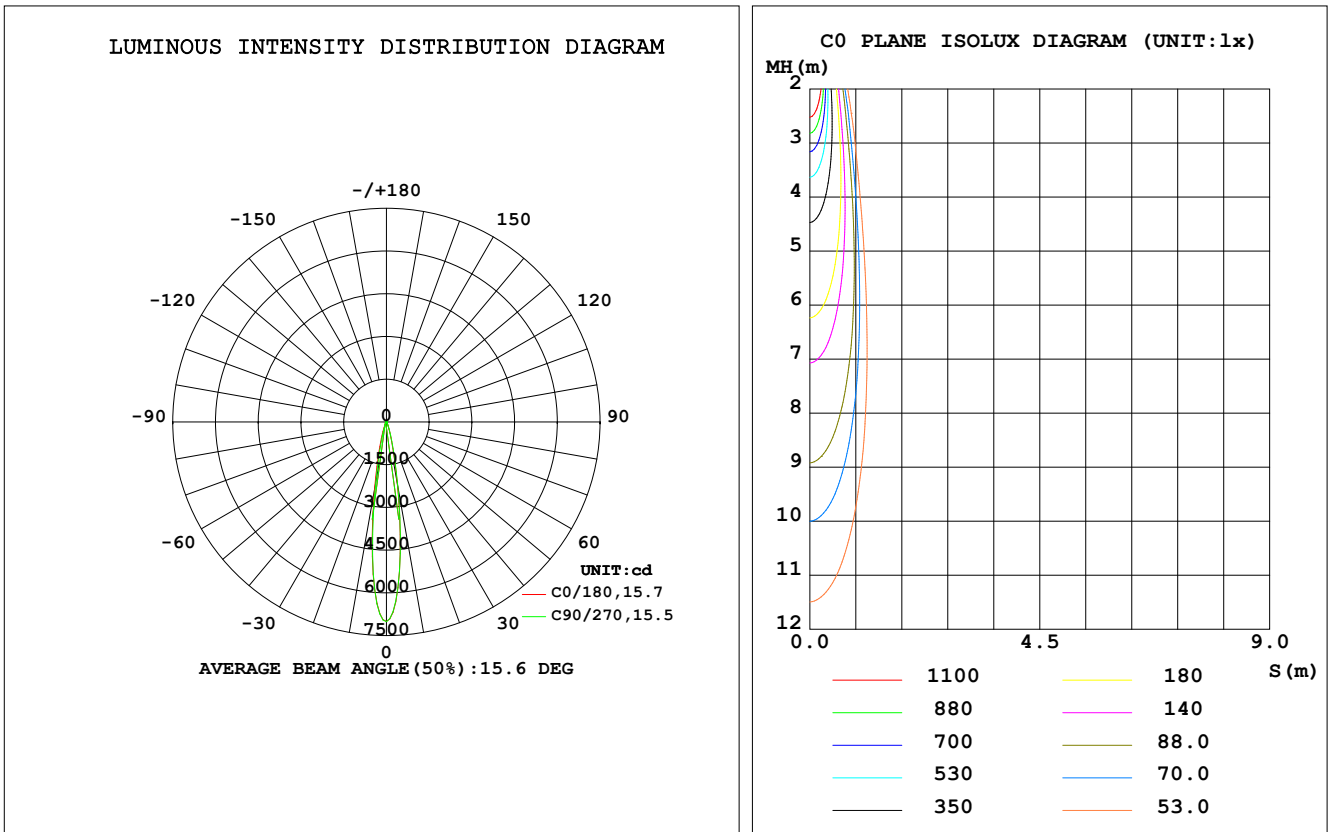


LUMINAIRE PHOTOMETRIC TEST REPORT

|                                                                                  |  |  |       |  |                  |
|----------------------------------------------------------------------------------|--|--|-------|--|------------------|
| Test:U:231.33V I:0.0454A P:9.6226W PF:0.9158 Freq:49.37Hz Lamp Flux:731.087x1 lm |  |  |       |  |                  |
| NAME: W11011LED-X                                                                |  |  | TYPE: |  | WEIGHT:          |
| SPEC.:P-W11011LED-X-8W3015-CI25031R90-OS600                                      |  |  | DIM.: |  | SERIAL No.:      |
| MFR.: CETTIGA                                                                    |  |  | SUR.: |  | Shielding Angle: |

| DATA OF LAMP      |             | PHOTOMETRIC DATA      |        |                     |           | Eff: 75.98 lm/W |
|-------------------|-------------|-----------------------|--------|---------------------|-----------|-----------------|
| MODEL             | CLU701 1002 | I <sub>max</sub> (cd) | 7009   | S/MH (C0/180)       | 0.28      |                 |
| NOMINAL POWER (W) | 8W          | LOR (%)               | 100.0  | S/MH (C90/270)      | 0.27      |                 |
| RATED VOLTAGE (V) | 220.0       | TOTAL FLUX (lm)       | 731.09 | η UP, DN (C0-180)   | 0.2, 49.1 |                 |
| NOMINAL FLUX (lm) | 731.087     | CIE CLASS             | DIRECT | η UP, DN (C180-360) | 0.1, 50.5 |                 |
| LAMPS INSIDE      | 1           | η up (%)              | 0.3    | CIBSE SHR NOM       | 0.00      |                 |
| TEST VOLTAGE (V)  | 220.2       | η down (%)            | 99.7   | CIBSE SHR MAX       | 1.00      |                 |



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Xie Bi  
Test Date: 2022-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 6.810m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

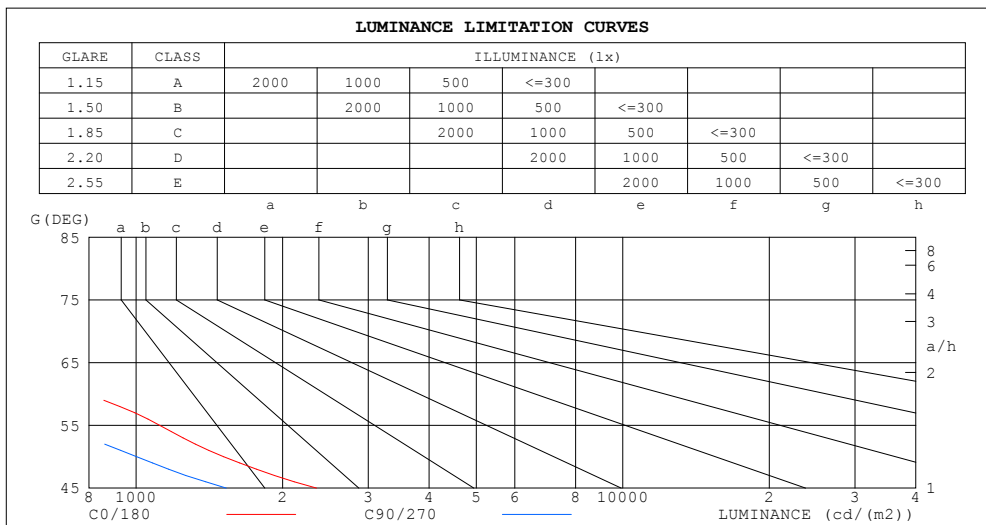
| $\gamma$ | C0                    | C90    | C180   | C270   |  |  |  |  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--|--|--|--|----------|-------------|--------------|------------|
| 10       | 2219                  | 2301   | 2403   | 2182   |  |  |  |  | 0- 10    | 402.0       | 402.0        | 55,55      |
| 20       | 271.9                 | 288.7  | 362.0  | 248.2  |  |  |  |  | 10- 20   | 238.8       | 640.8        | 87.7,87.7  |
| 30       | 54.95                 | 50.43  | 66.43  | 45.29  |  |  |  |  | 20- 30   | 60.46       | 701.3        | 95.9,95.9  |
| 40       | 16.42                 | 10.29  | 17.90  | 9.804  |  |  |  |  | 30- 40   | 17.99       | 719.3        | 98.4,98.4  |
| 50       | 4.864                 | 3.222  | 4.749  | 3.003  |  |  |  |  | 40- 50   | 5.692       | 725.0        | 99.2,99.2  |
| 60       | 1.964                 | 1.137  | 2.022  | 1.096  |  |  |  |  | 50- 60   | 2.309       | 727.3        | 99.5,99.5  |
| 70       | 0.7133                | 0.5053 | 0.6829 | 0.5231 |  |  |  |  | 60- 70   | 0.9539      | 728.2        | 99.6,99.6  |
| 80       | 0.2427                | 0.1220 | 0.1776 | 0.1467 |  |  |  |  | 70- 80   | 0.4003      | 728.6        | 99.7,99.7  |
| 90       | 0                     | 0      | 0      | 0      |  |  |  |  | 80- 90   | 0.0559      | 728.7        | 99.7,99.7  |
| 100      | 0                     | 0      | 0      | 0      |  |  |  |  | 90-100   | 0           | 728.7        | 99.7,99.7  |
| 110      | 0                     | 0      | 0.0209 | 0.0017 |  |  |  |  | 100-110  | 0.0014      | 728.7        | 99.7,99.7  |
| 120      | 0                     | 0      | 0.0279 | 0.0192 |  |  |  |  | 110-120  | 0.0086      | 728.7        | 99.7,99.7  |
| 130      | 0.0279                | 0.0140 | 0.0454 | 0.0436 |  |  |  |  | 120-130  | 0.0168      | 728.7        | 99.7,99.7  |
| 140      | 0.1882                | 0.1362 | 0.0890 | 0.1168 |  |  |  |  | 130-140  | 0.0537      | 728.8        | 99.7,99.7  |
| 150      | 1.092                 | 0.9139 | 0.3822 | 0.4025 |  |  |  |  | 140-150  | 0.2024      | 729.0        | 99.7,99.7  |
| 160      | 3.778                 | 3.680  | 2.054  | 2.159  |  |  |  |  | 150-160  | 0.7456      | 729.7        | 99.8,99.8  |
| 170      | 4.071                 | 4.179  | 3.585  | 3.657  |  |  |  |  | 160-170  | 1.038       | 730.8        | 100,100    |
| 180      | 2.881                 | 2.921  | 2.879  | 2.923  |  |  |  |  | 170-180  | 0.3301      | 731.1        | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |  |  |  |  |          | UNIT:lm     |              |            |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Xie Bi  
Test Date:2022-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.810m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:231.33V I:0.0454A P:9.6226W PF:0.9158 Freq:49.37Hz Lamp Flux:731.087x1 lm |       |                  |
| NAME: W11011LED-X                                                                | TYPE: | WEIGHT:          |
| SPEC.:P-W11011LED-X-8W3015-CI25031R90-OS600                                      | DIM.: | SERIAL No.:      |
| MFR.: CETTIGA                                                                    | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 189    | 0       |
| 80                | 280    | 140     |
| 75                | 352    | 226     |
| 70                | 417    | 295     |
| 65                | 527    | 365     |
| 60                | 785    | 455     |
| 55                | 1118   | 666     |
| 50                | 1513   | 1003    |
| 45                | 2348   | 1532    |

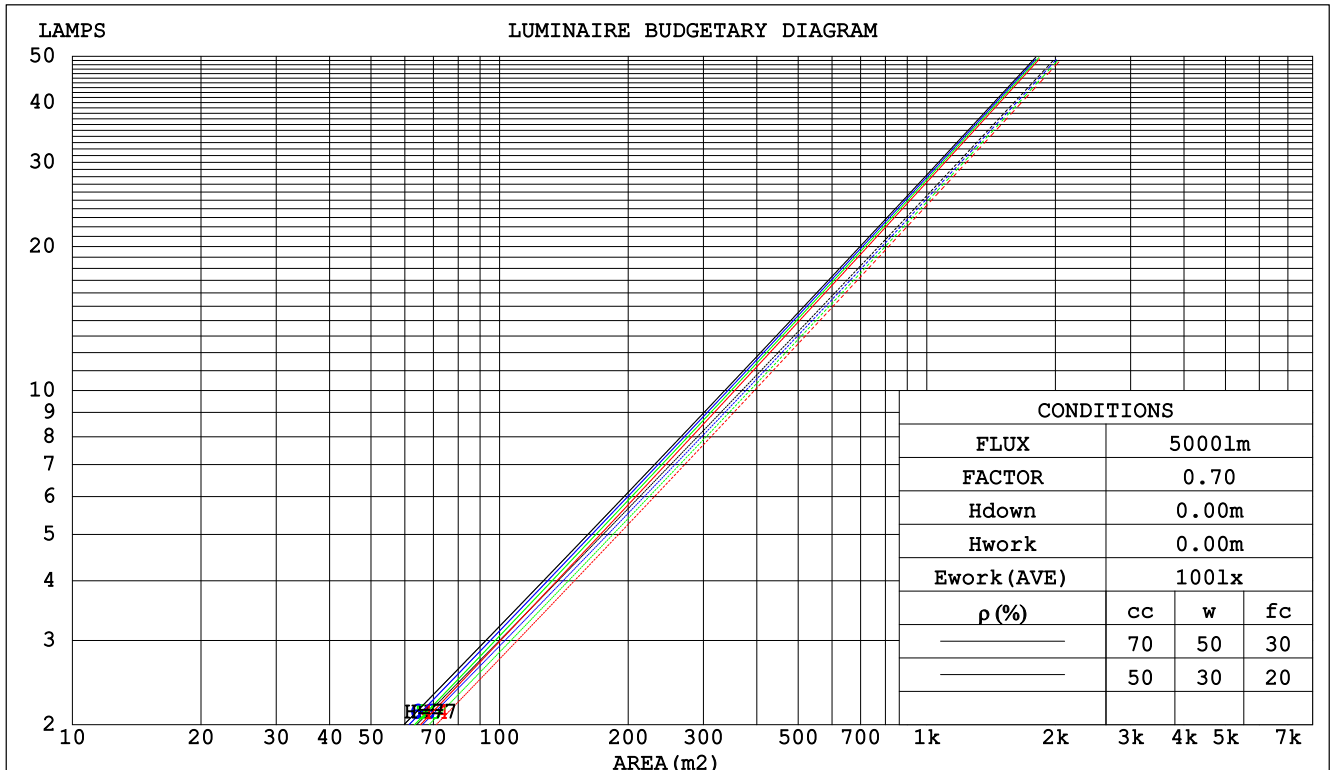
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Xie Bi  
Test Date:2022-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.810m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:231.33V I:0.0454A P:9.6226W PF:0.9158 Freq:49.37Hz Lamp Flux:731.087x1 lm |       |                  |
| NAME: W11011LED-X                                                                | TYPE: | WEIGHT:          |
| SPEC.:P-W11011LED-X-8W3015-CI25031R90-OS600                                      | DIM.: | SERIAL No.:      |
| MFR.: CETTIGA                                                                    | SUR.: | Shielding Angle: |

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0   |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|-----|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0   |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |     |
| 0.0         | 1.19                  | 1.19 | 1.19 | 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         | 1.14                  | 1.12 | 1.10 | 1.11 | 1.10 | 1.09 | 1.07                            | 1.06 | 1.05 | 1.04 | 1.03 | 1.02 | 1.00 | .00  | .99  | .97 |
| 2.0         | 1.09                  | 1.06 | 1.04 | 1.07 | 1.05 | 1.03 | 1.04                            | 1.02 | 1.01 | 1.01 | .00  | .99  | .99  | .98  | .97  | .95 |
| 3.0         | 1.05                  | 1.02 | .99  | 1.04 | 1.01 | .99  | 1.01                            | .99  | .97  | .99  | .97  | .96  | .97  | .96  | .94  | .93 |
| 4.0         | 1.02                  | .98  | .96  | 1.01 | .98  | .95  | .99                             | .96  | .94  | .97  | .95  | .93  | .95  | .94  | .92  | .91 |
| 5.0         | .99                   | .96  | .93  | .98  | .95  | .92  | .97                             | .94  | .92  | .95  | .93  | .91  | .94  | .92  | .90  | .89 |
| 6.0         | .97                   | .93  | .90  | .96  | .93  | .90  | .95                             | .92  | .90  | .93  | .91  | .89  | .92  | .90  | .88  | .87 |
| 7.0         | .94                   | .91  | .88  | .94  | .90  | .88  | .93                             | .90  | .88  | .92  | .89  | .87  | .91  | .88  | .87  | .86 |
| 8.0         | .92                   | .89  | .86  | .92  | .88  | .86  | .91                             | .88  | .86  | .90  | .87  | .86  | .89  | .87  | .85  | .84 |
| 9.0         | .90                   | .87  | .85  | .90  | .87  | .84  | .89                             | .86  | .84  | .88  | .86  | .84  | .88  | .85  | .84  | .83 |
| 10.0        | .89                   | .85  | .83  | .88  | .85  | .83  | .88                             | .85  | .83  | .87  | .84  | .83  | .86  | .84  | .82  | .82 |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Xie Bi  
 Test Date:2022-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:6.810m [K=1.0000]  
 Remarks:

### WEC AND CCEC

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:231.33V I:0.0454A P:9.6226W PF:0.9158 Freq:49.37Hz Lamp Flux:731.087x1 lm |       |                  |
| NAME: W11011LED-X                                                                | TYPE: | WEIGHT:          |
| SPEC.:P-W11011LED-X-8W3015-CI25031R90-OS600                                      | DIM.: | SERIAL No.:      |
| MFR.: CETTIGA                                                                    | 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 Coeffcients(WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0  |                       |      |      |      |      |      |                                |      |      |      |      |      |      |      |      |   |  |
| 1.0  | .123                  | .070 | .022 | .117 | .066 | .021 | .104                           | .060 | .019 | .093 | .053 | .017 | .082 | .047 | .015 |   |  |
| 2.0  | .113                  | .062 | .019 | .107 | .059 | .018 | .097                           | .054 | .017 | .088 | .049 | .015 | .079 | .045 | .014 |   |  |
| 3.0  | .104                  | .055 | .017 | .099 | .053 | .016 | .091                           | .049 | .015 | .083 | .046 | .014 | .076 | .042 | .013 |   |  |
| 4.0  | .096                  | .050 | .015 | .093 | .048 | .014 | .086                           | .045 | .014 | .079 | .042 | .013 | .073 | .040 | .012 |   |  |
| 5.0  | .090                  | .046 | .013 | .087 | .045 | .013 | .081                           | .042 | .012 | .075 | .040 | .012 | .070 | .037 | .011 |   |  |
| 6.0  | .084                  | .042 | .012 | .082 | .041 | .012 | .077                           | .039 | .011 | .072 | .037 | .011 | .067 | .035 | .011 |   |  |
| 7.0  | .080                  | .039 | .011 | .077 | .038 | .011 | .073                           | .037 | .011 | .069 | .035 | .010 | .065 | .034 | .010 |   |  |
| 8.0  | .075                  | .037 | .010 | .073 | .036 | .010 | .069                           | .035 | .010 | .066 | .033 | .010 | .062 | .032 | .009 |   |  |
| 9.0  | .072                  | .035 | .010 | .070 | .034 | .010 | .066                           | .033 | .009 | .063 | .032 | .009 | .060 | .031 | .009 |   |  |
| 10.0 | .068                  | .033 | .009 | .067 | .032 | .009 | .064                           | .031 | .009 | .061 | .030 | .009 | .058 | .029 | .008 |   |  |

| 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  | .193                  | .193 | .193 | .165 | .165 | .165 | .113                                        | .113 | .113 | .065 | .065 | .065 | .021 | .021 | .021 |   |
| 1.0  | .170                  | .160 | .152 | .145 | .138 | .131 | .099                                        | .095 | .090 | .057 | .055 | .052 | .018 | .018 | .017 |   |
| 2.0  | .151                  | .135 | .122 | .129 | .116 | .106 | .089                                        | .081 | .074 | .051 | .047 | .043 | .016 | .015 | .014 |   |
| 3.0  | .135                  | .116 | .100 | .116 | .100 | .087 | .079                                        | .069 | .061 | .046 | .041 | .036 | .015 | .013 | .012 |   |
| 4.0  | .122                  | .100 | .084 | .104 | .087 | .073 | .072                                        | .060 | .051 | .042 | .035 | .030 | .013 | .012 | .010 |   |
| 5.0  | .111                  | .088 | .071 | .095 | .076 | .061 | .065                                        | .053 | .043 | .038 | .031 | .026 | .012 | .010 | .008 |   |
| 6.0  | .101                  | .077 | .060 | .087 | .067 | .053 | .060                                        | .047 | .037 | .035 | .028 | .022 | .011 | .009 | .007 |   |
| 7.0  | .093                  | .069 | .052 | .080 | .060 | .045 | .055                                        | .042 | .032 | .032 | .025 | .019 | .010 | .008 | .006 |   |
| 8.0  | .086                  | .062 | .045 | .074 | .054 | .040 | .051                                        | .038 | .028 | .030 | .022 | .017 | .010 | .007 | .006 |   |
| 9.0  | .080                  | .056 | .040 | .069 | .049 | .035 | .048                                        | .034 | .025 | .028 | .020 | .015 | .009 | .007 | .005 |   |
| 10.0 | .075                  | .051 | .035 | .065 | .044 | .031 | .045                                        | .031 | .022 | .026 | .018 | .013 | .008 | .006 | .004 |   |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Xie Bi  
Test Date:2022-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.810m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

|                                                                                  |               |                  |     |     |       |               |                |                  |     |     |     |
|----------------------------------------------------------------------------------|---------------|------------------|-----|-----|-------|---------------|----------------|------------------|-----|-----|-----|
| Test:U:231.33V I:0.0454A P:9.6226W PF:0.9158 Freq:49.37Hz Lamp Flux:731.087x1 lm |               |                  |     |     |       |               |                |                  |     |     |     |
| NAME: W11011LED-X                                                                |               |                  |     |     | TYPE: |               |                | WEIGHT:          |     |     |     |
| SPEC.:P-W11011LED-X-8W3015-CI25031R90-OS600                                      |               |                  |     |     | DIM.: |               |                | SERIAL No.:      |     |     |     |
| MFR.: CETTIGA                                                                    |               |                  |     |     | 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                                                                    | 2H            | 5.2              | 5.7 | 5.3 | 5.8   | 6.0           | 4.1            | 4.6              | 4.3 | 4.8 | 4.9 |
|                                                                                  | 3H            | 5.2              | 5.7 | 5.4 | 5.9   | 6.0           | 4.0            | 4.6              | 4.3 | 4.7 | 4.9 |
|                                                                                  | 4H            | 5.1              | 5.6 | 5.4 | 5.8   | 6.1           | 4.0            | 4.5              | 4.3 | 4.7 | 4.9 |
|                                                                                  | 6H            | 5.1              | 5.6 | 5.4 | 5.8   | 6.0           | 4.0            | 4.4              | 4.2 | 4.7 | 4.9 |
|                                                                                  | 8H            | 5.1              | 5.5 | 5.4 | 5.8   | 6.0           | 3.9            | 4.4              | 4.2 | 4.6 | 4.9 |
|                                                                                  | 12H           | 5.0              | 5.5 | 5.3 | 5.7   | 6.0           | 3.9            | 4.3              | 4.2 | 4.6 | 4.8 |
| 4H                                                                               | 2H            | 5.0              | 5.5 | 5.3 | 5.7   | 5.9           | 4.0            | 4.5              | 4.2 | 4.7 | 4.9 |
|                                                                                  | 3H            | 5.0              | 5.5 | 5.4 | 5.7   | 6.0           | 4.0            | 4.4              | 4.3 | 4.7 | 4.9 |
|                                                                                  | 4H            | 5.0              | 5.4 | 5.4 | 5.7   | 6.0           | 4.0            | 4.4              | 4.3 | 4.7 | 5.0 |
|                                                                                  | 6H            | 5.0              | 5.4 | 5.4 | 5.7   | 6.0           | 3.9            | 4.3              | 4.3 | 4.6 | 4.9 |
|                                                                                  | 8H            | 5.0              | 5.3 | 5.4 | 5.7   | 6.0           | 3.8            | 4.2              | 4.2 | 4.5 | 4.9 |
|                                                                                  | 12H           | 4.9              | 5.2 | 5.3 | 5.6   | 6.0           | 3.8            | 4.1              | 4.2 | 4.5 | 4.9 |
| 8H                                                                               | 4H            | 4.9              | 5.3 | 5.3 | 5.6   | 6.0           | 3.8            | 4.2              | 4.2 | 4.5 | 4.9 |
|                                                                                  | 6H            | 4.9              | 5.2 | 5.3 | 5.6   | 6.0           | 3.8            | 4.1              | 4.2 | 4.5 | 4.9 |
|                                                                                  | 8H            | 4.9              | 5.1 | 5.3 | 5.5   | 6.0           | 3.7            | 4.0              | 4.2 | 4.4 | 4.8 |
|                                                                                  | 12H           | 4.8              | 5.0 | 5.3 | 5.5   | 6.0           | 3.7            | 3.9              | 4.1 | 4.3 | 4.8 |
| 12H                                                                              | 4H            | 4.9              | 5.2 | 5.3 | 5.5   | 5.9           | 3.8            | 4.1              | 4.2 | 4.5 | 4.9 |
|                                                                                  | 6H            | 4.8              | 5.1 | 5.3 | 5.5   | 6.0           | 3.7            | 4.0              | 4.2 | 4.4 | 4.8 |
|                                                                                  | 8H            | 4.8              | 5.0 | 5.3 | 5.5   | 5.9           | 3.7            | 3.9              | 4.1 | 4.3 | 4.8 |
| Variations with the observer position at spacings:                               |               |                  |     |     |       |               |                |                  |     |     |     |
| S = 1.0H                                                                         | + 2.7 / - 3.8 |                  |     |     |       | + 2.3 / - 4.4 |                |                  |     |     |     |
| 1.5H                                                                             | + 4.3 / - 3.2 |                  |     |     |       | + 3.8 / - 3.1 |                |                  |     |     |     |
| 2.0H                                                                             | + 3.8 / - 3.1 |                  |     |     |       | + 3.1 / - 3.0 |                |                  |     |     |     |

CIE Pub.117, 731.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.1)  
Area: 0.005 m2

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Xie Bi  
Test Date:2022-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.810m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:231.33V I:0.0454A P:9.6226W PF:0.9158 Freq:49.37Hz Lamp Flux:731.087x1 lm |       |                  |
| NAME: W11011LED-X                                                                | TYPE: | WEIGHT:          |
| SPEC.:P-W11011LED-X-8W3015-CI25031R90-OS600                                      | DIM.: | SERIAL No.:      |
| MFR.: CETTIGA                                                                    | SUR.: | Shielding Angle: |

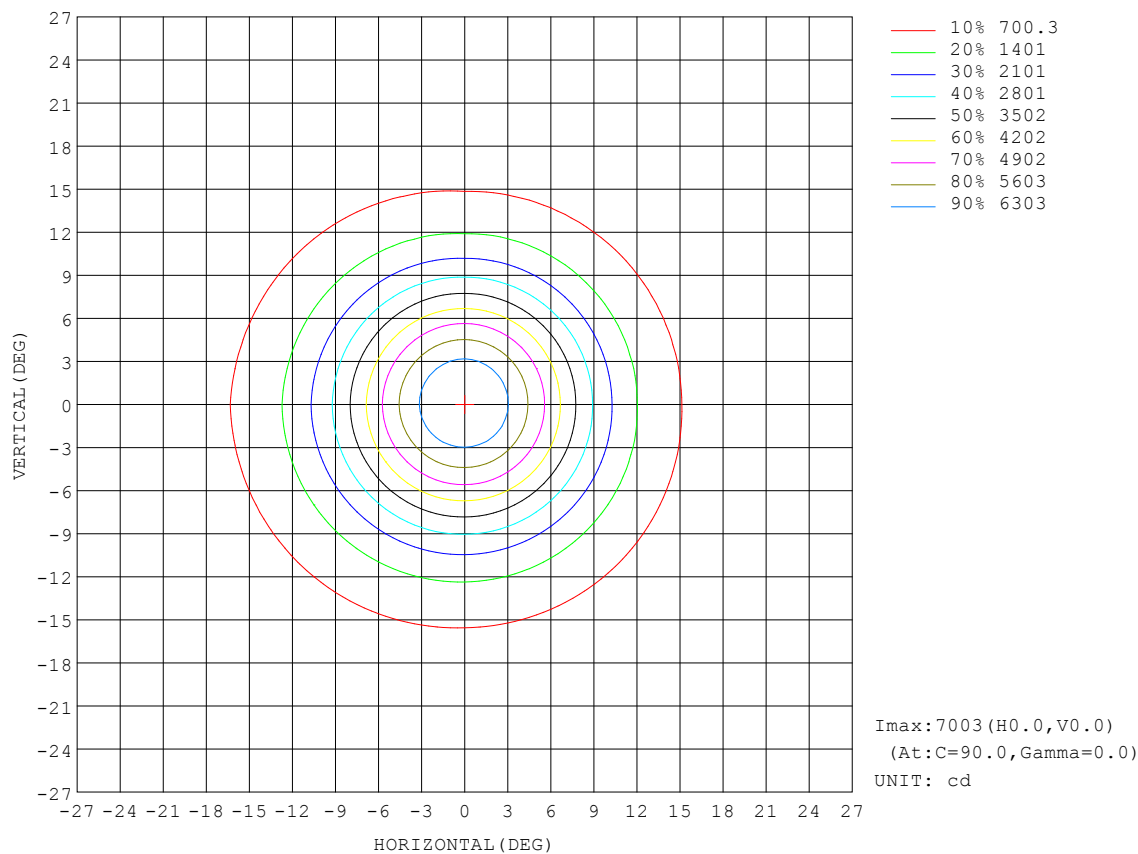
| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 91                                                   | 85  | 81        | 90  | 85  | 81  | 89  | 84            | 81  | 78     |
| 0.80                             | 98                                                   | 92  | 89        | 97  | 92  | 89  | 96  | 91            | 88  | 85     |
| 1.00                             | 101                                                  | 96  | 93        | 101 | 96  | 93  | 99  | 96            | 92  | 89     |
| 1.25                             | 105                                                  | 100 | 97        | 104 | 100 | 97  | 102 | 98            | 96  | 92     |
| 1.50                             | 107                                                  | 103 | 100       | 106 | 102 | 100 | 104 | 101           | 98  | 94     |
| 2.00                             | 110                                                  | 106 | 103       | 108 | 105 | 102 | 105 | 103           | 101 | 96     |
| 2.50                             | 111                                                  | 108 | 105       | 109 | 106 | 104 | 106 | 104           | 102 | 96     |
| 3.00                             | 112                                                  | 109 | 107       | 111 | 108 | 106 | 107 | 105           | 104 | 97     |
| 4.00                             | 114                                                  | 112 | 110       | 112 | 110 | 108 | 109 | 107           | 106 | 99     |
| 5.00                             | 116                                                  | 114 | 112       | 113 | 112 | 110 | 109 | 108           | 107 | 100    |
| ROOM INDEX                       | UF (total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                      |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Xie Bi  
Test Date:2022-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.810m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:231.33V I:0.0454A P:9.6226W PF:0.9158 Freq:49.37Hz Lamp Flux:731.087x1 lm |       |                  |
| NAME: W11011LED-X                                                                | TYPE: | WEIGHT:          |
| SPEC.:P-W11011LED-X-8W3015-CI25031R90-OS600                                      | DIM.: | SERIAL No.:      |
| MFR.: CETTIGA                                                                    | SUR.: | Shielding Angle: |



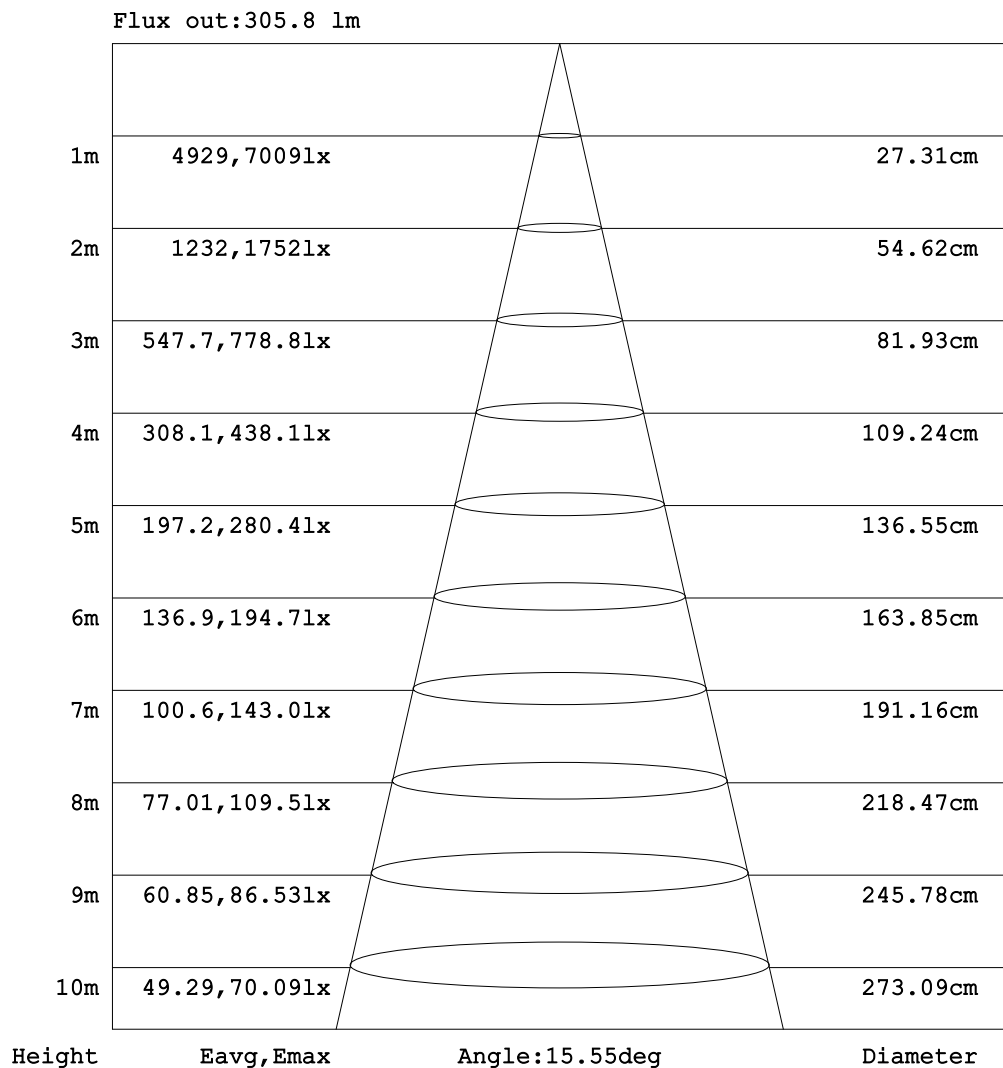
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Xie Bi  
Test Date:2022-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.810m [K=1.0000]  
Remarks:



### AAI Figure

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:231.33V I:0.0454A P:9.6226W PF:0.9158 Freq:49.37Hz Lamp Flux:731.087x1 lm |       |                  |
| NAME: W11011LED-X                                                                | TYPE: | WEIGHT:          |
| SPEC.:P-W11011LED-X-8W3015-CI25031R90-OS600                                      | DIM.: | SERIAL No.:      |
| MFR.: CETTIGA                                                                    | SUR.: | Shielding Angle: |



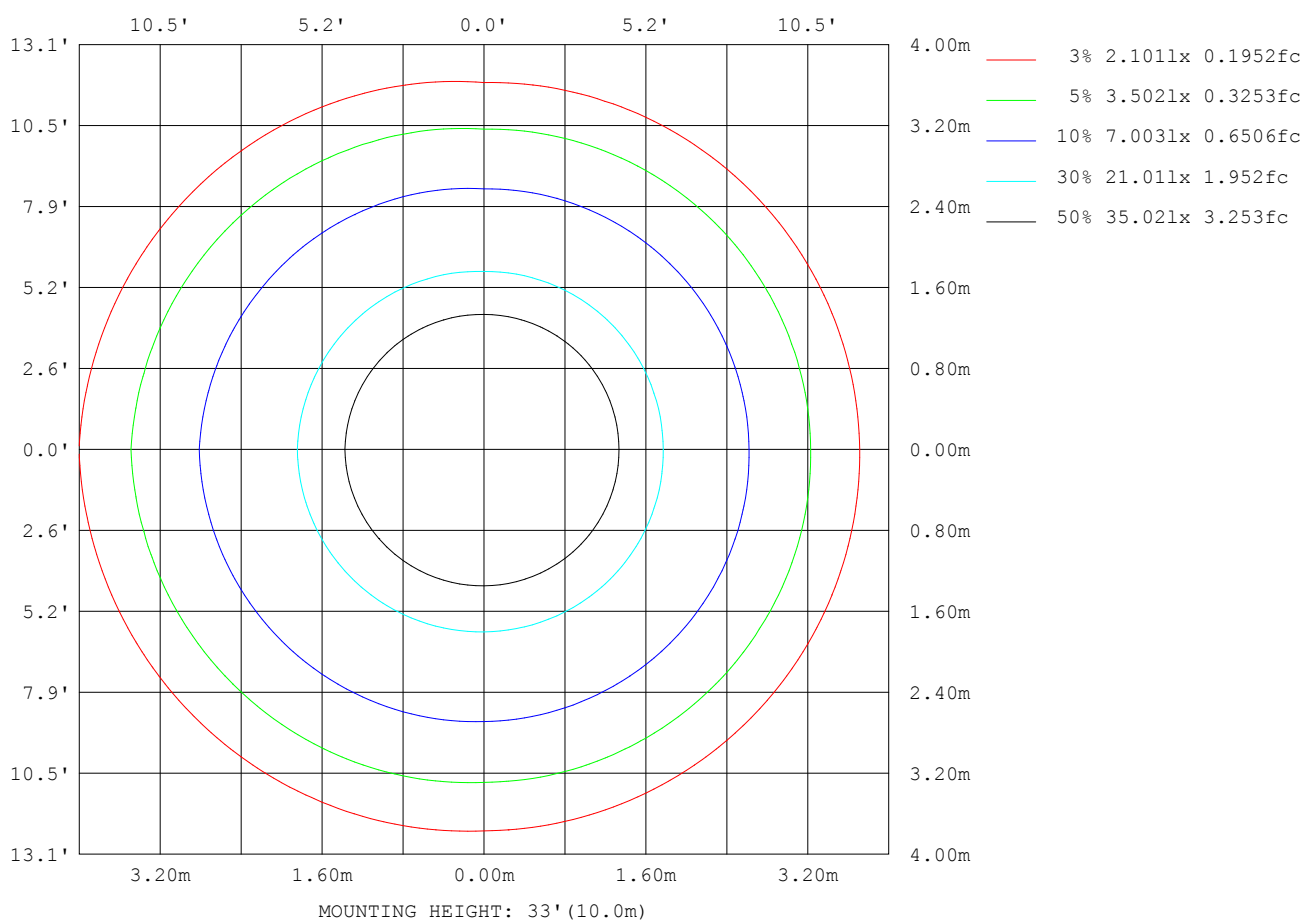
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Xie Bi  
 Test Date:2022-11-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:6.810m [K=1.0000]  
 Remarks:

# ISOLUX DIAGRAM

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:231.33V I:0.0454A P:9.6226W PF:0.9158 Freq:49.37Hz Lamp Flux:731.087x1 lm |       |                  |
| NAME: W11011LED-X                                                                | TYPE: | WEIGHT:          |
| SPEC.:P-W11011LED-X-8W3015-CI25031R90-OS600                                      | DIM.: | SERIAL No.:      |
| MFR.: CETTIGA                                                                    | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Xie Bi  
Test Date:2022-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.810m [K=1.0000]  
Remarks:

## LED Avg.L Report

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:231.33V I:0.0454A P:9.6226W PF:0.9158 Freq:49.37Hz Lamp Flux:731.087x1 lm |       |                  |
| NAME: W11011LED-X                                                                | TYPE: | WEIGHT:          |
| SPEC.:P-W11011LED-X-8W3015-CI25031R90-OS600                                      | DIM.: | SERIAL No.:      |
| MFR.: CETTIGA                                                                    | SUR.: | Shielding Angle: |

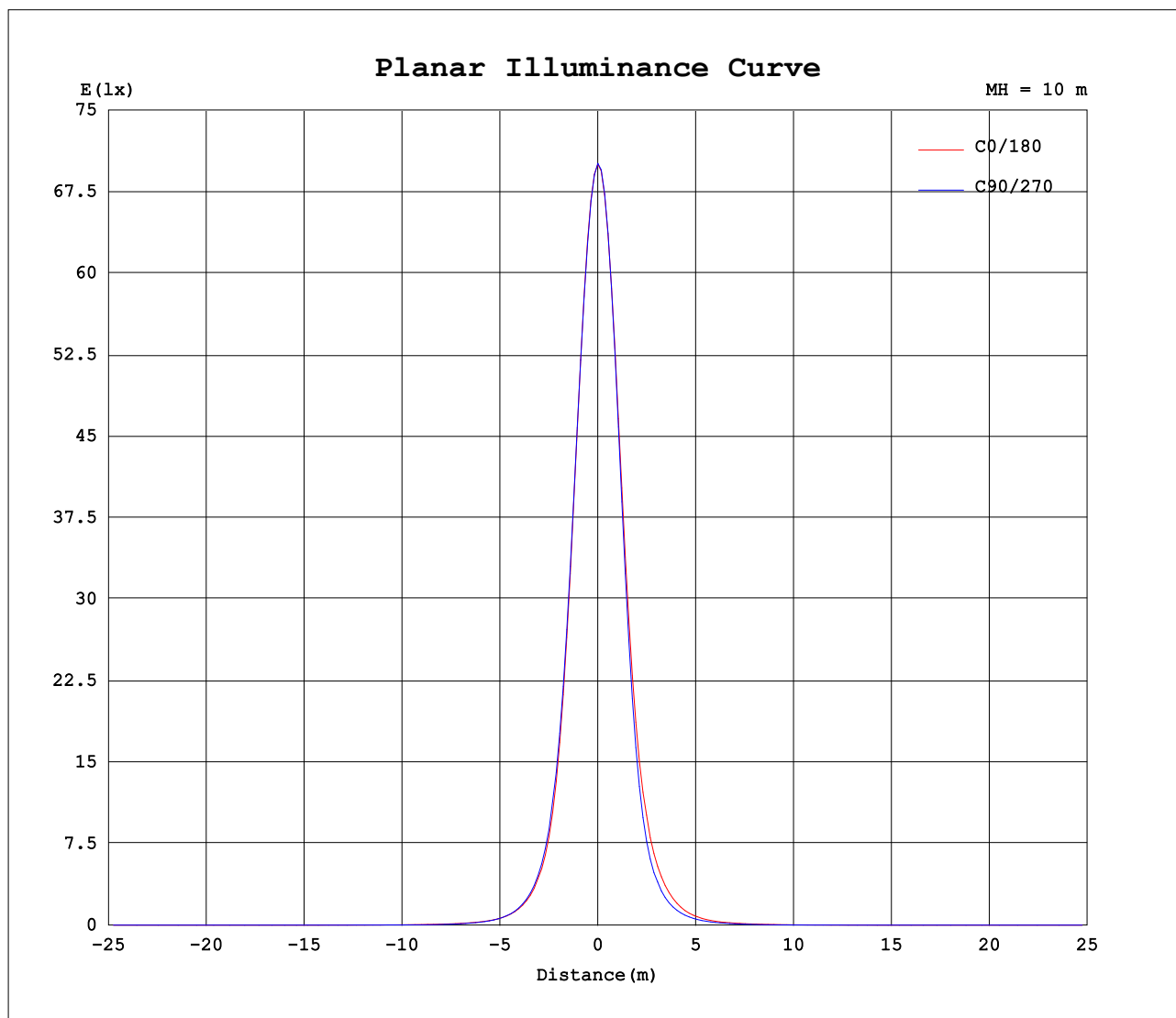
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 517   |
| L_0~180 (75) av  | 344   |
| L_0~180 (85) av  | 124   |
| L_90~270 (65) av | 365   |
| L_90~270 (75) av | 236   |
| L_90~270 (85) av | 18    |
| L_45 (65) av     | 422   |
| L_45 (75) av     | 276   |
| L_45 (85) av     | 54    |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Xie Bi  
 Test Date:2022-11-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:6.810m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Xie Bi  
Test Date: 2022-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 6.810m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:231.33V I:0.0454A P:9.6226W PF:0.9158 Freq:49.37Hz Lamp Flux:731.087x1 lm |       |                  |
| NAME: W11011LED-X                                                                | TYPE: | WEIGHT:          |
| SPEC.:P-W11011LED-X-8W3015-CI25031R90-OS600                                      | DIM.: | SERIAL No.:      |
| MFR.: CETTIGA                                                                    | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                  | 7003 | 7009 | 7003 | 7009 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 5262 | 5258 | 5368 | 5329 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 2219 | 2301 | 2403 | 2182 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 718  | 783  | 894  | 674  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 272  | 289  | 362  | 248  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 113  | 117  | 149  | 102  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 54.9 | 50.4 | 66.4 | 45.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 29.4 | 23.8 | 33.5 | 22.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 16.4 | 10.3 | 17.9 | 9.80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 8.30 | 5.41 | 8.64 | 4.93 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 4.86 | 3.22 | 4.75 | 3.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 3.21 | 1.91 | 3.15 | 1.85 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                 | 1.96 | 1.14 | 2.02 | 1.10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 1.11 | 0.77 | 1.07 | 0.77 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 0.71 | 0.51 | 0.68 | 0.52 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                 | 0.46 | 0.29 | 0.43 | 0.32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                 | 0.24 | 0.12 | 0.18 | 0.15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                 | 0.08 | 0.00 | 0.03 | 0.02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110                | 0.00 | 0.00 | 0.02 | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115                | 0.00 | 0.00 | 0.02 | 0.01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120                | 0.00 | 0.00 | 0.03 | 0.02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125                | 0.01 | 0.00 | 0.03 | 0.03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130                | 0.03 | 0.01 | 0.05 | 0.04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135                | 0.07 | 0.05 | 0.06 | 0.07 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140                | 0.19 | 0.14 | 0.09 | 0.12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145                | 0.46 | 0.35 | 0.17 | 0.21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150                | 1.09 | 0.91 | 0.38 | 0.40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155                | 2.32 | 2.15 | 0.95 | 1.02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160                | 3.78 | 3.68 | 2.05 | 2.16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165                | 4.49 | 4.53 | 3.22 | 3.32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170                | 4.07 | 4.18 | 3.58 | 3.66 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175                | 3.21 | 3.28 | 3.16 | 3.19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180                | 2.88 | 2.92 | 2.88 | 2.92 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Xie Bi  
Test Date:2022-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.810m [K=1.0000]  
Remarks: