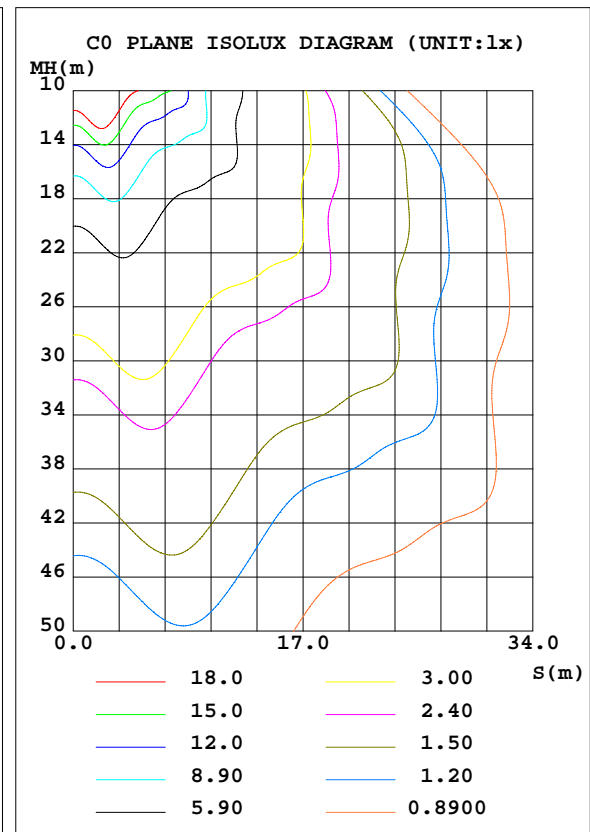
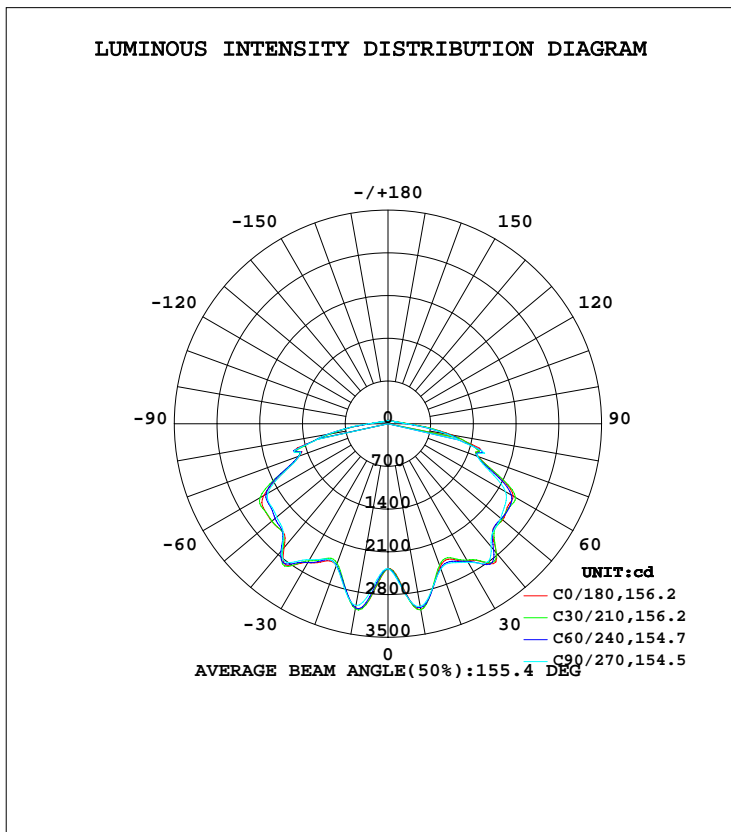


LUMINAIRE PHOTOMETRIC TEST REPORT

|  |       |                  |
|--|-------|------------------|
| Test:U:120.62V I:0.8353A P:100.44W PF:0.9970 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12671.3x1 lm |       |                  |
| NAME: TS-GCP1312-120W-G-TCP  | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |

| DATA OF LAMP                |         | PHOTOMETRIC DATA Eff: 126.15 lm/W |        |                    |          |
|-----------------------------|---------|-----------------------------------|--------|--------------------|----------|
| MODEL TS-GCP1312-120W-G-TCP |         | I <sub>max</sub> (cd)             | 3098   | S/MH(C0/180)       | 1.68     |
| NOMINAL POWER(W)            | 100     | LOR(%)                            | 100.0  | S/MH(C90/270)      | 1.70     |
| RATED VOLTAGE(V)            | 120     | TOTAL FLUX(lm)                    | 12671  | η UP, DN(C0-180)   | 2.7,47.4 |
| NOMINAL FLUX(lm)            | 12671.3 | CIE CLASS                         | DIRECT | η UP, DN(C180-360) | 2.5,47.5 |
| LAMPS INSIDE                | 1       | η up(%)                           | 5.1    | CIBSE SHR NOM      | 1.50     |
| TEST VOLTAGE(V)             | 120     | η down(%)                         | 94.9   | CIBSE SHR MAX      | 1.55     |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:15 April 2024

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:12.550m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

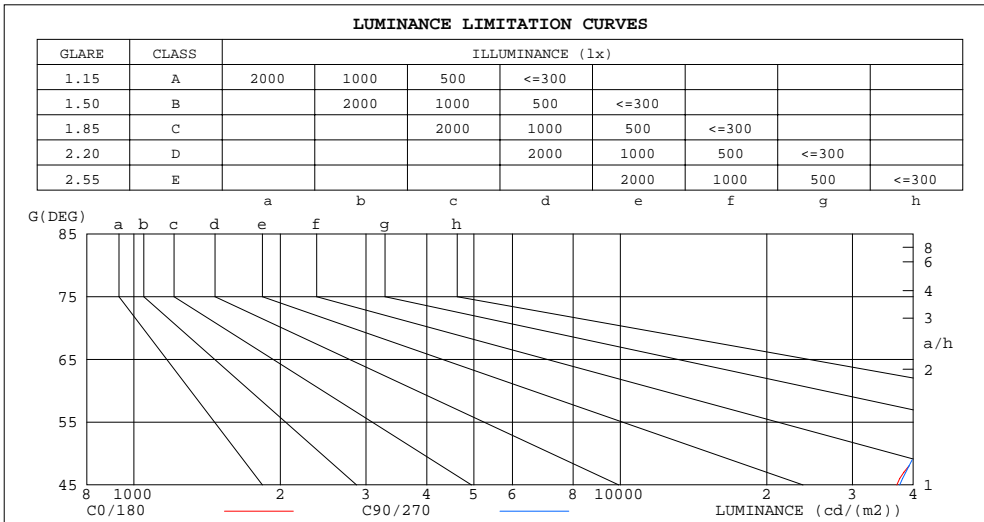
| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | $\Phi$ lum,lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------------|
| 10       | 3093                  | 3079  | 3040  | 3040  | 3062  | 3074  | 3025  | 3004  | 0- 10    | 271.9       | 271.9        | 2.15,2.15       |
| 20       | 2496                  | 2496  | 2534  | 2477  | 2477  | 2451  | 2478  | 2543  | 10- 20   | 779.4       | 1051         | 8.3,8.3         |
| 30       | 2597                  | 2592  | 2620  | 2641  | 2626  | 2609  | 2571  | 2548  | 20- 30   | 1158        | 2209         | 17.4,17.4       |
| 40       | 2763                  | 2726  | 2629  | 2653  | 2648  | 2706  | 2704  | 2704  | 30- 40   | 1723        | 3932         | 31,31           |
| 50       | 2453                  | 2432  | 2408  | 2403  | 2488  | 2449  | 2380  | 2396  | 40- 50   | 1927        | 5859         | 46.2,46.2       |
| 60       | 2368                  | 2372  | 2221  | 2255  | 2349  | 2365  | 2273  | 2328  | 50- 60   | 2142        | 8001         | 63.1,63.1       |
| 70       | 1579                  | 1564  | 1563  | 1527  | 1545  | 1561  | 1550  | 1584  | 60- 70   | 1907        | 9909         | 78.2,78.2       |
| 80       | 1067                  | 1018  | 987.0 | 970.4 | 987.7 | 986.6 | 1004  | 1021  | 70- 80   | 1458        | 11367        | 89.7,89.7       |
| 90       | 340.0                 | 310.0 | 308.7 | 314.4 | 304.6 | 298.3 | 317.0 | 302.4 | 80- 90   | 654.6       | 12022        | 94.9,94.9       |
| 100      | 163.6                 | 160.5 | 159.5 | 162.7 | 145.9 | 148.2 | 151.4 | 150.6 | 90-100   | 239.7       | 12261        | 96.8,96.8       |
| 110      | 108.6                 | 108.7 | 107.1 | 108.5 | 96.48 | 95.30 | 97.87 | 98.81 | 100-110  | 132.0       | 12393        | 97.8,97.8       |
| 120      | 88.71                 | 85.01 | 84.03 | 78.29 | 73.94 | 67.18 | 76.21 | 76.48 | 110-120  | 89.64       | 12483        | 98.5,98.5       |
| 130      | 70.34                 | 66.80 | 65.97 | 61.48 | 55.92 | 54.79 | 59.26 | 59.93 | 120-130  | 61.67       | 12545        | 99,99           |
| 140      | 61.21                 | 59.63 | 59.03 | 55.50 | 51.60 | 51.01 | 54.34 | 54.02 | 130-140  | 45.16       | 12590        | 99.4,99.4       |
| 150      | 58.45                 | 57.95 | 57.18 | 56.18 | 51.39 | 52.39 | 53.56 | 53.25 | 140-150  | 34.53       | 12624        | 99.6,99.6       |
| 160      | 57.52                 | 58.37 | 56.56 | 57.33 | 54.71 | 53.73 | 53.37 | 53.73 | 150-160  | 25.50       | 12650        | 99.8,99.8       |
| 170      | 56.55                 | 57.92 | 57.34 | 57.14 | 55.55 | 55.63 | 56.12 | 55.40 | 160-170  | 15.92       | 12666        | 100,100         |
| 180      | 56.38                 | 56.46 | 56.00 | 56.21 | 56.25 | 56.45 | 55.96 | 56.15 | 170-180  | 5.377       | 12671        | 100,100         |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT:lm     |              |                 |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:15 April 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:12.550m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

|  |       |                  |
|--|-------|------------------|
| Test:U:120.62V I:0.8353A P:100.44W PF:0.9970 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12671.3x1 lm |       |                  |
| NAME: TS-GCP1312-120W-G-TCP  | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 75856  | 70009   |
| 80                | 65968  | 61307   |
| 75                | 64608  | 60127   |
| 70                | 49572  | 49280   |
| 65                | 50130  | 47005   |
| 60                | 50872  | 47918   |
| 55                | 44698  | 43975   |
| 50                | 40991  | 40409   |
| 45                | 37011  | 37508   |

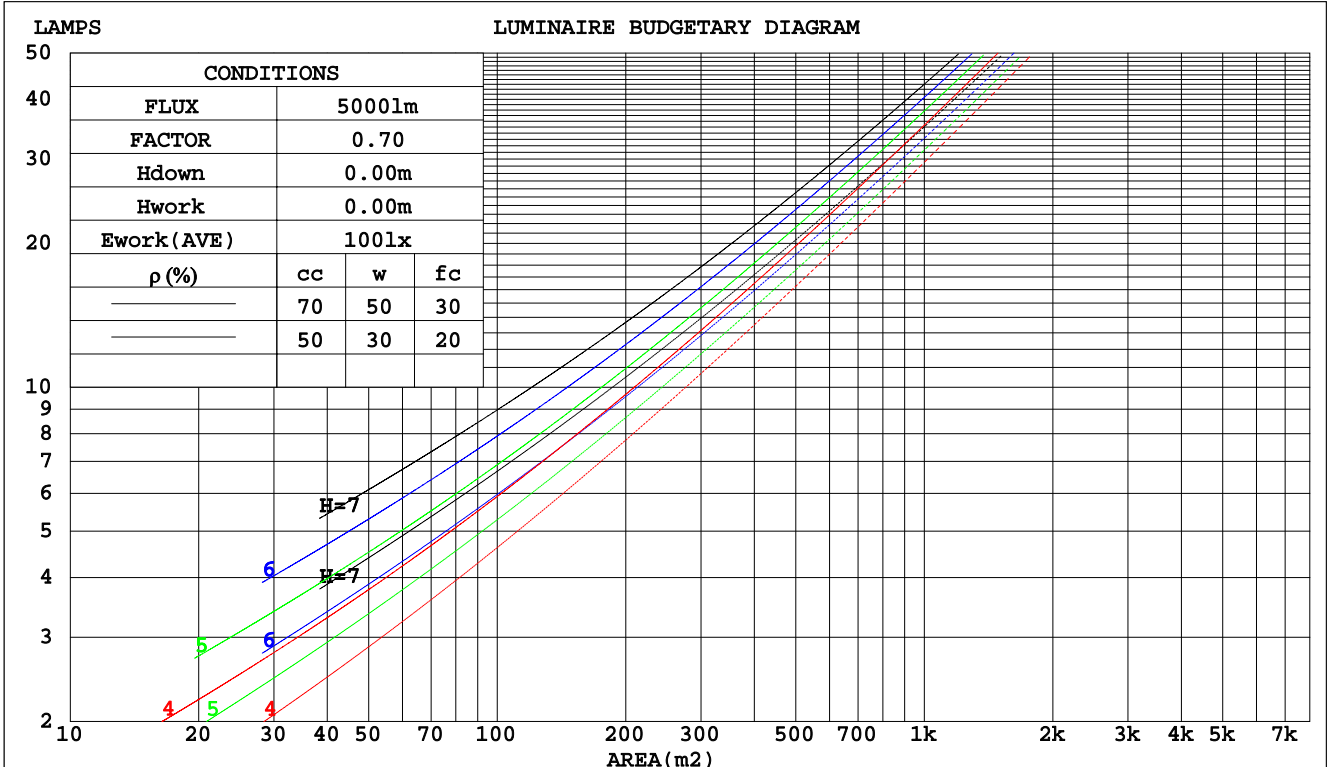
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:15 April 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:12.550m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|   |       |                  |                        |
|---|-------|------------------|------------------------|
| Test:U:120.62V I:0.8353A P:100.44W PF:0.9970 Freq:59.98Hz UTHDi:0% ITHDi:0% |       |                  | Lamp Flux:12671.3x1 lm |
| NAME: TS-GCP1312-120W-G-TCP   | TYPE: | WEIGHT:          |                        |
| SPEC.:  | DIM.: | SERIAL No.:      |                        |
| MFR.:   | SUR.: | Shielding Angle: |                        |

| pcc  | 80%                             |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10% |     |     | 0   |
|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
|      | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50% | 30% | 10% | 0   |
| pw   |                                 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| pfc  | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20% |     |     | 0   |
| RCR  | RCR:Room Cavity Ratio           |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
|      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 0.0  | 1.18                            | 1.18 | 1.18 | 1.14 | 1.14 | 1.14 | 1.08 | 1.08 | 1.08 | 1.03 | 1.03 | 1.03 | .97 | .97 | .97 | .95 |
| 1.0  | .99                             | .94  | .89  | .96  | .91  | .87  | .91  | .87  | .83  | .86  | .83  | .80  | .81 | .79 | .76 | .74 |
| 2.0  | .84                             | .76  | .69  | .82  | .74  | .68  | .77  | .71  | .66  | .73  | .68  | .63  | .69 | .65 | .61 | .58 |
| 3.0  | .72                             | .63  | .56  | .70  | .62  | .55  | .66  | .59  | .53  | .63  | .57  | .51  | .60 | .54 | .50 | .47 |
| 4.0  | .63                             | .53  | .46  | .61  | .52  | .45  | .58  | .50  | .44  | .55  | .48  | .43  | .52 | .46 | .42 | .39 |
| 5.0  | .56                             | .46  | .38  | .54  | .45  | .38  | .51  | .43  | .37  | .49  | .42  | .36  | .46 | .40 | .35 | .33 |
| 6.0  | .50                             | .40  | .33  | .48  | .39  | .33  | .46  | .38  | .32  | .44  | .37  | .31  | .42 | .35 | .30 | .28 |
| 7.0  | .45                             | .35  | .29  | .44  | .35  | .28  | .41  | .33  | .28  | .40  | .32  | .27  | .38 | .31 | .26 | .24 |
| 8.0  | .40                             | .31  | .25  | .39  | .31  | .25  | .38  | .30  | .24  | .36  | .29  | .24  | .34 | .28 | .23 | .21 |
| 9.0  | .37                             | .28  | .22  | .36  | .28  | .22  | .34  | .27  | .22  | .33  | .26  | .21  | .32 | .25 | .21 | .19 |
| 10.0 | .34                             | .26  | .20  | .33  | .25  | .20  | .32  | .24  | .19  | .30  | .24  | .19  | .29 | .23 | .19 | .17 |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:15 April 2024

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:12.550m [K=1.0000]  
 Remarks:

WEC AND CCEC

|   |  |       |                        |                  |  |
|---|--|-------|------------------------|------------------|--|
| Test:U:120.62V I:0.8353A P:100.44W PF:0.9970 Freq:59.98Hz UTHDi:0% ITHDi:0% |  |       | Lamp Flux:12671.3x1 lm |                  |  |
| NAME: TS-GCP1312-120W-G-TCP   |  | TYPE: |                        | WEIGHT:          |  |
| SPEC.:  |  | DIM.: |                        | SERIAL No.:      |  |
| MFR.:   |  | SUR.: |                        | Shielding Angle: |  |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .380                  | .216 | .069 | .372 | .212 | .067 | .355                            | .204 | .065 | .340 | .196 | .063 | .326 | .189 | .061 |   |
| 2.0  | .341                  | .187 | .057 | .333 | .184 | .057 | .318                            | .177 | .055 | .305 | .171 | .053 | .292 | .165 | .052 |   |
| 3.0  | .307                  | .163 | .049 | .300 | .161 | .048 | .286                            | .155 | .047 | .274 | .150 | .046 | .263 | .145 | .045 |   |
| 4.0  | .278                  | .144 | .042 | .271 | .142 | .042 | .259                            | .138 | .041 | .248 | .133 | .040 | .238 | .129 | .039 |   |
| 5.0  | .253                  | .129 | .037 | .247 | .127 | .037 | .236                            | .123 | .036 | .226 | .119 | .036 | .217 | .116 | .035 |   |
| 6.0  | .232                  | .116 | .033 | .226 | .114 | .033 | .217                            | .111 | .032 | .208 | .108 | .032 | .199 | .105 | .031 |   |
| 7.0  | .213                  | .106 | .030 | .209 | .104 | .030 | .200                            | .101 | .029 | .192 | .098 | .029 | .184 | .096 | .028 |   |
| 8.0  | .198                  | .097 | .027 | .194 | .095 | .027 | .186                            | .093 | .027 | .178 | .090 | .026 | .172 | .088 | .026 |   |
| 9.0  | .184                  | .089 | .025 | .180 | .088 | .025 | .173                            | .086 | .024 | .167 | .084 | .024 | .160 | .081 | .024 |   |
| 10.0 | .172                  | .083 | .023 | .169 | .082 | .023 | .162                            | .079 | .022 | .156 | .078 | .022 | .150 | .076 | .022 |   |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .230                  | .230 | .230 | .196 | .196 | .196 | .134                                       | .134 | .134 | .077 | .077 | .077 | .025 | .025 | .025 |   |
| 1.0  | .225                  | .195 | .168 | .192 | .167 | .145 | .131                                       | .115 | .100 | .076 | .067 | .058 | .024 | .021 | .019 |   |
| 2.0  | .218                  | .171 | .132 | .187 | .147 | .114 | .128                                       | .102 | .079 | .074 | .059 | .047 | .024 | .019 | .015 |   |
| 3.0  | .211                  | .154 | .109 | .181 | .133 | .094 | .124                                       | .093 | .066 | .072 | .054 | .039 | .023 | .018 | .013 |   |
| 4.0  | .204                  | .142 | .094 | .175 | .122 | .082 | .120                                       | .085 | .058 | .070 | .050 | .034 | .022 | .016 | .011 |   |
| 5.0  | .196                  | .132 | .084 | .168 | .114 | .073 | .116                                       | .080 | .052 | .067 | .047 | .031 | .022 | .015 | .010 |   |
| 6.0  | .189                  | .124 | .077 | .162 | .107 | .067 | .112                                       | .075 | .047 | .065 | .044 | .028 | .021 | .014 | .009 |   |
| 7.0  | .181                  | .117 | .072 | .156 | .101 | .062 | .108                                       | .071 | .044 | .063 | .042 | .026 | .020 | .014 | .009 |   |
| 8.0  | .174                  | .111 | .068 | .150 | .096 | .059 | .104                                       | .068 | .042 | .060 | .040 | .025 | .020 | .013 | .008 |   |
| 9.0  | .168                  | .106 | .065 | .145 | .092 | .056 | .100                                       | .065 | .040 | .058 | .038 | .024 | .019 | .013 | .008 |   |
| 10.0 | .162                  | .102 | .062 | .139 | .089 | .054 | .097                                       | .062 | .038 | .056 | .037 | .023 | .018 | .012 | .008 |   |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:15 April 2024

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:12.550m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

|  |                  |      |      |      |       |                |      |                  |      |      |
|--|------------------|------|------|------|-------|----------------|------|------------------|------|------|
| Test:U:120.62V I:0.8353A P:100.44W PF:0.9970 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12671.3x1 lm |                  |      |      |      |       |                |      |                  |      |      |
| NAME: TS-GCP1312-120W-G-TCP  |                  |      |      |      | 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  | 25.8             | 27.5 | 26.3 | 27.9 | 28.4  | 25.5           | 27.2 | 25.9             | 27.6 | 28.0 |
| 3H   | 27.9             | 29.4 | 28.4 | 29.9 | 30.3  | 27.6           | 29.2 | 28.1             | 29.6 | 30.1 |
| 4H   | 29.2             | 30.7 | 29.7 | 31.1 | 31.6  | 29.0           | 30.5 | 29.5             | 30.9 | 31.4 |
| 6H   | 30.3             | 31.7 | 30.8 | 32.1 | 32.6  | 30.0           | 31.3 | 30.5             | 31.8 | 32.3 |
| 8H   | 30.7             | 32.0 | 31.2 | 32.5 | 33.0  | 30.4           | 31.7 | 30.9             | 32.2 | 32.7 |
| 12H  | 31.1             | 32.3 | 31.6 | 32.8 | 33.4  | 30.7           | 32.0 | 31.2             | 32.5 | 33.0 |
| 4H 2H  | 26.6             | 28.0 | 27.1 | 28.5 | 29.0  | 26.2           | 27.7 | 26.7             | 28.1 | 28.6 |
| 3H   | 28.9             | 30.2 | 29.4 | 30.7 | 31.2  | 28.7           | 29.9 | 29.1             | 30.4 | 30.9 |
| 4H   | 30.4             | 31.6 | 30.9 | 32.1 | 32.6  | 30.2           | 31.3 | 30.7             | 31.8 | 32.4 |
| 6H   | 31.7             | 32.7 | 32.2 | 33.2 | 33.8  | 31.3           | 32.3 | 31.9             | 32.9 | 33.4 |
| 8H   | 32.2             | 33.1 | 32.7 | 33.6 | 34.2  | 31.8           | 32.7 | 32.3             | 33.3 | 33.9 |
| 12H  | 32.6             | 33.5 | 33.2 | 34.0 | 34.6  | 32.2           | 33.1 | 32.8             | 33.7 | 34.2 |
| 8H 4H  | 31.0             | 31.9 | 31.5 | 32.4 | 33.0  | 30.7           | 31.7 | 31.2             | 32.2 | 32.8 |
| 6H   | 32.4             | 33.2 | 33.0 | 33.8 | 34.4  | 32.0           | 32.8 | 32.6             | 33.4 | 34.0 |
| 8H   | 33.0             | 33.7 | 33.6 | 34.3 | 34.9  | 32.6           | 33.3 | 33.2             | 33.9 | 34.5 |
| 12H  | 33.6             | 34.2 | 34.2 | 34.8 | 35.5  | 33.2           | 33.8 | 33.8             | 34.4 | 35.1 |
| 12H 4H   | 31.1             | 31.9 | 31.6 | 32.5 | 33.1  | 30.8           | 31.7 | 31.3             | 32.2 | 32.8 |
| 6H   | 32.5             | 33.3 | 33.1 | 33.8 | 34.5  | 32.2           | 32.9 | 32.8             | 33.5 | 34.1 |
| 8H   | 33.2             | 33.9 | 33.8 | 34.4 | 35.1  | 32.9           | 33.5 | 33.4             | 34.1 | 34.7 |
| CIE190: 2010   |                  |      |      |      |       |                |      |                  |      |      |
|  |                  |      |      |      |       |                |      |                  |      |      |

CIE190: 2010  
Area: 0.0928 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:15 April 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:12.550m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

|   |       |                  |                        |
|---|-------|------------------|------------------------|
| Test:U:120.62V I:0.8353A P:100.44W PF:0.9970 Freq:59.98Hz UTHDi:0% ITHDi:0% |       |                  | Lamp Flux:12671.3x1 lm |
| NAME: TS-GCP1312-120W-G-TCP   | TYPE: | WEIGHT:          |                        |
| SPEC.:  | DIM.: | SERIAL No.:      |                        |
| MFR.:   | SUR.: | Shielding Angle: |                        |

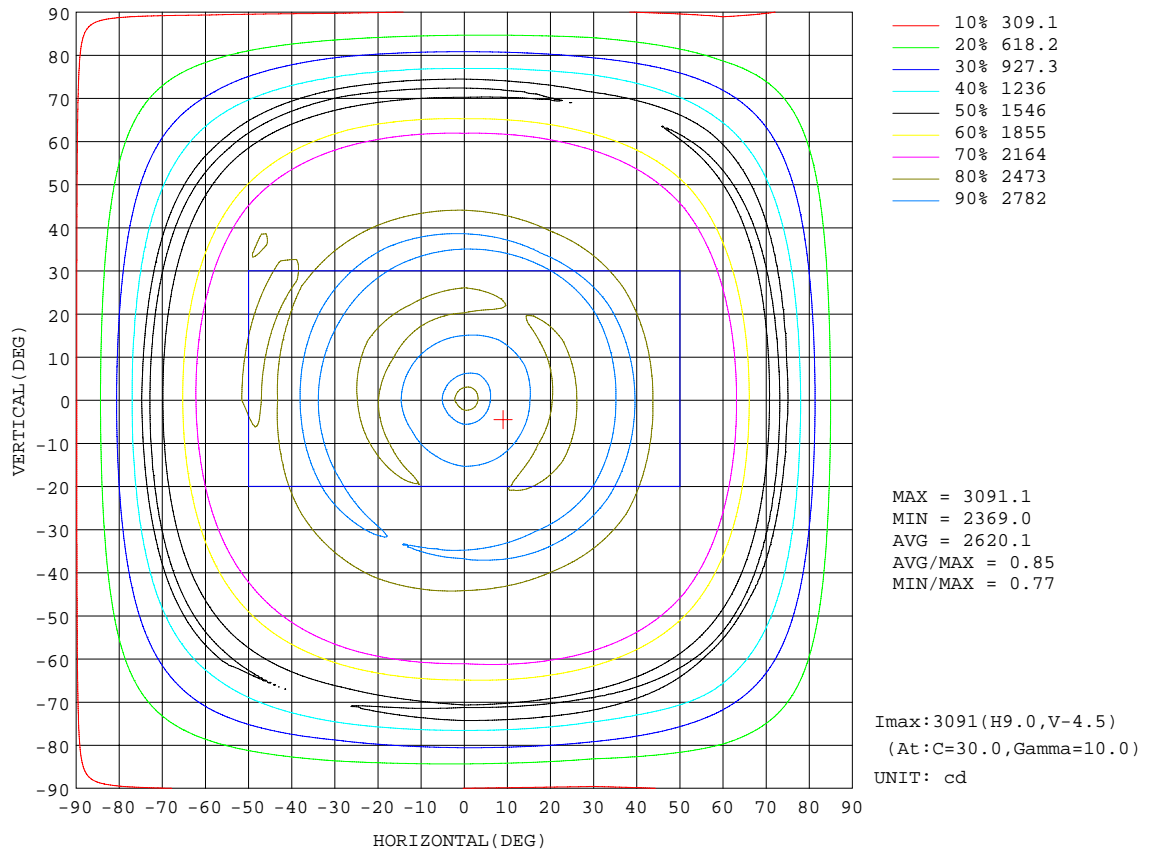
| REFLECTANCE                      |   |     |           |     |     |     |               |     |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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                         | 50  | 37  | 29        | 49  | 37  | 29  | 47            | 36  | 29  | 22     |
| 0.80                             | 59  | 46  | 38        | 58  | 46  | 38  | 56            | 45  | 37  | 29     |
| 1.00                             | 68  | 55  | 46        | 66  | 54  | 46  | 63            | 56  | 45  | 37     |
| 1.25                             | 75  | 63  | 54        | 73  | 62  | 54  | 70            | 60  | 53  | 44     |
| 1.50                             | 80  | 68  | 60        | 78  | 67  | 59  | 74            | 65  | 58  | 49     |
| 2.00                             | 88  | 77  | 69        | 86  | 76  | 68  | 81            | 73  | 67  | 57     |
| 2.50                             | 93  | 83  | 75        | 90  | 81  | 74  | 85            | 78  | 72  | 62     |
| 3.00                             | 96  | 88  | 81        | 94  | 86  | 79  | 89            | 82  | 77  | 66     |
| 4.00                             | 101   | 94  | 88        | 98  | 92  | 86  | 93            | 88  | 83  | 72     |
| 5.00                             | 104   | 98  | 93        | 101 | 96  | 91  | 96            | 91  | 87  | 76     |
| 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: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:15 April 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:12.550m [K=1.0000]  
Remarks:

ISOCANDELA DIAGRAM

|  |       |                  |
|--|-------|------------------|
| Test:U:120.62V I:0.8353A P:100.44W PF:0.9970 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12671.3x1 lm |       |                  |
| NAME: TS-GCP1312-120W-G-TCP  | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 15 April 2024

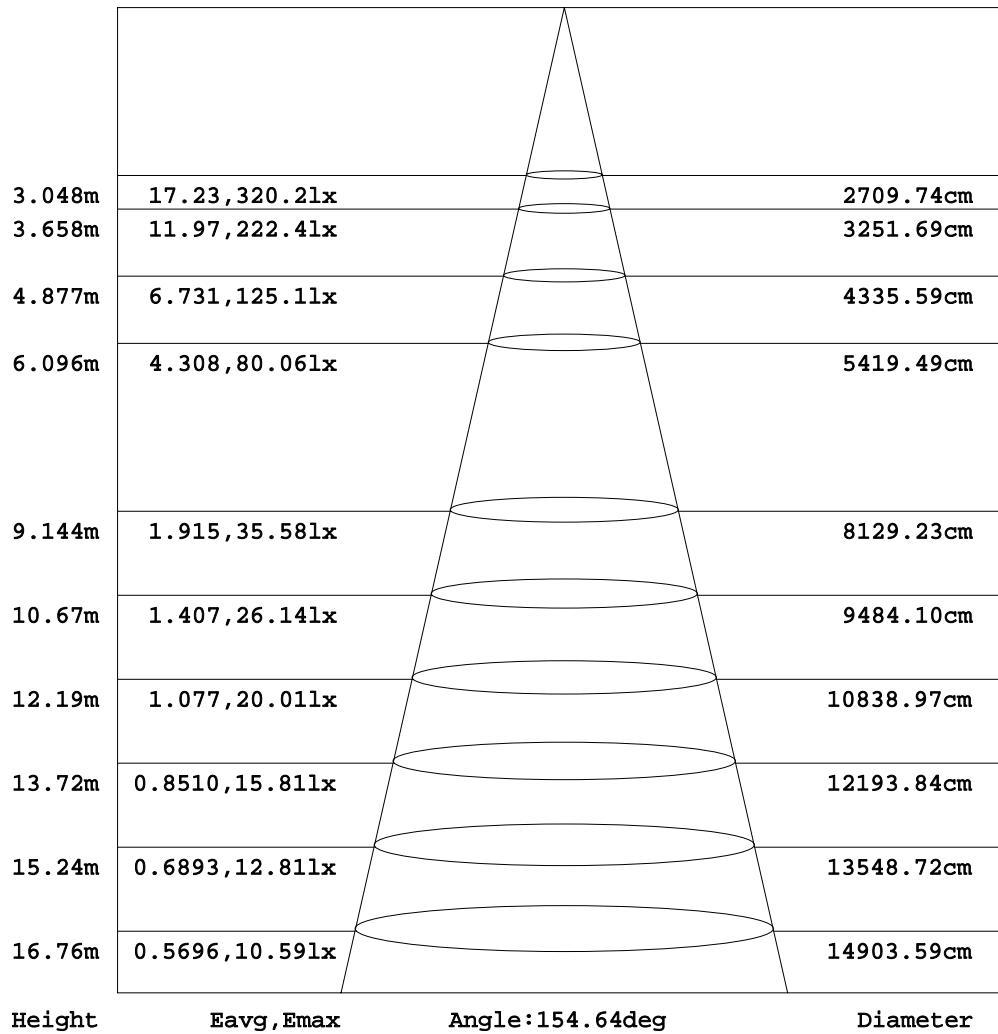
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity: 65.0%  
 Test Distance: 12.550m [K=1.0000]  
 Remarks:



AAI Figure

|  |       |                  |
|--|-------|------------------|
| Test:U:120.62V I:0.8353A P:100.44W PF:0.9970 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12671.3x1 lm |       |                  |
| NAME: TS-GCP1312-120W-G-TCP  | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |

Flux out:11132 lm



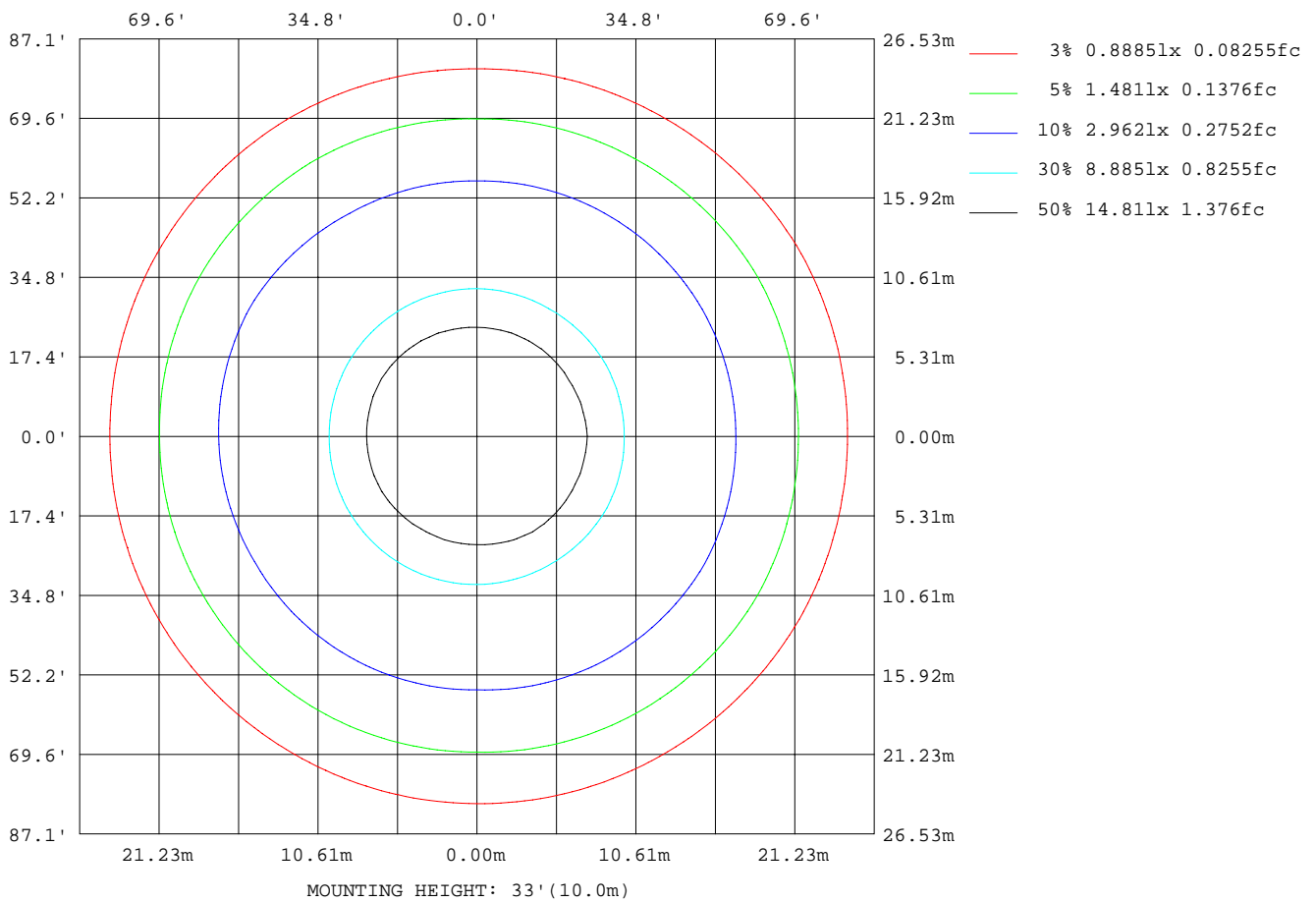
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:15 April 2024

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:12.550m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

|  |       |                  |
|--|-------|------------------|
| Test:U:120.62V I:0.8353A P:100.44W PF:0.9970 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12671.3x1 lm |       |                  |
| NAME: TS-GCP1312-120W-G-TCP  | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 15 April 2024

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity: 65.0%  
 Test Distance: 12.550m [K=1.0000]  
 Remarks:

## LED Avg.L Report

|  |       |                  |
|--|-------|------------------|
| Test:U:120.62V I:0.8353A P:100.44W PF:0.9970 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12671.3x1 lm |       |                  |
| NAME: TS-GCP1312-120W-G-TCP  | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |

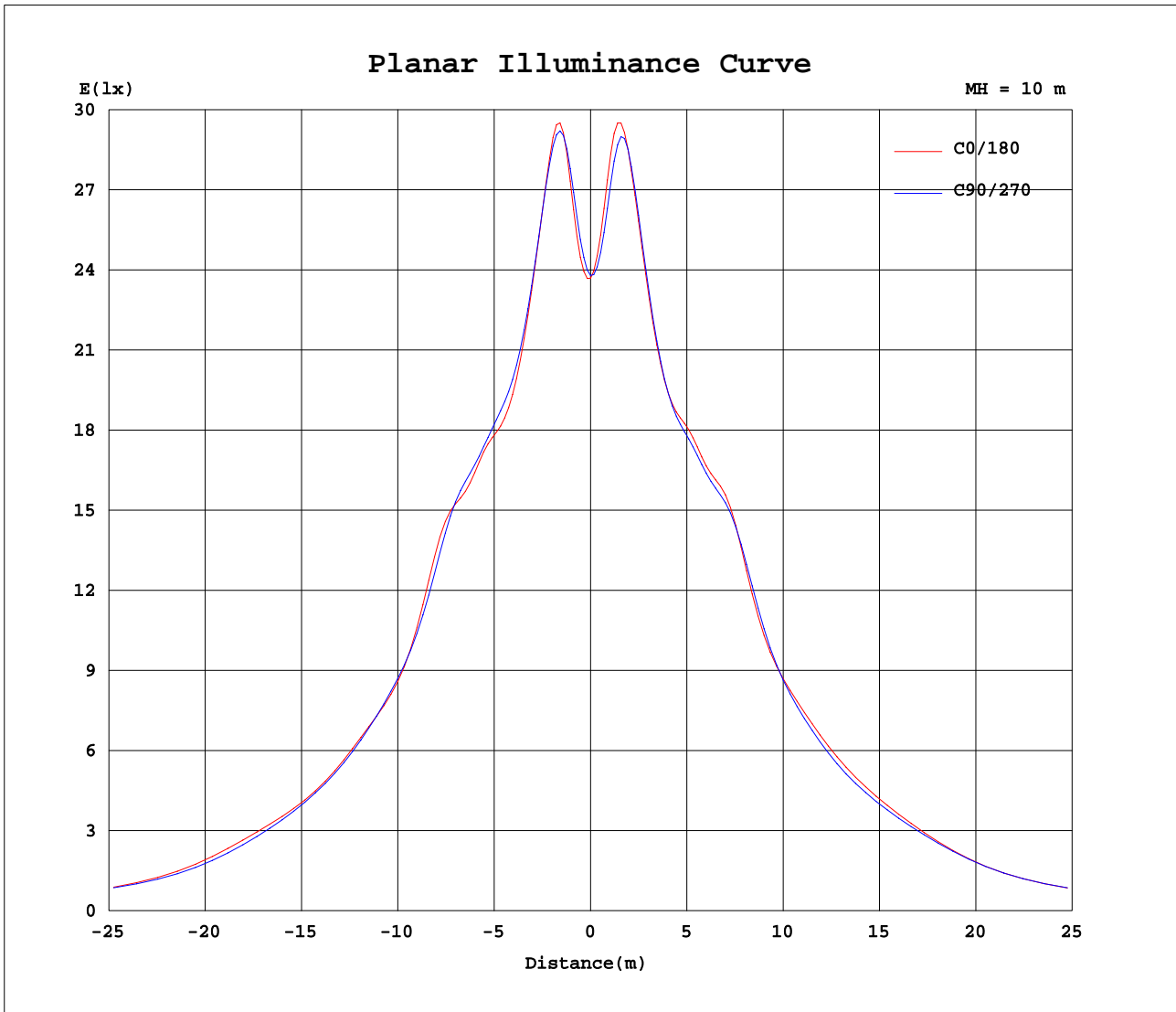
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 49185 |
| L_0~180(75)av  | 64406 |
| L_0~180(85)av  | 73264 |
| L_90~270(65)av | 47404 |
| L_90~270(75)av | 60876 |
| L_90~270(85)av | 71486 |
| L_45(65)av     | 49228 |
| L_45(75)av     | 60132 |
| L_45(85)av     | 70966 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:15 April 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:12.550m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 15 April 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity: 65.0%  
 Test Distance: 12.550m [K=1.0000]  
 Remarks: