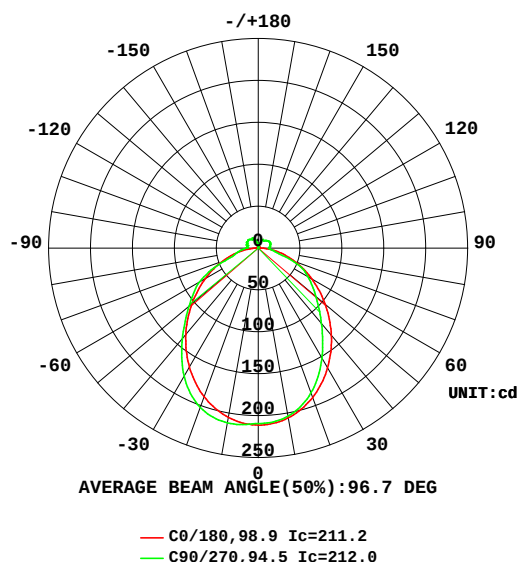


## LUMINAIRE PHOTOMETRIC TEST REPORT

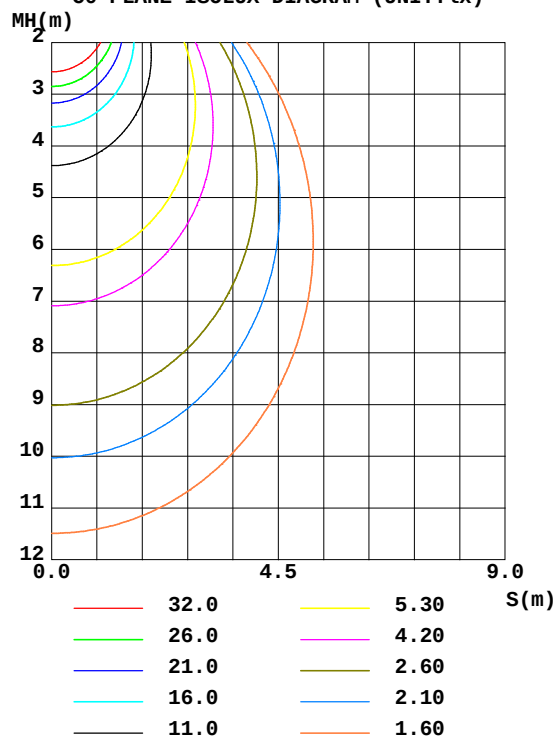
|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.17V I:0.1287A P:14.069W PF:0.4964 Freq:50.00Hz<br>Lamp Flux:593.938x1 lm |       |                  |
| NAME: CL-1100-1-LED-NE                                                              | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.:                                                                               | SUR.: | Shielding Angle: |

| DATA OF LAMP     |         | PHOTOMETRIC DATA      |        |                    |           | Eff: 42.22 lm/W |
|------------------|---------|-----------------------|--------|--------------------|-----------|-----------------|
| MODEL            |         | I <sub>max</sub> (cd) | 212.0  | S/MH(C0/180)       | 1.17      |                 |
| NOMINAL POWER(W) | --      | LOR(%)                | 100.0  | S/MH(C90/270)      | 1.24      |                 |
| RATED VOLTAGE(V) | --      | TOTAL FLUX(lm)        | 593.94 | η UP, DN(C0-180)   | 4.3, 43.5 |                 |
| NOMINAL FLUX(lm) | 593.938 | CIE CLASS             | DIRECT | η UP, DN(C180-360) | 4.6, 47.6 |                 |
| LAMPS INSIDE     | 1       | η up(%)               | 8.9    | CIBSE SHR NOM      | 1.25      |                 |
| TEST VOLTAGE(V)  | --      | η down(%)             | 91.1   | CIBSE SHR MAX      | 1.35      |                 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: 10.0deg/s  
Temperature: 25.3°C  
Operators: XIAOXIN  
Test Date: 2024-06-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-3000H\_V1 SYSTEM V2.00.463  
Humidity: 65.0%  
Test Distance: 9.000m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

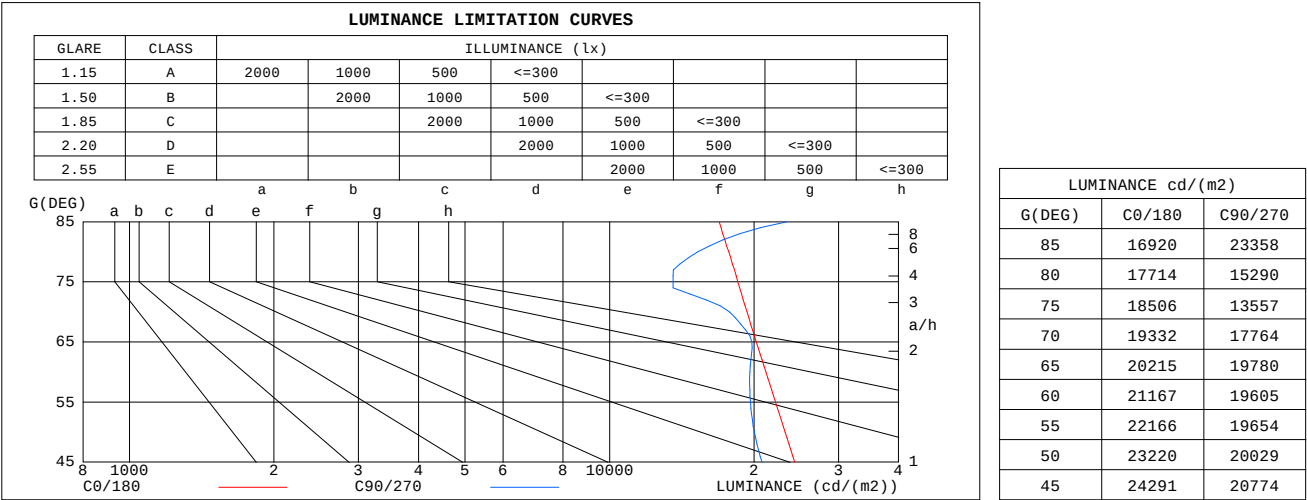
| γ   | C0                    | C45   | C90   | C135  | C180   | C225  | C270  | C315  | γ       | φ zone   | φ total | %lum, lamp |
|-----|-----------------------|-------|-------|-------|--------|-------|-------|-------|---------|----------|---------|------------|
| 10  | 205.8                 | 205.1 | 203.7 | 203.0 | 205.3  | 209.4 | 211.8 | 209.5 | 0- 10   | 19.90    | 19.90   | 3.35, 3.35 |
| 20  | 189.7                 | 188.4 | 184.0 | 185.8 | 188.8  | 198.6 | 202.3 | 199.4 | 10- 20  | 56.58    | 76.48   | 12.9, 12.9 |
| 30  | 165.4                 | 161.7 | 152.1 | 158.9 | 164.1  | 176.7 | 176.8 | 177.6 | 20- 30  | 83.08    | 159.6   | 26.9, 26.9 |
| 40  | 135.9                 | 129.9 | 117.5 | 127.4 | 134.6  | 146.3 | 141.1 | 147.4 | 30- 40  | 94.61    | 254.2   | 42.8, 42.8 |
| 50  | 104.5                 | 99.20 | 90.12 | 97.10 | 103.3  | 113.7 | 107.9 | 114.8 | 40- 50  | 92.18    | 346.4   | 58.3, 58.3 |
| 60  | 74.09                 | 73.06 | 68.62 | 71.26 | 73.13  | 84.18 | 80.90 | 85.52 | 50- 60  | 80.78    | 427.1   | 71.9, 71.9 |
| 70  | 46.28                 | 51.23 | 42.53 | 49.63 | 44.34  | 54.63 | 38.80 | 58.55 | 60- 70  | 62.62    | 489.8   | 82.5, 82.5 |
| 80  | 21.53                 | 17.92 | 18.59 | 16.94 | 20.28  | 21.02 | 23.43 | 21.33 | 70- 80  | 35.58    | 525.3   | 88.4, 88.4 |
| 90  | 1.114                 | 10.36 | 12.72 | 10.35 | 0.9648 | 11.51 | 14.23 | 11.80 | 80- 90  | 15.65    | 541.0   | 91.1, 91.1 |
| 100 | 0.8177                | 11.13 | 14.18 | 10.86 | 1.124  | 11.63 | 13.95 | 11.24 | 90-100  | 10.13    | 551.1   | 92.8, 92.8 |
| 110 | 0.9845                | 11.54 | 15.29 | 11.47 | 1.396  | 12.31 | 14.56 | 11.96 | 100-110 | 9.693    | 560.8   | 94.4, 94.4 |
| 120 | 1.141                 | 10.94 | 15.31 | 10.78 | 1.576  | 12.07 | 15.41 | 11.64 | 110-120 | 9.395    | 570.2   | 96, 96     |
| 130 | 1.277                 | 8.008 | 14.02 | 7.538 | 1.680  | 8.416 | 15.64 | 9.181 | 120-130 | 8.050    | 578.3   | 97.4, 97.4 |
| 140 | 1.253                 | 9.218 | 11.74 | 8.514 | 1.533  | 10.15 | 13.84 | 9.075 | 130-140 | 6.381    | 584.6   | 98.4, 98.4 |
| 150 | 1.268                 | 7.164 | 12.07 | 6.078 | 1.489  | 9.018 | 14.47 | 8.479 | 140-150 | 4.920    | 589.6   | 99.3, 99.3 |
| 160 | 1.296                 | 5.091 | 7.498 | 3.555 | 1.426  | 5.092 | 10.21 | 6.681 | 150-160 | 3.016    | 592.6   | 99.8, 99.8 |
| 170 | 1.422                 | 2.664 | 3.144 | 1.802 | 1.567  | 2.956 | 5.809 | 4.106 | 160-170 | 1.159    | 593.7   | 100, 100   |
| 180 | 1.532                 | 1.561 | 1.238 | 1.453 | 1.533  | 1.565 | 1.241 | 1.458 | 170-180 | 0.2085   | 593.9   | 100, 100   |
| DEG | LUMINOUS INTENSITY:cd |       |       |       |        |       |       |       |         | UNIT: lm |         |            |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature: 25.3℃  
 Operators: XIAOXIN  
 Test Date: 2024-06-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE G0-3000H\_V1 SYSTEM V2.00.463  
 Humidity: 65.0%  
 Test Distance: 9.000m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.17V I:0.1287A P:14.069W PF:0.4964 Freq:50.00Hz<br>Lamp Flux:593.938x1 lm |       |                  |
| NAME: CL-1100-1-LED-NE                                                              | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.:                                                                               | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: 10.0deg/s  
Temperature:25.3℃  
Operators:XIAOXIN  
Test Date:2024-06-04

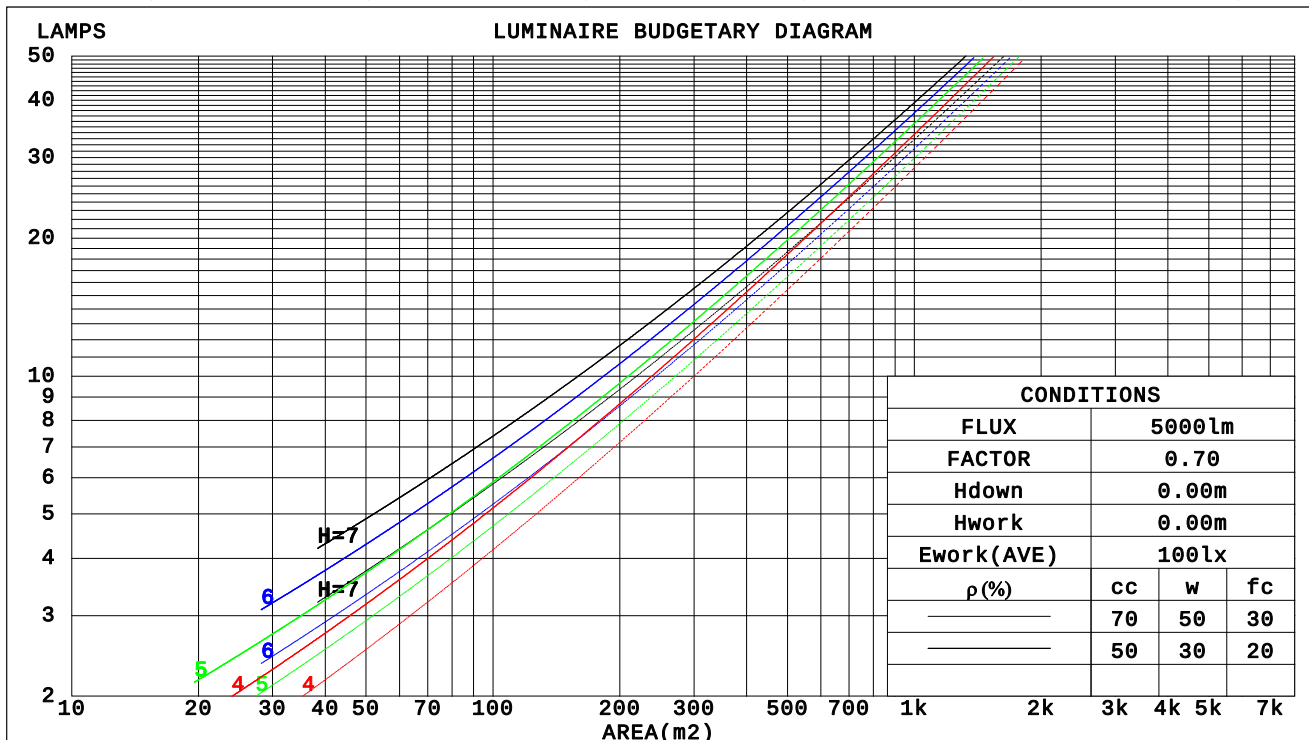
γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-3000H\_V1 SYSTEM V2.00.463  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.17V I:0.1287A P:14.069W PF:0.4964 Freq:50.00Hz  
Lamp Flux:593.938x1 lm

|                        |       |                  |
|------------------------|-------|------------------|
| NAME: CL-1100-1-LED-NE | TYPE: | WEIGHT:          |
| SPEC.:                 | DIM.: | SERIAL No.:      |
| MFR.:                  | 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         | 1.17                                                                       | 1.17 | 1.17 | 1.13 | 1.13 | 1.13 | 1.06 | 1.06 | 1.06 | .00 | .00 | .00 | .94 | .94 | .94 | .91 |
| 1.0         | 1.02                                                                       | .98  | .94  | .99  | .95  | .91  | .93  | .90  | .87  | .87 | .85 | .83 | .82 | .80 | .79 | .76 |
| 2.0         | .89                                                                        | .82  | .77  | .86  | .80  | .75  | .81  | .76  | .72  | .77 | .73 | .69 | .73 | .69 | .66 | .64 |
| 3.0         | .78                                                                        | .70  | .64  | .76  | .69  | .63  | .72  | .66  | .61  | .68 | .63 | .58 | .64 | .60 | .56 | .54 |
| 4.0         | .70                                                                        | .61  | .54  | .68  | .60  | .54  | .64  | .57  | .52  | .61 | .55 | .50 | .58 | .53 | .49 | .46 |
| 5.0         | .62                                                                        | .54  | .47  | .61  | .52  | .46  | .58  | .50  | .45  | .55 | .49 | .44 | .52 | .47 | .43 | .40 |
| 6.0         | .56                                                                        | .47  | .41  | .55  | .47  | .41  | .52  | .45  | .40  | .50 | .43 | .39 | .47 | .42 | .38 | .35 |
| 7.0         | .51                                                                        | .42  | .36  | .50  | .42  | .36  | .47  | .40  | .35  | .45 | .39 | .34 | .43 | .38 | .33 | .31 |
| 8.0         | .47                                                                        | .38  | .33  | .46  | .38  | .32  | .44  | .37  | .32  | .42 | .35 | .31 | .40 | .34 | .30 | .28 |
| 9.0         | .43                                                                        | .35  | .29  | .42  | .34  | .29  | .40  | .33  | .28  | .38 | .32 | .28 | .37 | .31 | .27 | .25 |
| 10.0        | .40                                                                        | .32  | .27  | .39  | .31  | .26  | .37  | .30  | .26  | .36 | .30 | .25 | .34 | .29 | .25 | .23 |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: 10.0deg/s  
Temperature:25.3℃  
Operators:XIAOXIN  
Test Date:2024-06-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE G0-3000H\_V1 SYSTEM V2.00.463  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks:

## WEC AND CCEC

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.17V I:0.1287A P:14.069W PF:0.4964 Freq:50.00Hz<br>Lamp Flux:593.938x1 lm |       |                  |
| NAME: CL-1100-1-LED-NE                                                              | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.:                                                                               | 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 |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0         |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0         | .308                  | .175 | .056 | .298 | .170 | .054 | .280                            | .161 | .051 | .263 | .152 | .049 | .248 | .144 | .046 |   |
| 2.0         | .285                  | .156 | .048 | .277 | .152 | .047 | .260                            | .145 | .045 | .245 | .138 | .043 | .231 | .131 | .041 |   |
| 3.0         | .263                  | .140 | .042 | .255 | .137 | .041 | .240                            | .130 | .040 | .227 | .124 | .038 | .214 | .119 | .037 |   |
| 4.0         | .242                  | .126 | .037 | .235 | .123 | .036 | .222                            | .118 | .035 | .210 | .113 | .034 | .198 | .108 | .033 |   |
| 5.0         | .224                  | .114 | .033 | .217 | .112 | .033 | .206                            | .107 | .032 | .194 | .103 | .031 | .184 | .098 | .030 |   |
| 6.0         | .207                  | .104 | .030 | .202 | .102 | .029 | .191                            | .098 | .028 | .181 | .094 | .028 | .172 | .090 | .027 |   |
| 7.0         | .193                  | .096 | .027 | .188 | .094 | .027 | .178                            | .090 | .026 | .169 | .087 | .025 | .161 | .083 | .025 |   |
| 8.0         | .181                  | .088 | .025 | .176 | .087 | .024 | .167                            | .083 | .024 | .159 | .080 | .023 | .151 | .077 | .023 |   |
| 9.0         | .169                  | .082 | .023 | .165 | .080 | .023 | .157                            | .078 | .022 | .149 | .075 | .021 | .142 | .072 | .021 |   |
| 10.0        | .159                  | .076 | .021 | .155 | .075 | .021 | .148                            | .072 | .020 | .141 | .070 | .020 | .134 | .068 | .019 |   |

| $\rho_{cc}$ | 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 |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0         | .258                  | .258 | .258 | .221 | .221 | .221 | .151                                       | .151 | .151 | .087 | .087 | .087 | .028 | .028 | .028 |   |  |
| 1.0         | .249                  | .225 | .203 | .213 | .193 | .175 | .146                                       | .133 | .121 | .084 | .077 | .070 | .027 | .025 | .023 |   |  |
| 2.0         | .240                  | .201 | .168 | .206 | .173 | .145 | .141                                       | .120 | .101 | .081 | .070 | .059 | .026 | .023 | .019 |   |  |
| 3.0         | .232                  | .184 | .145 | .199 | .158 | .125 | .137                                       | .110 | .088 | .079 | .064 | .052 | .025 | .021 | .017 |   |  |
| 4.0         | .225                  | .170 | .129 | .193 | .147 | .112 | .133                                       | .103 | .079 | .077 | .060 | .047 | .025 | .020 | .015 |   |  |
| 5.0         | .217                  | .160 | .118 | .187 | .139 | .103 | .129                                       | .097 | .073 | .074 | .057 | .043 | .024 | .019 | .014 |   |  |
| 6.0         | .210                  | .152 | .110 | .181 | .132 | .096 | .125                                       | .092 | .068 | .072 | .054 | .040 | .023 | .018 | .013 |   |  |
| 7.0         | .204                  | .145 | .104 | .175 | .126 | .091 | .121                                       | .088 | .064 | .070 | .052 | .038 | .023 | .017 | .013 |   |  |
| 8.0         | .197                  | .139 | .100 | .170 | .121 | .087 | .117                                       | .085 | .062 | .068 | .050 | .037 | .022 | .016 | .012 |   |  |
| 9.0         | .191                  | .135 | .096 | .165 | .117 | .084 | .114                                       | .082 | .060 | .067 | .048 | .036 | .022 | .016 | .012 |   |  |
| 10.0        | .186                  | .130 | .094 | .160 | .113 | .082 | .111                                       | .080 | .058 | .065 | .047 | .035 | .021 | .015 | .011 |   |  |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: 10.0deg/s  
Temperature:25.3℃  
Operators:XIAOXIN  
Test Date:2024-06-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE G0-3000H\_V1 SYSTEM V2.00.463  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

|                                                                                     |                  |      |      |      |       |                |      |                  |      |      |
|-------------------------------------------------------------------------------------|------------------|------|------|------|-------|----------------|------|------------------|------|------|
| Test:U:220.17V I:0.1287A P:14.069W PF:0.4964 Freq:50.00Hz<br>Lamp Flux:593.938x1 lm |                  |      |      |      |       |                |      |                  |      |      |
| NAME: CL-1100-1-LED-NE                                                              |                  |      |      |      | 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                                                                       | 22.9             | 24.3 | 23.3 | 24.6 | 25.0  | 22.4           | 23.7 | 22.7             | 24.1 | 24.5 |
| 3H                                                                                  | 24.4             | 25.7 | 24.9 | 26.1 | 26.5  | 23.9           | 25.2 | 24.3             | 25.6 | 26.0 |
| 4H                                                                                  | 25.1             | 26.3 | 25.5 | 26.7 | 27.1  | 24.3           | 25.5 | 24.8             | 25.9 | 26.3 |
| 6H                                                                                  | 25.6             | 26.7 | 26.0 | 27.1 | 27.6  | 24.7           | 25.8 | 25.1             | 26.2 | 26.7 |
| 8H                                                                                  | 25.8             | 26.8 | 26.2 | 27.3 | 27.8  | 24.9           | 25.9 | 25.3             | 26.4 | 26.9 |
| 12H                                                                                 | 25.9             | 26.9 | 26.4 | 27.4 | 27.8  | 25.1           | 26.2 | 25.6             | 26.6 | 27.1 |
| 4H 2H                                                                               | 23.5             | 24.7 | 23.9 | 25.1 | 25.5  | 23.1           | 24.3 | 23.5             | 24.7 | 25.1 |
| 3H                                                                                  | 25.2             | 26.3 | 25.7 | 26.7 | 27.2  | 24.8           | 25.8 | 25.3             | 26.3 | 26.8 |
| 4H                                                                                  | 26.1             | 27.0 | 26.6 | 27.5 | 28.0  | 25.3           | 26.2 | 25.8             | 26.7 | 27.2 |
| 6H                                                                                  | 26.8             | 27.6 | 27.3 | 28.1 | 28.7  | 25.7           | 26.6 | 26.2             | 27.1 | 27.6 |
| 8H                                                                                  | 27.0             | 27.8 | 27.6 | 28.3 | 28.9  | 26.0           | 26.8 | 26.5             | 27.3 | 27.9 |
| 12H                                                                                 | 27.2             | 27.9 | 27.7 | 28.4 | 29.0  | 26.3           | 27.1 | 26.9             | 27.6 | 28.2 |
| 8H 4H                                                                               | 26.3             | 27.1 | 26.8 | 27.6 | 28.2  | 25.6           | 26.4 | 26.1             | 26.9 | 27.5 |
| 6H                                                                                  | 27.2             | 27.9 | 27.8 | 28.4 | 29.0  | 26.2           | 26.8 | 26.8             | 27.4 | 28.0 |
| 8H                                                                                  | 27.6             | 28.1 | 28.2 | 28.7 | 29.4  | 26.6           | 27.2 | 27.2             | 27.7 | 28.4 |
| 12H                                                                                 | 27.8             | 28.3 | 28.4 | 28.9 | 29.5  | 27.1           | 27.6 | 27.7             | 28.2 | 28.8 |
| 12H 4H                                                                              | 26.3             | 27.0 | 26.8 | 27.5 | 28.1  | 25.6           | 26.3 | 26.2             | 26.9 | 27.5 |
| 6H                                                                                  | 27.2             | 27.8 | 27.8 | 28.4 | 29.0  | 26.3           | 26.8 | 26.9             | 27.4 | 28.1 |
| 8H                                                                                  | 27.7             | 28.1 | 28.3 | 28.7 | 29.4  | 26.7           | 27.2 | 27.3             | 27.8 | 28.5 |
| Variations with the observer position at spacings(CIE Pub.117):                     |                  |      |      |      |       |                |      |                  |      |      |
| S = 1.0H                                                                            | + 0.1 / - 0.2    |      |      |      |       | + 0.2 / - 0.2  |      |                  |      |      |
| 1.5H                                                                                | + 0.2 / - 0.3    |      |      |      |       | + 0.2 / - 0.3  |      |                  |      |      |
| 2.0H                                                                                | + 0.2 / - 0.3    |      |      |      |       | + 0.1 / - 0.3  |      |                  |      |      |

CIE Pub.117, 593.9 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.8)  
Area: 0.007 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: 10.0deg/s  
Temperature:25.3℃  
Operators:XIAOXIN  
Test Date:2024-06-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-3000H\_V1 SYSTEM V2.00.463  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.17V I:0.1287A P:14.069W PF:0.4964 Freq:50.00Hz<br>Lamp Flux:593.938x1 lm |       |                  |
| NAME: CL-1100-1-LED-NE                                                              | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.:                                                                               | SUR.: | Shielding Angle: |

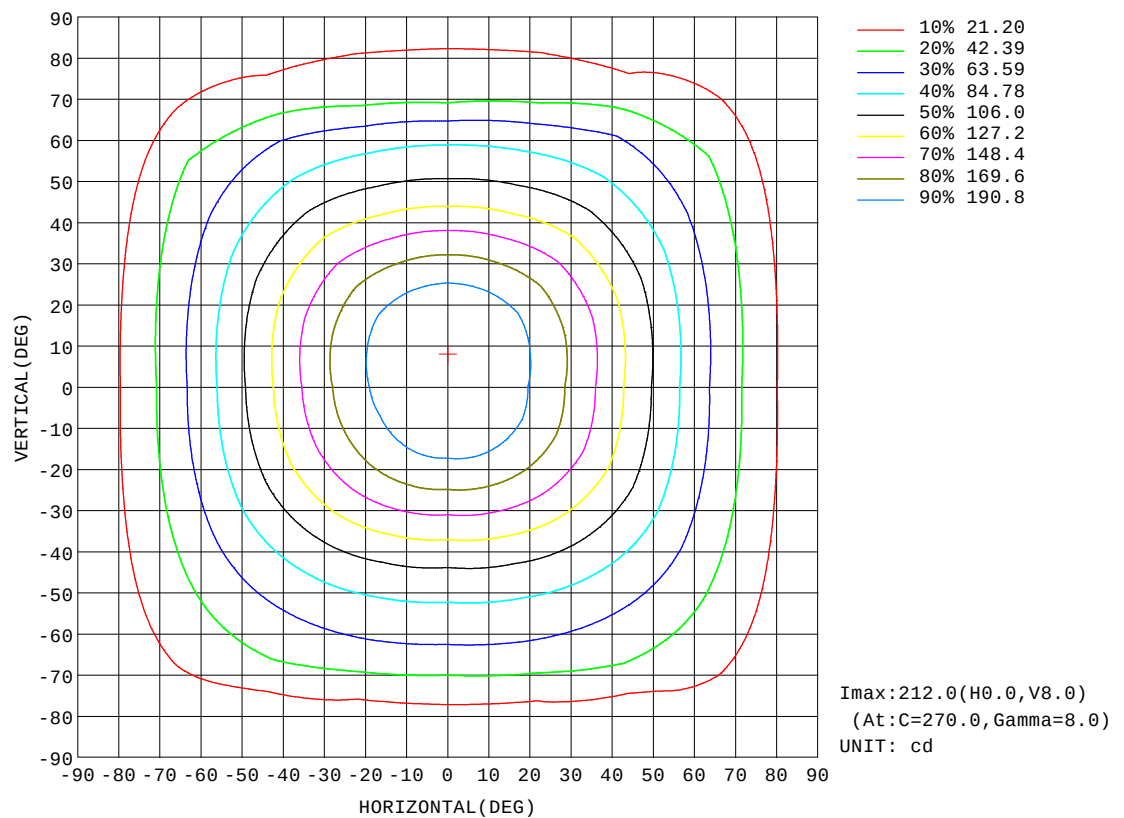
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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                         | 56                                                  | 45  | 38        | 55  | 45  | 38  | 54  | 44            | 38  | 31     |
| 0.80                             | 66                                                  | 54  | 47        | 65  | 54  | 47  | 62  | 53            | 46  | 39     |
| 1.00                             | 74                                                  | 63  | 56        | 72  | 62  | 55  | 69  | 63            | 54  | 47     |
| 1.25                             | 81                                                  | 70  | 63        | 79  | 69  | 62  | 75  | 67            | 61  | 53     |
| 1.50                             | 86                                                  | 76  | 69        | 84  | 74  | 68  | 80  | 72            | 66  | 57     |
| 2.00                             | 92                                                  | 84  | 77        | 90  | 82  | 76  | 85  | 79            | 73  | 64     |
| 2.50                             | 96                                                  | 88  | 82        | 94  | 86  | 81  | 89  | 83            | 78  | 68     |
| 3.00                             | 100                                                 | 92  | 87        | 97  | 90  | 85  | 91  | 86            | 82  | 71     |
| 4.00                             | 104                                                 | 98  | 93        | 100 | 95  | 91  | 95  | 91            | 87  | 76     |
| 5.00                             | 106                                                 | 101 | 97        | 103 | 98  | 94  | 97  | 93            | 90  | 78     |
| 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: 10.0deg/s  
 Temperature:25.3℃  
 Operators:XIAOXIN  
 Test Date:2024-06-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE G0-3000H\_V1 SYSTEM V2.00.463  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.17V I:0.1287A P:14.069W PF:0.4964 Freq:50.00Hz<br>Lamp Flux:593.938x1 lm |       |                  |
| NAME: CL-1100-1-LED-NE                                                              | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.:                                                                               | SUR.: | Shielding Angle: |



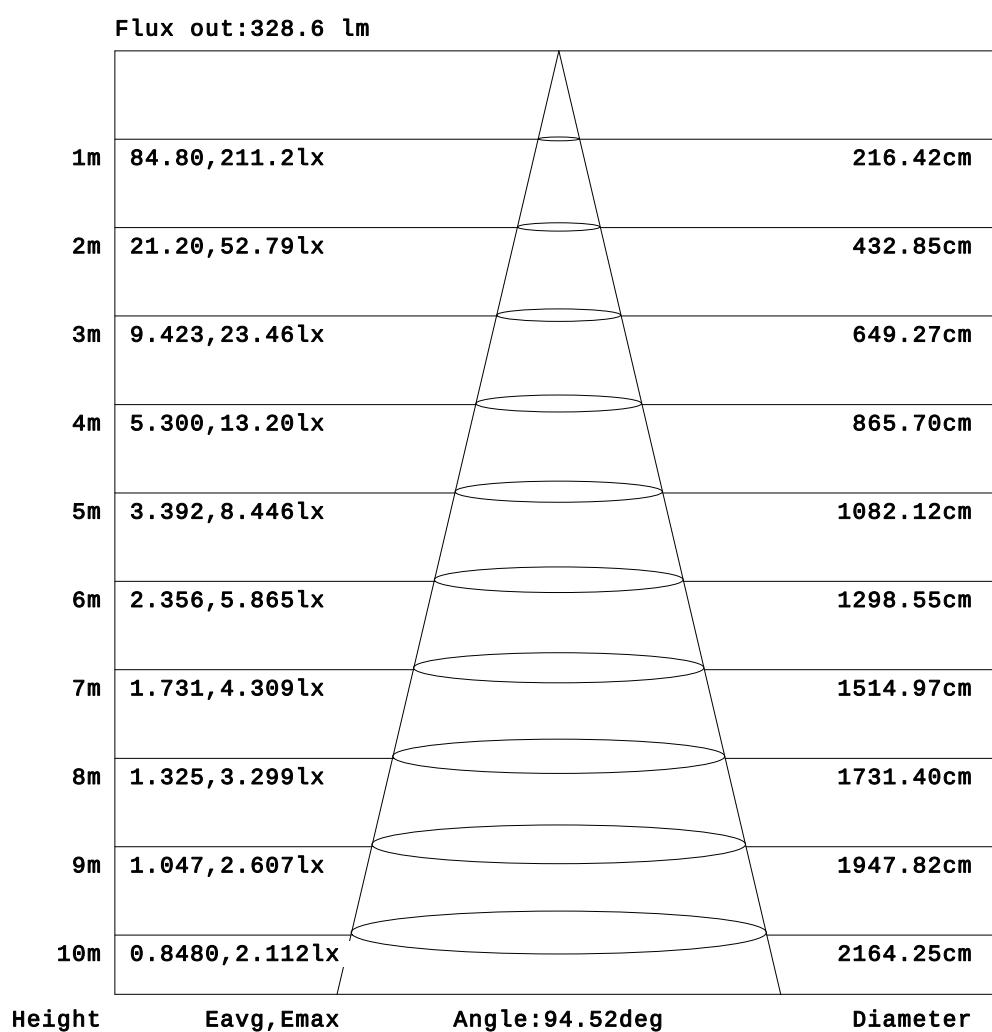
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: 10.0deg/s  
Temperature:25.3℃  
Operators:XIAOXIN  
Test Date:2024-06-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-3000H\_V1 SYSTEM V2.00.463  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks:



## AAI Figure

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.17V I:0.1287A P:14.069W PF:0.4964 Freq:50.00Hz<br>Lamp Flux:593.938x1 lm |       |                  |
| NAME: CL-1100-1-LED-NE                                                              | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.:                                                                               | SUR.: | Shielding Angle: |



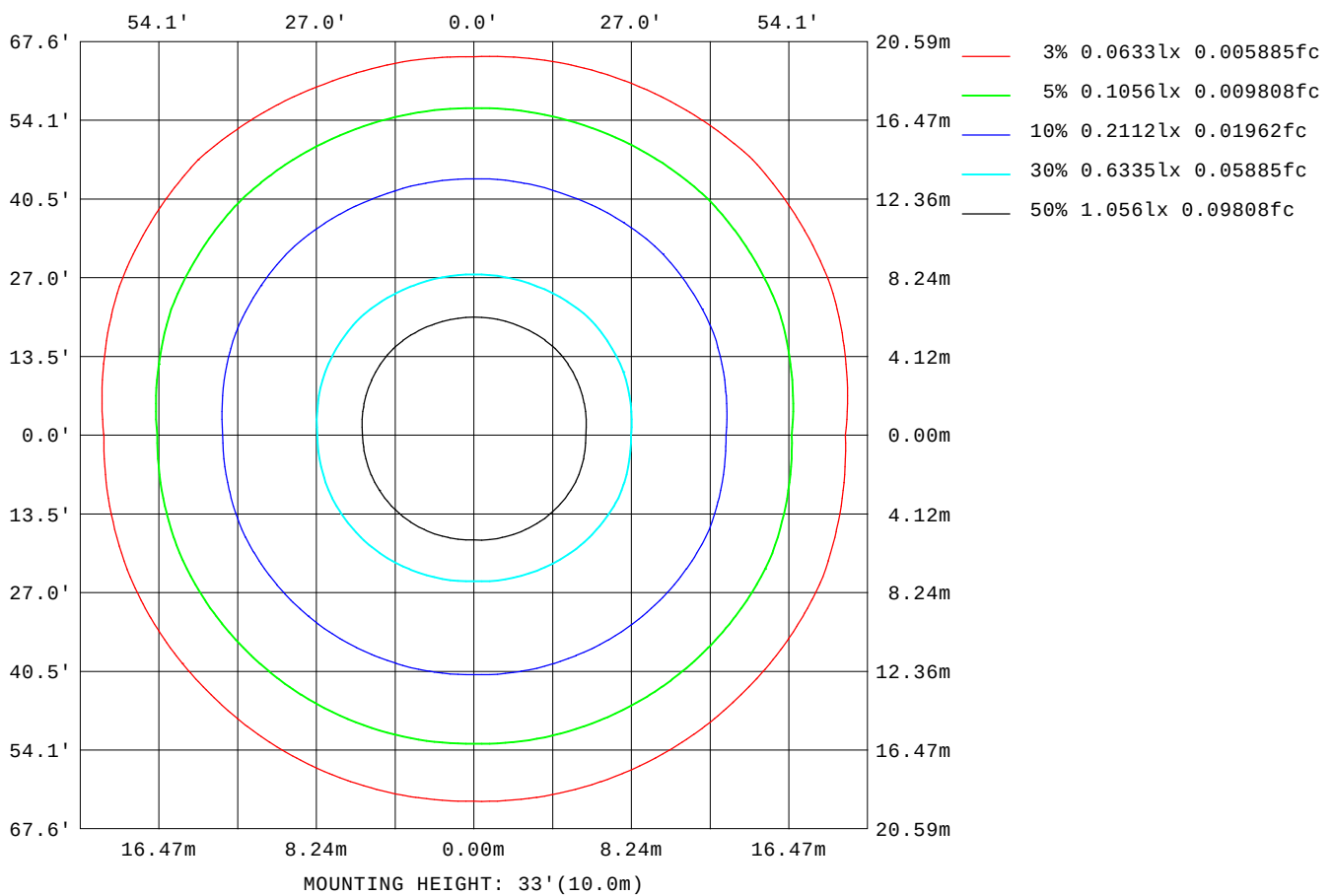
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: 10.0deg/s  
Temperature:25.3℃  
Operators:XIAOXIN  
Test Date:2024-06-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-3000H\_V1 SYSTEM V2.00.463  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.17V I:0.1287A P:14.069W PF:0.4964 Freq:50.00Hz<br>Lamp Flux:593.938x1 lm |       |                  |
| NAME: CL-1100-1-LED-NE                                                              | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.:                                                                               | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: 10.0deg/s  
Temperature: 25.3°C  
Operators: XIAOXIN  
Test Date: 2024-06-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-3000H\_V1 SYSTEM V2.00.463  
Humidity: 65.0%  
Test Distance: 9.000m [K=1.0000]  
Remarks:

## LED Avg.L Report

|                                                                                     |       |                  |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:220.17V I:0.1287A P:14.069W PF:0.4964 Freq:50.00Hz<br>Lamp Flux:593.938x1 lm |       |                  |
| NAME: CL-1100-1-LED-NE                                                              | TYPE: | WEIGHT:          |
| SPEC.:                                                                              | DIM.: | SERIAL No.:      |
| MFR.:                                                                               | SUR.: | Shielding Angle: |

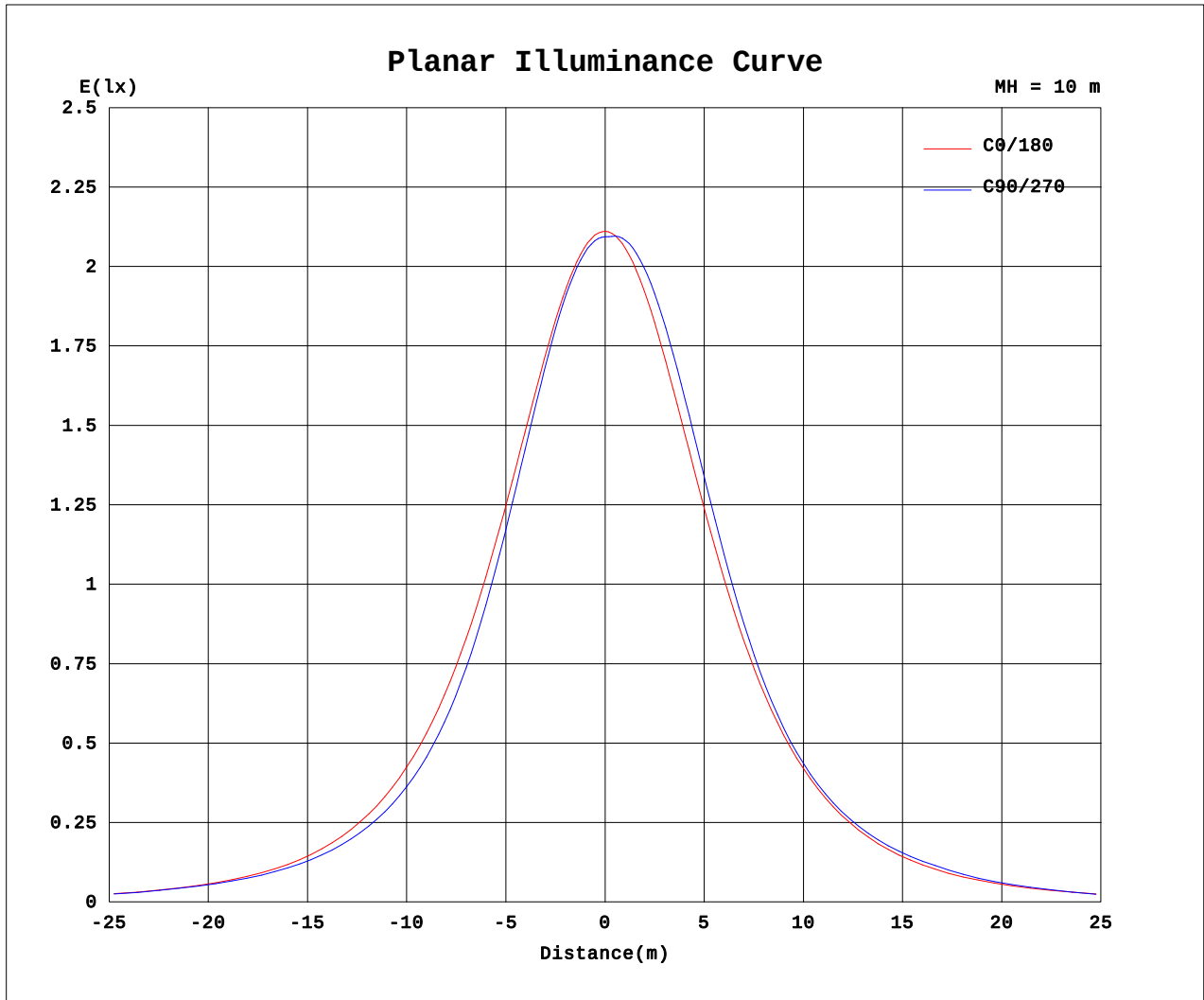
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 20065 |
| L_0~180(75)av  | 18067 |
| L_0~180(85)av  | 16039 |
| L_90~270(65)av | 20426 |
| L_90~270(75)av | 14673 |
| L_90~270(85)av | 26891 |
| L_45(65)av     | 22461 |
| L_45(75)av     | 19110 |
| L_45(85)av     | 23794 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: 10.0deg/s  
Temperature:25.3℃  
Operators:XIAOXIN  
Test Date:2024-06-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-3000H\_V1 SYSTEM V2.00.463  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: 10.0deg/s  
Temperature: 25.3°C  
Operators: XIAOXIN  
Test Date: 2024-06-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE G0-3000H\_V1 SYSTEM V2.00.463  
Humidity: 65.0%  
Test Distance: 9.000m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                     |  |  |  |  |  |  |  |  |       |  |  |  |  |  |                  |  |  |
|-------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|------------------|--|--|
| Test:U:220.17V I:0.1287A P:14.069W PF:0.4964 Freq:50.00Hz<br>Lamp Flux:593.938x1 lm |  |  |  |  |  |  |  |  |       |  |  |  |  |  |                  |  |  |
| NAME: CL-1100-1-LED-NE                                                              |  |  |  |  |  |  |  |  | TYPE: |  |  |  |  |  | WEIGHT:          |  |  |
| SPEC.:                                                                              |  |  |  |  |  |  |  |  | DIM.: |  |  |  |  |  | SERIAL No.:      |  |  |
| MFR.:                                                                               |  |  |  |  |  |  |  |  | SUR.: |  |  |  |  |  | Shielding Angle: |  |  |

Table--1

UNIT: cd

| C(DEC)<br>γ (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                 | 211  | 211  | 210  | 210  | 209  | 209   | 209  | 209   | 211  | 211   | 210  | 210   | 209  | 209   | 209  | 209   |  |  |  |
| 5                 | 210  | 210  | 209  | 209  | 208  | 208   | 207  | 207   | 210  | 210   | 211  | 211   | 211  | 211   | 210  | 209   |  |  |  |
| 10                | 206  | 206  | 205  | 205  | 204  | 204   | 203  | 203   | 205  | 207   | 209  | 211   | 212  | 211   | 210  | 206   |  |  |  |
| 15                | 199  | 199  | 198  | 197  | 196  | 196   | 196  | 196   | 198  | 201   | 205  | 208   | 209  | 208   | 206  | 202   |  |  |  |
| 20                | 190  | 190  | 188  | 186  | 184  | 185   | 186  | 186   | 189  | 193   | 199  | 201   | 202  | 201   | 199  | 194   |  |  |  |
| 25                | 178  | 179  | 176  | 172  | 169  | 171   | 173  | 175   | 177  | 183   | 189  | 191   | 192  | 191   | 190  | 184   |  |  |  |
| 30                | 165  | 166  | 162  | 156  | 152  | 155   | 159  | 162   | 164  | 171   | 177  | 177   | 177  | 177   | 178  | 172   |  |  |  |
| 35                | 151  | 152  | 146  | 139  | 134  | 138   | 143  | 148   | 150  | 157   | 162  | 160   | 160  | 161   | 163  | 159   |  |  |  |
| 40                | 136  | 137  | 130  | 122  | 118  | 121   | 127  | 133   | 135  | 143   | 146  | 142   | 141  | 143   | 147  | 144   |  |  |  |
| 45                | 120  | 121  | 114  | 107  | 103  | 106   | 112  | 117   | 119  | 127   | 130  | 125   | 123  | 125   | 131  | 129   |  |  |  |
| 50                | 104  | 106  | 99.2 | 93.2 | 90.1 | 92.3  | 97.1 | 102   | 103  | 112   | 114  | 109   | 108  | 109   | 115  | 113   |  |  |  |
| 55                | 89.0 | 90.9 | 85.5 | 81.3 | 78.9 | 80.5  | 83.5 | 87.6  | 88.0 | 96.5  | 98.3 | 94.7  | 94.3 | 95.5  | 99.6 | 98.0  |  |  |  |
| 60                | 74.1 | 76.7 | 73.1 | 70.6 | 68.6 | 69.8  | 71.3 | 73.7  | 73.1 | 81.7  | 84.2 | 82.2  | 80.9 | 83.1  | 85.5 | 83.3  |  |  |  |
| 65                | 59.8 | 63.3 | 61.7 | 60.6 | 58.5 | 59.8  | 60.0 | 60.5  | 58.9 | 67.7  | 71.3 | 64.2  | 62.3 | 66.7  | 72.8 | 69.2  |  |  |  |
| 70                | 46.3 | 50.8 | 51.2 | 46.1 | 42.5 | 44.9  | 49.6 | 47.6  | 44.3 | 54.5  | 54.6 | 41.9  | 38.8 | 45.2  | 58.6 | 56.1  |  |  |  |
| 75                | 33.5 | 38.3 | 36.8 | 26.0 | 24.6 | 25.4  | 34.4 | 35.8  | 31.9 | 42.4  | 31.2 | 28.5  | 28.6 | 28.7  | 36.1 | 43.9  |  |  |  |
| 80                | 21.5 | 27.8 | 17.9 | 18.6 | 18.6 | 18.2  | 16.9 | 25.0  | 20.3 | 25.5  | 21.0 | 23.0  | 23.4 | 23.2  | 21.3 | 30.3  |  |  |  |
| 85                | 10.3 | 10.1 | 13.1 | 14.3 | 14.3 | 14.0  | 12.4 | 8.58  | 9.25 | 11.4  | 16.1 | 18.0  | 18.6 | 18.3  | 16.4 | 11.5  |  |  |  |
| 90                | 1.11 | 6.22 | 10.4 | 12.2 | 12.7 | 12.4  | 10.4 | 5.90  | 0.96 | 6.85  | 11.5 | 13.6  | 14.2 | 13.9  | 11.8 | 7.00  |  |  |  |
| 95                | 0.81 | 6.28 | 10.7 | 12.9 | 13.4 | 13.0  | 10.8 | 5.44  | 1.02 | 6.42  | 11.2 | 13.0  | 13.2 | 12.8  | 10.8 | 6.17  |  |  |  |
| 100               | 0.82 | 6.26 | 11.1 | 13.5 | 14.2 | 13.7  | 10.9 | 6.15  | 1.12 | 7.07  | 11.6 | 13.6  | 13.9 | 13.4  | 11.2 | 6.02  |  |  |  |
| 105               | 0.89 | 5.97 | 9.80 | 13.4 | 14.8 | 8.77  | 11.3 | 5.66  | 1.27 | 6.68  | 11.7 | 12.2  | 14.7 | 14.1  | 8.42 | 5.91  |  |  |  |
| 110               | 0.98 | 6.56 | 11.5 | 13.7 | 15.3 | 14.1  | 11.5 | 6.28  | 1.40 | 7.18  | 12.3 | 13.2  | 14.6 | 14.8  | 12.0 | 5.92  |  |  |  |
| 115               | 1.07 | 6.86 | 11.0 | 10.8 | 15.5 | 11.2  | 10.9 | 6.40  | 1.49 | 7.01  | 12.3 | 10.8  | 15.3 | 10.6  | 11.9 | 6.34  |  |  |  |
| 120               | 1.14 | 7.22 | 10.9 | 10.3 | 15.3 | 10.2  | 10.8 | 6.48  | 1.58 | 6.48  | 12.1 | 11.2  | 15.4 | 9.70  | 11.6 | 5.87  |  |  |  |
| 125               | 1.21 | 6.63 | 9.77 | 11.4 | 14.8 | 10.9  | 9.47 | 5.54  | 1.64 | 6.96  | 10.3 | 12.8  | 15.1 | 10.7  | 11.2 | 6.31  |  |  |  |
| 130               | 1.28 | 5.07 | 8.01 | 11.7 | 14.0 | 11.4  | 7.54 | 4.66  | 1.68 | 6.00  | 8.42 | 13.5  | 15.6 | 12.3  | 9.18 | 5.60  |  |  |  |
| 135               | 1.28 | 4.55 | 7.71 | 11.6 | 13.0 | 11.3  | 7.26 | 4.23  | 1.61 | 5.70  | 8.47 | 13.7  | 14.9 | 12.5  | 7.87 | 5.11  |  |  |  |
| 140               | 1.25 | 4.28 | 9.22 | 10.9 | 11.7 | 10.8  | 8.51 | 3.75  | 1.53 | 5.30  | 10.2 | 13.0  | 13.8 | 12.3  | 9.07 | 4.77  |  |  |  |
| 145               | 1.25 | 4.04 | 7.93 | 10.2 | 11.4 | 11.2  | 7.13 | 3.48  | 1.50 | 5.16  | 9.87 | 12.7  | 12.5 | 11.6  | 9.10 | 4.79  |  |  |  |
| 150               | 1.27 | 3.65 | 7.16 | 10.4 | 12.1 | 10.3  | 6.08 | 2.82  | 1.49 | 4.28  | 9.02 | 12.9  | 14.5 | 12.1  | 8.48 | 4.61  |  |  |  |
| 155               | 1.29 | 3.27 | 6.16 | 8.86 | 10.1 | 8.79  | 4.76 | 2.41  | 1.46 | 3.56  | 6.90 | 11.2  | 12.3 | 10.6  | 7.72 | 4.30  |  |  |  |
| 160               | 1.30 | 2.69 | 5.09 | 6.83 | 7.50 | 6.04  | 3.56 | 1.90  | 1.43 | 3.05  | 5.09 | 9.38  | 10.2 | 8.98  | 6.68 | 3.85  |  |  |  |
| 165               | 1.31 | 2.01 | 3.93 | 5.04 | 5.59 | 3.74  | 2.41 | 1.53  | 1.44 | 2.62  | 3.67 | 5.84  | 8.14 | 7.16  | 5.44 | 3.05  |  |  |  |
| 170               | 1.42 | 1.37 | 2.66 | 3.41 | 3.14 | 2.18  | 1.80 | 1.17  | 1.57 | 2.56  | 2.96 | 3.25  | 5.81 | 5.23  | 4.11 | 2.40  |  |  |  |
| 175               | 1.51 | 1.28 | 1.27 | 1.48 | 1.22 | 1.19  | 1.08 | 1.17  | 1.60 | 2.16  | 2.57 | 2.18  | 2.26 | 3.17  | 2.62 | 1.87  |  |  |  |
| 180               | 1.53 | 1.56 | 1.56 | 1.54 | 1.24 | 1.51  | 1.45 | 1.43  | 1.53 | 1.56  | 1.56 | 1.53  | 1.24 | 1.51  | 1.46 | 1.43  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: 10.0deg/s  
Temperature:25.3℃  
Operators:XIAOXIN  
Test Date:2024-06-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-3000H\_V1 SYSTEM V2.00.463  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks: