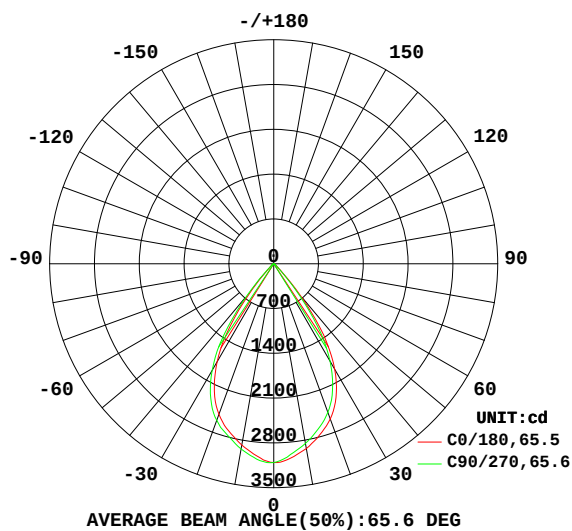


## LUMINAIRE PHOTOMETRIC TEST REPORT

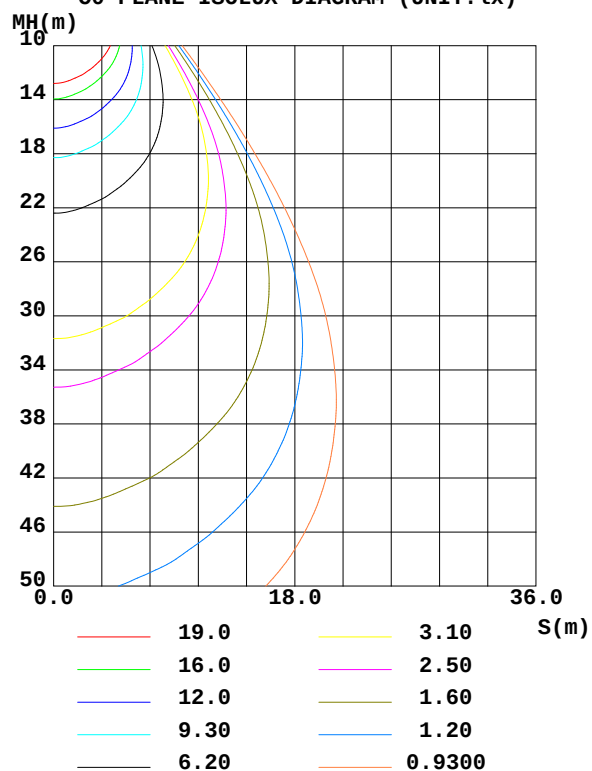
|                                                                                   |       |                  |
|-----------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.1V I:0.1529A P:32.89W PF:0.9772 Freq:50.01Hz<br>Lamp Flux:3090.17x1 lm |       |                  |
| NAME:                                                                             | TYPE: | WEIGHT:          |
| SPEC.:                                                                            | DIM.: | SERIAL No.:      |
| MFR.:                                                                             | SUR.: | Shielding Angle: |

| DATA OF LAMP     |         | PHOTOMETRIC DATA |        |                         |  | Eff: 93.96 lm/W |
|------------------|---------|------------------|--------|-------------------------|--|-----------------|
| MODEL            |         | Imax(cd)         | 3113   | S/MH(C0/180)            |  | 0.95            |
| NOMINAL POWER(W) |         | LOR(%)           | 100.0  | S/MH(C90/270)           |  | 0.98            |
| RATED VOLTAGE(V) |         | TOTAL FLUX(lm)   | 3090.2 | $\eta$ UP, DN(C0-180)   |  | 0.0, 49.5       |
| NOMINAL FLUX(lm) | 3090.17 | CIE CLASS        | DIRECT | $\eta$ UP, DN(C180-360) |  | 0.1, 50.4       |
| LAMPS INSIDE     | 1       | $\eta$ up(%)     | 0.1    | CIBSE SHR NOM           |  | 1.00            |
| TEST VOLTAGE(V)  |         | $\eta$ down(%)   | 99.9   | CIBSE SHR MAX           |  | 1.00            |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.2°C  
Operators: Allen  
Test Date: 2025-02-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.459  
Humidity: 55.6%  
Test Distance: 2.900m [K=0.8625]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 2934                  | 2886   | 2851   | 2860   | 2878   | 2901   | 2939   | 2939   | 0- 10    | 285.1       | 285.1        | 9.22, 9.22 |
| 20       | 2583                  | 2533   | 2471   | 2478   | 2505   | 2546   | 2604   | 2600   | 10- 20   | 768.5       | 1054         | 34.1, 34.1 |
| 30       | 1909                  | 1850   | 1762   | 1765   | 1773   | 1819   | 1929   | 1921   | 20- 30   | 1022        | 2076         | 67.2, 67.2 |
| 40       | 647.1                 | 617.3  | 529.8  | 533.7  | 518.0  | 535.6  | 655.1  | 652.3  | 30- 40   | 768.8       | 2845         | 92.1, 92.1 |
| 50       | 70.35                 | 66.28  | 62.15  | 63.28  | 62.07  | 63.63  | 70.87  | 71.52  | 40- 50   | 166.0       | 3011         | 97.4, 97.4 |
| 60       | 36.31                 | 34.87  | 32.90  | 32.89  | 33.32  | 34.21  | 36.15  | 36.28  | 50- 60   | 41.93       | 3052         | 98.8, 98.8 |
| 70       | 18.04                 | 17.56  | 16.17  | 16.18  | 16.23  | 16.33  | 17.64  | 17.79  | 60- 70   | 25.25       | 3078         | 99.6, 99.6 |
| 80       | 0.0769                | 0.5805 | 0.2953 | 0.1643 | 0      | 0      | 0      | 0      | 70- 80   | 8.470       | 3086         | 99.9, 99.9 |
| 90       | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 80- 90   | 0.0097      | 3086         | 99.9, 99.9 |
| 100      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 90-100   | 0           | 3086         | 99.9, 99.9 |
| 110      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 100-110  | 0           | 3086         | 99.9, 99.9 |
| 120      | 0                     | 0      | 0      | 0      | 0.0000 | 0.0002 | 0.0000 | 0.0001 | 110-120  | 0.0000      | 3086         | 99.9, 99.9 |
| 130      | 0.3296                | 0.2955 | 0.2932 | 0.2993 | 0.4572 | 0.4999 | 0.4727 | 0.4843 | 120-130  | 0.1363      | 3086         | 99.9, 99.9 |
| 140      | 0.8973                | 0.8307 | 0.8321 | 0.8255 | 1.437  | 1.502  | 1.456  | 1.483  | 130-140  | 0.5710      | 3087         | 99.9, 99.9 |
| 150      | 1.458                 | 1.395  | 1.414  | 1.414  | 2.583  | 2.647  | 2.601  | 2.630  | 140-150  | 0.9958      | 3088         | 99.9, 99.9 |
| 160      | 2.171                 | 2.138  | 2.167  | 2.166  | 3.472  | 3.551  | 3.538  | 3.566  | 150-160  | 1.132       | 3089         | 100, 100   |
| 170      | 2.655                 | 2.607  | 2.653  | 2.650  | 3.559  | 3.625  | 3.713  | 3.751  | 160-170  | 0.8435      | 3090         | 100, 100   |
| 180      | 3.503                 | 3.468  | 3.539  | 3.565  | 3.454  | 3.423  | 3.486  | 3.549  | 170-180  | 0.3144      | 3090         | 100, 100   |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT: lm    |              |            |

Conical surface Flux(90deg): 2969.4 lm

%lum = 96.1%

%lamp = 96.1%

Conical surface Flux(120deg): 3052.4 lm

%lum = 98.8%

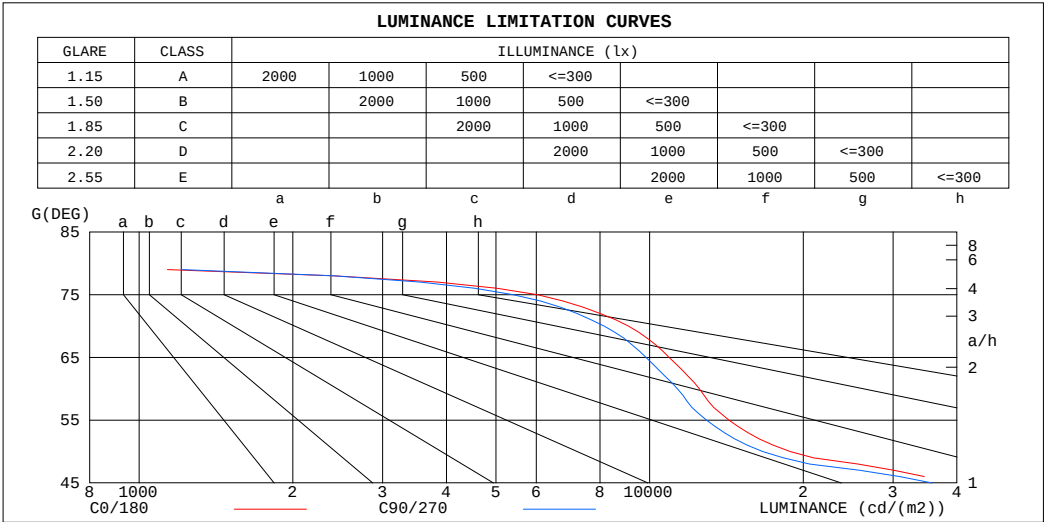
%lamp = 98.8%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.2°C  
 Operators: Allen  
 Test Date: 2025-02-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.459  
 Humidity: 55.6%  
 Test Distance: 2.900m [K=0.8625]  
 Remarks:

LUMINANCE LIMITATION CURVES

|                                                                                   |       |                  |
|-----------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.1V I:0.1529A P:32.89W PF:0.9772 Freq:50.01Hz<br>Lamp Flux:3090.17x1 lm |       |                  |
| NAME:                                                                             | TYPE: | WEIGHT:          |
| SPEC.:                                                                            | DIM.: | SERIAL No.:      |
| MFR.:                                                                             | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 0      | 0       |
| 80                | 76     | 293     |
| 75                | 6035   | 5406    |
| 70                | 9095   | 8151    |
| 65                | 10928  | 9845    |
| 60                | 12521  | 11341   |
| 55                | 14314  | 12936   |
| 50                | 18872  | 16664   |
| 45                | 43871  | 35761   |

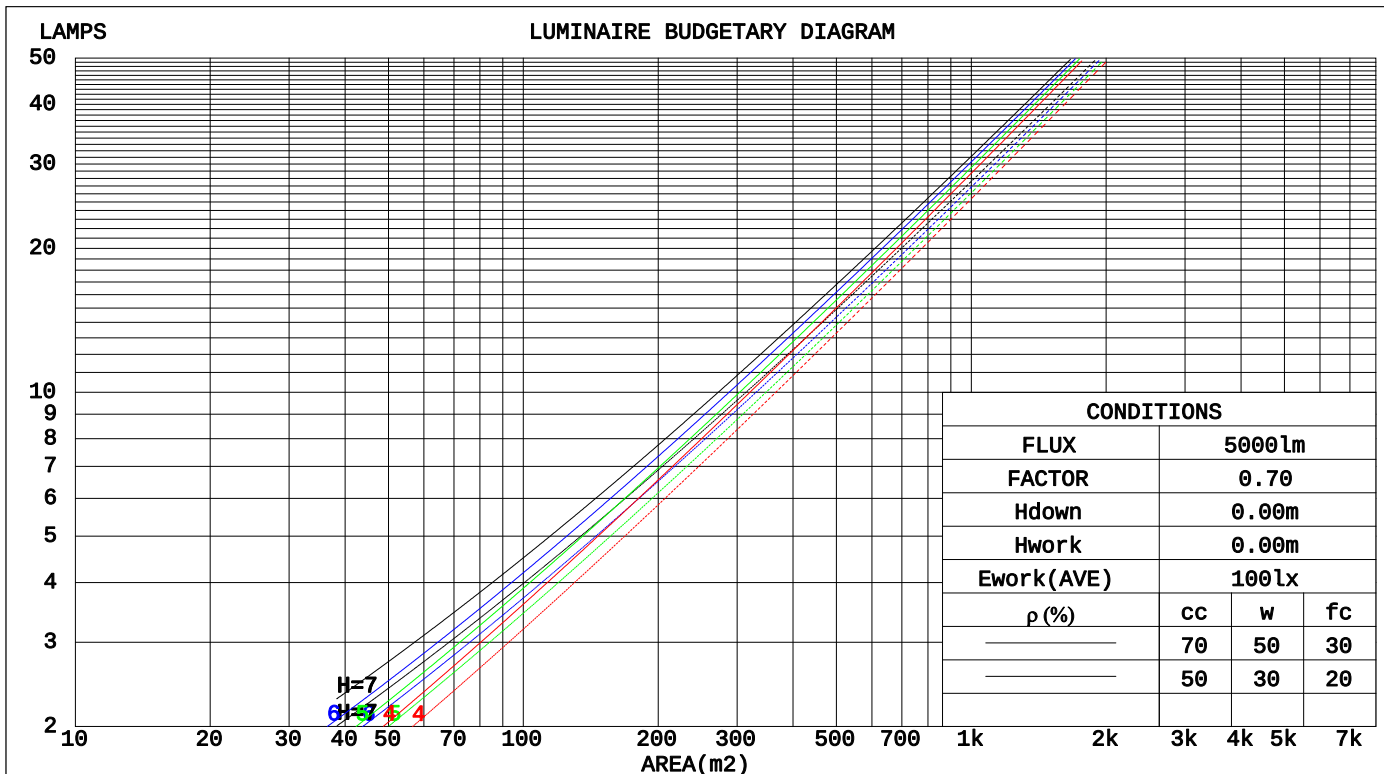
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2℃  
Operators:Allen  
Test Date:2025-02-14

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-R5000\_V2 SYSTEM V2.00.459  
Humidity:55.6%  
Test Distance:2.900m [K=0.8625]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                                 |              |                         |
|-------------------------------------------------------------------------------------------------|--------------|-------------------------|
| <b>Test:U:220.1V I:0.1529A P:32.89W PF:0.9772 Freq:50.01Hz</b><br><b>Lamp Flux:3090.17x1 lm</b> |              |                         |
| <b>NAME:</b>                                                                                    | <b>TYPE:</b> | <b>WEIGHT:</b>          |
| <b>SPEC.:</b>                                                                                   | <b>DIM.:</b> | <b>SERIAL No.:</b>      |
| <b>MFR.:</b>                                                                                    | <b>SUR.:</b> | <b>Shielding Angle:</b> |

| $\rho_{CC}$ | 30%                             |      |      | 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) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| 0.0         | 1.06                            | 1.06 | 1.06 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0         | 1.00                            | .99  | .98  | 1.08 | 1.06 | 1.04 | 1.04 | 1.02 | 1.01 | 1.00 | .99  | .98  | .97  | .96  | .95  | .93 |
| 2.0         | .94                             | .92  | .90  | 1.01 | .97  | .94  | .97  | .94  | .92  | .94  | .92  | .90  | .92  | .90  | .88  | .86 |
| 3.0         | .89                             | .85  | .83  | .94  | .89  | .85  | .91  | .87  | .84  | .89  | .85  | .83  | .86  | .84  | .81  | .80 |
| 4.0         | .83                             | .79  | .76  | .87  | .82  | .78  | .85  | .81  | .77  | .83  | .79  | .76  | .81  | .78  | .75  | .74 |
| 5.0         | .78                             | .74  | .71  | .82  | .76  | .72  | .80  | .75  | .71  | .78  | .74  | .71  | .77  | .73  | .70  | .68 |
| 6.0         | .74                             | .69  | .66  | .77  | .71  | .67  | .75  | .70  | .66  | .74  | .69  | .66  | .72  | .68  | .65  | .64 |
| 7.0         | .69                             | .65  | .61  | .72  | .66  | .62  | .70  | .65  | .61  | .69  | .65  | .61  | .68  | .64  | .61  | .59 |
| 8.0         | .65                             | .61  | .57  | .67  | .62  | .58  | .66  | .61  | .57  | .65  | .61  | .57  | .64  | .60  | .57  | .55 |
| 9.0         | .62                             | .57  | .53  | .64  | .58  | .54  | .63  | .57  | .54  | .62  | .57  | .53  | .61  | .56  | .53  | .52 |
| 10.0        | .58                             | .53  | .50  | .60  | .54  | .50  | .59  | .54  | .50  | .58  | .53  | .50  | .58  | .53  | .50  | .49 |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.2°C  
Operators: Allen  
Test Date: 2025-02-14

```

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:55.6%
Test Distance:2.900m [K=0.8625]
Remarks:

```

## WEC AND CCEC

|                                                                                   |  |  |  |  |  |       |  |  |  |  |  |                  |  |  |  |  |  |
|-----------------------------------------------------------------------------------|--|--|--|--|--|-------|--|--|--|--|--|------------------|--|--|--|--|--|
| Test:U:220.1V I:0.1529A P:32.89W PF:0.9772 Freq:50.01Hz<br>Lamp Flux:3090.17x1 lm |  |  |  |  |  |       |  |  |  |  |  |                  |  |  |  |  |  |
| NAME:                                                                             |  |  |  |  |  | TYPE: |  |  |  |  |  | WEIGHT:          |  |  |  |  |  |
| SPEC.:                                                                            |  |  |  |  |  | DIM.: |  |  |  |  |  | SERIAL No.:      |  |  |  |  |  |
| MFR.:                                                                             |  |  |  |  |  | SUR.: |  |  |  |  |  | Shielding Angle: |  |  |  |  |  |

|             |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |  |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| $\rho_{CC}$ | 30%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
| $\rho_W$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0         |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |  |
| 1.0         | .152                  | .088 | .028 | .177 | .101 | .032 | .164                            | .094 | .030 | .152 | .088 | .028 | .141 | .082 | .026 |   |  |
| 2.0         | .150                  | .084 | .026 | .171 | .094 | .029 | .160                            | .089 | .028 | .150 | .084 | .026 | .141 | .080 | .025 |   |  |
| 3.0         | .146                  | .080 | .025 | .164 | .088 | .026 | .154                            | .084 | .025 | .146 | .080 | .025 | .138 | .076 | .024 |   |  |
| 4.0         | .141                  | .076 | .023 | .156 | .082 | .024 | .148                            | .079 | .024 | .141 | .076 | .023 | .134 | .073 | .022 |   |  |
| 5.0         | .136                  | .072 | .021 | .150 | .077 | .022 | .143                            | .074 | .022 | .136 | .072 | .021 | .130 | .069 | .021 |   |  |
| 6.0         | .131                  | .068 | .020 | .143 | .072 | .021 | .137                            | .070 | .020 | .131 | .068 | .020 | .126 | .066 | .020 |   |  |
| 7.0         | .126                  | .065 | .019 | .137 | .068 | .019 | .132                            | .066 | .019 | .126 | .065 | .019 | .122 | .063 | .019 |   |  |
| 8.0         | .122                  | .062 | .018 | .131 | .065 | .018 | .126                            | .063 | .018 | .122 | .062 | .018 | .117 | .060 | .018 |   |  |
| 9.0         | .117                  | .059 | .017 | .126 | .061 | .017 | .122                            | .060 | .017 | .117 | .059 | .017 | .114 | .058 | .017 |   |  |
| 10.0        | .113                  | .056 | .016 | .121 | .058 | .016 | .117                            | .057 | .016 | .113 | .056 | .016 | .110 | .055 | .016 |   |  |

| $\rho_{CC}$ | 30%                   |      |      | 70%  |      |      | 50%                                        |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|-------------|-----------------------|------|------|------|------|------|--------------------------------------------|------|------|------|------|------|------|------|------|---|--|
| $\rho_W$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                                        | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                                        |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0         | .064                  | .064 | .064 | .164 | .164 | .164 | .112                                       | .112 | .112 | .064 | .064 | .064 | .021 | .021 | .021 |   |  |
| 1.0         | .058                  | .054 | .050 | .148 | .136 | .125 | .101                                       | .093 | .087 | .058 | .054 | .050 | .019 | .017 | .016 |   |  |
| 2.0         | .053                  | .046 | .040 | .135 | .115 | .098 | .093                                       | .079 | .068 | .053 | .046 | .040 | .017 | .015 | .013 |   |  |
| 3.0         | .050                  | .040 | .032 | .125 | .099 | .078 | .086                                       | .069 | .055 | .050 | .040 | .032 | .016 | .013 | .011 |   |  |
| 4.0         | .046                  | .035 | .026 | .117 | .086 | .063 | .080                                       | .060 | .044 | .046 | .035 | .026 | .015 | .011 | .009 |   |  |
| 5.0         | .044                  | .031 | .022 | .110 | .077 | .052 | .076                                       | .054 | .037 | .044 | .031 | .022 | .014 | .010 | .007 |   |  |
| 6.0         | .041                  | .028 | .018 | .104 | .069 | .043 | .071                                       | .048 | .031 | .041 | .028 | .018 | .013 | .009 | .006 |   |  |
| 7.0         | .039                  | .026 | .016 | .098 | .062 | .037 | .068                                       | .044 | .026 | .039 | .026 | .016 | .013 | .008 | .005 |   |  |
| 8.0         | .038                  | .024 | .013 | .093 | .057 | .032 | .065                                       | .040 | .022 | .038 | .024 | .013 | .012 | .008 | .004 |   |  |
| 9.0         | .036                  | .022 | .012 | .089 | .053 | .028 | .062                                       | .037 | .020 | .036 | .022 | .012 | .012 | .007 | .004 |   |  |
| 10.0        | .035                  | .020 | .010 | .085 | .049 | .024 | .059                                       | .034 | .017 | .035 | .020 | .010 | .011 | .007 | .003 |   |  |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2℃  
Operators:Allen  
Test Date:2025-02-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE G0-R5000\_V2 SYSTEM V2.00.459  
Humidity:55.6%  
Test Distance:2.900m [K=0.8625]  
Remarks:

UGR(Unified Glare Rating) Table

|                                                                                   |                  |      |       |      |      |                  |      |      |      |      |
|-----------------------------------------------------------------------------------|------------------|------|-------|------|------|------------------|------|------|------|------|
| Test:U:220.1V I:0.1529A P:32.89W PF:0.9772 Freq:50.01Hz<br>Lamp Flux:3090.17x1 lm |                  |      |       |      |      |                  |      |      |      |      |
| NAME:                                                                             |                  |      | TYPE: |      |      | WEIGHT:          |      |      |      |      |
| SPEC.:                                                                            |                  |      | DIM.: |      |      | SERIAL No.:      |      |      |      |      |
| MFR.:                                                                             |                  |      | SUR.: |      |      | Shielding Angle: |      |      |      |      |
| ceiling/cavity                                                                    | 0.7              | 0.7  | 0.5   | 0.5  | 0.3  | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  |
| walls                                                                             | 0.5              | 0.3  | 0.5   | 0.3  | 0.3  | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  |
| working plane                                                                     | 0.2              | 0.2  | 0.2   | 0.2  | 0.2  | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  |
| Room dimensions                                                                   | Viewed crosswise |      |       |      |      | Viewed endwise   |      |      |      |      |
| x = 2H y = 2H                                                                     | 23.9             | 24.9 | 24.1  | 25.0 | 25.2 | 23.1             | 24.1 | 23.4 | 24.3 | 24.5 |
| 3H                                                                                | 23.8             | 24.7 | 24.0  | 24.9 | 25.1 | 23.0             | 23.9 | 23.3 | 24.1 | 24.3 |
| 4H                                                                                | 23.7             | 24.6 | 24.0  | 24.8 | 25.0 | 23.0             | 23.8 | 23.2 | 24.0 | 24.3 |
| 6H                                                                                | 23.6             | 24.4 | 23.9  | 24.7 | 24.9 | 22.9             | 23.7 | 23.2 | 23.9 | 24.2 |
| 8H                                                                                | 23.6             | 24.3 | 23.9  | 24.6 | 24.9 | 22.8             | 23.6 | 23.1 | 23.9 | 24.1 |
| 12H                                                                               | 23.5             | 24.3 | 23.8  | 24.5 | 24.8 | 22.8             | 23.5 | 23.1 | 23.8 | 24.1 |
| 4H 2H                                                                             | 23.6             | 24.5 | 23.9  | 24.7 | 25.0 | 22.9             | 23.8 | 23.2 | 24.0 | 24.2 |
| 3H                                                                                | 23.6             | 24.3 | 23.9  | 24.6 | 24.8 | 22.8             | 23.6 | 23.2 | 23.8 | 24.1 |
| 4H                                                                                | 23.5             | 24.2 | 23.8  | 24.5 | 24.8 | 22.8             | 23.4 | 23.1 | 23.7 | 24.0 |
| 6H                                                                                | 23.4             | 24.0 | 23.8  | 24.3 | 24.7 | 22.7             | 23.3 | 23.1 | 23.6 | 23.9 |
| 8H                                                                                | 23.4             | 23.9 | 23.8  | 24.3 | 24.6 | 22.6             | 23.2 | 23.0 | 23.5 | 23.9 |
| 12H                                                                               | 23.3             | 23.8 | 23.7  | 24.2 | 24.6 | 22.6             | 23.1 | 23.0 | 23.4 | 23.8 |
| 8H 4H                                                                             | 23.4             | 23.9 | 23.8  | 24.3 | 24.6 | 22.6             | 23.2 | 23.0 | 23.5 | 23.9 |
| 6H                                                                                | 23.3             | 23.7 | 23.7  | 24.1 | 24.5 | 22.5             | 23.0 | 23.0 | 23.4 | 23.8 |
| 8H                                                                                | 23.2             | 23.6 | 23.7  | 24.0 | 24.5 | 22.5             | 22.9 | 22.9 | 23.3 | 23.7 |
| 12H                                                                               | 23.2             | 23.5 | 23.6  | 23.9 | 24.4 | 22.4             | 22.8 | 22.9 | 23.2 | 23.7 |
| 12H 4H                                                                            | 23.3             | 23.8 | 23.7  | 24.2 | 24.6 | 22.6             | 23.1 | 23.0 | 23.5 | 23.9 |
| 6H                                                                                | 23.2             | 23.6 | 23.7  | 24.0 | 24.5 | 22.5             | 22.9 | 22.9 | 23.3 | 23.7 |
| 8H                                                                                | 23.2             | 23.5 | 23.6  | 23.9 | 24.4 | 22.4             | 22.8 | 22.9 | 23.2 | 23.7 |
| Variations with the observer position at spacings(CIE Pub.117):                   |                  |      |       |      |      |                  |      |      |      |      |
| S = 1.0H                                                                          | + 3.3 / - 8.6    |      |       |      |      | + 3.3 / - 8.1    |      |      |      |      |
| 1.5H                                                                              | + 5.8 / - 7.8    |      |       |      |      | + 5.8 / - 7.3    |      |      |      |      |
| 2.0H                                                                              | + 4.6 / - 1.8    |      |       |      |      | + 3.9 / - 1.6    |      |      |      |      |

CIE Pub.117, 3090 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 3.9$ )  
Area: 0.005809 m<sup>2</sup>

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2℃  
Operators:Allen  
Test Date:2025-02-14

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-R5000\_V2 SYSTEM V2.00.459  
Humidity:55.6%  
Test Distance:2.900m [K=0.8625]  
Remarks:

## UTILIZATION FACTORS TABLE

|                                                                                   |       |                  |
|-----------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.1V I:0.1529A P:32.89W PF:0.9772 Freq:50.01Hz<br>Lamp Flux:3090.17x1 lm |       |                  |
| NAME:                                                                             | TYPE: | WEIGHT:          |
| SPEC.:                                                                            | DIM.: | SERIAL No.:      |
| MFR.:                                                                             | SUR.: | Shielding Angle: |

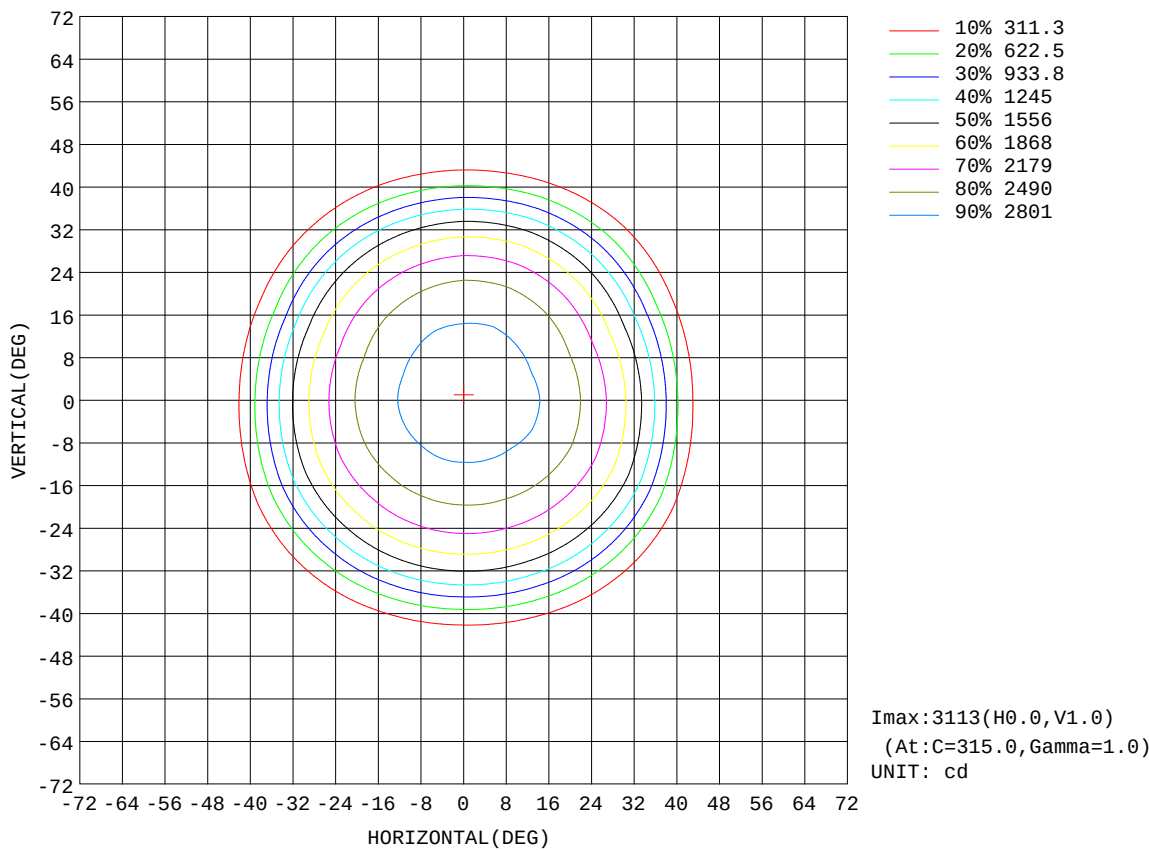
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8                                                 | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5 | 0.5           | 0.5 | 0      |
| Walls                            | 0.7                                                 | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7 | 0.5           | 0.3 | 0      |
| Working plane                    | 0.2                                                 | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 87                                                  | 80  | 76        | 86  | 80  | 76  | 85  | 80            | 76  | 72     |
| 0.80                             | 94                                                  | 88  | 84        | 93  | 88  | 84  | 92  | 87            | 84  | 80     |
| 1.00                             | 99                                                  | 93  | 89        | 98  | 93  | 89  | 96  | 92            | 89  | 85     |
| 1.25                             | 103                                                 | 98  | 94        | 102 | 97  | 94  | 100 | 96            | 93  | 89     |
| 1.50                             | 106                                                 | 101 | 97        | 104 | 100 | 97  | 102 | 98            | 96  | 91     |
| 2.00                             | 108                                                 | 104 | 101       | 107 | 103 | 100 | 104 | 101           | 99  | 93     |
| 2.50                             | 110                                                 | 106 | 103       | 108 | 105 | 102 | 105 | 103           | 100 | 94     |
| 3.00                             | 112                                                 | 108 | 105       | 110 | 107 | 104 | 106 | 104           | 102 | 96     |
| 4.00                             | 114                                                 | 111 | 109       | 112 | 109 | 107 | 108 | 106           | 105 | 97     |
| 5.00                             | 115                                                 | 113 | 111       | 113 | 111 | 109 | 109 | 107           | 106 | 98     |
| ROOM INDEX                       | UF(total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                     |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2℃  
 Operators:Allen  
 Test Date:2025-02-14

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE G0-R5000\_V2 SYSTEM V2.00.459  
 Humidity:55.6%  
 Test Distance:2.900m [K=0.8625]  
 Remarks:

ISOCANDELA DIAGRAM

|                                                                                   |       |                  |
|-----------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.1V I:0.1529A P:32.89W PF:0.9772 Freq:50.01Hz<br>Lamp Flux:3090.17x1 lm |       |                  |
| NAME:                                                                             | TYPE: | WEIGHT:          |
| SPEC.:                                                                            | DIM.: | SERIAL No.:      |
| MFR.:                                                                             | SUR.: | Shielding Angle: |



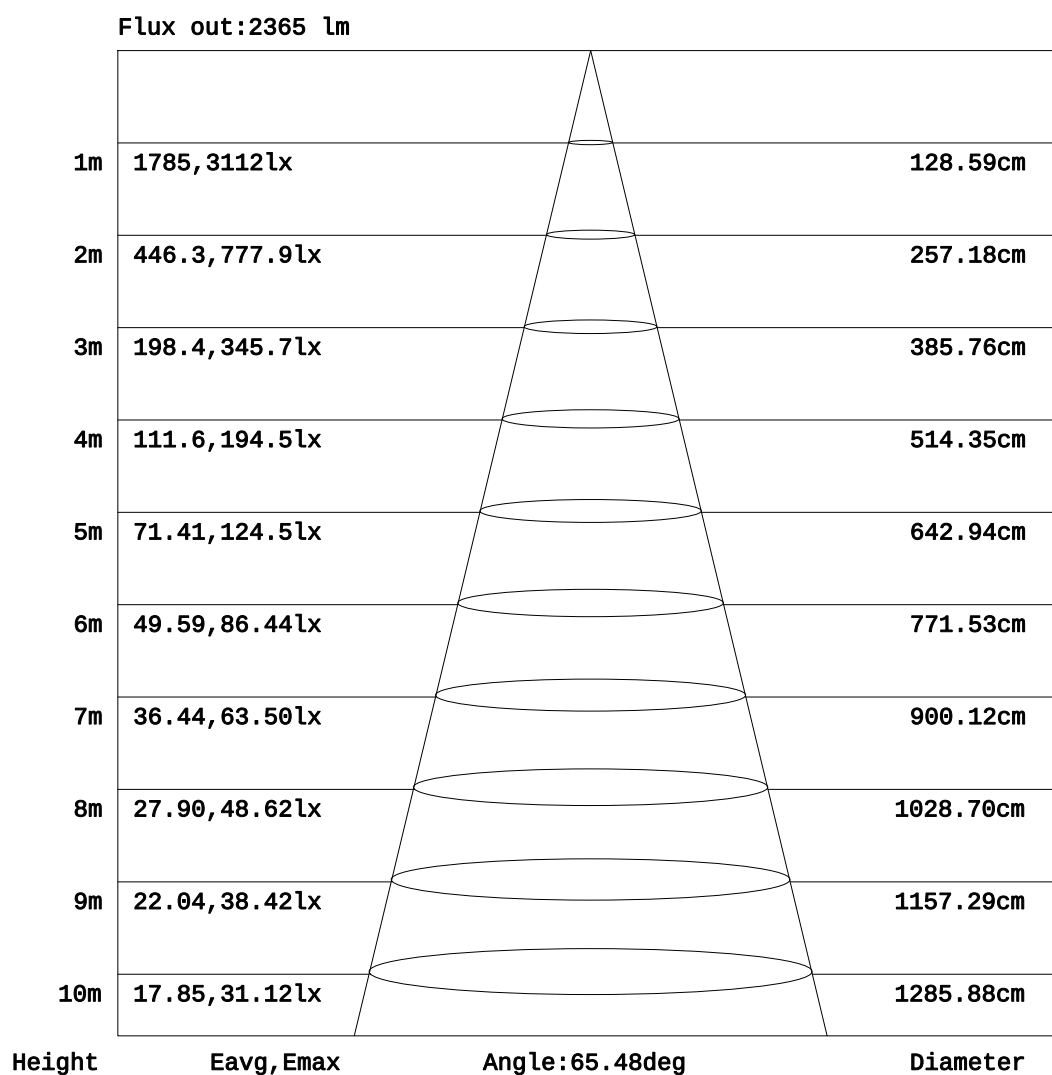
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2℃  
Operators:Allen  
Test Date:2025-02-14

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-R5000\_V2 SYSTEM V2.00.459  
Humidity:55.6%  
Test Distance:2.900m [K=0.8625]  
Remarks:



## AAI Figure

|                                                                                   |       |                  |
|-----------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.1V I:0.1529A P:32.89W PF:0.9772 Freq:50.01Hz<br>Lamp Flux:3090.17x1 lm |       |                  |
| NAME:                                                                             | TYPE: | WEIGHT:          |
| SPEC.:                                                                            | DIM.: | SERIAL No.:      |
| MFR.:                                                                             | SUR.: | Shielding Angle: |

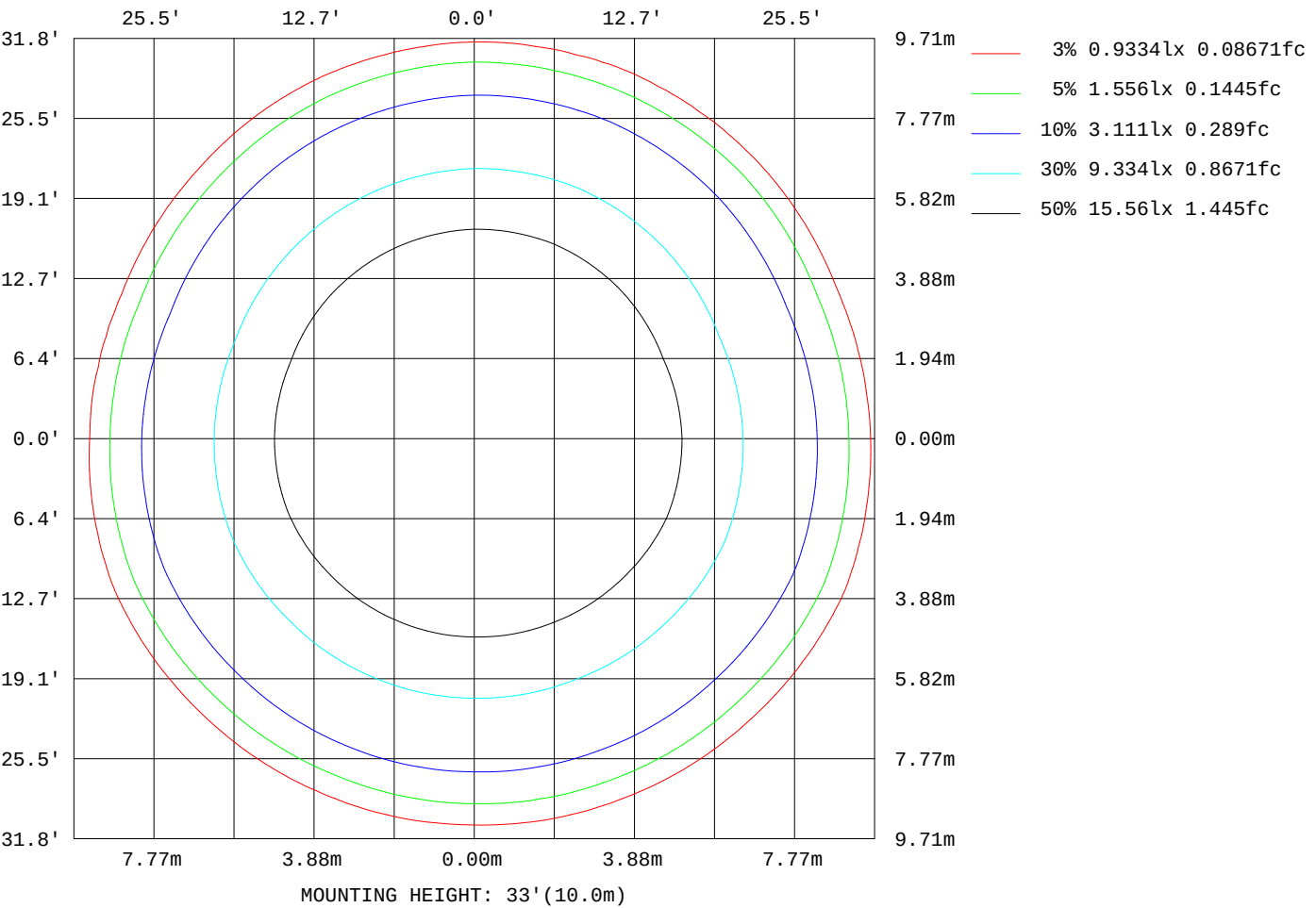


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2℃  
Operators:Allen  
Test Date:2025-02-14

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-R5000\_V2 SYSTEM V2.00.459  
Humidity:55.6%  
Test Distance:2.900m [K=0.8625]  
Remarks:

ISOLUX DIAGRAM

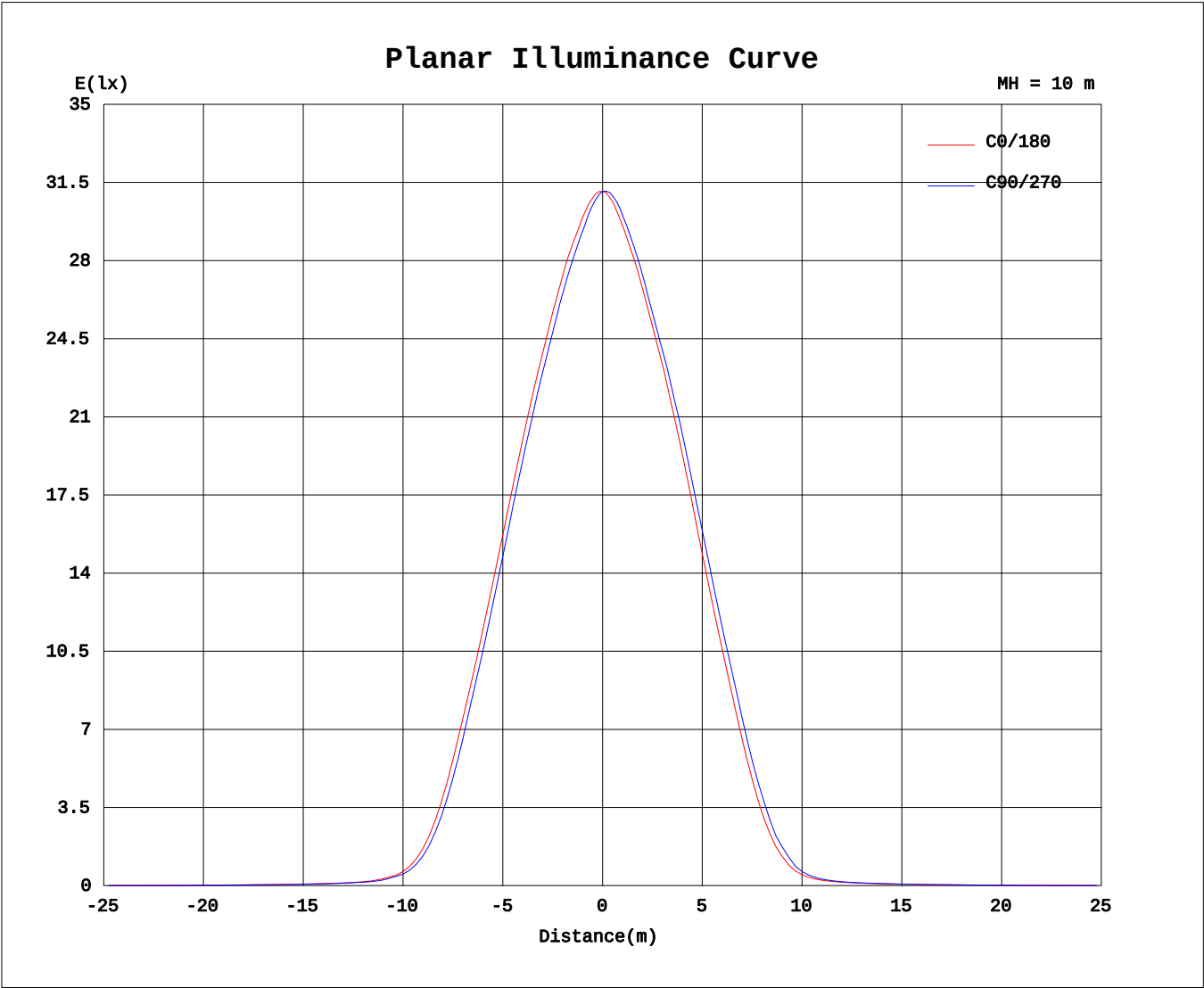
|                                                                                   |       |                  |
|-----------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.1V I:0.1529A P:32.89W PF:0.9772 Freq:50.01Hz<br>Lamp Flux:3090.17x1 lm |       |                  |
| NAME:                                                                             | TYPE: | WEIGHT:          |
| SPEC.:                                                                            | DIM.: | SERIAL No.:      |
| MFR.:                                                                             | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2°C  
Operators:Allen  
Test Date:2025-02-14

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-R5000\_V2 SYSTEM V2.00.459  
Humidity:55.6%  
Test Distance:2.900m [K=0.8625]  
Remarks:

Planar Illuminance Curve



## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                   |  |  |  |  |  |  |  |  |       |  |  |  |  |  |                  |  |  |  |
|-----------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|------------------|--|--|--|
| Test:U:220.1V I:0.1529A P:32.89W PF:0.9772 Freq:50.01Hz<br>Lamp Flux:3090.17x1 lm |  |  |  |  |  |  |  |  |       |  |  |  |  |  |                  |  |  |  |
| NAME:                                                                             |  |  |  |  |  |  |  |  | TYPE: |  |  |  |  |  | WEIGHT:          |  |  |  |
| SPEC.:                                                                            |  |  |  |  |  |  |  |  | DIM.: |  |  |  |  |  | SERIAL No.:      |  |  |  |
| MFR.:                                                                             |  |  |  |  |  |  |  |  | SUR.: |  |  |  |  |  | Shielding Angle: |  |  |  |

Table--1

UNIT: cd

| γ (DEG) | C(DEG) |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |
|---------|--------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|
|         | 0      | 22.5 | 45   | 67.5 | 90   | 112.5 | 135  | 157.5 | 180  | 202.5 | 225  | 247.5 | 270  | 292.5 | 315  | 337.5 |  |  |
| 0       | 3106   | 3106 | 3106 | 3106 | 3106 | 3106  | 3106 | 3106  | 3106 | 3106  | 3106 | 3106  | 3106 | 3106  | 3106 | 3106  |  |  |
| 5       | 3049   | 3047 | 3026 | 3006 | 2992 | 2997  | 3007 | 3025  | 3016 | 3020  | 3037 | 3051  | 3065 | 3071  | 3067 | 3047  |  |  |
| 10      | 2934   | 2923 | 2886 | 2862 | 2851 | 2851  | 2860 | 2878  | 2878 | 2879  | 2901 | 2915  | 2939 | 2947  | 2939 | 2927  |  |  |
| 15      | 2772   | 2766 | 2726 | 2696 | 2676 | 2677  | 2683 | 2706  | 2709 | 2709  | 2736 | 2769  | 2777 | 2794  | 2780 | 2769  |  |  |
| 20      | 2583   | 2580 | 2533 | 2489 | 2471 | 2469  | 2478 | 2508  | 2505 | 2504  | 2546 | 2578  | 2604 | 2620  | 2600 | 2575  |  |  |
| 25      | 2303   | 2308 | 2248 | 2198 | 2176 | 2169  | 2177 | 2211  | 2195 | 2189  | 2250 | 2294  | 2330 | 2345  | 2323 | 2288  |  |  |
| 30      | 1909   | 1926 | 1850 | 1787 | 1762 | 1757  | 1765 | 1798  | 1773 | 1757  | 1819 | 1872  | 1929 | 1949  | 1921 | 1869  |  |  |
| 35      | 1360   | 1401 | 1311 | 1230 | 1195 | 1185  | 1191 | 1233  | 1188 | 1147  | 1224 | 1299  | 1364 | 1390  | 1359 | 1297  |  |  |
| 40      | 647    | 698  | 617  | 563  | 530  | 519   | 534  | 567   | 518  | 471   | 536  | 600   | 655  | 671   | 652  | 596   |  |  |
| 45      | 180    | 198  | 171  | 155  | 147  | 146   | 149  | 158   | 140  | 126   | 143  | 161   | 179  | 188   | 180  | 160   |  |  |
| 50      | 70.4   | 72.5 | 66.3 | 63.1 | 62.1 | 62.8  | 63.3 | 64.2  | 62.1 | 60.9  | 63.6 | 66.4  | 70.9 | 73.5  | 71.5 | 67.3  |  |  |
| 55      | 47.6   | 48.5 | 45.4 | 43.8 | 43.0 | 43.2  | 43.3 | 44.1  | 43.5 | 43.3  | 44.8 | 46.0  | 47.9 | 49.0  | 48.0 | 46.4  |  |  |
| 60      | 36.3   | 36.8 | 34.9 | 33.4 | 32.9 | 32.8  | 32.9 | 33.5  | 33.3 | 33.0  | 34.2 | 35.0  | 36.2 | 36.8  | 36.3 | 35.3  |  |  |
| 65      | 26.8   | 27.4 | 25.8 | 24.6 | 24.1 | 24.1  | 24.1 | 24.5  | 24.6 | 24.1  | 25.1 | 25.6  | 26.6 | 27.0  | 26.7 | 25.9  |  |  |
| 70      | 18.0   | 18.8 | 17.6 | 16.6 | 16.2 | 16.1  | 16.2 | 16.5  | 16.2 | 15.5  | 16.3 | 17.0  | 17.6 | 18.0  | 17.8 | 17.3  |  |  |
| 75      | 9.06   | 10.0 | 9.22 | 8.64 | 8.12 | 8.03  | 8.08 | 8.50  | 7.33 | 6.29  | 6.98 | 7.56  | 7.98 | 8.18  | 8.09 | 7.83  |  |  |
| 80      | 0.08   | 0.91 | 0.58 | 0.44 | 0.30 | 0.23  | 0.16 | 0.15  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |
| 85      | 0.00   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |
| 90      | 0.00   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |
| 95      | 0.00   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 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  | 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  | 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  | 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  | 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  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |
| 125     | 0.13   | 0.10 | 0.10 | 0.10 | 0.10 | 0.10  | 0.11 | 0.10  | 0.16 | 0.19  | 0.19 | 0.18  | 0.17 | 0.17  | 0.17 | 0.18  |  |  |
| 130     | 0.33   | 0.29 | 0.30 | 0.29 | 0.29 | 0.29  | 0.30 | 0.30  | 0.46 | 0.52  | 0.50 | 0.48  | 0.47 | 0.47  | 0.48 | 0.49  |  |  |
| 135     | 0.58   | 0.53 | 0.53 | 0.52 | 0.53 | 0.53  | 0.53 | 0.53  | 0.89 | 0.97  | 0.95 | 0.93  | 0.91 | 0.91  | 0.94 | 0.95  |  |  |
| 140     | 0.90   | 0.84 | 0.83 | 0.82 | 0.83 | 0.83  | 0.83 | 0.84  | 1.44 | 1.53  | 1.50 | 1.47  | 1.46 | 1.45  | 1.48 | 1.52  |  |  |
| 145     | 1.20   | 1.15 | 1.13 | 1.12 | 1.13 | 1.13  | 1.13 | 1.15  | 2.04 | 2.13  | 2.10 | 2.08  | 2.05 | 2.05  | 2.08 | 2.12  |  |  |
| 150     | 1.46   | 1.40 | 1.39 | 1.40 | 1.41 | 1.42  | 1.41 | 1.41  | 2.58 | 2.68  | 2.65 | 2.63  | 2.60 | 2.60  | 2.63 | 2.68  |  |  |
| 155     | 1.87   | 1.80 | 1.80 | 1.81 | 1.83 | 1.83  | 1.83 | 1.81  | 3.09 | 3.18  | 3.17 | 3.17  | 3.14 | 3.14  | 3.17 | 3.19  |  |  |
| 160     | 2.17   | 2.13 | 2.14 | 2.15 | 2.17 | 2.17  | 2.17 | 2.15  | 3.47 | 3.51  | 3.55 | 3.55  | 3.54 | 3.54  | 3.57 | 3.58  |  |  |
| 165     | 2.33   | 2.29 | 2.30 | 2.32 | 2.34 | 2.34  | 2.34 | 2.33  | 3.56 | 3.57  | 3.62 | 3.65  | 3.66 | 3.66  | 3.69 | 3.70  |  |  |
| 170     | 2.66   | 2.62 | 2.61 | 2.63 | 2.65 | 2.66  | 2.65 | 2.64  | 3.56 | 3.57  | 3.63 | 3.68  | 3.71 | 3.74  | 3.75 | 3.77  |  |  |
| 175     | 3.14   | 3.05 | 3.05 | 3.08 | 3.11 | 3.12  | 3.12 | 3.11  | 3.56 | 3.56  | 3.60 | 3.63  | 3.67 | 3.74  | 3.75 | 3.76  |  |  |
| 180     | 3.50   | 3.43 | 3.47 | 3.50 | 3.54 | 3.55  | 3.57 | 3.54  | 3.45 | 3.42  | 3.42 | 3.45  | 3.49 | 3.52  | 3.55 | 3.56  |  |  |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2℃  
Operators:Allen  
Test Date:2025-02-14

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