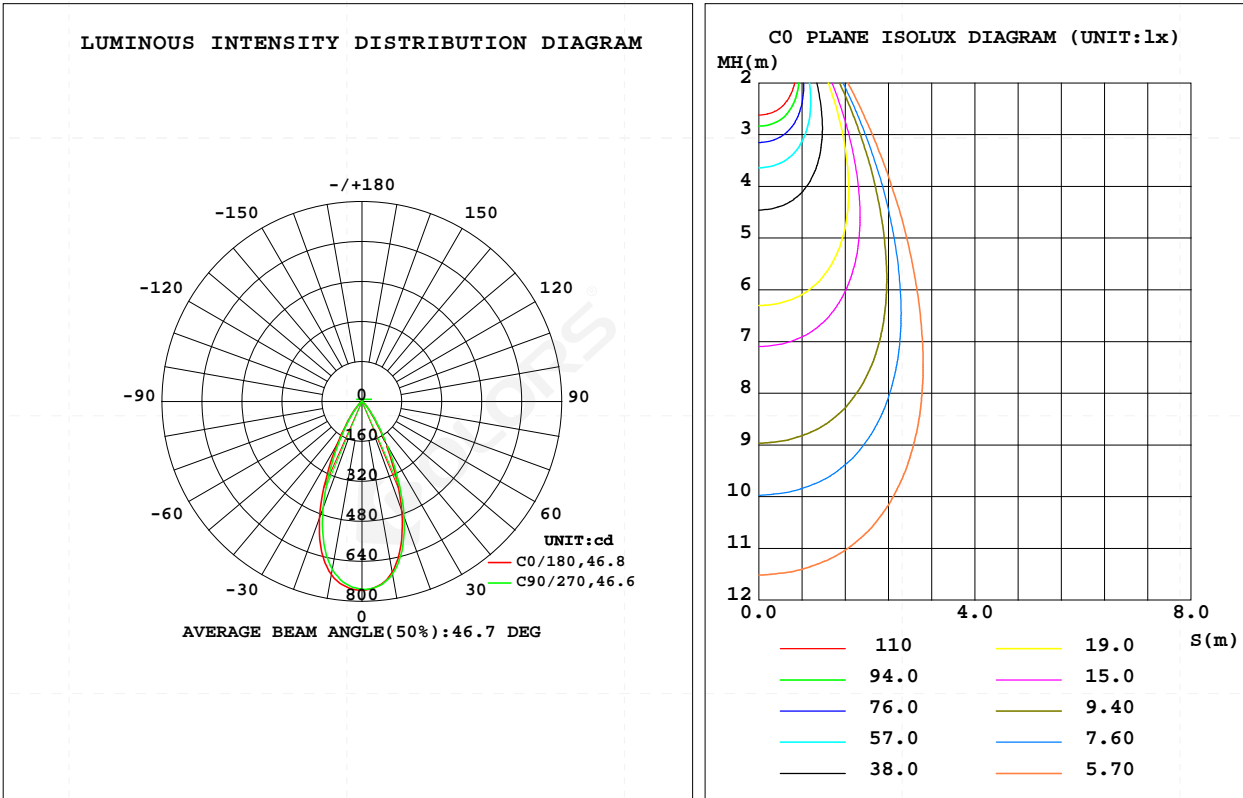


LUMINAIRE PHOTOMETRIC TEST REPORT

|   |            |                  |
|---|------------|------------------|
| Test:U:48.00V I:0.1250A P:6.000W PF:1.000 Freq:0Hz Lamp Flux:492.8x1 lm |            |                  |
| NAME: FD-HM40S5042(T)-N938B06   | TYPE:      | WEIGHT:          |
| SPEC.:  | DIM.: 40mm | SERIAL No.:      |
| MFR.: COLORS  | SUR.:40mm  | Shielding Angle: |

| DATA OF LAMP     |       | PHOTOMETRIC DATA      |        |                   |          | Eff: 82.13 lm/W |
|------------------|-------|-----------------------|--------|-------------------|----------|-----------------|
| MODEL            |       | I <sub>max</sub> (cd) | 755.6  | S/MH(C0/180)      | 0.71     |                 |
| NOMINAL POWER(W) | 6     | LOR(%)                | 100.0  | S/MH(C90/270)     | 0.71     |                 |
| RATED VOLTAGE(V) | 48    | TOTAL FLUX(lm)        | 492.80 | h UP,DN(C0-180)   | 1.7,49.7 |                 |
| NOMINAL FLUX(lm) | 492.8 | CIE CLASS             | DIRECT | h UP,DN(C180-360) | 1.5,47.1 |                 |
| LAMPS INSIDE     | 1     | h up(%)               | 3.2    | CIBSE SHR NOM     | 0.75     |                 |
| TEST VOLTAGE(V)  | 48    | h down(%)             | 96.8   | CIBSE SHR MAX     | 0.75     |                 |



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-04-22

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

ZONAL FLUX DIAGRAM

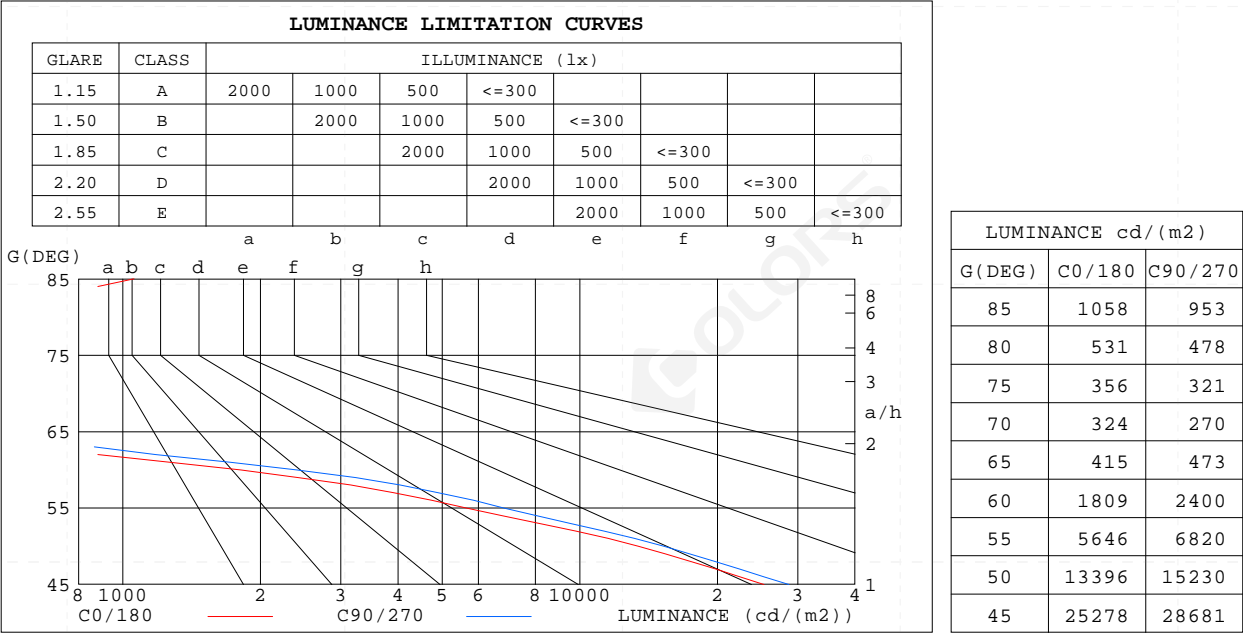
ZONAL FLUX DIAGRAM:

| g   | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | g       | F zone  | F total | %lum,lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|-----------|
| 10  | 694.1                 | 692.3  | 701.2  | 717.8  | 704.3  | 694.5  | 683.3  | 669.1  | 0- 10   | 69.18   | 69.18   | 14,14     |
| 20  | 466.4                 | 468.6  | 493.2  | 536.7  | 498.6  | 481.1  | 457.1  | 423.2  | 10- 20  | 166.8   | 236.0   | 47.9,47.9 |
| 30  | 182.1                 | 182.3  | 203.5  | 237.8  | 203.8  | 198.3  | 178.5  | 151.5  | 20- 30  | 148.2   | 384.2   | 78,78     |
| 40  | 46.52                 | 46.85  | 52.92  | 63.64  | 53.87  | 54.92  | 48.68  | 38.47  | 30- 40  | 66.17   | 450.4   | 91.4,91.4 |
| 50  | 11.19                 | 10.92  | 12.73  | 15.55  | 13.54  | 14.52  | 12.62  | 9.207  | 40- 50  | 20.94   | 471.3   | 95.6,95.6 |
| 60  | 1.176                 | 1.005  | 1.560  | 2.386  | 1.772  | 1.995  | 1.426  | 0.8592 | 50- 60  | 5.031   | 476.4   | 96.7,96.7 |
| 70  | 0.1439                | 0.1021 | 0.1199 | 0.1079 | 0.1319 | 0.1500 | 0.1259 | 0.1379 | 60- 70  | 0.4313  | 476.8   | 96.7,96.7 |
| 80  | 0.1199                | 0.1139 | 0.1079 | 0.1199 | 0.1379 | 0.1379 | 0.1259 | 0.1379 | 70- 80  | 0.1307  | 476.9   | 96.8,96.8 |
| 90  | 0.1199                | 0.1319 | 0.1079 | 0.1199 | 0.1499 | 0.1379 | 0.1379 | 0.1319 | 80- 90  | 0.1372  | 477.1   | 96.8,96.8 |
| 100 | 0.1680                | 0.2100 | 0.1679 | 0.1919 | 0.1859 | 0.1439 | 0.1919 | 0.1860 | 90-100  | 0.1618  | 477.2   | 96.8,96.8 |
| 110 | 0.3477                | 0.4082 | 0.3529 | 0.3300 | 0.2879 | 0.2274 | 0.2999 | 0.2878 | 100-110 | 0.2456  | 477.5   | 96.9,96.9 |
| 120 | 0.9533                | 1.008  | 0.9171 | 0.8227 | 0.6902 | 0.6234 | 0.7383 | 0.7665 | 110-120 | 0.5101  | 478.0   | 97,97     |
| 130 | 2.648                 | 2.617  | 2.463  | 2.231  | 1.795  | 1.726  | 1.933  | 2.087  | 120-130 | 1.258   | 479.2   | 97.2,97.2 |
| 140 | 5.190                 | 5.177  | 4.976  | 4.654  | 3.878  | 3.801  | 4.057  | 4.203  | 130-140 | 2.521   | 481.7   | 97.8,97.8 |
| 150 | 7.781                 | 7.846  | 7.669  | 7.376  | 6.537  | 6.337  | 6.603  | 6.589  | 140-150 | 3.618   | 485.4   | 98.5,98.5 |
| 160 | 9.550                 | 9.715  | 9.628  | 9.463  | 8.667  | 8.418  | 8.517  | 8.436  | 150-160 | 3.749   | 489.1   | 99.3,99.3 |
| 170 | 10.28                 | 10.37  | 10.37  | 10.38  | 9.876  | 9.755  | 9.630  | 9.497  | 160-170 | 2.704   | 491.8   | 99.8,99.8 |
| 180 | 10.65                 | 10.74  | 10.62  | 10.64  | 10.66  | 10.75  | 10.63  | 10.64  | 170-180 | 0.9814  | 492.8   | 100,100   |
| DEG | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |         | UNIT:lm |         |           |

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-04-22

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

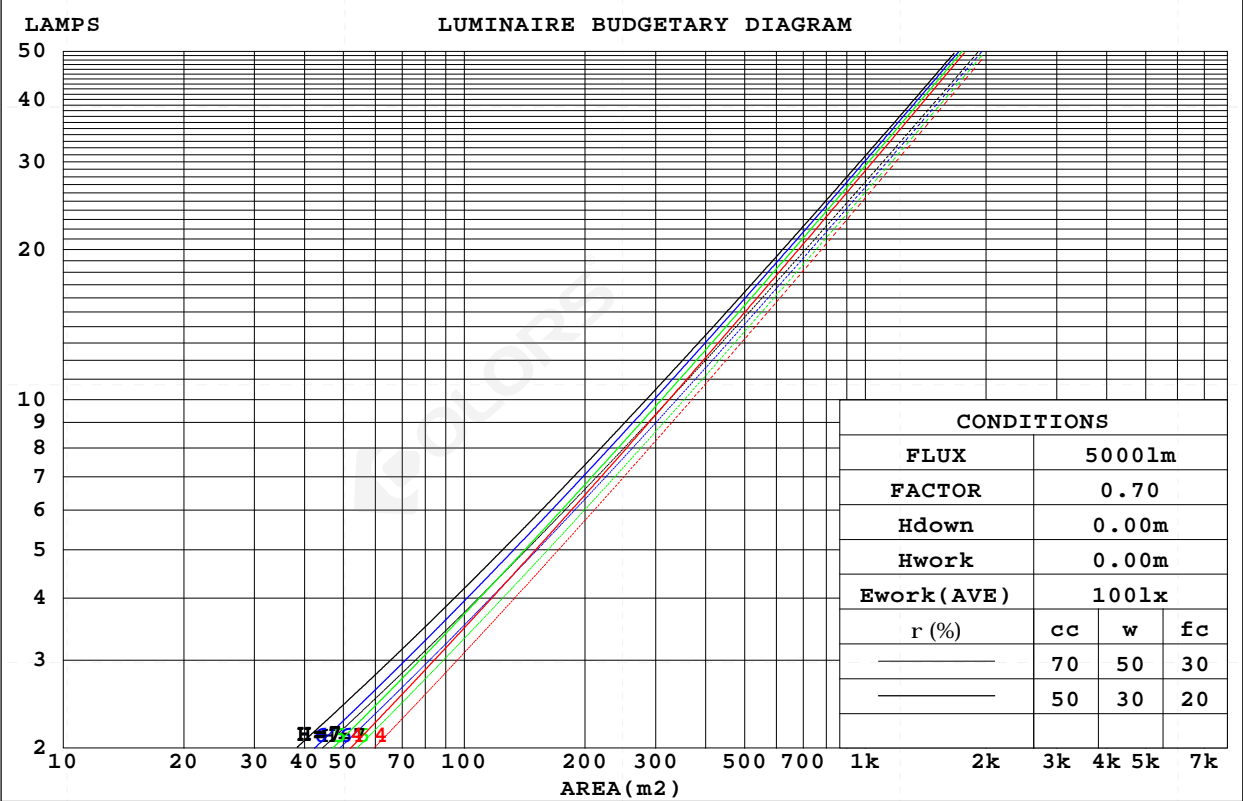


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-04-22

G Range: 0 - 180DEG  
G Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|      |  |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
|------|--|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| rcc  | 80%  |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10% |     |     | 0   |
| rw   | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50% | 30% | 10% | 0   |
| rfc  | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20% |     |     | 0   |
| RCR  | RCR:Room Cavity Ratio      Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 0.0  | 1.18   | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 1.09 | 1.09 | 1.09 | 1.04 | 1.04 | 1.04 | .99 | .99 | .99 | .97 |
| 1.0  | 1.10   | 1.08 | 1.06 | 1.08 | 1.06 | 1.04 | 1.03 | 1.02 | 1.00 | .99  | .98  | .97  | .95 | .94 | .93 | .91 |
| 2.0  | 1.03   | .99  | .96  | 1.01 | .98  | .95  | .98  | .95  | .92  | .94  | .92  | .90  | .91 | .89 | .88 | .86 |
| 3.0  | .97  | .92  | .89  | .95  | .91  | .88  | .92  | .89  | .86  | .89  | .87  | .84  | .87 | .84 | .82 | .81 |
| 4.0  | .91  | .86  | .82  | .90  | .85  | .81  | .87  | .83  | .80  | .85  | .82  | .79  | .83 | .80 | .78 | .76 |
| 5.0  | .86  | .80  | .76  | .85  | .80  | .76  | .83  | .78  | .75  | .81  | .77  | .74  | .79 | .76 | .73 | .72 |
| 6.0  | .81  | .76  | .72  | .80  | .75  | .71  | .78  | .74  | .71  | .77  | .73  | .70  | .75 | .72 | .69 | .68 |
| 7.0  | .77  | .71  | .67  | .76  | .71  | .67  | .75  | .70  | .67  | .73  | .69  | .66  | .72 | .68 | .65 | .64 |
| 8.0  | .73  | .67  | .64  | .72  | .67  | .63  | .71  | .66  | .63  | .70  | .66  | .62  | .69 | .65 | .62 | .61 |
| 9.0  | .69  | .64  | .60  | .69  | .64  | .60  | .68  | .63  | .60  | .67  | .62  | .59  | .66 | .62 | .59 | .58 |
| 10.0 | .66  | .61  | .57  | .66  | .60  | .57  | .65  | .60  | .57  | .64  | .59  | .56  | .63 | .59 | .56 | .55 |



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-04-22

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

WEC AND CCEC

| rcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| rw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| rfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .169                  | .096 | .031 | .162 | .092 | .029 | .147                            | .085 | .027 | .134 | .077 | .025 | .122 | .071 | .023 |   |
| 2.0  | .161                  | .088 | .027 | .155 | .085 | .026 | .142                            | .079 | .025 | .131 | .074 | .023 | .121 | .068 | .022 |   |
| 3.0  | .153                  | .081 | .024 | .147 | .079 | .024 | .137                            | .074 | .023 | .127 | .070 | .021 | .118 | .065 | .020 |   |
| 4.0  | .145                  | .075 | .022 | .140 | .073 | .022 | .131                            | .070 | .021 | .123 | .066 | .020 | .115 | .062 | .019 |   |
| 5.0  | .138                  | .070 | .020 | .134 | .069 | .020 | .126                            | .065 | .019 | .118 | .062 | .019 | .111 | .059 | .018 |   |
| 6.0  | .132                  | .066 | .019 | .128 | .065 | .019 | .121                            | .062 | .018 | .114 | .059 | .017 | .108 | .057 | .017 |   |
| 7.0  | .126                  | .062 | .018 | .122 | .061 | .017 | .116                            | .059 | .017 | .110 | .056 | .016 | .104 | .054 | .016 |   |
| 8.0  | .120                  | .059 | .017 | .117 | .058 | .016 | .112                            | .056 | .016 | .106 | .054 | .016 | .101 | .052 | .015 |   |
| 9.0  | .115                  | .056 | .016 | .112 | .055 | .015 | .107                            | .053 | .015 | .102 | .051 | .015 | .098 | .050 | .014 |   |
| 10.0 | .111                  | .053 | .015 | .108 | .052 | .015 | .103                            | .051 | .014 | .099 | .049 | .014 | .095 | .048 | .014 |   |

| rcc  | 80%  |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| rw   | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| rfc  | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.0  | .215   | .215 | .215 | .184 | .184 | .184 | .125 | .125 | .125 | .072 | .072 | .072 | .023 | .023 | .023 |   |
| 1.0  | .195   | .182 | .170 | .167 | .156 | .146 | .114 | .107 | .101 | .066 | .062 | .059 | .021 | .020 | .019 |   |
| 2.0  | .180   | .157 | .139 | .154 | .135 | .120 | .105 | .094 | .084 | .061 | .054 | .049 | .019 | .018 | .016 |   |
| 3.0  | .167   | .138 | .116 | .143 | .119 | .100 | .098 | .083 | .070 | .057 | .048 | .041 | .018 | .016 | .014 |   |
| 4.0  | .156   | .124 | .099 | .134 | .107 | .086 | .092 | .074 | .060 | .053 | .044 | .036 | .017 | .014 | .012 |   |
| 5.0  | .147   | .112 | .086 | .126 | .097 | .075 | .087 | .068 | .053 | .050 | .040 | .031 | .016 | .013 | .010 |   |
| 6.0  | .140   | .103 | .076 | .120 | .089 | .066 | .083 | .062 | .047 | .048 | .037 | .028 | .015 | .012 | .009 |   |
| 7.0  | .133   | .095 | .068 | .114 | .082 | .060 | .079 | .058 | .042 | .046 | .034 | .025 | .015 | .011 | .008 |   |
| 8.0  | .127   | .089 | .062 | .109 | .077 | .054 | .076 | .054 | .039 | .044 | .032 | .023 | .014 | .010 | .008 |   |
| 9.0  | .122   | .083 | .057 | .105 | .072 | .050 | .073 | .051 | .036 | .042 | .030 | .021 | .014 | .010 | .007 |   |
| 10.0 | .118   | .079 | .053 | .101 | .069 | .047 | .070 | .048 | .033 | .041 | .029 | .020 | .013 | .009 | .007 |   |

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JYH  
 Test Date:2024-04-22

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.375m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

|  |                  |               |      |      |      |                |               |      |      |      |
|--|------------------|---------------|------|------|------|----------------|---------------|------|------|------|
| 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                                      | 20.2             | 21.0          | 20.4 | 21.2 | 21.5 | 20.7           | 21.6          | 21.0 | 21.8 | 22.0 |
| 3H   | 20.0             | 20.8          | 20.3 | 21.0 | 21.3 | 20.5           | 21.3          | 20.8 | 21.6 | 21.8 |
| 4H   | 19.9             | 20.6          | 20.2 | 20.9 | 21.2 | 20.4           | 21.2          | 20.8 | 21.5 | 21.7 |
| 6H   | 19.8             | 20.5          | 20.2 | 20.8 | 21.1 | 20.3           | 21.0          | 20.7 | 21.3 | 21.6 |
| 8H   | 19.8             | 20.4          | 20.1 | 20.7 | 21.1 | 20.3           | 21.0          | 20.7 | 21.3 | 21.6 |
| 12H  | 19.7             | 20.4          | 20.1 | 20.7 | 21.0 | 20.2           | 20.9          | 20.6 | 21.2 | 21.5 |
| 4H 2H  | 19.9             | 20.7          | 20.2 | 20.9 | 21.2 | 20.4           | 21.2          | 20.8 | 21.5 | 21.7 |
| 3H   | 19.7             | 20.4          | 20.1 | 20.7 | 21.0 | 20.3           | 20.9          | 20.6 | 21.2 | 21.6 |
| 4H   | 19.6             | 20.2          | 20.0 | 20.6 | 20.9 | 20.2           | 20.7          | 20.5 | 21.1 | 21.5 |
| 6H   | 19.5             | 20.0          | 19.9 | 20.4 | 20.8 | 20.0           | 20.6          | 20.5 | 20.9 | 21.4 |
| 8H   | 19.5             | 19.9          | 19.9 | 20.3 | 20.8 | 20.0           | 20.5          | 20.4 | 20.9 | 21.3 |
| 12H  | 19.4             | 19.8          | 19.9 | 20.3 | 20.7 | 19.9           | 20.4          | 20.4 | 20.8 | 21.3 |
| 8H 4H  | 19.5             | 19.9          | 19.9 | 20.3 | 20.8 | 20.0           | 20.5          | 20.4 | 20.9 | 21.3 |
| 6H   | 19.3             | 19.7          | 19.8 | 20.2 | 20.7 | 19.9           | 20.3          | 20.4 | 20.7 | 21.2 |
| 8H   | 19.3             | 19.6          | 19.8 | 20.1 | 20.6 | 19.8           | 20.2          | 20.3 | 20.6 | 21.1 |
| 12H  | 19.2             | 19.5          | 19.8 | 20.0 | 20.6 | 19.8           | 20.1          | 20.3 | 20.6 | 21.1 |
| 12H 4H   | 19.4             | 19.8          | 19.9 | 20.3 | 20.7 | 19.9           | 20.4          | 20.4 | 20.8 | 21.2 |
| 6H   | 19.3             | 19.6          | 19.8 | 20.1 | 20.6 | 19.8           | 20.2          | 20.3 | 20.6 | 21.1 |
| 8H   | 19.2             | 19.5          | 19.7 | 20.0 | 20.6 | 19.8           | 20.1          | 20.3 | 20.6 | 21.1 |
| Variations with the observer position at spacings: |                  |               |      |      |      |                |               |      |      |      |
| S = 1.0H   |                  | + 3.2 / -12.2 |      |      |      |                | + 3.5 / -11.8 |      |      |      |
| 1.5H   |                  | + 5.0 / - 9.1 |      |      |      |                | + 5.3 / - 9.2 |      |      |      |
| 2.0H   |                  | + 6.2 / -15.1 |      |      |      |                | + 6.5 / -15.8 |      |      |      |

CIE Pub.117, 492.8 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -2.5$ )

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: JYH  
 Test Date: 2024-04-22

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 10.375m [K=1.0000]  
 Remarks:

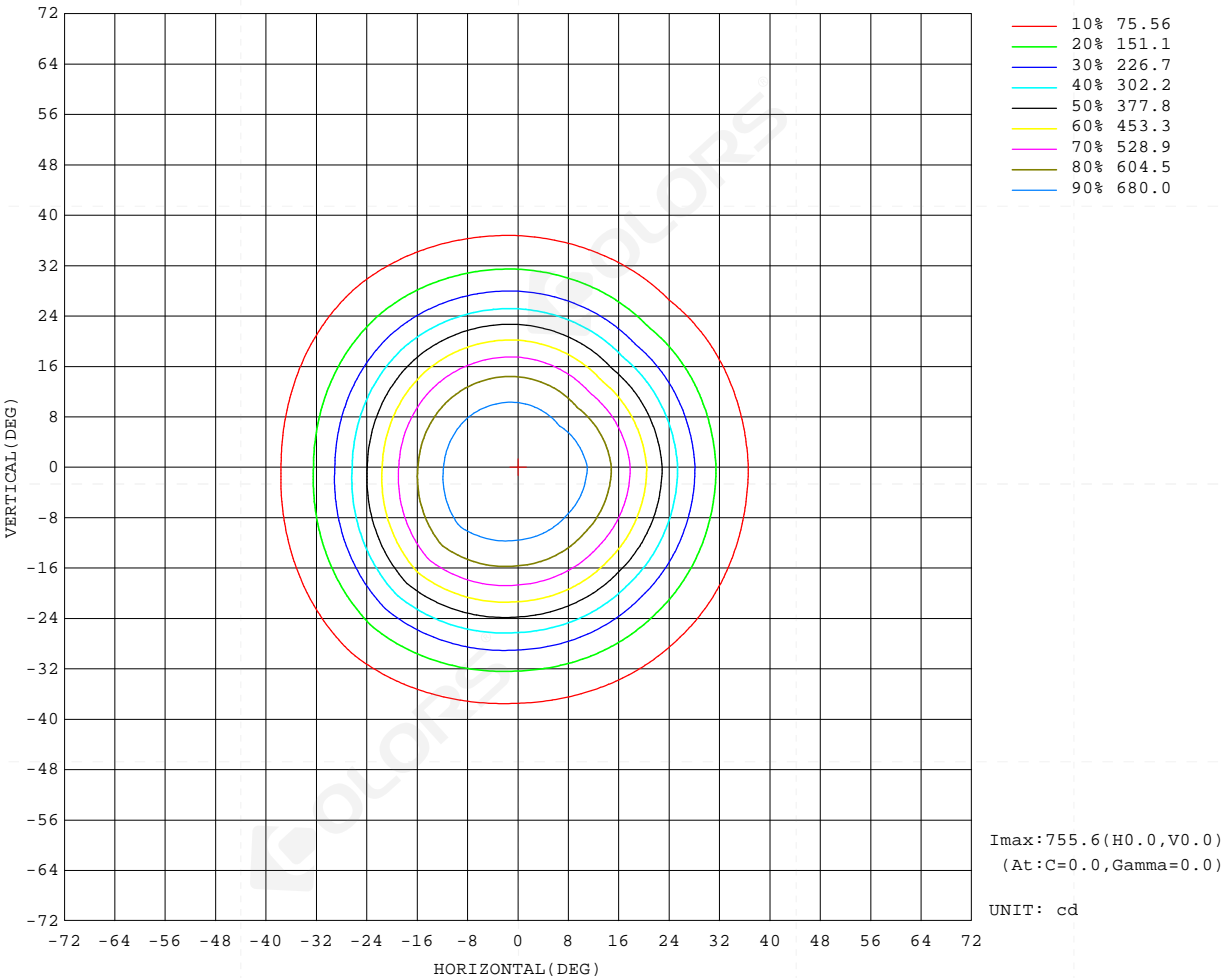
UTILIZATION FACTORS TABLE

| 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) $k(RI) \times RCR = 5$ |     |     |           |     |     |     |               |     |        |
| $k = 0.60$                       | 86  | 80  | 76  | 86        | 80  | 76  | 85  | 79            | 76  | 72     |
| 0.80                             | 94  | 88  | 84  | 93        | 87  | 84  | 91  | 87            | 83  | 79     |
| 1.00                             | 98  | 93  | 89  | 97        | 92  | 88  | 95  | 91            | 88  | 83     |
| 1.25                             | 102   | 97  | 93  | 101       | 96  | 93  | 99  | 95            | 92  | 87     |
| 1.50                             | 105   | 100 | 97  | 103       | 99  | 96  | 101 | 97            | 95  | 90     |
| 2.00                             | 108   | 103 | 100 | 106       | 102 | 99  | 103 | 100           | 97  | 91     |
| 2.50                             | 109   | 105 | 102 | 107       | 104 | 101 | 104 | 101           | 99  | 92     |
| 3.00                             | 111   | 107 | 105 | 109       | 106 | 103 | 105 | 103           | 101 | 93     |
| 4.00                             | 113   | 110 | 108 | 111       | 108 | 106 | 106 | 105           | 103 | 95     |
| 5.00                             | 114   | 112 | 110 | 112       | 110 | 108 | 107 | 106           | 104 | 96     |
| ROOM INDEX                       | UF(total)   |     |     |           |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |   |     |     | Suspended |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-04-22

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

ISOCANDELA DIAGRAM



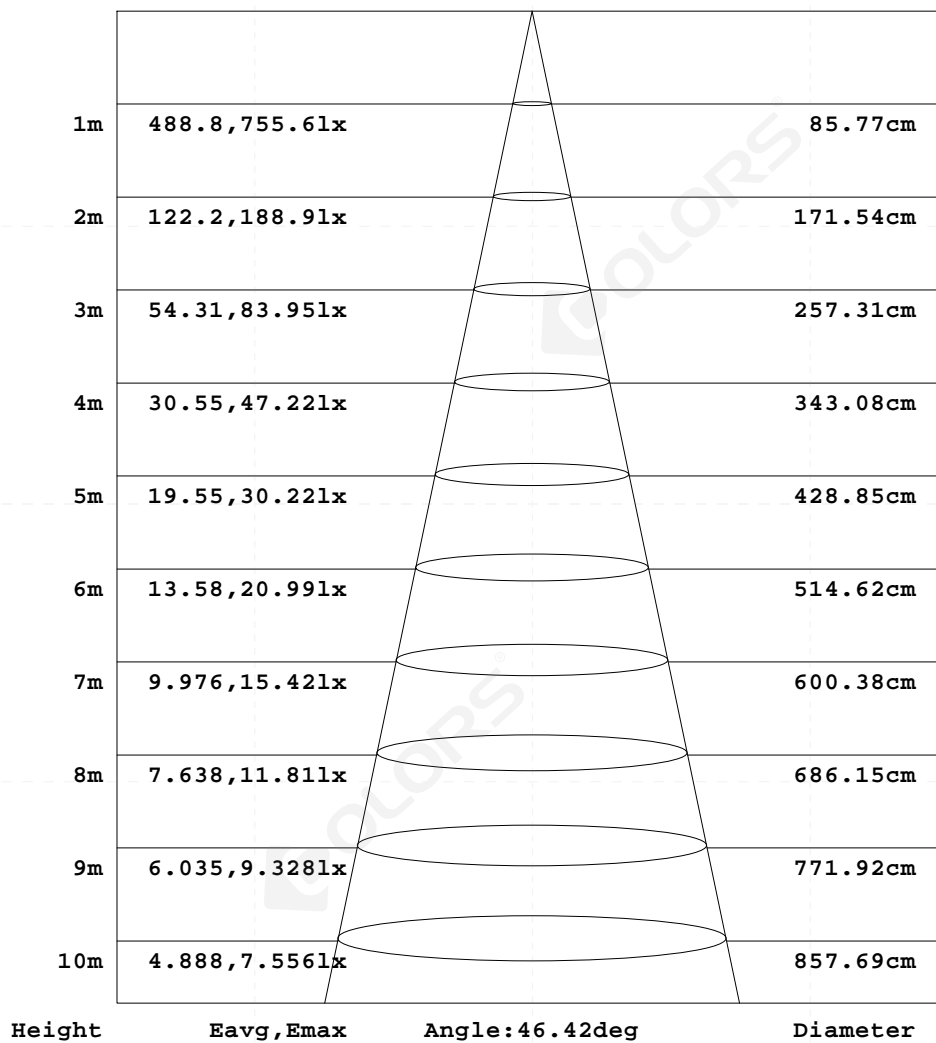
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-04-22

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:



## AAI Figure

Flux out:304.4 lm

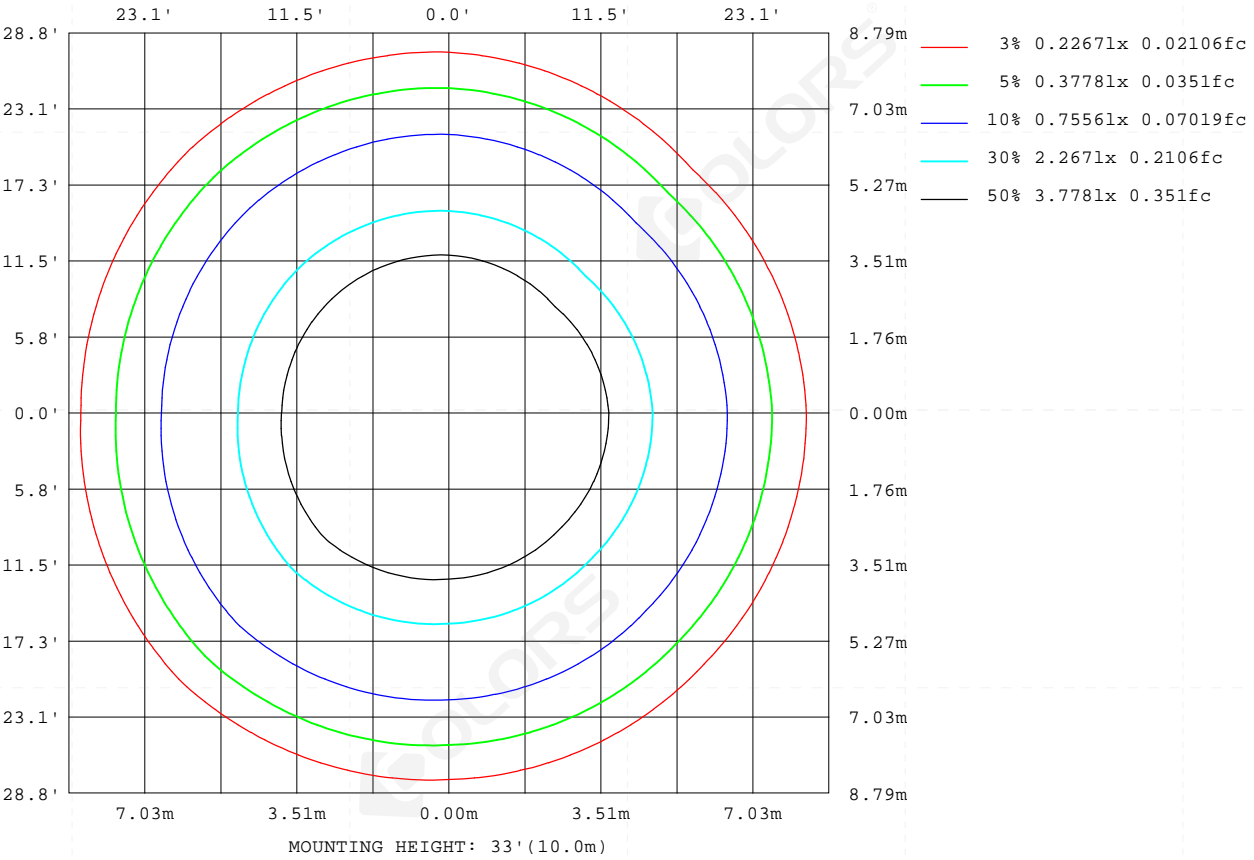


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-04-22

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JYH  
Test Date: 2024-04-22

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.375m [K=1.0000]  
Remarks:

LED Avg.L Report

|   |            |                  |
|---|------------|------------------|
| Test:U:48.00V I:0.1250A P:6.000W PF:1.000 Freq:0Hz Lamp Flux:492.8x1 lm |            |                  |
| NAME: TLS-MT20S42(T)-06903850-NBB                                       | TYPE:      | WEIGHT:          |
| SPEC.:  | DIM.: 40mm | SERIAL No.:      |
| MFR.: COLORS  | SUR.:40mm  | Shielding Angle: |

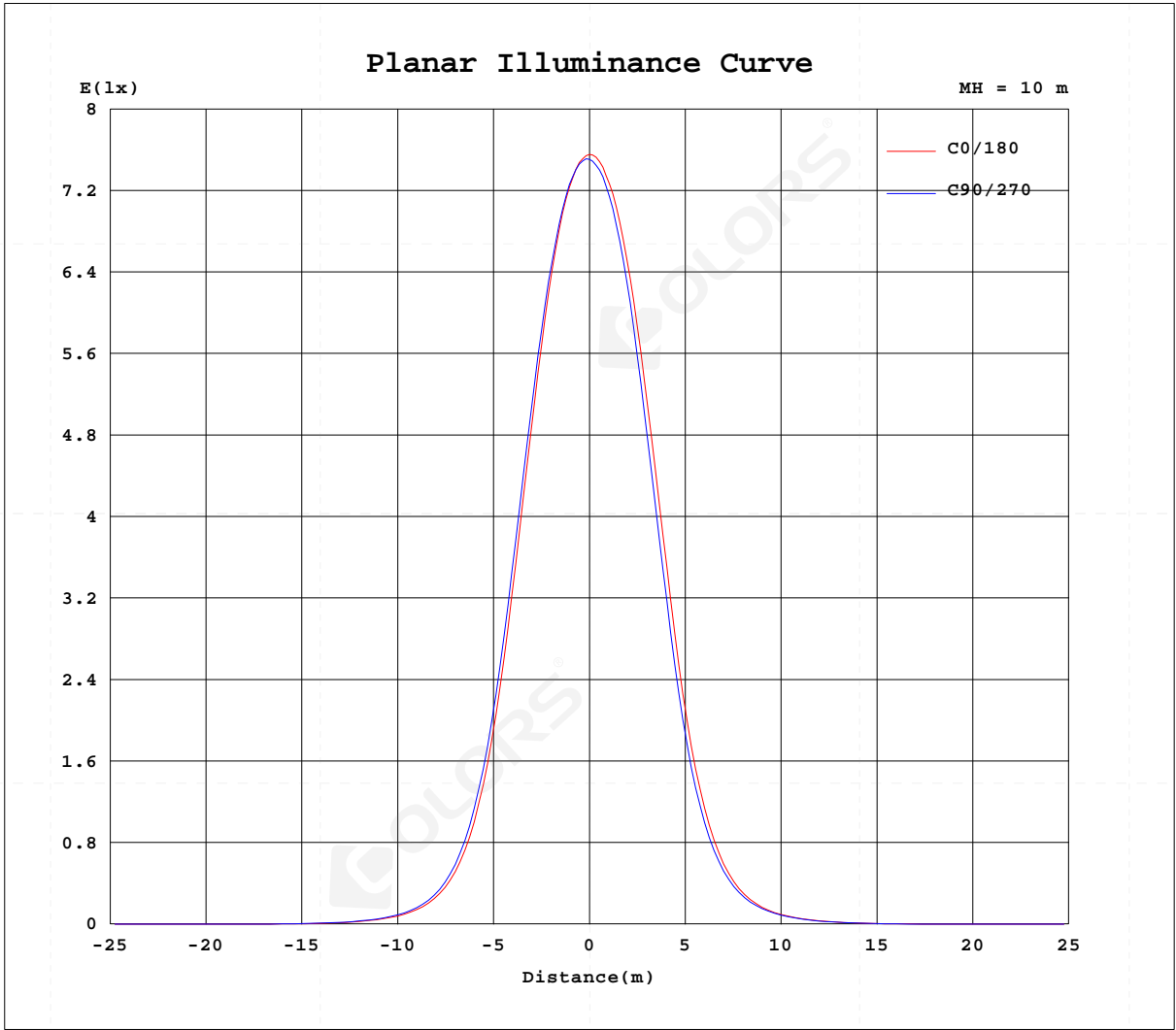
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 469   |
| L_0~180(75)av  | 383   |
| L_0~180(85)av  | 1164  |
| L_90~270(65)av | 497   |
| L_90~270(75)av | 348   |
| L_90~270(85)av | 1032  |
| L_45(65)av     | 470   |
| L_45(75)av     | 365   |
| L_45(85)av     | 1111  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-04-22

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-04-22

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1UNIT: cd

| C( DEG)<br>g (DEG) | 0    | 45   | 90   | 135  | 180  | 225  | 270  | 315  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| 0                  | 756  | 754  | 751  | 749  | 756  | 754  | 751  | 749  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 741  | 740  | 742  | 748  | 743  | 739  | 733  | 727  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 694  | 692  | 701  | 718  | 704  | 694  | 683  | 669  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 601  | 601  | 620  | 650  | 623  | 609  | 590  | 564  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 466  | 469  | 493  | 537  | 499  | 481  | 457  | 423  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 313  | 313  | 341  | 389  | 342  | 331  | 305  | 272  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 182  | 182  | 203  | 238  | 204  | 198  | 178  | 152  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 93.8 | 94.9 | 107  | 129  | 108  | 107  | 94.9 | 77.2 |  |  |  |  |  |  |  |  |  |  |
| 40                 | 46.5 | 46.9 | 52.9 | 63.6 | 53.9 | 54.9 | 48.7 | 38.5 |  |  |  |  |  |  |  |  |  |  |
| 45                 | 23.2 | 23.3 | 26.4 | 31.2 | 27.1 | 28.5 | 25.2 | 19.5 |  |  |  |  |  |  |  |  |  |  |
| 50                 | 11.2 | 10.9 | 12.7 | 15.6 | 13.5 | 14.5 | 12.6 | 9.21 |  |  |  |  |  |  |  |  |  |  |
| 55                 | 4.21 | 3.86 | 5.09 | 6.50 | 5.57 | 6.27 | 4.97 | 3.36 |  |  |  |  |  |  |  |  |  |  |
| 60                 | 1.18 | 1.01 | 1.56 | 2.39 | 1.77 | 1.99 | 1.43 | 0.86 |  |  |  |  |  |  |  |  |  |  |
| 65                 | 0.23 | 0.12 | 0.26 | 0.37 | 0.29 | 0.34 | 0.29 | 0.20 |  |  |  |  |  |  |  |  |  |  |
| 70                 | 0.14 | 0.10 | 0.12 | 0.11 | 0.13 | 0.15 | 0.13 | 0.14 |  |  |  |  |  |  |  |  |  |  |
| 75                 | 0.12 | 0.11 | 0.11 | 0.11 | 0.14 | 0.14 | 0.13 | 0.14 |  |  |  |  |  |  |  |  |  |  |
| 80                 | 0.12 | 0.11 | 0.11 | 0.12 | 0.14 | 0.14 | 0.13 | 0.14 |  |  |  |  |  |  |  |  |  |  |
| 85                 | 0.12 | 0.12 | 0.11 | 0.11 | 0.14 | 0.14 | 0.13 | 0.13 |  |  |  |  |  |  |  |  |  |  |
| 90                 | 0.12 | 0.13 | 0.11 | 0.12 | 0.15 | 0.14 | 0.14 | 0.13 |  |  |  |  |  |  |  |  |  |  |
| 95                 | 0.12 | 0.16 | 0.13 | 0.14 | 0.16 | 0.14 | 0.15 | 0.14 |  |  |  |  |  |  |  |  |  |  |
| 100                | 0.17 | 0.21 | 0.17 | 0.19 | 0.19 | 0.14 | 0.19 | 0.19 |  |  |  |  |  |  |  |  |  |  |
| 105                | 0.25 | 0.28 | 0.25 | 0.24 | 0.22 | 0.17 | 0.22 | 0.19 |  |  |  |  |  |  |  |  |  |  |
| 110                | 0.35 | 0.41 | 0.35 | 0.33 | 0.29 | 0.23 | 0.30 | 0.29 |  |  |  |  |  |  |  |  |  |  |
| 115                | 0.56 | 0.62 | 0.53 | 0.50 | 0.42 | 0.37 | 0.45 | 0.44 |  |  |  |  |  |  |  |  |  |  |
| 120                | 0.95 | 1.01 | 0.92 | 0.82 | 0.69 | 0.62 | 0.74 | 0.77 |  |  |  |  |  |  |  |  |  |  |
| 125                | 1.64 | 1.66 | 1.51 | 1.37 | 1.13 | 1.07 | 1.22 | 1.32 |  |  |  |  |  |  |  |  |  |  |
| 130                | 2.65 | 2.62 | 2.46 | 2.23 | 1.80 | 1.73 | 1.93 | 2.09 |  |  |  |  |  |  |  |  |  |  |
| 135                | 3.88 | 3.85 | 3.64 | 3.36 | 2.73 | 2.67 | 2.90 | 3.06 |  |  |  |  |  |  |  |  |  |  |
| 140                | 5.19 | 5.18 | 4.98 | 4.65 | 3.88 | 3.80 | 4.06 | 4.20 |  |  |  |  |  |  |  |  |  |  |
| 145                | 6.53 | 6.57 | 6.35 | 6.03 | 5.20 | 5.06 | 5.34 | 5.44 |  |  |  |  |  |  |  |  |  |  |
| 150                | 7.78 | 7.85 | 7.67 | 7.38 | 6.54 | 6.34 | 6.60 | 6.59 |  |  |  |  |  |  |  |  |  |  |
| 155                | 8.82 | 8.94 | 8.81 | 8.55 | 7.72 | 7.47 | 7.68 | 7.64 |  |  |  |  |  |  |  |  |  |  |
| 160                | 9.55 | 9.71 | 9.63 | 9.46 | 8.67 | 8.42 | 8.52 | 8.44 |  |  |  |  |  |  |  |  |  |  |
| 165                | 10.1 | 10.1 | 10.2 | 10.0 | 9.37 | 9.12 | 9.14 | 9.00 |  |  |  |  |  |  |  |  |  |  |
| 170                | 10.3 | 10.4 | 10.4 | 10.4 | 9.88 | 9.76 | 9.63 | 9.50 |  |  |  |  |  |  |  |  |  |  |
| 175                | 10.5 | 10.7 | 10.5 | 10.7 | 10.4 | 10.4 | 10.1 | 10.2 |  |  |  |  |  |  |  |  |  |  |
| 180                | 10.6 | 10.7 | 10.6 | 10.6 | 10.7 | 10.8 | 10.6 | 10.6 |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEGC Interval: 45.0DEGTest Speed: HIGHTemperature:25.3DEGOperators:JYHTest Date:2024-04-22

g Range: 0 - 180DEGg Interval: 1.0DEGTest System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362Humidity:65.0%Test Distance:10.375m [K=1.0000]Remarks: