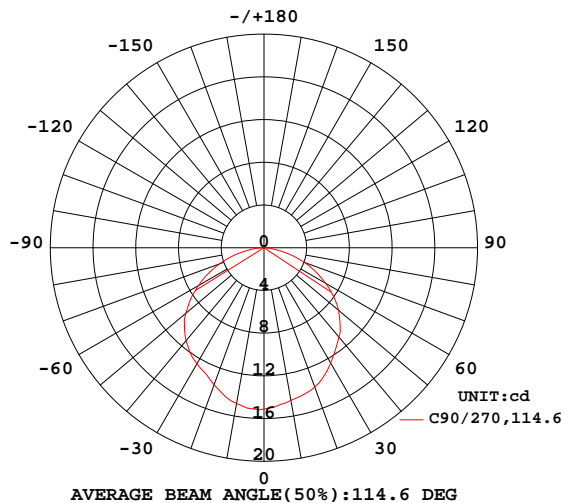


## LUMINAIRE PHOTOMETRIC TEST REPORT

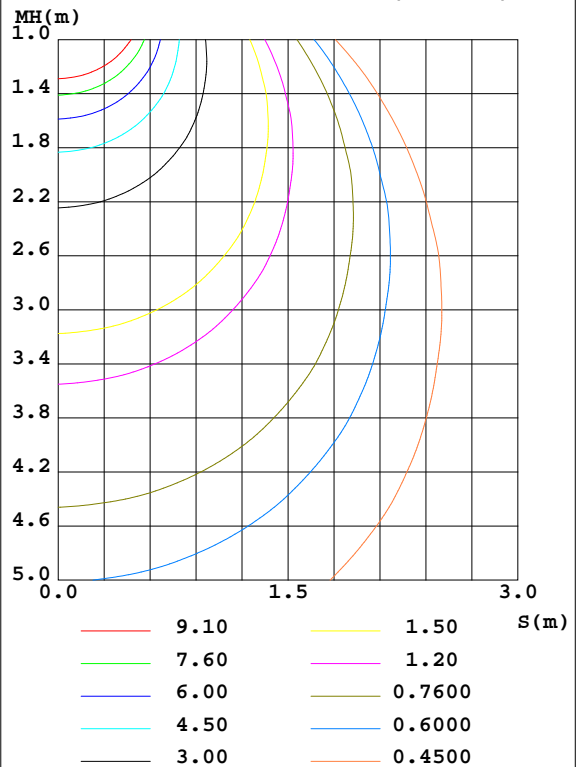
|  |                 |                    |
|--|-----------------|--------------------|
| NAME: C-FR-F17B-VB-AC12V-A-WT-30-1.8W-100-1M | TYPE: /         | WEIGHT: 0.096kg/m  |
| SPEC.:                                       | DIM.: 6*12mm    | SERIAL No.:        |
| MFR.: CLEAR                                  | SUR.: 12*1000mm | Shielding Angle: / |

| DATA OF LAMP     |        | PHOTOMETRIC DATA Eff: 23.44 lm/W |        |                        |          |
|------------------|--------|----------------------------------|--------|------------------------|----------|
| MODEL            | 2835   | Imax(cd)                         | 15.18  | S/MH(C0/180)           | 1.15     |
| NOMINAL POWER(W) | 1.8    | LOR(%)                           | 97.1   | S/MH(C90/270)          | 1.25     |
| RATED VOLTAGE(V) | 12     | TOTAL FLUX(lm)                   | 40.183 | $\eta$ UP,DN(C0-180)   | 0.0,48.5 |
| NOMINAL FLUX(lm) | 41.385 | CIE CLASS                        | DIRECT | $\eta$ UP,DN(C180-360) | 0.0,48.5 |
| LAMPS INSIDE     | 1      | $\eta$ up(%)                     | 0.0    | CIBSE SHR NOM          | 1.25     |
| TEST VOLTAGE(V)  | 12     | $\eta$ down(%)                   | 97.1   | CIBSE SHR MAX          | 1.35     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Dillon  
 Test Date:15 July 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:6.950m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

| γ   | C0                    | C45    | C90    | C135   | C180   | C225  | C270   | C315  | γ       | Φ zone  | Φ total | %lum, lamp |
|-----|-----------------------|--------|--------|--------|--------|-------|--------|-------|---------|---------|---------|------------|
| 10  | 14.63                 | 14.47  | 14.50  | 14.60  | 14.69  | 14.83 | 14.81  | 14.72 | 0- 10   | 1.419   | 1.419   | 3.53,3.43  |
| 20  | 13.35                 | 13.63  | 13.89  | 13.84  | 13.50  | 13.81 | 13.66  | 13.59 | 10- 20  | 4.015   | 5.434   | 13.5,13.1  |
| 30  | 11.31                 | 12.43  | 12.49  | 12.75  | 11.47  | 12.33 | 12.55  | 12.03 | 20- 30  | 5.990   | 11.42   | 28.4,27.6  |
| 40  | 8.903                 | 10.74  | 10.93  | 11.08  | 9.053  | 10.75 | 11.36  | 10.39 | 30- 40  | 7.134   | 18.56   | 46.2,44.8  |
| 50  | 6.472                 | 8.715  | 9.119  | 8.998  | 6.581  | 8.833 | 9.550  | 8.531 | 40- 50  | 7.359   | 25.92   | 64.5,62.6  |
| 60  | 4.210                 | 6.316  | 6.666  | 6.572  | 4.199  | 6.427 | 7.102  | 6.248 | 50- 60  | 6.551   | 32.47   | 80.8,78.5  |
| 70  | 2.113                 | 3.685  | 4.040  | 3.844  | 2.060  | 3.864 | 4.418  | 3.745 | 60- 70  | 4.794   | 37.26   | 92.7,90    |
| 80  | 0.3943                | 1.163  | 1.310  | 1.322  | 0.3538 | 1.373 | 1.838  | 1.269 | 70- 80  | 2.473   | 39.73   | 98.9,96    |
| 90  | 0                     | 0.0188 | 0.0405 | 0.0781 | 0      | 0     | 0.0092 | 0     | 80- 90  | 0.4386  | 40.17   | 100,97.1   |
| 100 | 0                     | 0.0000 | 0      | 0      | 0      | 0     | 0      | 0     | 90-100  | 0.0096  | 40.18   | 100,97.1   |
| 110 | 0                     | 0      | 0      | 0      | 0      | 0     | 0      | 0     | 100-110 | 0.0000  | 40.18   | 100,97.1   |
| 120 | 0                     | 0      | 0      | 0      | 0      | 0     | 0      | 0     | 110-120 | 0       | 40.18   | 100,97.1   |
| 130 | 0                     | 0      | 0      | 0      | 0      | 0     | 0      | 0     | 120-130 | 0       | 40.18   | 100,97.1   |
| 140 | 0                     | 0      | 0      | 0      | 0      | 0     | 0      | 0     | 130-140 | 0       | 40.18   | 100,97.1   |
| 150 | 0                     | 0      | 0      | 0      | 0      | 0     | 0      | 0     | 140-150 | 0       | 40.18   | 100,97.1   |
| 160 | 0                     | 0      | 0      | 0      | 0      | 0     | 0      | 0     | 150-160 | 0       | 40.18   | 100,97.1   |
| 170 | 0                     | 0      | 0      | 0      | 0      | 0     | 0      | 0     | 160-170 | 0       | 40.18   | 100,97.1   |
| 180 | 0                     | 0      | 0      | 0      | 0      | 0     | 0      | 0     | 170-180 | 0       | 40.18   | 100,97.1   |
| DEG | LUMINOUS INTENSITY:cd |        |        |        |        |       |        |       |         | UNIT:lm |         |            |

Conical surface Flux(90deg): 23.009 lm

%lum = 57.3%

%lamp = 55.6%

Conical surface Flux(120deg): 32.468 lm

%lum = 80.8%

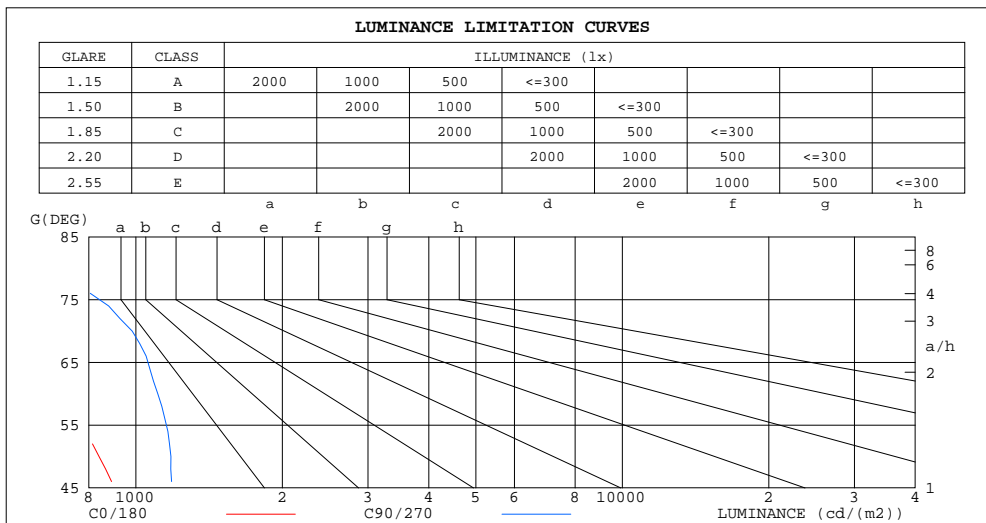
%lamp = 78.5%

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Dillon  
 Test Date:15 July 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:6.950m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

|  |                 |                    |
|--|-----------------|--------------------|
| NAME: C-FR-F17B-VB-AC12V-A-WT-30-1.8W-100-1M | TYPE: /         | WEIGHT: 0.096kg/m  |
| SPEC.:                                       | DIM.: 6*12mm    | SERIAL No.:        |
| MFR.: CLEAR                                  | SUR.: 12*1000mm | Shielding Angle: / |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 39     | 482     |
| 80                | 189    | 628     |
| 75                | 441    | 936     |
| 70                | 515    | 983     |
| 65                | 663    | 1108    |
| 60                | 702    | 1109    |
| 55                | 806    | 1192    |
| 50                | 840    | 1180    |
| 45                | 939    | 1208    |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Dillon  
Test Date: 15 July 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity: 65.0%  
Test Distance: 6.950m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|   |                 |                    |
|---|-----------------|--------------------|
| NAME: C-FR-FL17B-VB-AC12V-A-WT-30-1.8W-100-1M | TYPE: /         | WEIGHT: 0.096kg/m  |
| SPEC.:  | DIM.: 6*12mm    | SERIAL No.:        |
| MFR.: CLEAR                                   | SUR.: 12*1000mm | 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 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |

| LAMPS |   | LUMINAIRE BUDGETARY DIAGRAM |    |       |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
|-------|---|-----------------------------|----|-------|----|----|----|-----|-----|-----|-----|-----|----|----|----|----|----|----|--|--|--|--|
| 50    | 2 | CONDITIONS                  |    |       |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
| 40    |   | FLUX                        |    | 40lm  |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
| 30    |   | FACTOR                      |    | 0.70  |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
|       |   | Hdown                       |    | 0.00m |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
|       |   | Hwork                       |    | 0.80m |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
| 20    |   | Ework(AVE)                  |    | 100lx |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
|       |   | ρ (%)                       |    | cc    | w  | fc |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
|       |   |                             |    | 70    | 50 | 30 |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
|       |   |                             |    | 50    | 30 | 20 |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
|       |   |                             |    |       |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
| 10    |   |                             |    |       |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
| 9     |   |                             |    |       |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
| 8     |   |                             |    |       |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
| 7     |   |                             |    |       |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
| 6     |   |                             |    |       |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
| 5     |   |                             |    |       |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
| 4     |   |                             |    |       |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
| 3     |   |                             |    |       |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
| 2     |   |                             |    |       |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |
|       |   | 10                          | 20 | 30    | 40 | 50 | 70 | 100 | 200 | 300 | 500 | 700 | 1k | 2k | 3k | 4k | 5k | 7k |  |  |  |  |
|       |   | AREA(m2)                    |    |       |    |    |    |     |     |     |     |     |    |    |    |    |    |    |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Dillon  
Test Date:15 July 2023

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

## WEC AND CCEC

|  |                 |                    |
|--|-----------------|--------------------|
| NAME: C-FR-F17B-VB-AC12V-A-WT-30-1.8W-100-1M | TYPE: /         | WEIGHT: 0.096kg/m  |
| SPEC.:                                       | DIM.: 6*12mm    | SERIAL No.:        |
| MFR.: CLEAR                                  | SUR.: 12*1000mm | 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  | .287                  | .163 | .052 | .280 | .160 | .051 | .268                            | .153 | .049 | .256 | .148 | .047 | .245 | .142 | .046 |   |
| 2.0  | .274                  | .150 | .046 | .268 | .148 | .046 | .257                            | .143 | .044 | .247 | .138 | .043 | .237 | .134 | .042 |   |
| 3.0  | .256                  | .136 | .041 | .250 | .134 | .040 | .240                            | .130 | .040 | .231 | .127 | .039 | .223 | .123 | .038 |   |
| 4.0  | .237                  | .123 | .036 | .232 | .122 | .036 | .224                            | .119 | .035 | .215 | .116 | .035 | .208 | .113 | .034 |   |
| 5.0  | .220                  | .112 | .032 | .216 | .111 | .032 | .208                            | .108 | .032 | .201 | .106 | .031 | .194 | .104 | .031 |   |
| 6.0  | .204                  | .102 | .029 | .201 | .101 | .029 | .194                            | .099 | .029 | .187 | .097 | .029 | .181 | .095 | .028 |   |
| 7.0  | .191                  | .094 | .027 | .187 | .093 | .027 | .181                            | .092 | .026 | .175 | .090 | .026 | .170 | .088 | .026 |   |
| 8.0  | .178                  | .087 | .024 | .175 | .086 | .024 | .170                            | .085 | .024 | .164 | .083 | .024 | .160 | .082 | .024 |   |
| 9.0  | .167                  | .081 | .023 | .165 | .080 | .023 | .160                            | .079 | .022 | .155 | .078 | .022 | .150 | .076 | .022 |   |
| 10.0 | .157                  | .075 | .021 | .155 | .075 | .021 | .151                            | .074 | .021 | .146 | .073 | .021 | .142 | .072 | .021 |   |

| 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  | .185                  | .185 | .185 | .158 | .158 | .158 | .108                                       | .108 | .108 | .062 | .062 | .062 | .020 | .020 | .020 |   |
| 1.0  | .174                  | .152 | .132 | .149 | .130 | .113 | .102                                       | .090 | .078 | .059 | .052 | .046 | .019 | .017 | .015 |   |
| 2.0  | .166                  | .128 | .096 | .142 | .110 | .083 | .098                                       | .076 | .058 | .056 | .044 | .034 | .018 | .014 | .011 |   |
| 3.0  | .159                  | .111 | .073 | .136 | .096 | .063 | .093                                       | .067 | .045 | .054 | .039 | .026 | .017 | .013 | .009 |   |
| 4.0  | .151                  | .098 | .058 | .130 | .085 | .050 | .089                                       | .059 | .035 | .052 | .035 | .021 | .017 | .011 | .007 |   |
| 5.0  | .144                  | .088 | .047 | .124 | .076 | .040 | .085                                       | .053 | .029 | .049 | .031 | .017 | .016 | .010 | .006 |   |
| 6.0  | .137                  | .080 | .039 | .118 | .069 | .034 | .081                                       | .048 | .024 | .047 | .028 | .014 | .015 | .009 | .005 |   |
| 7.0  | .131                  | .073 | .033 | .112 | .063 | .029 | .078                                       | .044 | .020 | .045 | .026 | .012 | .015 | .009 | .004 |   |
| 8.0  | .125                  | .067 | .028 | .107 | .059 | .025 | .074                                       | .041 | .018 | .043 | .024 | .010 | .014 | .008 | .003 |   |
| 9.0  | .119                  | .063 | .025 | .102 | .054 | .022 | .071                                       | .038 | .015 | .041 | .023 | .009 | .013 | .007 | .003 |   |
| 10.0 | .113                  | .059 | .022 | .098 | .051 | .019 | .068                                       | .036 | .014 | .040 | .021 | .008 | .013 | .007 | .003 |   |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Dillon  
Test Date:15 July 2023

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

|   |     |     |     |     |                  |      |      |      |      |                    |      |      |      |      |
|---|-----|-----|-----|-----|------------------|------|------|------|------|--------------------|------|------|------|------|
| NAME: C-FR-F17B-VB-AC12V-A-WT-30-1.8W-100-1M                    |     |     |     |     | TYPE: /          |      |      |      |      | WEIGHT: 0.096kg/m  |      |      |      |      |
| SPEC.:  |     |     |     |     | DIM.: 6*12mm     |      |      |      |      | SERIAL No.:        |      |      |      |      |
| MFR.: CLEAR   |     |     |     |     | SUR.: 12*1000mm  |      |      |      |      | 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   |     |     |     |     | 23.4             | 24.8 | 23.6 | 25.1 | 25.3 | 24.6               | 26.1 | 24.9 | 26.3 | 26.5 |
| 3H  |     |     |     |     | 24.3             | 25.7 | 24.6 | 25.9 | 26.2 | 26.1               | 27.5 | 26.4 | 27.7 | 28.0 |
| 4H  |     |     |     |     | 24.5             | 25.9 | 24.9 | 26.1 | 26.4 | 26.6               | 27.9 | 26.9 | 28.2 | 28.4 |
| 6H  |     |     |     |     | 24.6             | 25.8 | 24.9 | 26.1 | 26.4 | 26.9               | 28.1 | 27.2 | 28.4 | 28.7 |
| 8H  |     |     |     |     | 24.5             | 25.7 | 24.9 | 26.0 | 26.3 | 26.9               | 28.1 | 27.3 | 28.4 | 28.7 |
| 12H   |     |     |     |     | 24.5             | 25.6 | 24.8 | 25.9 | 26.2 | 26.9               | 28.1 | 27.3 | 28.4 | 28.7 |
| 4H 2H   |     |     |     |     | 24.2             | 25.5 | 24.5 | 25.7 | 26.0 | 25.2               | 26.5 | 25.5 | 26.7 | 27.0 |
| 3H  |     |     |     |     | 25.4             | 26.5 | 25.7 | 26.8 | 27.1 | 26.8               | 28.0 | 27.2 | 28.3 | 28.6 |
| 4H  |     |     |     |     | 25.7             | 26.8 | 26.1 | 27.1 | 27.4 | 27.5               | 28.5 | 27.8 | 28.8 | 29.2 |
| 6H  |     |     |     |     | 25.8             | 26.7 | 26.2 | 27.1 | 27.5 | 27.8               | 28.8 | 28.2 | 29.1 | 29.5 |
| 8H  |     |     |     |     | 25.8             | 26.6 | 26.2 | 27.0 | 27.4 | 27.9               | 28.8 | 28.3 | 29.1 | 29.5 |
| 12H   |     |     |     |     | 25.7             | 26.5 | 26.2 | 26.9 | 27.3 | 27.9               | 28.7 | 28.3 | 29.1 | 29.5 |
| 8H 4H   |     |     |     |     | 26.0             | 26.9 | 26.4 | 27.3 | 27.6 | 27.6               | 28.5 | 28.0 | 28.8 | 29.2 |
| 6H  |     |     |     |     | 26.2             | 27.0 | 26.7 | 27.4 | 27.8 | 28.1               | 28.8 | 28.5 | 29.2 | 29.6 |
| 8H  |     |     |     |     | 26.2             | 26.9 | 26.7 | 27.3 | 27.7 | 28.2               | 28.8 | 28.7 | 29.3 | 29.7 |
| 12H   |     |     |     |     | 26.2             | 26.7 | 26.7 | 27.2 | 27.7 | 28.2               | 28.8 | 28.7 | 29.2 | 29.7 |
| 12H 4H  |     |     |     |     | 26.0             | 26.8 | 26.5 | 27.2 | 27.6 | 27.6               | 28.4 | 28.0 | 28.8 | 29.2 |
| 6H  |     |     |     |     | 26.3             | 26.9 | 26.7 | 27.3 | 27.8 | 28.1               | 28.7 | 28.5 | 29.1 | 29.6 |
| 8H  |     |     |     |     | 26.3             | 26.8 | 26.8 | 27.3 | 27.8 | 28.2               | 28.8 | 28.7 | 29.2 | 29.7 |
| Variations with the observer position at spacings(CIE Pub.117): |     |     |     |     |                  |      |      |      |      |                    |      |      |      |      |
| S = 1.0H  |     |     |     |     | + 0.3 / - 0.4    |      |      |      |      | + 0.1 / - 0.2      |      |      |      |      |
| 1.5H  |     |     |     |     | + 0.5 / - 0.7    |      |      |      |      | + 0.2 / - 0.4      |      |      |      |      |
| 2.0H  |     |     |     |     | + 0.4 / - 1.1    |      |      |      |      | + 0.3 / - 0.3      |      |      |      |      |

CIE Pub.117, 41.38 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -11.1)  
Area: 0.012 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Dillon  
Test Date:15 July 2023

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|  |                 |                    |
|--|-----------------|--------------------|
| NAME: C-FR-F17B-VB-AC12V-A-WT-30-1.8W-100-1M | TYPE: /         | WEIGHT: 0.096kg/m  |
| SPEC.:                                       | DIM.: 6*12mm    | SERIAL No.:        |
| MFR.: CLEAR                                  | SUR.: 12*1000mm | Shielding Angle: / |

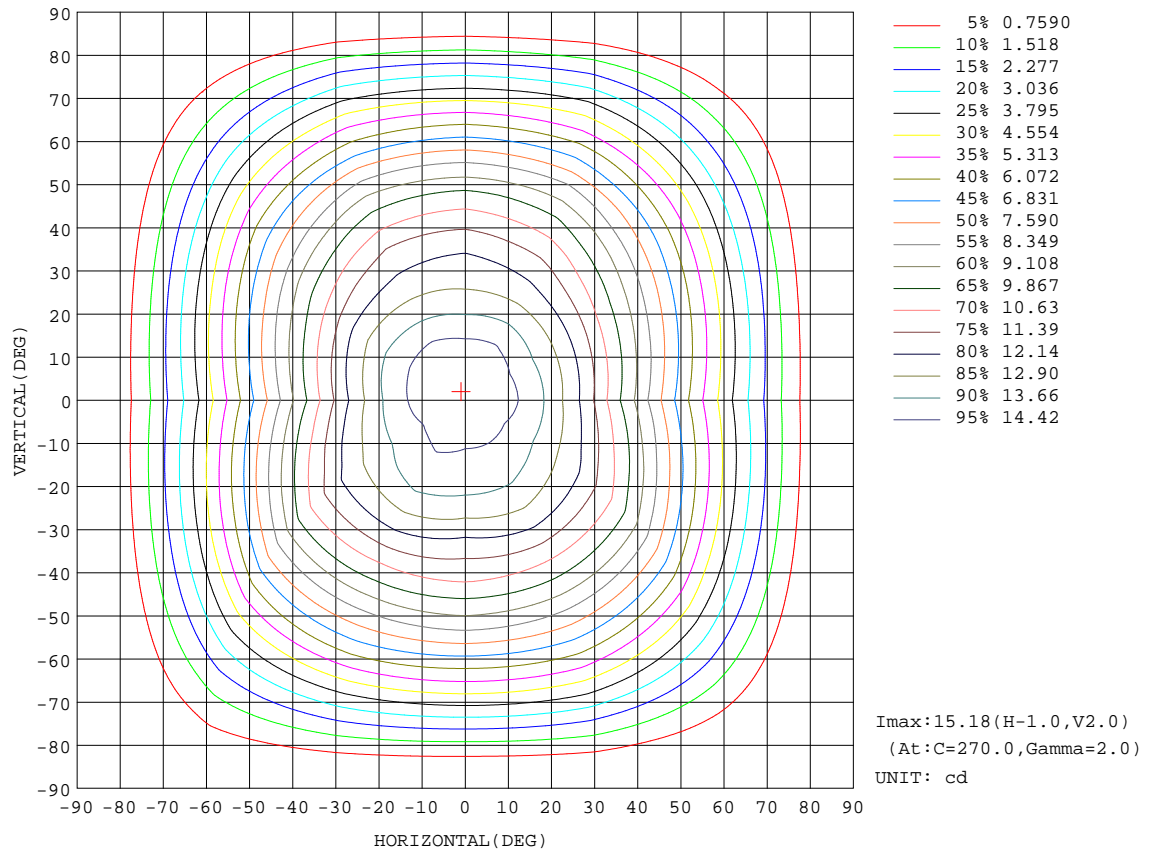
| REFLECTANCE                      |   |     |     |     |     |     |     |     |     |        |
|----------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0      |
| Walls                            | 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) $k(RI) \times RCR = 5$ |     |     |     |     |     |     |     |     |        |
| $k = 0.60$                       | 57  | 45  | 39  | 56  | 45  | 39  | 55  | 45  | 39  | 32     |
| 0.80                             | 66  | 55  | 48  | 65  | 55  | 48  | 64  | 54  | 48  | 41     |
| 1.00                             | 75  | 64  | 57  | 74  | 64  | 57  | 71  | 65  | 56  | 50     |
| 1.25                             | 82  | 72  | 65  | 80  | 71  | 65  | 78  | 70  | 64  | 57     |
| 1.50                             | 86  | 77  | 70  | 85  | 76  | 70  | 82  | 75  | 69  | 62     |
| 2.00                             | 93  | 85  | 79  | 91  | 84  | 78  | 88  | 82  | 77  | 69     |
| 2.50                             | 97  | 89  | 84  | 95  | 88  | 83  | 91  | 86  | 81  | 73     |
| 3.00                             | 100   | 94  | 88  | 98  | 92  | 87  | 94  | 89  | 85  | 77     |
| 4.00                             | 104   | 98  | 94  | 101 | 97  | 93  | 97  | 93  | 90  | 82     |
| 5.00                             | 106   | 102 | 98  | 104 | 100 | 96  | 99  | 96  | 93  | 85     |
| ROOM INDEX                       | UF(total)   |     |     |     |     |     |     |     |     | Direct |
| According to DIN EN 13032-2 2004 |   |     |     |     |     |     |     |     |     |        |
| Suspended                        |   |     |     |     |     |     |     |     |     |        |
| SHRNOM = 1.25                    |   |     |     |     |     |     |     |     |     |        |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Dillon  
Test Date:15 July 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

ISOCANDELA DIAGRAM

|  |                 |                    |
|--|-----------------|--------------------|
| NAME: C-FR-F17B-VB-AC12V-A-WT-30-1.8W-100-1M | TYPE: /         | WEIGHT: 0.096kg/m  |
| SPEC.:                                       | DIM.: 6*12mm    | SERIAL No.:        |
| MFR.: CLEAR                                  | SUR.: 12*1000mm | Shielding Angle: / |

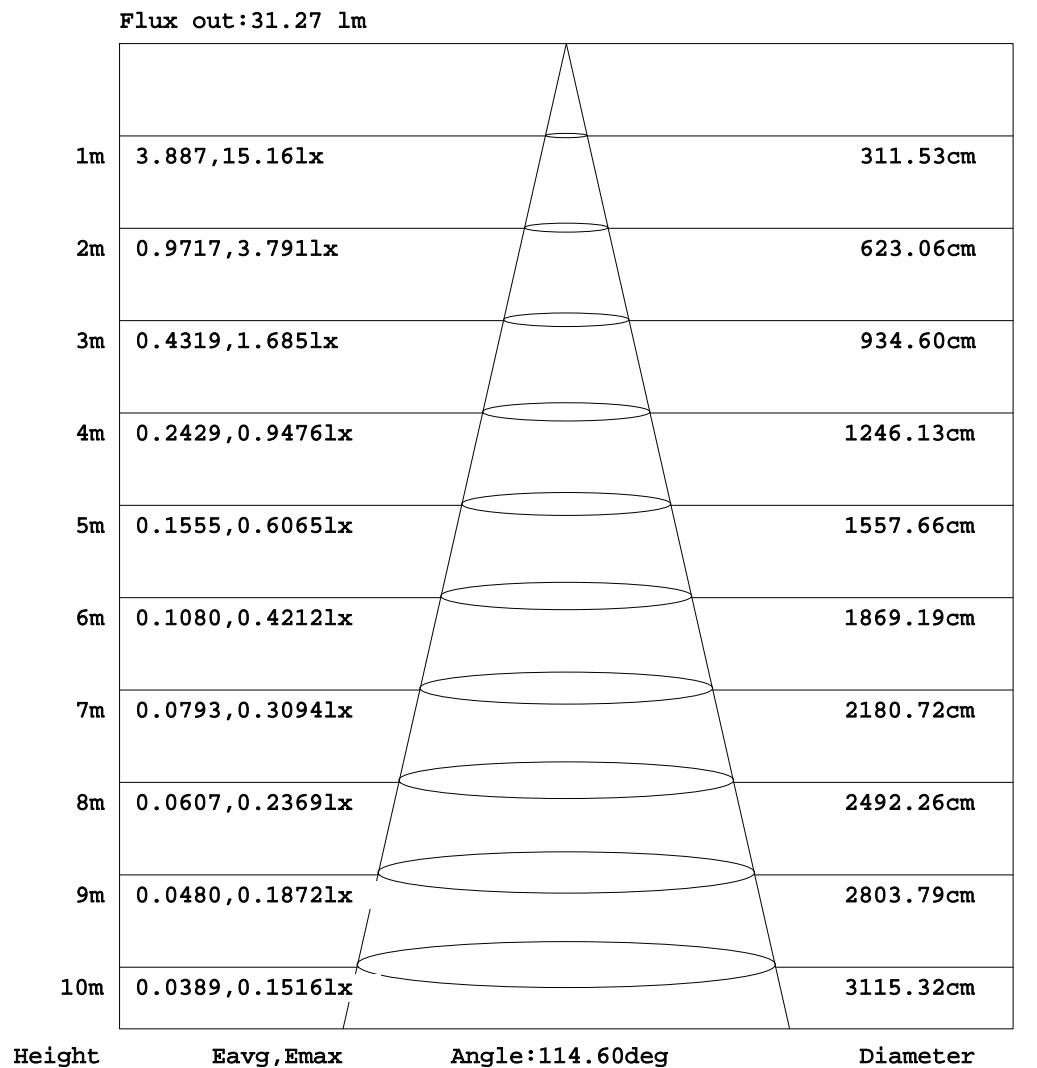


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Dillon  
Test Date:15 July 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

### AAI Figure

|  |                 |                    |
|--|-----------------|--------------------|
| NAME: C-FR-F17B-VB-AC12V-A-WT-30-1.8W-100-1M | TYPE: /         | WEIGHT: 0.096kg/m  |
| SPEC.:                                       | DIM.: 6*12mm    | SERIAL No.:        |
| MFR.: CLEAR                                  | SUR.: 12*1000mm | Shielding Angle: / |



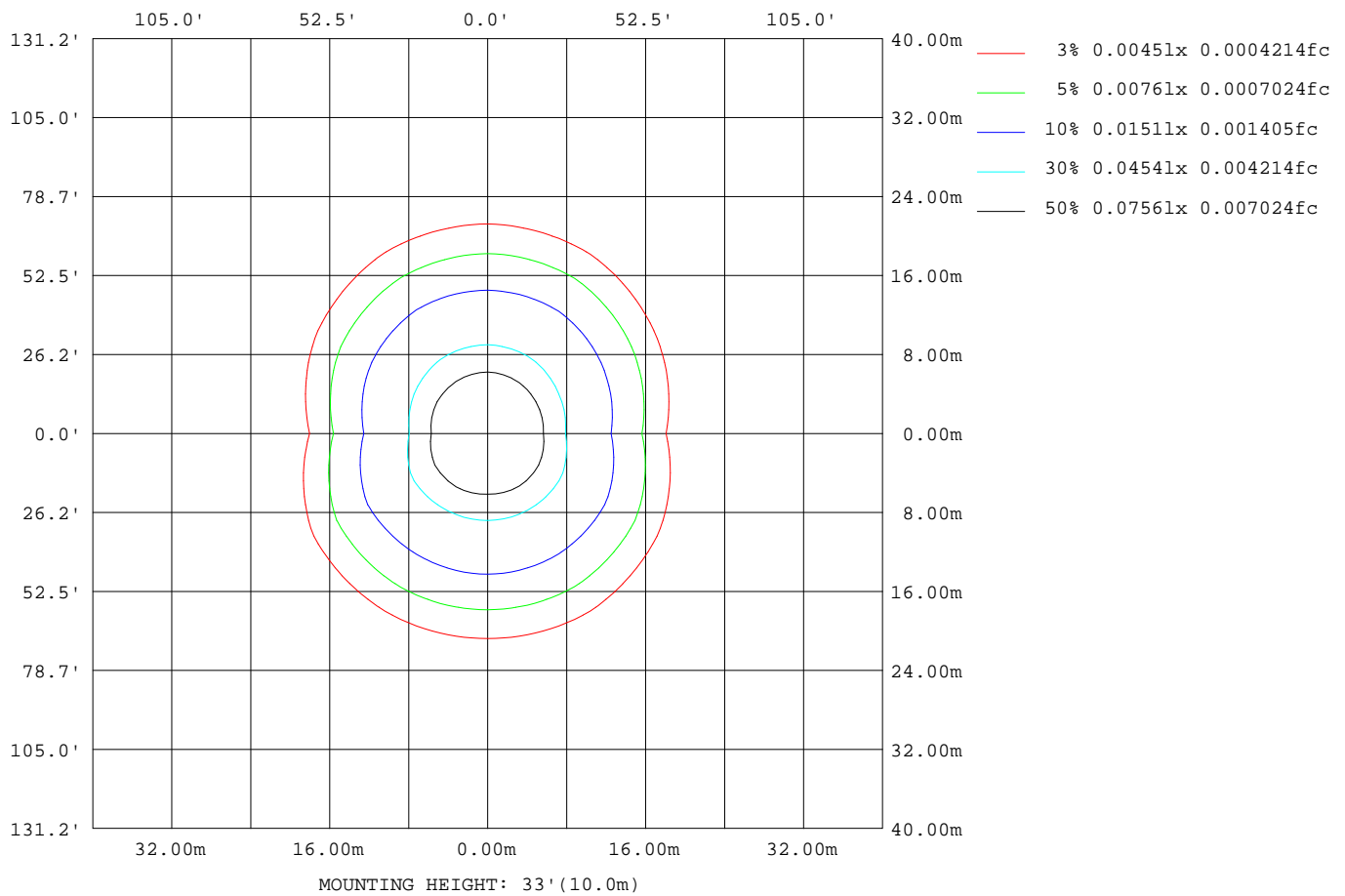
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Dillon  
 Test Date: 15 July 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 6.950m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

|  |                 |                    |
|--|-----------------|--------------------|
| NAME: C-FR-F17B-VB-AC12V-A-WT-30-1.8W-100-1M | TYPE: /         | WEIGHT: 0.096kg/m  |
| SPEC.:                                       | DIM.: 6*12mm    | SERIAL No.:        |
| MFR.: CLEAR                                  | SUR.: 12*1000mm | Shielding Angle: / |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Dillon  
 Test Date: 15 July 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 6.950m [K=1.0000]  
 Remarks:

## LED Avg.L Report

|  |                 |                    |
|--|-----------------|--------------------|
| NAME: C-FR-F17B-VB-AC12V-A-WT-30-1.8W-100-1M | TYPE: /         | WEIGHT: 0.096kg/m  |
| SPEC.:                                       | DIM.: 6*12mm    | SERIAL No.:        |
| MFR.: CLEAR                                  | SUR.: 12*1000mm | Shielding Angle: / |

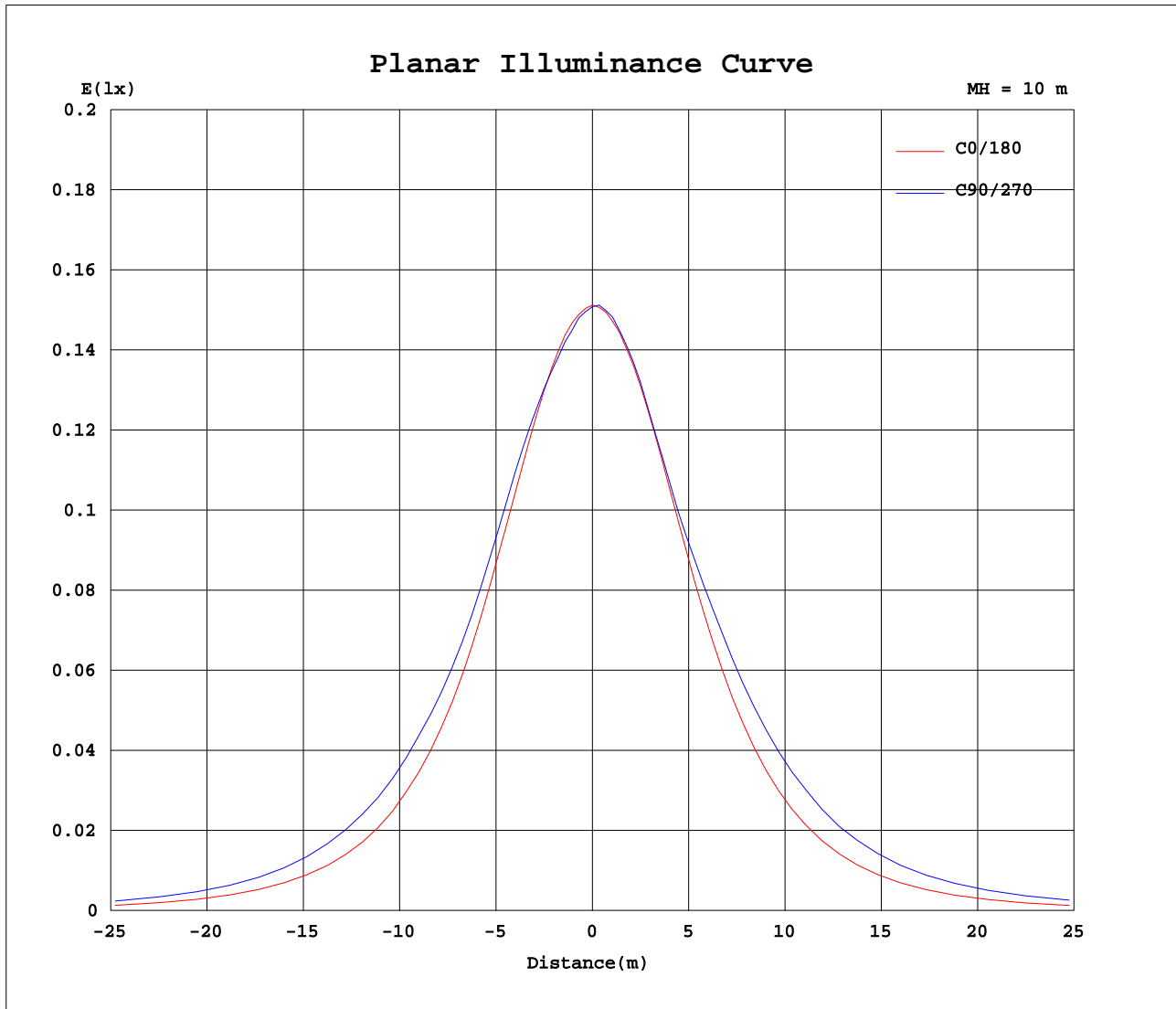
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 615   |
| L_0~180(75)av  | 382   |
| L_0~180(85)av  | 11    |
| L_90~270(65)av | 1103  |
| L_90~270(75)av | 925   |
| L_90~270(85)av | 442   |
| L_45(65)av     | 1024  |
| L_45(75)av     | 818   |
| L_45(85)av     | 305   |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Dillon  
Test Date:15 July 2023

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Dillon  
 Test Date: 15 July 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 6.950m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|  |                 |                    |
|--|-----------------|--------------------|
| NAME: C-FR-F17B-VB-AC12V-A-WT-30-1.8W-100-1M | TYPE: /         | WEIGHT: 0.096kg/m  |
| SPEC.:                                       | DIM.: 6*12mm    | SERIAL No.:        |
| MFR.: CLEAR                                  | SUR.: 12*1000mm | Shielding Angle: / |

Table--1

UNIT: cd

| C(DEG)<br>γ (DEG) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |  |  |  |  |  |  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0                 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 |  |  |  |  |  |  |
| 5                 | 15.0 | 14.9 | 14.9 | 14.9 | 15.0 | 15.0 | 15.0 | 15.1 | 15.1 | 15.1 | 15.1 | 15.0 |  |  |  |  |  |  |
| 10                | 14.6 | 14.4 | 14.5 | 14.5 | 14.6 | 14.6 | 14.7 | 14.8 | 14.8 | 14.8 | 14.8 | 14.7 |  |  |  |  |  |  |
| 15                | 14.2 | 14.1 | 14.2 | 14.3 | 14.4 | 14.3 | 14.3 | 14.5 | 14.5 | 14.5 | 14.4 | 14.3 |  |  |  |  |  |  |
| 20                | 13.3 | 13.5 | 13.8 | 13.9 | 14.0 | 13.7 | 13.5 | 13.9 | 13.8 | 13.7 | 13.7 | 13.5 |  |  |  |  |  |  |
| 25                | 12.6 | 13.0 | 13.4 | 13.4 | 13.6 | 13.4 | 12.8 | 13.2 | 13.2 | 13.1 | 13.0 | 12.9 |  |  |  |  |  |  |
| 30                | 11.3 | 12.3 | 12.6 | 12.5 | 12.8 | 12.7 | 11.5 | 12.3 | 12.4 | 12.5 | 12.2 | 11.8 |  |  |  |  |  |  |
| 35                | 10.3 | 11.6 | 11.9 | 11.8 | 12.1 | 12.2 | 10.5 | 11.4 | 12.0 | 12.2 | 11.7 | 11.0 |  |  |  |  |  |  |
| 40                | 8.90 | 10.6 | 10.8 | 10.9 | 11.0 | 11.2 | 9.05 | 10.3 | 11.2 | 11.4 | 10.9 | 9.87 |  |  |  |  |  |  |
| 45                | 7.96 | 9.88 | 10.1 | 10.3 | 10.2 | 10.4 | 8.05 | 9.52 | 10.5 | 10.7 | 10.2 | 9.13 |  |  |  |  |  |  |
| 50                | 6.47 | 8.53 | 8.89 | 9.12 | 8.95 | 9.05 | 6.58 | 8.24 | 9.42 | 9.55 | 9.12 | 7.94 |  |  |  |  |  |  |
| 55                | 5.54 | 7.58 | 8.02 | 8.22 | 8.08 | 8.06 | 5.60 | 7.38 | 8.52 | 8.65 | 8.32 | 7.05 |  |  |  |  |  |  |
| 60                | 4.21 | 6.02 | 6.61 | 6.67 | 6.67 | 6.47 | 4.20 | 5.97 | 6.88 | 7.10 | 6.79 | 5.70 |  |  |  |  |  |  |
| 65                | 3.36 | 4.92 | 5.62 | 5.63 | 5.63 | 5.36 | 3.31 | 4.97 | 5.89 | 6.07 | 5.76 | 4.71 |  |  |  |  |  |  |
| 70                | 2.11 | 3.35 | 4.01 | 4.04 | 3.97 | 3.71 | 2.06 | 3.38 | 4.35 | 4.42 | 4.27 | 3.22 |  |  |  |  |  |  |
| 75                | 1.37 | 2.33 | 2.91 | 2.91 | 2.90 | 2.67 | 1.33 | 2.37 | 3.26 | 3.36 | 3.20 | 2.25 |  |  |  |  |  |  |
| 80                | 0.39 | 0.97 | 1.36 | 1.31 | 1.36 | 1.28 | 0.35 | 1.03 | 1.72 | 1.84 | 1.61 | 0.92 |  |  |  |  |  |  |
| 85                | 0.04 | 0.25 | 0.51 | 0.51 | 0.54 | 0.53 | 0.03 | 0.28 | 0.75 | 0.86 | 0.69 | 0.20 |  |  |  |  |  |  |
| 90                | 0.00 | 0.00 | 0.03 | 0.04 | 0.05 | 0.10 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |  |  |  |  |  |  |
| 95                | 0.00 | 0.00 | 0.01 | 0.04 | 0.02 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 100               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 105               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 110               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 115               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 120               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 125               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 130               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 135               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 140               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 145               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 150               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 155               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 160               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 165               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 170               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 175               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 180               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |

C Range: 0 - 360DEG

C Interval: 30.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Dillon

Test Date:15 July 2023

γ Range: 0 - 180DEG

γ Interval: 2.0DEG

Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446

Humidity:65.0%

Test Distance:6.950m [K=1.0000]

Remarks: