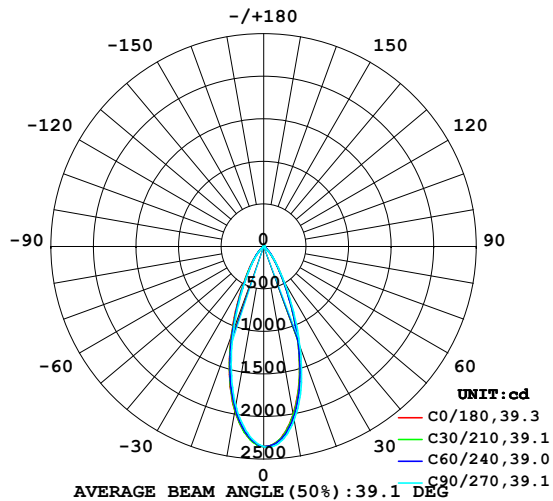


## LUMINAIRE PHOTOMETRIC TEST REPORT

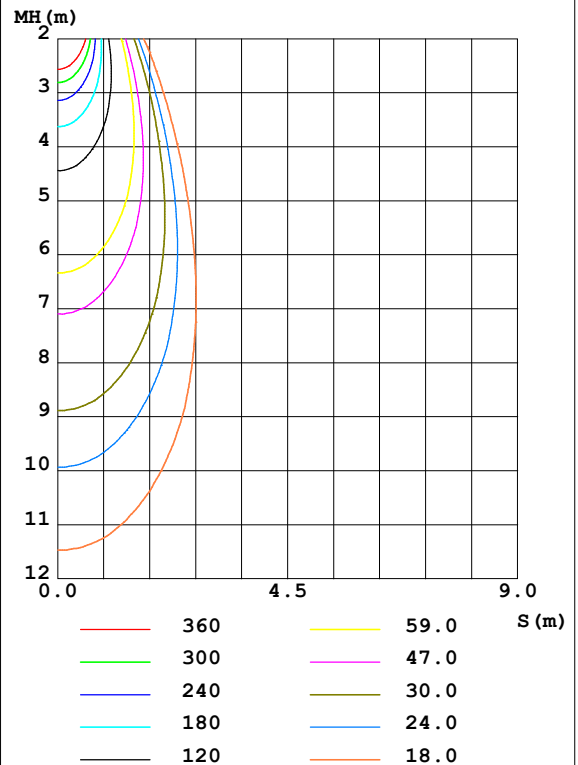
|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:217.68V I:0.0671A P:13.428W PF:0.9187 Freq:49.99Hz Lamp Flux:1240.26x1 lm |           |                  |
| NAME:                                                                            | TYPE:COB  | WEIGHT:          |
| SPEC.:3000K                                                                      | DIM.: 9mm | SERIAL No.:      |
| MFR.: Hangzhou XRZLux Co.,Ltd                                                    | SUR.:     | Shielding Angle: |

| DATA OF LAMP     |           | PHOTOMETRIC DATA Eff: 92.37 lm/W |        |                   |          |
|------------------|-----------|----------------------------------|--------|-------------------|----------|
| MODEL            | GK75-S44Q | I <sub>max</sub> (cd)            | 2359   | S/MH (C0/180)     | 0.63     |
| NOMINAL POWER(W) | 15        | LOR(%)                           | 100.0  | S/MH (C90/270)    | 0.60     |
| RATED VOLTAGE(V) | 220       | TOTAL FLUX(lm)                   | 1240.3 | η UP,DN(C0-180)   | 0.8,51.9 |
| NOMINAL FLUX(lm) | 1240.26   | CIE CLASS                        | DIRECT | η UP,DN(C180-360) | 0.7,46.7 |
| LAMPS INSIDE     | 1         | η up (%)                         | 1.5    | CIBSE SHR NOM     | 0.50     |
| TEST VOLTAGE(V)  | 220       | η down (%)                       | 98.5   | CIBSE SHR MAX     | 0.65     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:4.234m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

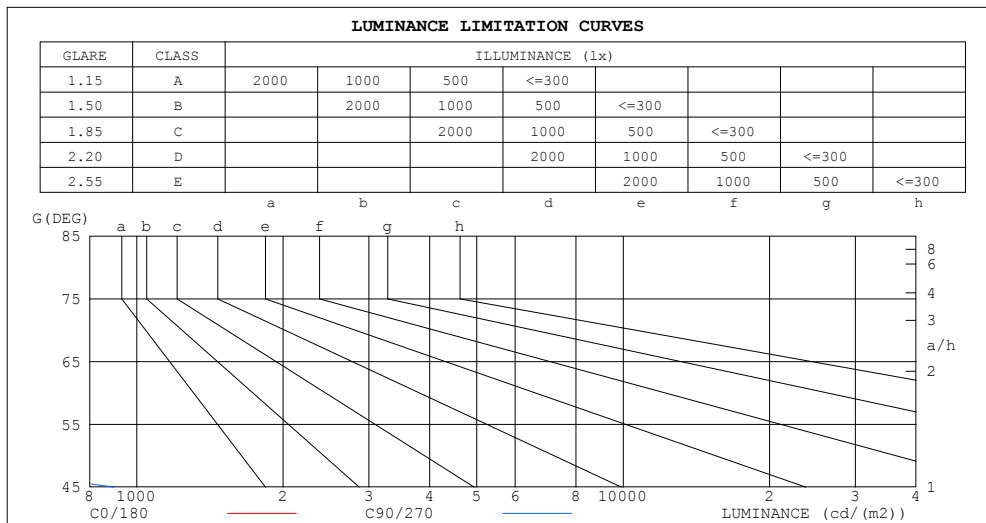
| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 2003                  | 2021   | 2071   | 2048   | 1964   | 1943   | 1899   | 1917   | 0- 10    | 206.3       | 206.3        | 16.6,16.6  |
| 20       | 1179                  | 1180   | 1249   | 1220   | 1112   | 1091   | 1032   | 1076   | 10- 20   | 435.0       | 641.3        | 51.7,51.7  |
| 30       | 470.0                 | 450.3  | 489.6  | 492.7  | 432.2  | 409.9  | 386.6  | 418.2  | 20- 30   | 339.7       | 981.0        | 79.1,79.1  |
| 40       | 159.7                 | 164.9  | 170.1  | 181.1  | 143.3  | 145.6  | 121.5  | 150.6  | 30- 40   | 169.8       | 1151         | 92.8,92.8  |
| 50       | 17.56                 | 35.98  | 19.29  | 41.04  | 14.31  | 25.58  | 10.74  | 27.40  | 40- 50   | 61.92       | 1213         | 97.8,97.8  |
| 60       | 1.092                 | 3.194  | 1.543  | 3.146  | 0.6403 | 2.098  | 0.4813 | 1.918  | 50- 60   | 8.672       | 1221         | 98.5,98.5  |
| 70       | 0.1241                | 0.1247 | 0.1186 | 0.1277 | 0.1023 | 0.1107 | 0.1072 | 0.1034 | 60- 70   | 0.5537      | 1222         | 98.5,98.5  |
| 80       | 0.0683                | 0.0662 | 0.0587 | 0.0677 | 0.0606 | 0.0642 | 0.0638 | 0.0613 | 70- 80   | 0.0898      | 1222         | 98.5,98.5  |
| 90       | 0.0582                | 0.0725 | 0.0613 | 0.0734 | 0.0583 | 0.0674 | 0.0586 | 0.0721 | 80- 90   | 0.0652      | 1222         | 98.5,98.5  |
| 100      | 0.2424                | 0.2328 | 0.2171 | 0.2330 | 0.1975 | 0.2074 | 0.2052 | 0.2221 | 90-100   | 0.1393      | 1222         | 98.6,98.6  |
| 110      | 0.7856                | 0.7333 | 0.6997 | 0.7274 | 0.6356 | 0.6253 | 0.6794 | 0.6778 | 100-110  | 0.4404      | 1223         | 98.6,98.6  |
| 120      | 2.020                 | 1.945  | 1.856  | 1.896  | 1.715  | 1.693  | 1.819  | 1.780  | 110-120  | 1.180       | 1224         | 98.7,98.7  |
| 130      | 4.016                 | 3.920  | 3.790  | 3.819  | 3.563  | 3.545  | 3.741  | 3.653  | 120-130  | 2.442       | 1226         | 98.9,98.9  |
| 140      | 6.174                 | 6.108  | 6.006  | 5.970  | 5.705  | 5.663  | 5.877  | 5.757  | 130-140  | 3.724       | 1230         | 99.2,99.2  |
| 150      | 7.567                 | 7.561  | 7.598  | 7.419  | 7.128  | 7.093  | 7.255  | 7.162  | 140-150  | 4.201       | 1234         | 99.5,99.5  |
| 160      | 7.396                 | 7.559  | 7.723  | 7.443  | 7.002  | 7.061  | 7.147  | 7.113  | 150-160  | 3.446       | 1238         | 99.8,99.8  |
| 170      | 6.513                 | 6.579  | 6.687  | 6.483  | 6.214  | 6.126  | 6.117  | 6.198  | 160-170  | 1.958       | 1240         | 100,100    |
| 180      | 6.158                 | 6.179  | 6.116  | 6.159  | 6.173  | 6.173  | 6.114  | 6.163  | 170-180  | 0.5906      | 1240         | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |            |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:4.234m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:217.68V I:0.0671A P:13.428W PF:0.9187 Freq:49.99Hz Lamp Flux:1240.26x1 lm |           |                  |
| NAME:                                                                            | TYPE:COB  | WEIGHT:          |
| SPEC.:3000K                                                                      | DIM.: 9mm | SERIAL No.:      |
| MFR.: Hangzhou XRZLux Co.,Ltd                                                    | SUR.:     | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 6      | 6       |
| 80                | 4      | 3       |
| 75                | 4      | 3       |
| 70                | 4      | 3       |
| 65                | 4      | 4       |
| 60                | 22     | 31      |
| 55                | 79     | 90      |
| 50                | 275    | 299     |
| 45                | 826    | 896     |

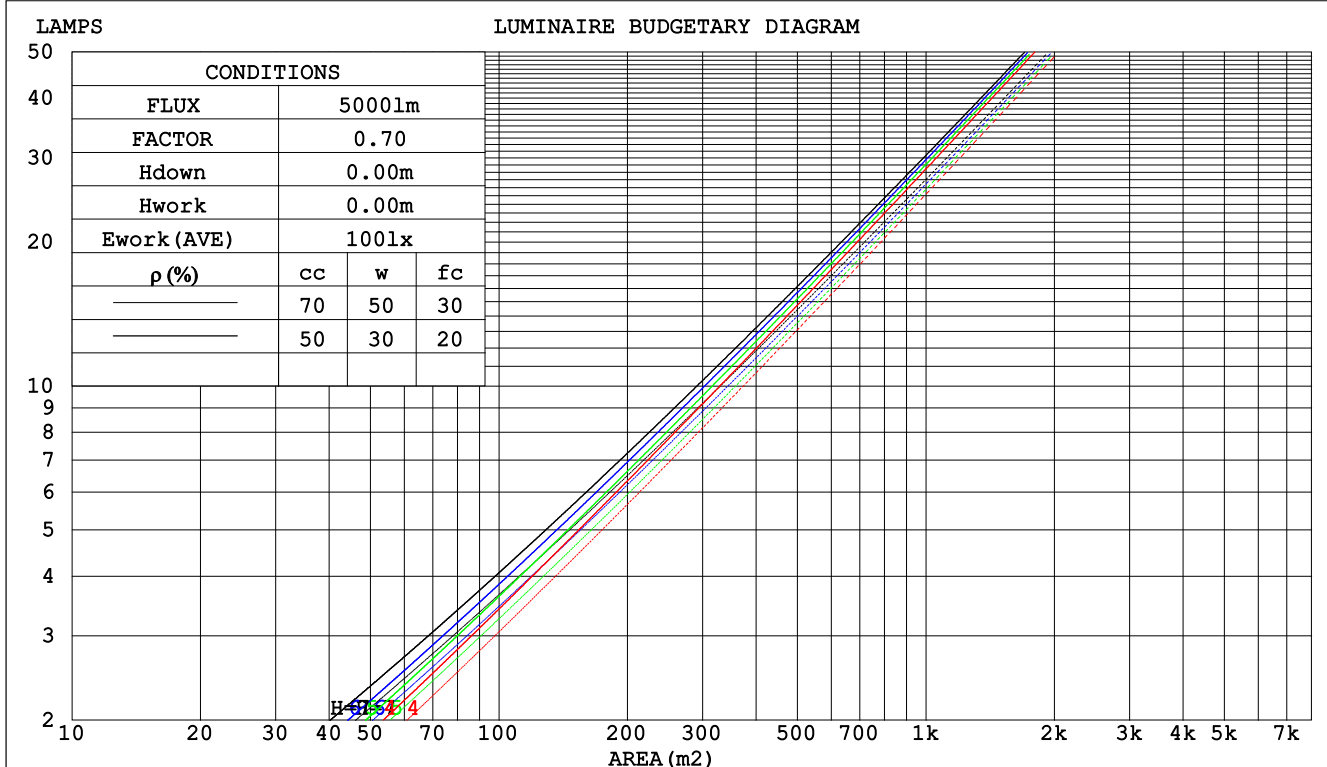
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:4.234m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:217.68V I:0.0671A P:13.428W PF:0.9187 Freq:49.99Hz Lamp Flux:1240.26x1 lm |           |                  |
| NAME:                                                                            | TYPE:COB  | WEIGHT:          |
| SPEC.:3000K                                                                      | DIM.: 9mm | SERIAL No.:      |
| MFR.: Hangzhou XRZLux Co.,Ltd                                                    | SUR.:     | Shielding Angle: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0   |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|-----|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0   |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |     |
| 0.0  | 1.19                  | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.10                            | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.01 | 1.01 | 1.01 | .99 |
| 1.0  | 1.11                  | 1.09 | 1.07 | 1.09 | 1.07 | 1.05 | 1.04                            | 1.03 | 1.01 | 1.01 | .99  | .98  | .97  | .96  | .95  | .93 |
| 2.0  | 1.04                  | 1.00 | .97  | 1.02 | .99  | .96  | .99                             | .96  | .94  | .96  | .94  | .92  | .93  | .91  | .90  | .88 |
| 3.0  | .98                   | .93  | .90  | .96  | .92  | .89  | .94                             | .90  | .87  | .91  | .88  | .86  | .89  | .86  | .84  | .83 |
| 4.0  | .92                   | .87  | .83  | .91  | .86  | .83  | .89                             | .85  | .82  | .87  | .83  | .81  | .85  | .82  | .80  | .78 |
| 5.0  | .87                   | .82  | .78  | .86  | .81  | .78  | .84                             | .80  | .77  | .83  | .79  | .76  | .81  | .78  | .75  | .74 |
| 6.0  | .83                   | .77  | .73  | .82  | .77  | .73  | .80                             | .76  | .72  | .79  | .75  | .72  | .77  | .74  | .71  | .70 |
| 7.0  | .78                   | .73  | .69  | .78  | .73  | .69  | .76                             | .72  | .69  | .75  | .71  | .68  | .74  | .70  | .68  | .66 |
| 8.0  | .75                   | .69  | .65  | .74  | .69  | .65  | .73                             | .68  | .65  | .72  | .68  | .65  | .71  | .67  | .64  | .63 |
| 9.0  | .71                   | .66  | .62  | .71  | .66  | .62  | .70                             | .65  | .62  | .69  | .64  | .61  | .68  | .64  | .61  | .60 |
| 10.0 | .68                   | .63  | .59  | .67  | .62  | .59  | .67                             | .62  | .59  | .66  | .62  | .59  | .65  | .61  | .58  | .57 |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:4.234m [K=1.0000]  
Remarks:

### WEC AND CCEC

|                                                                                  |  |  |           |  |                  |
|----------------------------------------------------------------------------------|--|--|-----------|--|------------------|
| Test:U:217.68V I:0.0671A P:13.428W PF:0.9187 Freq:49.99Hz Lamp Flux:1240.26x1 lm |  |  |           |  |                  |
| NAME:                                                                            |  |  | TYPE:COB  |  | WEIGHT:          |
| SPEC.:3000K                                                                      |  |  | DIM.: 9mm |  | SERIAL No.:      |
| MFR.: Hangzhou XRZLux Co.,Ltd                                                    |  |  | SUR.:     |  | Shielding Angle: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |  |
| 1.0  | .165                  | .094 | .030 | .158 | .090 | .029 | .145                            | .083 | .027 | .132 | .076 | .025 | .121 | .070 | .023 |   |  |
| 2.0  | .157                  | .086 | .026 | .151 | .083 | .026 | .140                            | .078 | .024 | .129 | .073 | .023 | .120 | .068 | .021 |   |  |
| 3.0  | .149                  | .079 | .024 | .144 | .077 | .023 | .134                            | .073 | .022 | .125 | .069 | .021 | .117 | .065 | .020 |   |  |
| 4.0  | .141                  | .073 | .022 | .137 | .072 | .021 | .129                            | .068 | .020 | .121 | .065 | .020 | .114 | .062 | .019 |   |  |
| 5.0  | .135                  | .069 | .020 | .131 | .067 | .020 | .123                            | .064 | .019 | .117 | .062 | .018 | .110 | .059 | .018 |   |  |
| 6.0  | .128                  | .064 | .018 | .125 | .063 | .018 | .119                            | .061 | .018 | .113 | .059 | .017 | .107 | .056 | .017 |   |  |
| 7.0  | .123                  | .061 | .017 | .120 | .060 | .017 | .114                            | .058 | .017 | .109 | .056 | .016 | .104 | .054 | .016 |   |  |
| 8.0  | .117                  | .057 | .016 | .115 | .056 | .016 | .110                            | .055 | .016 | .105 | .053 | .015 | .100 | .052 | .015 |   |  |
| 9.0  | .112                  | .054 | .015 | .110 | .054 | .015 | .105                            | .052 | .015 | .101 | .051 | .015 | .097 | .049 | .014 |   |  |
| 10.0 | .108                  | .052 | .014 | .106 | .051 | .014 | .102                            | .050 | .014 | .098 | .049 | .014 | .094 | .047 | .014 |   |  |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                                        |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--------------------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                                        | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                                        |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .202                  | .202 | .202 | .172 | .172 | .172 | .118                                       | .118 | .118 | .068 | .068 | .068 | .022 | .022 | .022 |   |
| 1.0  | .182                  | .169 | .157 | .155 | .145 | .135 | .106                                       | .100 | .093 | .061 | .058 | .054 | .020 | .019 | .018 |   |
| 2.0  | .166                  | .144 | .126 | .142 | .124 | .109 | .097                                       | .086 | .076 | .056 | .050 | .044 | .018 | .016 | .014 |   |
| 3.0  | .153                  | .125 | .103 | .131 | .108 | .089 | .090                                       | .075 | .063 | .052 | .044 | .037 | .017 | .014 | .012 |   |
| 4.0  | .142                  | .110 | .086 | .122 | .095 | .075 | .084                                       | .066 | .052 | .048 | .039 | .031 | .016 | .013 | .010 |   |
| 5.0  | .133                  | .098 | .073 | .114 | .085 | .063 | .078                                       | .059 | .045 | .045 | .035 | .027 | .015 | .011 | .009 |   |
| 6.0  | .125                  | .089 | .063 | .107 | .077 | .055 | .074                                       | .054 | .039 | .043 | .032 | .023 | .014 | .010 | .008 |   |
| 7.0  | .118                  | .081 | .055 | .102 | .070 | .048 | .070                                       | .049 | .034 | .041 | .029 | .020 | .013 | .010 | .007 |   |
| 8.0  | .112                  | .075 | .049 | .097 | .065 | .043 | .067                                       | .046 | .030 | .039 | .027 | .018 | .013 | .009 | .006 |   |
| 9.0  | .107                  | .069 | .044 | .092 | .060 | .038 | .064                                       | .042 | .027 | .037 | .025 | .016 | .012 | .008 | .005 |   |
| 10.0 | .102                  | .065 | .040 | .088 | .056 | .035 | .061                                       | .040 | .025 | .036 | .023 | .015 | .012 | .008 | .005 |   |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:4.234m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

|                                                                                  |               |                  |     |     |           |               |                |                  |     |     |  |
|----------------------------------------------------------------------------------|---------------|------------------|-----|-----|-----------|---------------|----------------|------------------|-----|-----|--|
| Test:U:217.68V I:0.0671A P:13.428W PF:0.9187 Freq:49.99Hz Lamp Flux:1240.26x1 lm |               |                  |     |     |           |               |                |                  |     |     |  |
| NAME:                                                                            |               |                  |     |     | TYPE:COB  |               |                | WEIGHT:          |     |     |  |
| SPEC.:3000K                                                                      |               |                  |     |     | DIM.: 9mm |               |                | SERIAL No.:      |     |     |  |
| MFR.: Hangzhou XRZLux Co.,Ltd                                                    |               |                  |     |     | 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                                                                    | 6.3           | 7.2              | 6.6 | 7.4 | 7.5       | 6.6           | 7.4            | 6.8              | 7.6 | 7.8 |  |
|                                                                                  | 3H            | 6.2              | 6.9 | 6.4 | 7.2       | 7.4           | 6.4            | 7.2              | 6.7 | 7.4 |  |
|                                                                                  | 4H            | 6.1              | 6.8 | 6.4 | 7.0       | 7.3           | 6.3            | 7.1              | 6.6 | 7.3 |  |
|                                                                                  | 6H            | 6.0              | 6.7 | 6.3 | 6.9       | 7.2           | 6.2            | 6.9              | 6.5 | 7.2 |  |
|                                                                                  | 8H            | 5.9              | 6.6 | 6.3 | 6.9       | 7.2           | 6.2            | 6.8              | 6.5 | 7.1 |  |
|                                                                                  | 12H           | 5.9              | 6.5 | 6.2 | 6.8       | 7.1           | 6.1            | 6.8              | 6.5 | 7.1 |  |
| 4H                                                                               | 2H            | 6.1              | 6.8 | 6.4 | 7.1       | 7.3           | 6.3            | 7.1              | 6.6 | 7.3 |  |
|                                                                                  | 3H            | 5.9              | 6.5 | 6.2 | 6.8       | 7.1           | 6.1            | 6.8              | 6.5 | 7.1 |  |
|                                                                                  | 4H            | 5.8              | 6.4 | 6.2 | 6.7       | 7.0           | 6.0            | 6.6              | 6.4 | 6.9 |  |
|                                                                                  | 6H            | 5.7              | 6.2 | 6.1 | 6.6       | 6.9           | 5.9            | 6.5              | 6.3 | 6.8 |  |
|                                                                                  | 8H            | 5.6              | 6.1 | 6.1 | 6.5       | 6.9           | 5.9            | 6.4              | 6.3 | 6.7 |  |
|                                                                                  | 12H           | 5.6              | 6.0 | 6.0 | 6.4       | 6.8           | 5.8            | 6.3              | 6.3 | 6.7 |  |
| 8H                                                                               | 4H            | 5.6              | 6.1 | 6.1 | 6.5       | 6.9           | 5.9            | 6.4              | 6.3 | 6.7 |  |
|                                                                                  | 6H            | 5.5              | 5.9 | 6.0 | 6.3       | 6.8           | 5.8            | 6.2              | 6.2 | 6.6 |  |
|                                                                                  | 8H            | 5.5              | 5.8 | 5.9 | 6.3       | 6.7           | 5.7            | 6.1              | 6.2 | 6.5 |  |
|                                                                                  | 12H           | 5.4              | 5.7 | 5.9 | 6.2       | 6.7           | 5.7            | 6.0              | 6.2 | 6.4 |  |
| 12H                                                                              | 4H            | 5.6              | 6.0 | 6.0 | 6.4       | 6.8           | 5.8            | 6.3              | 6.3 | 6.7 |  |
|                                                                                  | 6H            | 5.5              | 5.8 | 5.9 | 6.3       | 6.7           | 5.7            | 6.1              | 6.2 | 6.5 |  |
|                                                                                  | 8H            | 5.4              | 5.7 | 5.9 | 6.2       | 6.7           | 5.7            | 6.0              | 6.2 | 6.4 |  |
| Variations with the observer position at spacings:                               |               |                  |     |     |           |               |                |                  |     |     |  |
| S = 1.0H                                                                         | + 2.8 / -18.7 |                  |     |     |           | + 2.8 / -17.8 |                |                  |     |     |  |
| 1.5H                                                                             | + 4.8 / -11.6 |                  |     |     |           | + 4.7 / -10.5 |                |                  |     |     |  |
| 2.0H                                                                             | + 6.7 / -18.4 |                  |     |     |           | + 6.5 / -17.3 |                |                  |     |     |  |

CIE Pub.117, 1240 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.7)  
Area: 0.1 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:4.234m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:217.68V I:0.0671A P:13.428W PF:0.9187 Freq:49.99Hz Lamp Flux:1240.26x1 lm |           |                  |
| NAME:                                                                            | TYPE:COB  | WEIGHT:          |
| SPEC.:3000K                                                                      | DIM.: 9mm | SERIAL No.:      |
| MFR.: Hangzhou XRZLux Co.,Ltd                                                    | SUR.:     | Shielding Angle: |

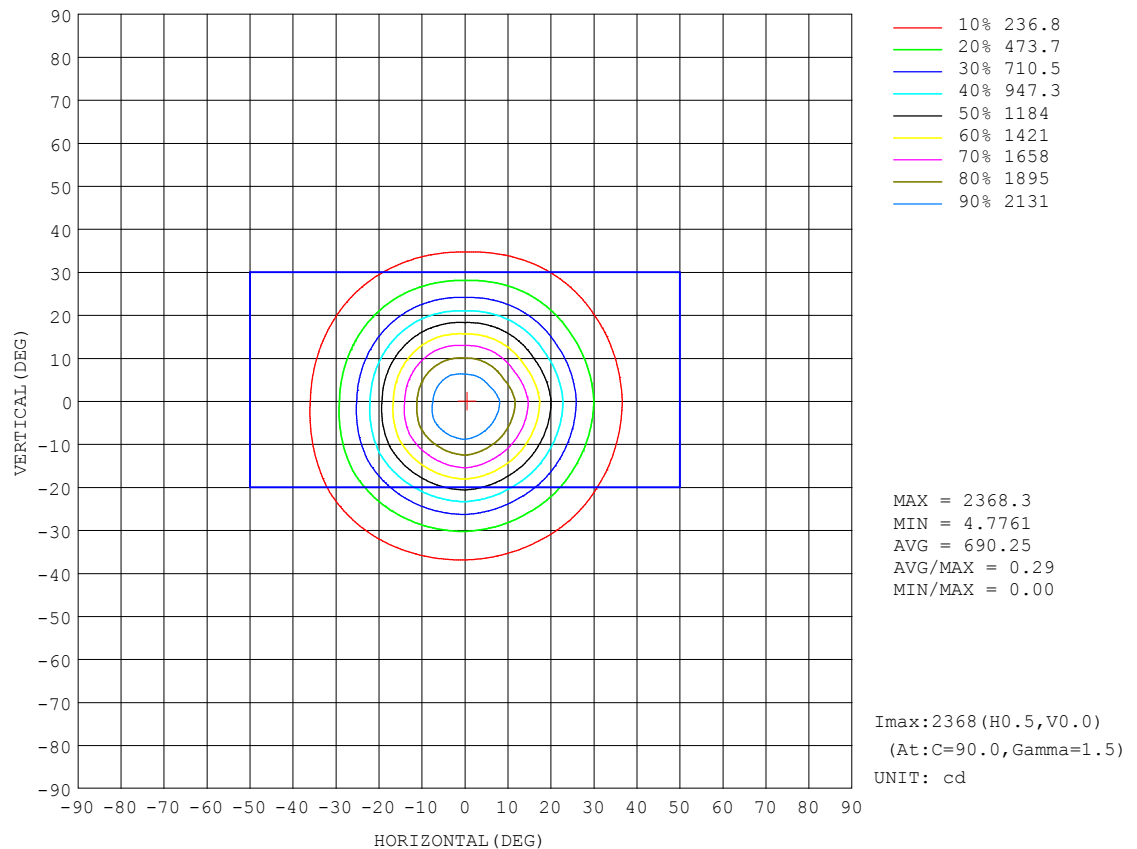
| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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                                                   | 81  | 77        | 86  | 81  | 77  | 86  | 80            | 77  | 73     |
| 0.80                             | 95                                                   | 89  | 85        | 94  | 88  | 85  | 92  | 88            | 84  | 81     |
| 1.00                             | 99                                                   | 93  | 90        | 98  | 93  | 90  | 96  | 93            | 89  | 85     |
| 1.25                             | 103                                                  | 98  | 94        | 102 | 97  | 94  | 100 | 96            | 93  | 89     |
| 1.50                             | 106                                                  | 101 | 98        | 104 | 100 | 97  | 102 | 99            | 96  | 91     |
| 2.00                             | 108                                                  | 104 | 101       | 107 | 103 | 100 | 104 | 101           | 99  | 93     |
| 2.50                             | 110                                                  | 106 | 103       | 108 | 105 | 102 | 105 | 102           | 100 | 94     |
| 3.00                             | 111                                                  | 108 | 105       | 110 | 107 | 104 | 106 | 104           | 102 | 95     |
| 4.00                             | 113                                                  | 111 | 109       | 111 | 109 | 107 | 107 | 106           | 104 | 97     |
| 5.00                             | 115                                                  | 112 | 111       | 112 | 111 | 109 | 108 | 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: 30.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:4.234m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:217.68V I:0.0671A P:13.428W PF:0.9187 Freq:49.99Hz Lamp Flux:1240.26x1 lm |           |                  |
| NAME:                                                                            | TYPE:COB  | WEIGHT:          |
| SPEC.:3000K                                                                      | DIM.: 9mm | SERIAL No.:      |
| MFR.: Hangzhou XRZLux Co.,Ltd                                                    | SUR.:     | Shielding Angle: |

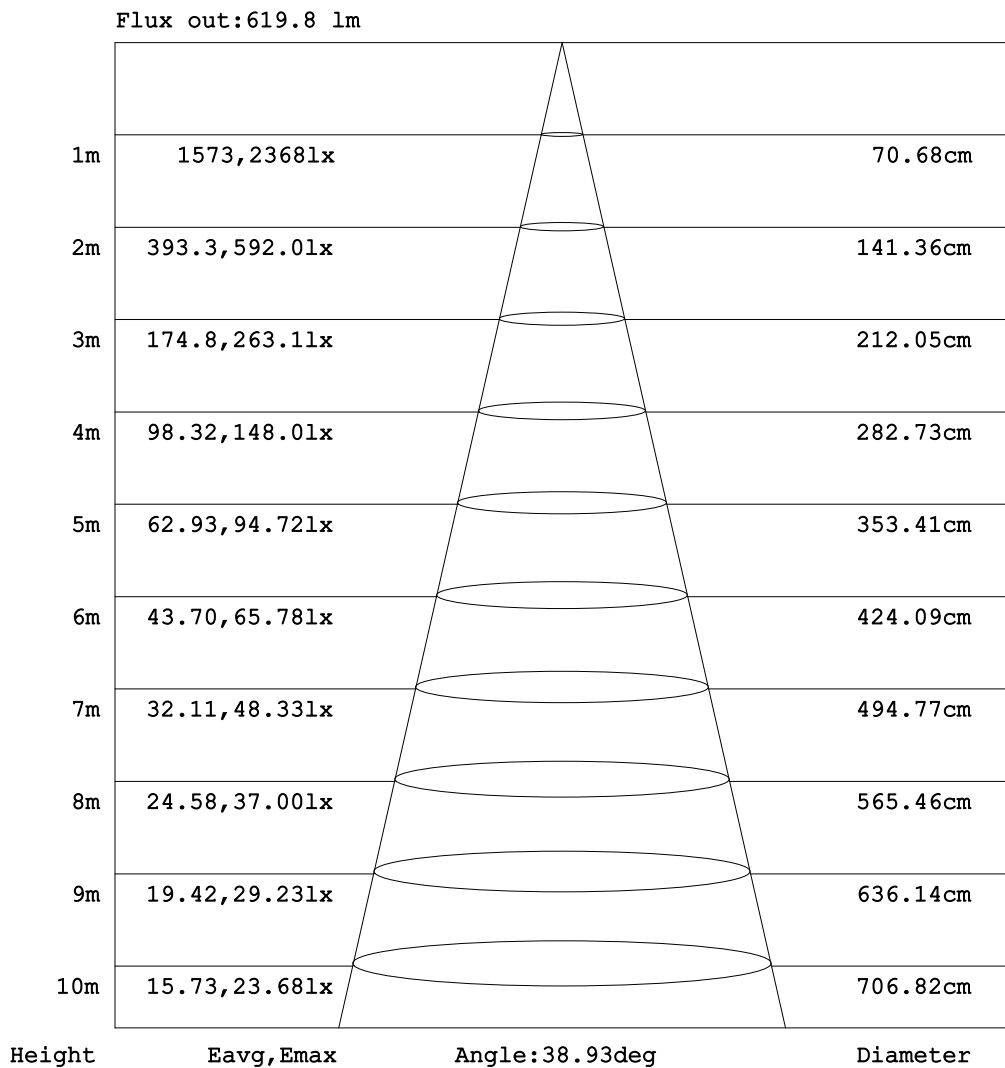


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:4.234m [K=1.0000]  
Remarks:

**AAI Figure**

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:217.68V I:0.0671A P:13.428W PF:0.9187 Freq:49.99Hz Lamp Flux:1240.26x1 lm |           |                  |
| NAME:                                                                            | TYPE:COB  | WEIGHT:          |
| SPEC.:3000K                                                                      | DIM.: 9mm | SERIAL No.:      |
| MFR.: Hangzhou XRZLux Co.,Ltd                                                    | SUR.:     | Shielding Angle: |



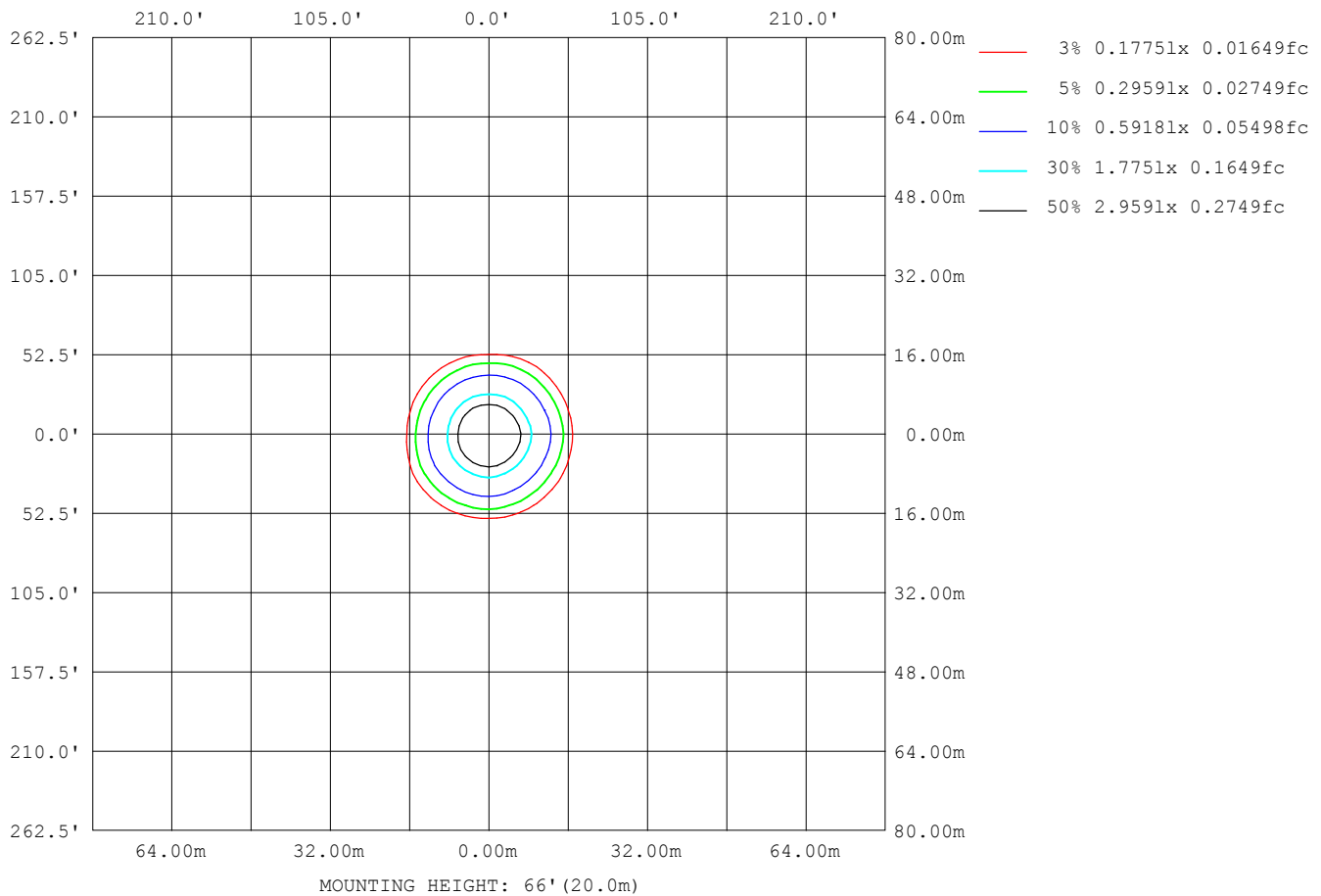
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2026-04-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:4.234m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:217.68V I:0.0671A P:13.428W PF:0.9187 Freq:49.99Hz Lamp Flux:1240.26x1 lm |           |                  |
| NAME:                                                                            | TYPE:COB  | WEIGHT:          |
| SPEC.:3000K                                                                      | DIM.: 9mm | SERIAL No.:      |
| MFR.: Hangzhou XRZLux Co.,Ltd                                                    | SUR.:     | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:4.234m [K=1.0000]  
Remarks:

### LED Avg.L Report

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:217.68V I:0.0671A P:13.428W PF:0.9187 Freq:49.99Hz Lamp Flux:1240.26x1 lm |           |                  |
| NAME:                                                                            | TYPE:COB  | WEIGHT:          |
| SPEC.:3000K                                                                      | DIM.: 9mm | SERIAL No.:      |
| MFR.: Hangzhou XRZLux Co.,Ltd                                                    | SUR.:     | Shielding Angle: |

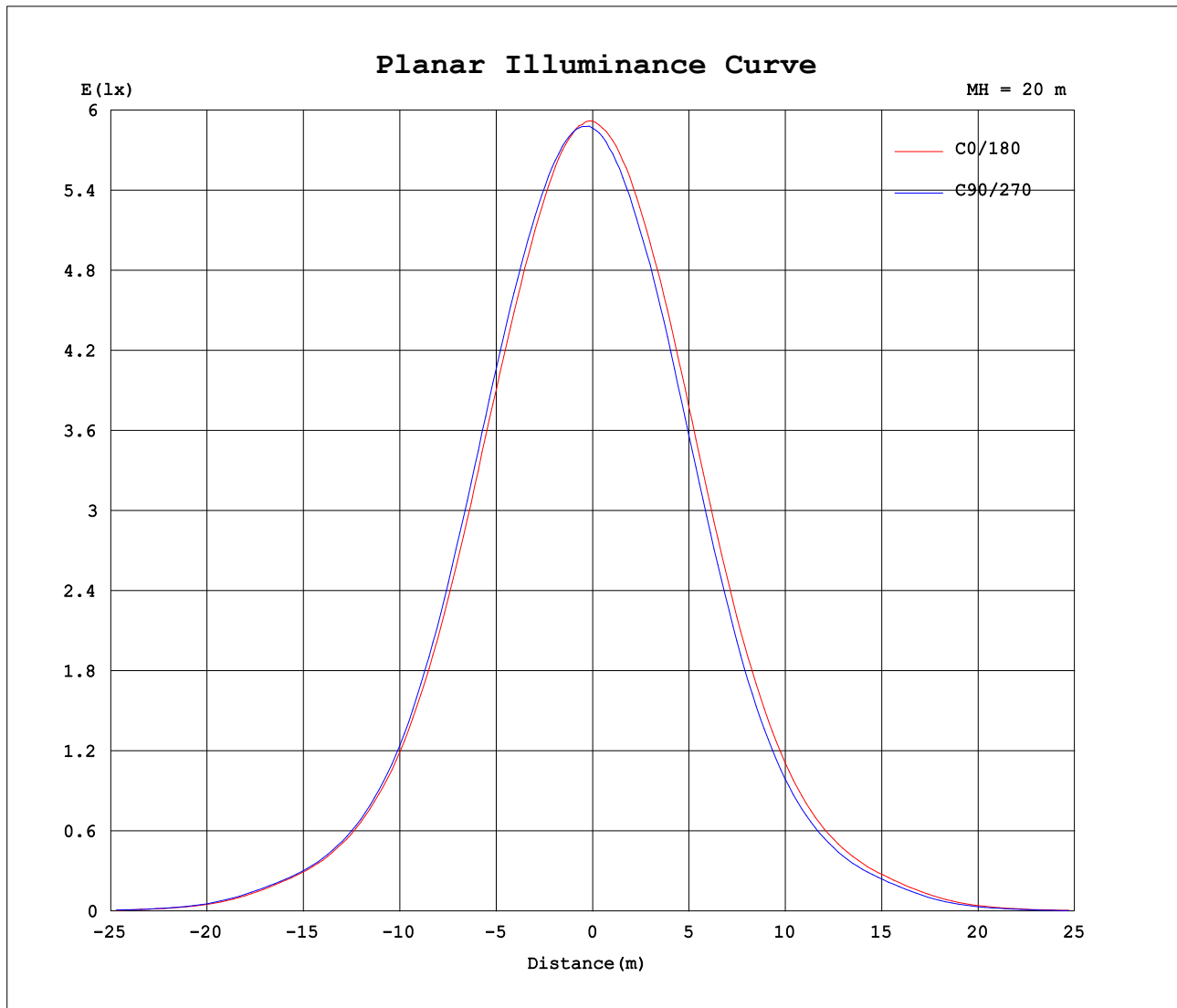
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 4     |
| L_0~180 (75) av  | 3     |
| L_0~180 (85) av  | 6     |
| L_90~270 (65) av | 4     |
| L_90~270 (75) av | 3     |
| L_90~270 (85) av | 6     |
| L_45 (65) av     | 9     |
| L_45 (75) av     | 3     |
| L_45 (85) av     | 7     |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:4.234m [K=1.0000]  
Remarks:

# Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2026-04-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity: 65.0%  
 Test Distance: 4.234m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:217.68V I:0.0671A P:13.428W PF:0.9187 Freq:49.99Hz Lamp Flux:1240.26x1 lm |           |                  |
| NAME:                                                                            | TYPE:COB  | WEIGHT:          |
| SPEC.:3000K                                                                      | DIM.: 9mm | SERIAL No.:      |
| MFR.: Hangzhou XRZLux Co.,Ltd                                                    | SUR.:     | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|
| 0                  | 2352 | 2352 | 2352 | 2352 | 2352 | 2352 | 2352 | 2352 | 2352 | 2352 | 2352 | 2352 |  |  |  |  |  |  |  |
| 5                  | 2268 | 2271 | 2281 | 2301 | 2294 | 2288 | 2238 | 2237 | 2222 | 2199 | 2210 | 2220 |  |  |  |  |  |  |  |
| 10                 | 2003 | 2008 | 2035 | 2071 | 2052 | 2044 | 1964 | 1953 | 1934 | 1899 | 1910 | 1925 |  |  |  |  |  |  |  |
| 15                 | 1624 | 1625 | 1645 | 1706 | 1671 | 1661 | 1559 | 1554 | 1533 | 1481 | 1504 | 1523 |  |  |  |  |  |  |  |
| 20                 | 1179 | 1174 | 1186 | 1249 | 1223 | 1218 | 1112 | 1102 | 1079 | 1032 | 1066 | 1085 |  |  |  |  |  |  |  |
| 25                 | 772  | 753  | 758  | 813  | 805  | 805  | 718  | 702  | 682  | 650  | 682  | 703  |  |  |  |  |  |  |  |
| 30                 | 470  | 448  | 453  | 490  | 490  | 495  | 432  | 417  | 403  | 387  | 411  | 426  |  |  |  |  |  |  |  |
| 35                 | 277  | 266  | 269  | 289  | 295  | 298  | 260  | 245  | 236  | 229  | 246  | 253  |  |  |  |  |  |  |  |
| 40                 | 160  | 163  | 167  | 170  | 180  | 182  | 143  | 149  | 142  | 122  | 149  | 152  |  |  |  |  |  |  |  |
| 45                 | 58.0 | 92.8 | 103  | 63.5 | 102  | 110  | 48.4 | 80.2 | 71.6 | 39.0 | 79.9 | 75.0 |  |  |  |  |  |  |  |
| 50                 | 17.6 | 32.3 | 39.7 | 19.3 | 37.5 | 44.6 | 14.3 | 27.4 | 23.7 | 10.7 | 28.5 | 26.3 |  |  |  |  |  |  |  |
| 55                 | 4.52 | 9.34 | 12.2 | 5.15 | 11.0 | 13.9 | 3.91 | 8.06 | 6.35 | 3.16 | 7.79 | 7.22 |  |  |  |  |  |  |  |
| 60                 | 1.09 | 2.85 | 3.54 | 1.54 | 2.97 | 3.33 | 0.64 | 2.22 | 1.98 | 0.48 | 2.02 | 1.81 |  |  |  |  |  |  |  |
| 65                 | 0.17 | 0.42 | 0.58 | 0.17 | 0.45 | 0.59 | 0.15 | 0.23 | 0.21 | 0.15 | 0.22 | 0.21 |  |  |  |  |  |  |  |
| 70                 | 0.12 | 0.12 | 0.13 | 0.12 | 0.13 | 0.12 | 0.10 | 0.12 | 0.11 | 0.11 | 0.10 | 0.11 |  |  |  |  |  |  |  |
| 75                 | 0.09 | 0.08 | 0.09 | 0.08 | 0.09 | 0.08 | 0.08 | 0.09 | 0.07 | 0.08 | 0.07 | 0.08 |  |  |  |  |  |  |  |
| 80                 | 0.07 | 0.06 | 0.07 | 0.06 | 0.07 | 0.06 | 0.06 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 |  |  |  |  |  |  |  |
| 85                 | 0.05 | 0.06 | 0.06 | 0.05 | 0.06 | 0.06 | 0.05 | 0.06 | 0.06 | 0.05 | 0.06 | 0.06 |  |  |  |  |  |  |  |
| 90                 | 0.06 | 0.08 | 0.07 | 0.06 | 0.07 | 0.08 | 0.06 | 0.06 | 0.07 | 0.06 | 0.08 | 0.07 |  |  |  |  |  |  |  |
| 95                 | 0.12 | 0.13 | 0.12 | 0.11 | 0.12 | 0.13 | 0.10 | 0.12 | 0.12 | 0.10 | 0.13 | 0.12 |  |  |  |  |  |  |  |
| 100                | 0.24 | 0.24 | 0.22 | 0.22 | 0.23 | 0.24 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 | 0.22 |  |  |  |  |  |  |  |
| 105                | 0.45 | 0.43 | 0.41 | 0.40 | 0.41 | 0.42 | 0.36 | 0.36 | 0.37 | 0.38 | 0.40 | 0.39 |  |  |  |  |  |  |  |
| 110                | 0.79 | 0.75 | 0.71 | 0.70 | 0.72 | 0.74 | 0.64 | 0.62 | 0.63 | 0.68 | 0.68 | 0.68 |  |  |  |  |  |  |  |
| 115                | 1.30 | 1.26 | 1.20 | 1.17 | 1.20 | 1.22 | 1.07 | 1.05 | 1.07 | 1.14 | 1.13 | 1.12 |  |  |  |  |  |  |  |
| 120                | 2.02 | 1.98 | 1.91 | 1.86 | 1.88 | 1.91 | 1.72 | 1.68 | 1.71 | 1.82 | 1.79 | 1.77 |  |  |  |  |  |  |  |
| 125                | 2.95 | 2.91 | 2.81 | 2.75 | 2.77 | 2.80 | 2.56 | 2.51 | 2.56 | 2.70 | 2.65 | 2.63 |  |  |  |  |  |  |  |
| 130                | 4.02 | 3.97 | 3.87 | 3.79 | 3.80 | 3.83 | 3.56 | 3.52 | 3.57 | 3.74 | 3.67 | 3.63 |  |  |  |  |  |  |  |
| 135                | 5.13 | 5.10 | 4.99 | 4.92 | 4.91 | 4.93 | 4.65 | 4.59 | 4.66 | 4.84 | 4.75 | 4.71 |  |  |  |  |  |  |  |
| 140                | 6.17 | 6.15 | 6.06 | 6.01 | 5.97 | 5.97 | 5.70 | 5.63 | 5.69 | 5.88 | 5.77 | 5.74 |  |  |  |  |  |  |  |
| 145                | 7.03 | 7.01 | 6.96 | 6.95 | 6.86 | 6.82 | 6.58 | 6.49 | 6.57 | 6.73 | 6.62 | 6.60 |  |  |  |  |  |  |  |
| 150                | 7.57 | 7.56 | 7.56 | 7.60 | 7.46 | 7.37 | 7.13 | 7.06 | 7.13 | 7.26 | 7.18 | 7.15 |  |  |  |  |  |  |  |
| 155                | 7.67 | 7.71 | 7.80 | 7.86 | 7.70 | 7.54 | 7.25 | 7.24 | 7.28 | 7.39 | 7.35 | 7.29 |  |  |  |  |  |  |  |
| 160                | 7.40 | 7.49 | 7.63 | 7.72 | 7.54 | 7.35 | 7.00 | 7.03 | 7.10 | 7.15 | 7.17 | 7.06 |  |  |  |  |  |  |  |
| 165                | 6.96 | 7.07 | 7.16 | 7.29 | 7.10 | 6.92 | 6.61 | 6.58 | 6.66 | 6.71 | 6.73 | 6.65 |  |  |  |  |  |  |  |
| 170                | 6.51 | 6.57 | 6.58 | 6.69 | 6.51 | 6.46 | 6.21 | 6.18 | 6.08 | 6.12 | 6.18 | 6.21 |  |  |  |  |  |  |  |
| 175                | 6.16 | 6.22 | 6.31 | 6.25 | 6.21 | 6.18 | 6.01 | 6.02 | 5.94 | 5.89 | 6.05 | 6.01 |  |  |  |  |  |  |  |
| 180                | 6.16 | 6.19 | 6.17 | 6.12 | 6.14 | 6.17 | 6.17 | 6.17 | 6.18 | 6.11 | 6.16 | 6.17 |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:4.234m [K=1.0000]  
Remarks: