 320  | 325  | 330  | 335  | 340  | 345  | 350  | 355  |  |  |  |  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|
| 0                  | 3441 | 3440 | 3440 | 3440 | 3439 | 3439 | 3440 | 3440 | 3441 | 3442 | 3443 | 3444 | 3446 | 3448 | 3450 |  |  |  |  |
| 5                  | 3418 | 3418 | 3417 | 3417 | 3418 | 3418 | 3419 | 3420 | 3421 | 3423 | 3424 | 3426 | 3428 | 3431 | 3433 |  |  |  |  |
| 10                 | 3358 | 3358 | 3359 | 3359 | 3360 | 3362 | 3364 | 3366 | 3369 | 3372 | 3376 | 3379 | 3384 | 3388 | 3393 |  |  |  |  |
| 15                 | 3251 | 3252 | 3252 | 3254 | 3256 | 3259 | 3262 | 3266 | 3272 | 3278 | 3284 | 3292 | 3300 | 3308 | 3318 |  |  |  |  |
| 20                 | 3087 | 3089 | 3091 | 3095 | 3099 | 3105 | 3111 | 3118 | 3126 | 3135 | 3144 | 3155 | 3167 | 3179 | 3192 |  |  |  |  |
| 25                 | 2837 | 2842 | 2848 | 2856 | 2865 | 2874 | 2885 | 2896 | 2907 | 2919 | 2932 | 2945 | 2960 | 2975 | 2992 |  |  |  |  |
| 30                 | 2510 | 2515 | 2521 | 2529 | 2538 | 2549 | 2561 | 2573 | 2586 | 2600 | 2615 | 2631 | 2649 | 2667 | 2687 |  |  |  |  |
| 35                 | 1967 | 1991 | 2017 | 2044 | 2072 | 2099 | 2125 | 2136 | 2144 | 2150 | 2153 | 2154 | 2153 | 2149 | 2142 |  |  |  |  |
| 40                 | 1242 | 1298 | 1356 | 1416 | 1473 | 1527 | 1573 | 1577 | 1571 | 1556 | 1532 | 1499 | 1456 | 1404 | 1342 |  |  |  |  |
| 45                 | 612  | 654  | 699  | 745  | 790  | 832  | 869  | 875  | 873  | 865  | 850  | 829  | 801  | 766  | 725  |  |  |  |  |
| 50                 | 269  | 290  | 311  | 334  | 355  | 375  | 393  | 394  | 391  | 385  | 375  | 362  | 345  | 325  | 301  |  |  |  |  |
| 55                 | 167  | 174  | 182  | 189  | 197  | 203  | 209  | 209  | 207  | 204  | 200  | 195  | 188  | 180  | 170  |  |  |  |  |
| 60                 | 125  | 125  | 125  | 126  | 126  | 127  | 128  | 128  | 129  | 129  | 130  | 130  | 131  | 132  | 132  |  |  |  |  |
| 65                 | 92.8 | 92.0 | 91.2 | 90.6 | 90.1 | 89.8 | 89.7 | 90.2 | 91.0 | 91.9 | 93.2 | 94.6 | 96.3 | 98.2 | 100  |  |  |  |  |
| 70                 | 58.7 | 58.2 | 57.8 | 57.4 | 57.2 | 57.1 | 57.2 | 57.7 | 58.3 | 59.1 | 60.0 | 61.1 | 62.4 | 63.9 | 65.5 |  |  |  |  |
| 75                 | 32.7 | 32.5 | 32.3 | 32.2 | 32.1 | 32.1 | 32.2 | 32.4 | 32.7 | 33.1 | 33.6 | 34.1 | 34.8 | 35.5 | 36.2 |  |  |  |  |
| 80                 | 17.1 | 17.0 | 16.9 | 16.9 | 16.9 | 16.9 | 17.0 | 17.1 | 17.3 | 17.5 | 17.8 | 18.0 | 18.4 | 18.8 | 19.2 |  |  |  |  |
| 85                 | 6.04 | 6.29 | 6.66 | 7.16 | 7.74 | 8.41 | 9.13 | 9.67 | 10.2 | 10.9 | 11.5 | 12.2 | 13.0 | 13.8 | 14.6 |  |  |  |  |
| 90                 | 11.4 | 16.7 | 22.7 | 29.1 | 35.6 | 42.0 | 48.2 | 50.4 | 52.0 | 53.0 | 53.4 | 53.3 | 52.5 | 51.2 | 49.3 |  |  |  |  |
| 95                 | 30.3 | 39.2 | 49.1 | 59.8 | 70.8 | 81.8 | 92.4 | 97.2 | 101  | 105  | 107  | 109  | 110  | 110  | 110  |  |  |  |  |
| 100                | 55.0 | 64.6 | 75.7 | 87.6 | 100  | 113  | 125  | 131  | 137  | 141  | 145  | 149  | 151  | 153  | 154  |  |  |  |  |
| 105                | 87.5 | 99.0 | 112  | 126  | 141  | 155  | 169  | 175  | 181  | 185  | 189  | 191  | 193  | 193  | 193  |  |  |  |  |
| 110                | 122  | 136  | 152  | 168  | 185  | 202  | 218  | 226  | 231  | 236  | 239  | 241  | 242  | 241  | 239  |  |  |  |  |
| 115                | 157  | 173  | 191  | 210  | 229  | 248  | 266  | 275  | 281  | 286  | 290  | 292  | 293  | 292  | 290  |  |  |  |  |
| 120                | 192  | 210  | 229  | 250  | 271  | 292  | 312  | 322  | 329  | 335  | 339  | 342  | 343  | 342  | 340  |  |  |  |  |
| 125                | 223  | 240  | 260  | 280  | 302  | 323  | 344  | 354  | 363  | 371  | 377  | 382  | 386  | 388  | 389  |  |  |  |  |
| 130                | 251  | 268  | 286  | 307  | 327  | 349  | 369  | 381  | 391  | 401  | 409  | 416  | 423  | 428  | 432  |  |  |  |  |
| 135                | 278  | 294  | 311  | 330  | 349  | 369  | 389  | 400  | 411  | 421  | 431  | 439  | 447  | 454  | 461  |  |  |  |  |
| 140                | 300  | 313  | 327  | 343  | 359  | 377  | 394  | 405  | 417  | 427  | 438  | 448  | 458  | 468  | 477  |  |  |  |  |
| 145                | 322  | 332  | 344  | 357  | 371  | 385  | 400  | 410  | 420  | 430  | 439  | 449  | 459  | 468  | 477  |  |  |  |  |
| 150                | 343  | 350  | 359  | 369  | 380  | 391  | 402  | 410  | 418  | 426  | 434  | 442  | 449  | 457  | 465  |  |  |  |  |
| 155                | 359  | 365  | 371  | 378  | 385  | 393  | 401  | 407  | 412  | 418  | 424  | 430  | 436  | 442  | 448  |  |  |  |  |
| 160                | 373  | 376  | 380  | 385  | 389  | 394  | 399  | 403  | 407  | 411  | 414  | 418  | 422  | 426  | 430  |  |  |  |  |
| 165                | 383  | 385  | 387  | 389  | 392  | 395  | 397  | 399  | 402  | 404  | 406  | 409  | 411  | 413  | 416  |  |  |  |  |
| 170                | 392  | 392  | 393  | 394  | 395  | 396  | 397  | 397  | 398  | 399  | 400  | 401  | 402  | 403  | 404  |  |  |  |  |
| 175                | 397  | 397  | 397  | 397  | 397  | 397  | 397  | 397  | 397  | 397  | 397  | 397  | 398  | 398  | 398  |  |  |  |  |
| 180                | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks: