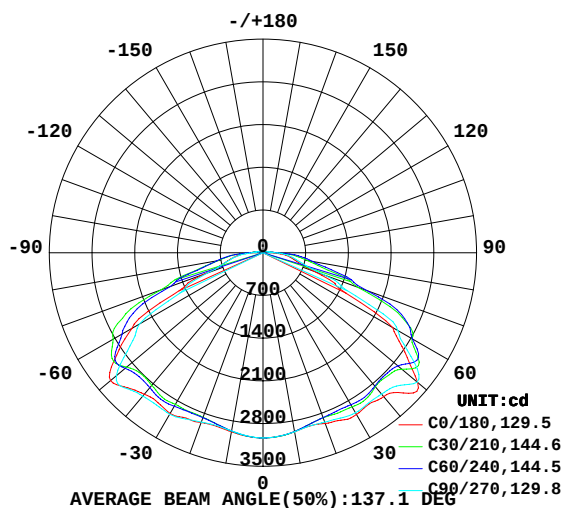


## LUMINAIRE PHOTOMETRIC TEST REPORT

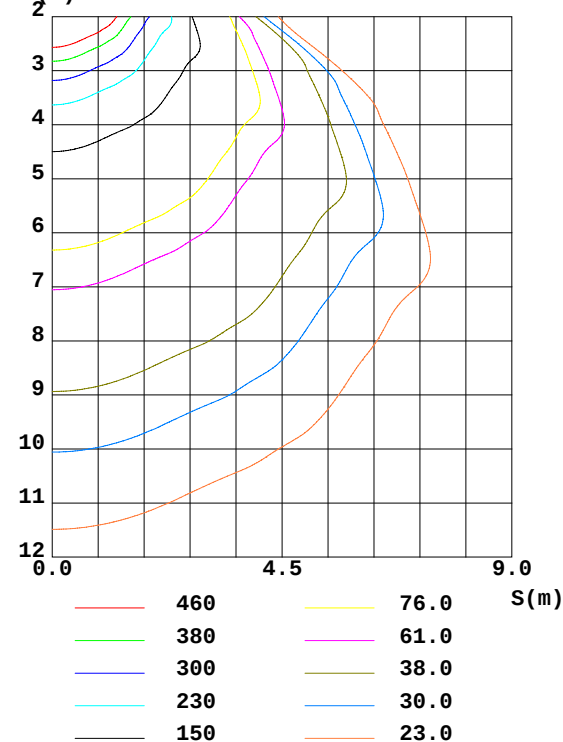
|                                                                                     |               |                         |
|-------------------------------------------------------------------------------------|---------------|-------------------------|
| Test:U:120.34V I:0.8081A P:96.836W PF:0.9957 Freq:59.98Hz<br>Lamp Flux:13322.4x1 lm |               |                         |
| NAME: TS-100W-NW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417002 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |

| DATA OF LAMP     |            | PHOTOMETRIC DATA Eff: 137.58 lm/W |        |                    |           |
|------------------|------------|-----------------------------------|--------|--------------------|-----------|
| MODEL            | TS-100W-NW | I <sub>max</sub> (cd)             | 3393   | S/MH(C0/180)       | 1.52      |
| NOMINAL POWER(W) | 100        | LOR(%)                            | 100.0  | S/MH(C90/270)      | 1.54      |
| RATED VOLTAGE(V) | 120        | TOTAL FLUX(lm)                    | 13322  | η UP, DN(C0-180)   | 1.4, 49.1 |
| NOMINAL FLUX(lm) | 13322.4    | CIE CLASS                         | DIRECT | η UP, DN(C180-360) | 1.4, 48.2 |
| LAMPS INSIDE     | 1          | η up(%)                           | 2.7    | CIBSE SHR NOM      | 1.75      |
| TEST VOLTAGE(V)  | 120        | η down(%)                         | 97.3   | CIBSE SHR MAX      | 1.75      |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.4DEG  
Operators:DAMIN  
Test Date:17 April 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.550m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

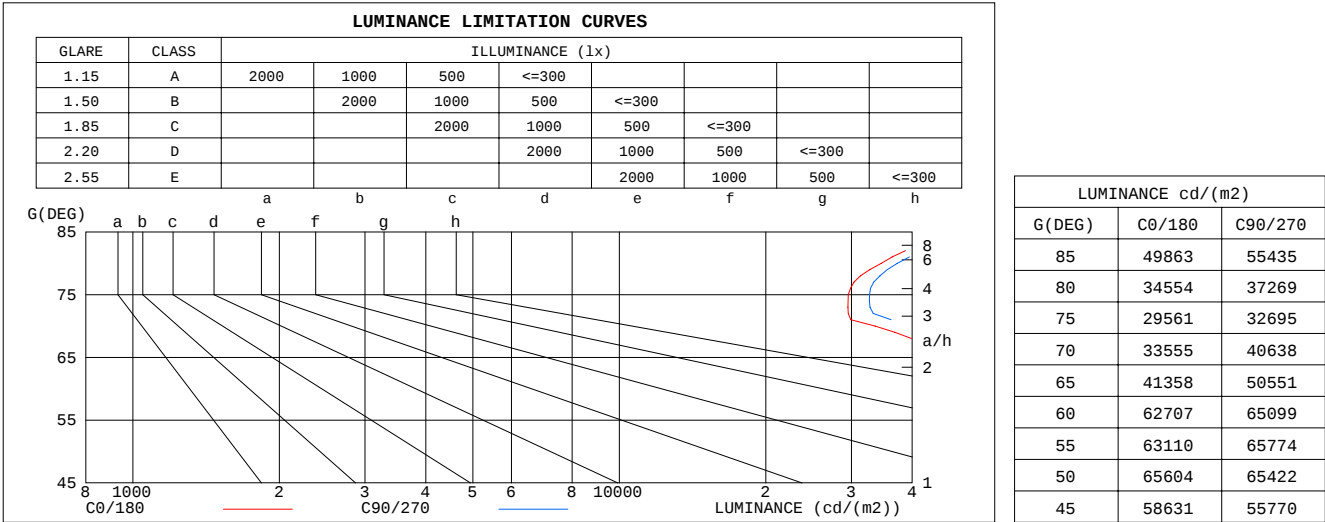
| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10       | 2980                  | 2975  | 2979  | 2975  | 2980  | 2968  | 2965  | 2966  | 0- 10    | 286.5       | 286.5        | 2.15, 2.15 |
| 20       | 2979                  | 2877  | 2955  | 2884  | 2962  | 2873  | 2952  | 2863  | 10- 20   | 828.6       | 1115         | 8.37, 8.37 |
| 30       | 3062                  | 2897  | 3030  | 2889  | 3042  | 2887  | 3055  | 2901  | 20- 30   | 1353        | 2468         | 18.5, 18.5 |
| 40       | 3078                  | 2860  | 3022  | 2853  | 3026  | 2860  | 3066  | 2872  | 30- 40   | 1848        | 4316         | 32.4, 32.4 |
| 50       | 3306                  | 2927  | 3297  | 2892  | 3260  | 2932  | 3138  | 2979  | 40- 50   | 2296        | 6612         | 49.6, 49.6 |
| 60       | 2458                  | 2825  | 2552  | 2842  | 2480  | 2750  | 2340  | 2756  | 50- 60   | 2624        | 9236         | 69.3, 69.3 |
| 70       | 899.7                 | 1732  | 1090  | 1884  | 1031  | 1695  | 957.3 | 1601  | 60- 70   | 2141        | 11377        | 85.4, 85.4 |
| 80       | 470.4                 | 782.7 | 507.4 | 797.5 | 510.7 | 761.8 | 496.5 | 738.1 | 70- 80   | 1085        | 12462        | 93.5, 93.5 |
| 90       | 173.7                 | 244.0 | 193.4 | 261.9 | 190.4 | 232.6 | 181.1 | 220.9 | 80- 90   | 497.9       | 12960        | 97.3, 97.3 |
| 100      | 90.00                 | 87.40 | 94.96 | 93.26 | 100.2 | 93.09 | 95.00 | 88.08 | 90-100   | 153.9       | 13114        | 98.4, 98.4 |
| 110      | 53.58                 | 49.82 | 57.60 | 52.01 | 59.69 | 52.88 | 58.21 | 50.77 | 100-110  | 74.52       | 13188        | 99, 99     |
| 120      | 34.71                 | 31.71 | 37.62 | 32.95 | 40.08 | 33.88 | 38.12 | 32.73 | 110-120  | 43.20       | 13231        | 99.3, 99.3 |
| 130      | 26.08                 | 26.89 | 26.34 | 26.92 | 28.24 | 28.87 | 28.16 | 28.81 | 120-130  | 26.52       | 13258        | 99.5, 99.5 |
| 140      | 26.85                 | 27.44 | 27.22 | 27.50 | 28.47 | 29.10 | 28.42 | 29.01 | 130-140  | 21.54       | 13280        | 99.7, 99.7 |
| 150      | 28.61                 | 28.58 | 28.53 | 28.60 | 29.45 | 29.48 | 29.40 | 29.45 | 140-150  | 17.91       | 13297        | 99.8, 99.8 |
| 160      | 29.74                 | 29.57 | 29.70 | 29.60 | 29.94 | 29.80 | 29.80 | 29.77 | 150-160  | 13.60       | 13311        | 99.9, 99.9 |
| 170      | 30.06                 | 30.09 | 30.16 | 30.17 | 30.02 | 29.99 | 29.88 | 30.02 | 160-170  | 8.472       | 13319        | 100, 100   |
| 180      | 30.09                 | 30.15 | 30.08 | 30.21 | 30.13 | 30.16 | 30.07 | 30.21 | 170-180  | 2.873       | 13322        | 100, 100   |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT:lm     |              |            |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.4DEG  
 Operators: DAMIN  
 Test Date: 17 April 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE G0-2000A\_V1 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 7.550m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

|                                                                                     |               |                         |
|-------------------------------------------------------------------------------------|---------------|-------------------------|
| Test:U:120.34V I:0.8081A P:96.836W PF:0.9957 Freq:59.98Hz<br>Lamp Flux:13322.4x1 lm |               |                         |
| NAME: TS-100W-NW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417002 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |



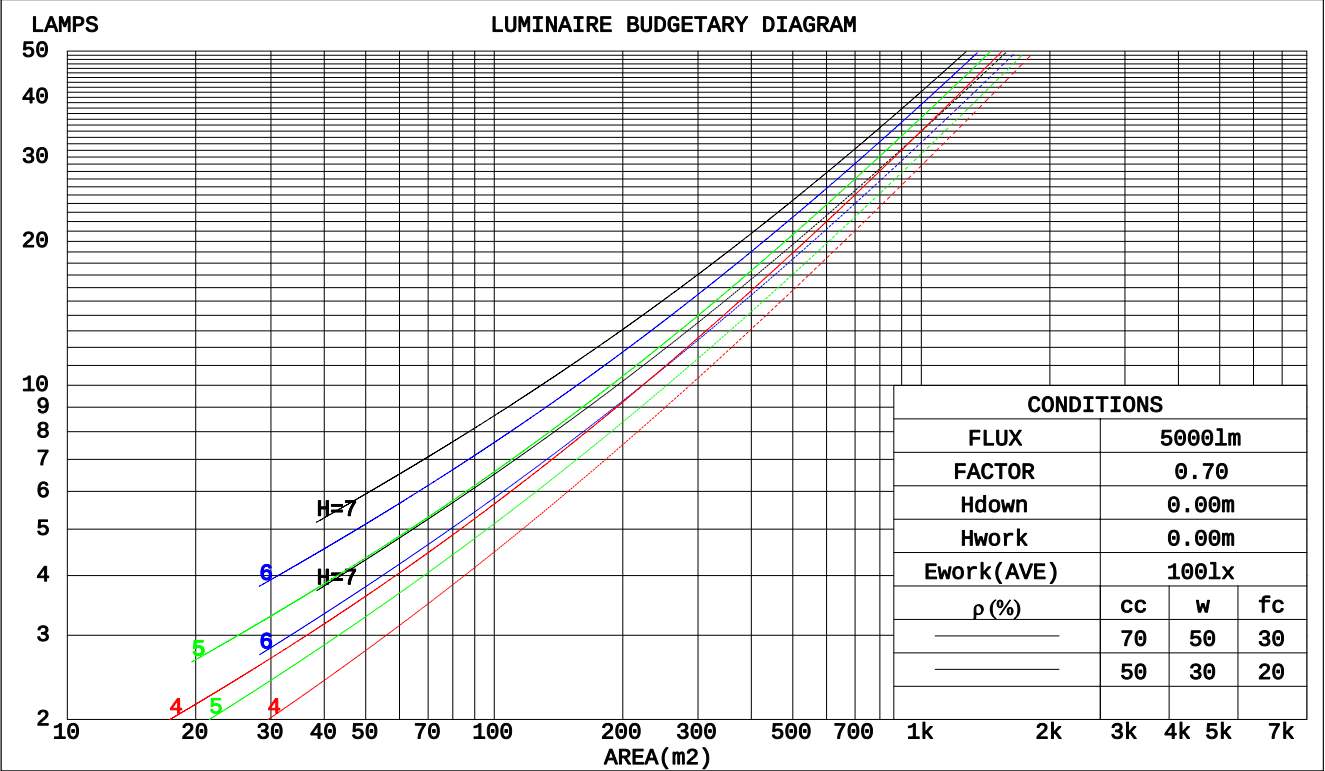
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.4DEG  
Operators:DAMIN  
Test Date:17 April 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.550m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                     |               |                         |
|-------------------------------------------------------------------------------------|---------------|-------------------------|
| Test:U:120.34V I:0.8081A P:96.836W PF:0.9957 Freq:59.98Hz<br>Lamp Flux:13322.4x1 lm |               |                         |
| NAME: TS-100W-NW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417002 |
| MFR.:                                                                               | SUR.: 280*280 | 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 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.4DEG  
Operators:DAMIN  
Test Date:17 April 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.550m [K=1.0000]  
Remarks:

## WEC AND CCEC

|                                                                                     |  |  |               |  |                         |
|-------------------------------------------------------------------------------------|--|--|---------------|--|-------------------------|
| Test:U:120.34V I:0.8081A P:96.836W PF:0.9957 Freq:59.98Hz<br>Lamp Flux:13322.4x1 lm |  |  |               |  |                         |
| NAME: TS-100W-NW                                                                    |  |  | TYPE:         |  | WEIGHT:                 |
| SPEC.: 280*280                                                                      |  |  | DIM.:         |  | SERIAL No.: 20240417002 |
| MFR.:                                                                               |  |  | SUR.: 280*280 |  | 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         | .353                  | .201 | .064 | .345 | .197 | .063 | .330                            | .189 | .061 | .316 | .183 | .059 | .304 | .176 | .057 |   |
| 2.0         | .325                  | .178 | .055 | .318 | .175 | .054 | .305                            | .169 | .053 | .292 | .164 | .051 | .281 | .159 | .050 |   |
| 3.0         | .297                  | .158 | .047 | .291 | .156 | .047 | .279                            | .151 | .046 | .268 | .147 | .045 | .258 | .143 | .044 |   |
| 4.0         | .272                  | .141 | .042 | .266 | .139 | .041 | .255                            | .135 | .040 | .245 | .132 | .040 | .236 | .128 | .039 |   |
| 5.0         | .249                  | .127 | .037 | .244 | .125 | .037 | .235                            | .122 | .036 | .226 | .119 | .035 | .217 | .116 | .035 |   |
| 6.0         | .230                  | .115 | .033 | .225 | .114 | .033 | .216                            | .111 | .032 | .208 | .108 | .032 | .201 | .106 | .031 |   |
| 7.0         | .212                  | .105 | .030 | .208 | .104 | .030 | .201                            | .101 | .029 | .193 | .099 | .029 | .186 | .097 | .028 |   |
| 8.0         | .197                  | .096 | .027 | .194 | .095 | .027 | .187                            | .093 | .027 | .180 | .091 | .026 | .174 | .089 | .026 |   |
| 9.0         | .184                  | .089 | .025 | .181 | .088 | .025 | .174                            | .086 | .024 | .168 | .084 | .024 | .163 | .083 | .024 |   |
| 10.0        | .172                  | .083 | .023 | .169 | .082 | .023 | .163                            | .080 | .023 | .158 | .078 | .022 | .153 | .077 | .022 |   |

| $\rho_{cc}$ | 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         | .211                  | .211 | .211 | .181 | .181 | .181 | .123                                       | .123 | .123 | .071 | .071 | .071 | .023 | .023 | .023 |   |  |
| 1.0         | .204                  | .177 | .152 | .175 | .152 | .131 | .120                                       | .104 | .090 | .069 | .060 | .053 | .022 | .019 | .017 |   |  |
| 2.0         | .198                  | .153 | .115 | .169 | .132 | .099 | .116                                       | .091 | .069 | .067 | .053 | .041 | .021 | .017 | .013 |   |  |
| 3.0         | .191                  | .136 | .092 | .164 | .117 | .079 | .112                                       | .081 | .056 | .065 | .047 | .033 | .021 | .015 | .011 |   |  |
| 4.0         | .184                  | .123 | .076 | .158 | .106 | .066 | .108                                       | .074 | .047 | .063 | .043 | .028 | .020 | .014 | .009 |   |  |
| 5.0         | .176                  | .113 | .066 | .151 | .097 | .057 | .104                                       | .068 | .040 | .060 | .040 | .024 | .019 | .013 | .008 |   |  |
| 6.0         | .169                  | .105 | .058 | .145 | .091 | .051 | .100                                       | .063 | .036 | .058 | .037 | .021 | .019 | .012 | .007 |   |  |
| 7.0         | .162                  | .098 | .053 | .139 | .085 | .046 | .096                                       | .059 | .033 | .056 | .035 | .019 | .018 | .011 | .006 |   |  |
| 8.0         | .155                  | .092 | .049 | .134 | .080 | .042 | .092                                       | .056 | .030 | .054 | .033 | .018 | .017 | .011 | .006 |   |  |
| 9.0         | .149                  | .087 | .046 | .128 | .076 | .040 | .089                                       | .053 | .028 | .052 | .031 | .017 | .017 | .010 | .006 |   |  |
| 10.0        | .143                  | .083 | .043 | .123 | .072 | .038 | .085                                       | .051 | .027 | .050 | .030 | .016 | .016 | .010 | .005 |   |  |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.4DEG  
Operators:DAMIN  
Test Date:17 April 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.550m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

|                                                                                     |                  |      |      |      |               |                |      |                         |      |      |
|-------------------------------------------------------------------------------------|------------------|------|------|------|---------------|----------------|------|-------------------------|------|------|
| Test:U:120.34V I:0.8081A P:96.836W PF:0.9957 Freq:59.98Hz<br>Lamp Flux:13322.4x1 lm |                  |      |      |      |               |                |      |                         |      |      |
| NAME: TS-100W-NW                                                                    |                  |      |      |      | TYPE:         |                |      | WEIGHT:                 |      |      |
| SPEC.: 280*280                                                                      |                  |      |      |      | DIM.:         |                |      | SERIAL No.: 20240417002 |      |      |
| MFR.:                                                                               |                  |      |      |      | SUR.: 280*280 |                |      | 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                                                                       | 27.9             | 29.5 | 28.2 | 29.8 | 30.0          | 28.0           | 29.7 | 28.4                    | 29.9 | 30.2 |
| 3H                                                                                  | 29.0             | 30.5 | 29.3 | 30.8 | 31.1          | 29.3           | 30.8 | 29.7                    | 31.1 | 31.4 |
| 4H                                                                                  | 29.3             | 30.7 | 29.6 | 31.0 | 31.3          | 29.7           | 31.1 | 30.0                    | 31.4 | 31.7 |
| 6H                                                                                  | 29.5             | 30.9 | 29.9 | 31.2 | 31.5          | 29.9           | 31.3 | 30.3                    | 31.6 | 32.0 |
| 8H                                                                                  | 29.7             | 31.0 | 30.1 | 31.3 | 31.7          | 30.1           | 31.4 | 30.5                    | 31.7 | 32.1 |
| 12H                                                                                 | 29.8             | 31.1 | 30.2 | 31.4 | 31.8          | 30.3           | 31.5 | 30.7                    | 31.9 | 32.2 |
| 4H 2H                                                                               | 28.9             | 30.3 | 29.2 | 30.6 | 30.9          | 29.0           | 30.4 | 29.3                    | 30.7 | 31.0 |
| 3H                                                                                  | 30.2             | 31.5 | 30.6 | 31.8 | 32.2          | 30.5           | 31.7 | 30.9                    | 32.1 | 32.5 |
| 4H                                                                                  | 30.6             | 31.8 | 31.1 | 32.2 | 32.6          | 31.0           | 32.2 | 31.4                    | 32.5 | 32.9 |
| 6H                                                                                  | 31.0             | 32.0 | 31.5 | 32.4 | 32.9          | 31.4           | 32.4 | 31.9                    | 32.8 | 33.3 |
| 8H                                                                                  | 31.2             | 32.2 | 31.7 | 32.6 | 33.0          | 31.6           | 32.6 | 32.1                    | 33.0 | 33.5 |
| 12H                                                                                 | 31.4             | 32.3 | 31.9 | 32.8 | 33.2          | 31.9           | 32.8 | 32.4                    | 33.2 | 33.7 |
| 8H 4H                                                                               | 31.0             | 32.0 | 31.5 | 32.4 | 32.8          | 31.3           | 32.3 | 31.8                    | 32.7 | 33.2 |
| 6H                                                                                  | 31.6             | 32.4 | 32.1 | 32.9 | 33.4          | 32.0           | 32.8 | 32.5                    | 33.3 | 33.7 |
| 8H                                                                                  | 32.0             | 32.7 | 32.5 | 33.1 | 33.7          | 32.4           | 33.1 | 32.9                    | 33.6 | 34.1 |
| 12H                                                                                 | 32.4             | 33.0 | 32.9 | 33.5 | 34.0          | 32.8           | 33.4 | 33.3                    | 33.9 | 34.5 |
| 12H 4H                                                                              | 31.1             | 31.9 | 31.5 | 32.4 | 32.8          | 31.4           | 32.2 | 31.8                    | 32.7 | 33.1 |
| 6H                                                                                  | 31.8             | 32.5 | 32.3 | 32.9 | 33.5          | 32.1           | 32.8 | 32.6                    | 33.3 | 33.8 |
| 8H                                                                                  | 32.2             | 32.8 | 32.7 | 33.3 | 33.8          | 32.6           | 33.2 | 33.1                    | 33.7 | 34.2 |
| Variations with the observer position at spacings(CIE Pub.117):                     |                  |      |      |      |               |                |      |                         |      |      |
| S = 1.0H                                                                            | + 0.1 / - 0.2    |      |      |      |               | + 0.1 / - 0.2  |      |                         |      |      |
| 1.5H                                                                                | + 0.4 / - 0.6    |      |      |      |               | + 0.3 / - 0.6  |      |                         |      |      |
| 2.0H                                                                                | + 0.6 / - 1.0    |      |      |      |               | + 0.6 / - 1.0  |      |                         |      |      |

CIE Pub.117, 13322 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 9.0)  
Area: 0.0784 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.4DEG  
Operators:DAMIN  
Test Date:17 April 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.550m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

|                                                                                     |               |                         |
|-------------------------------------------------------------------------------------|---------------|-------------------------|
| Test:U:120.34V I:0.8081A P:96.836W PF:0.9957 Freq:59.98Hz<br>Lamp Flux:13322.4x1 lm |               |                         |
| NAME: TS-100W-NW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417002 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |

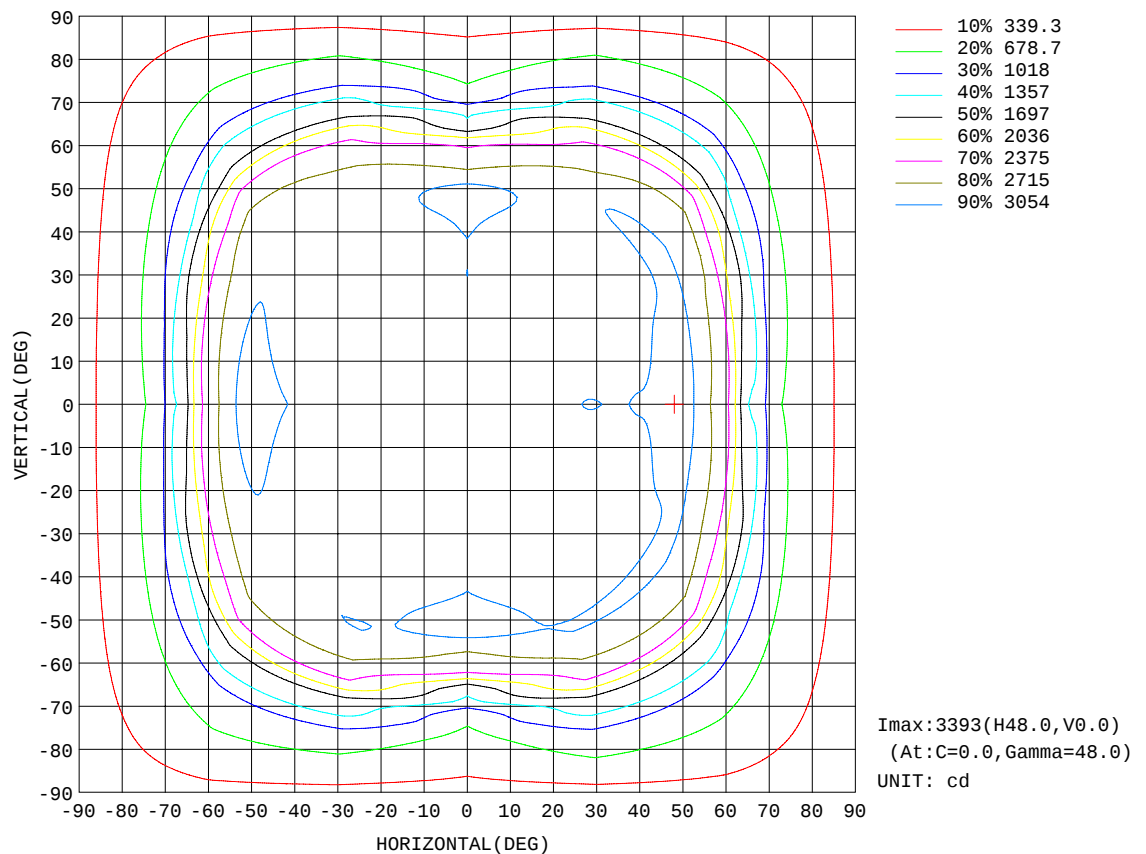
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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  | 30        | 49  | 37  | 30  | 48  | 36            | 29  | 22     |
| 0.80                             | 60                                                  | 47  | 39        | 59  | 47  | 39  | 57  | 46            | 38  | 31     |
| 1.00                             | 69                                                  | 57  | 48        | 68  | 56  | 48  | 65  | 58            | 47  | 39     |
| 1.25                             | 77                                                  | 65  | 57        | 75  | 64  | 56  | 72  | 62            | 55  | 47     |
| 1.50                             | 82                                                  | 71  | 63        | 80  | 70  | 62  | 77  | 68            | 61  | 52     |
| 2.00                             | 90                                                  | 80  | 73        | 88  | 79  | 72  | 84  | 76            | 70  | 61     |
| 2.50                             | 95                                                  | 86  | 78        | 92  | 84  | 77  | 88  | 81            | 75  | 66     |
| 3.00                             | 98                                                  | 90  | 84        | 96  | 89  | 83  | 91  | 85            | 80  | 71     |
| 4.00                             | 103                                                 | 96  | 91        | 100 | 94  | 89  | 96  | 91            | 86  | 76     |
| 5.00                             | 106                                                 | 100 | 95        | 103 | 98  | 94  | 98  | 94            | 90  | 80     |
| 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:25.4DEG  
 Operators:DAMIN  
 Test Date:17 April 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.550m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|                                                                                     |               |                         |
|-------------------------------------------------------------------------------------|---------------|-------------------------|
| Test:U:120.34V I:0.8081A P:96.836W PF:0.9957 Freq:59.98Hz<br>Lamp Flux:13322.4x1 lm |               |                         |
| NAME: TS-100W-NW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417002 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |

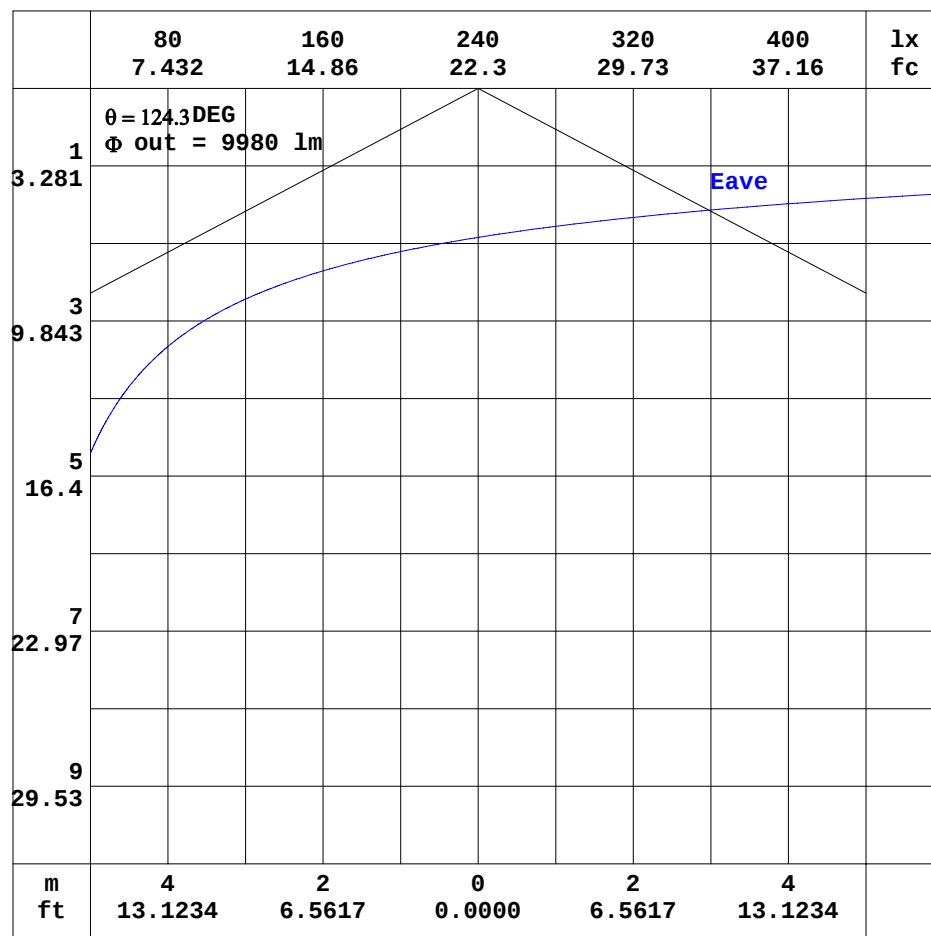


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.4DEG  
Operators: DAMIN  
Test Date: 17 April 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE G0-2000A\_V1 SYSTEM V2.00.446  
Humidity: 65.0%  
Test Distance: 7.550m [K=1.0000]  
Remarks:

## AAI CURVES

|                                                                                     |               |                         |
|-------------------------------------------------------------------------------------|---------------|-------------------------|
| Test:U:120.34V I:0.8081A P:96.836W PF:0.9957 Freq:59.98Hz<br>Lamp Flux:13322.4x1 lm |               |                         |
| NAME: TS-100W-NW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417002 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |



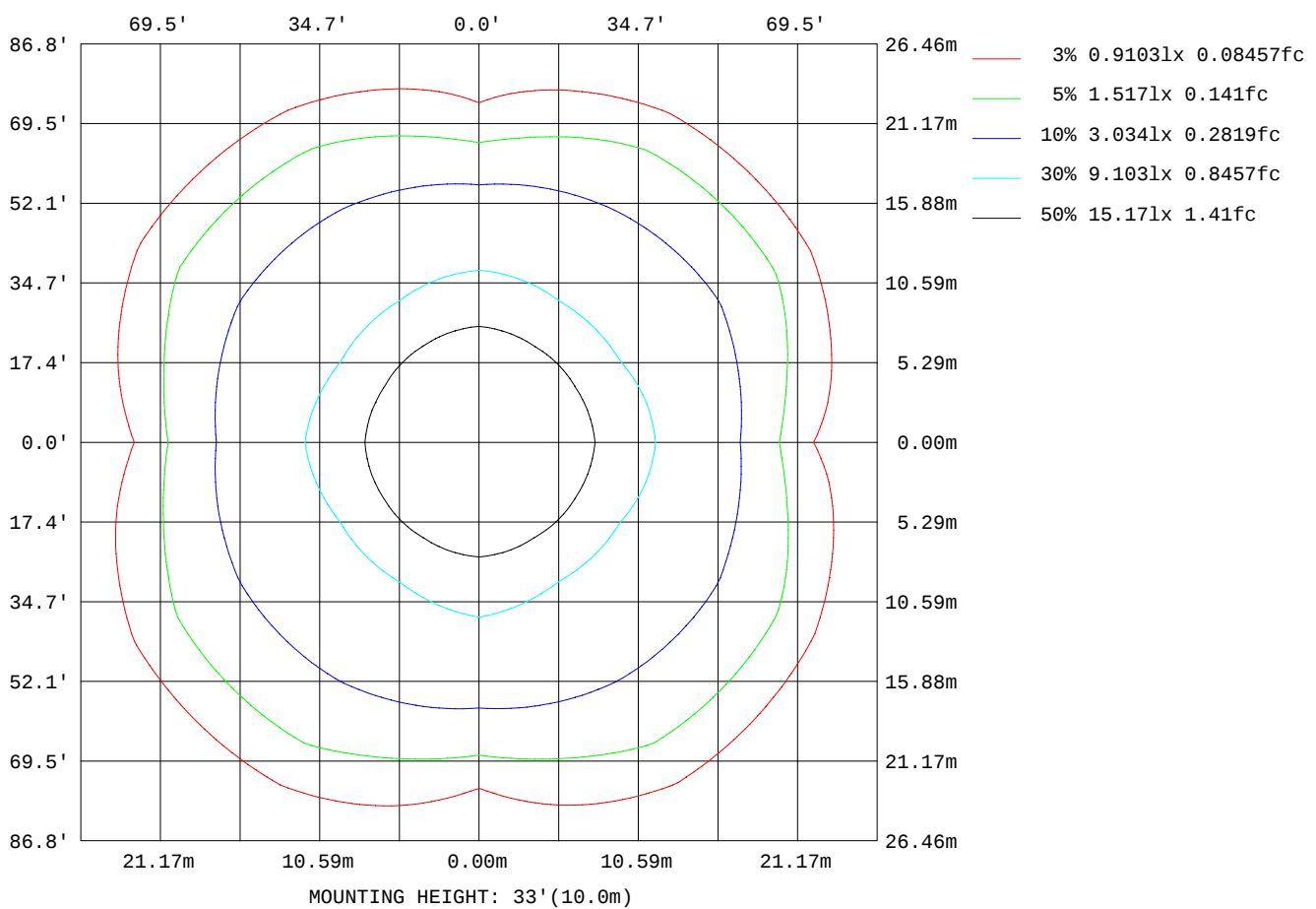
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.4DEG  
Operators: DAMIN  
Test Date: 17 April 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-2000A\_V1 SYSTEM V2.00.446  
Humidity: 65.0%  
Test Distance: 7.550m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

|                                                                                     |               |                         |
|-------------------------------------------------------------------------------------|---------------|-------------------------|
| Test:U:120.34V I:0.8081A P:96.836W PF:0.9957 Freq:59.98Hz<br>Lamp Flux:13322.4x1 lm |               |                         |
| NAME: TS-100W-NW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417002 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.4DEG  
 Operators: DAMIN  
 Test Date: 17 April 2024

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE G0-2000A\_V1 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 7.550m [K=1.0000]  
 Remarks:

## LED Avg.L Report

|                                                                                     |               |                         |
|-------------------------------------------------------------------------------------|---------------|-------------------------|
| Test:U:120.34V I:0.8081A P:96.836W PF:0.9957 Freq:59.98Hz<br>Lamp Flux:13322.4x1 lm |               |                         |
| NAME: TS-100W-NW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417002 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |

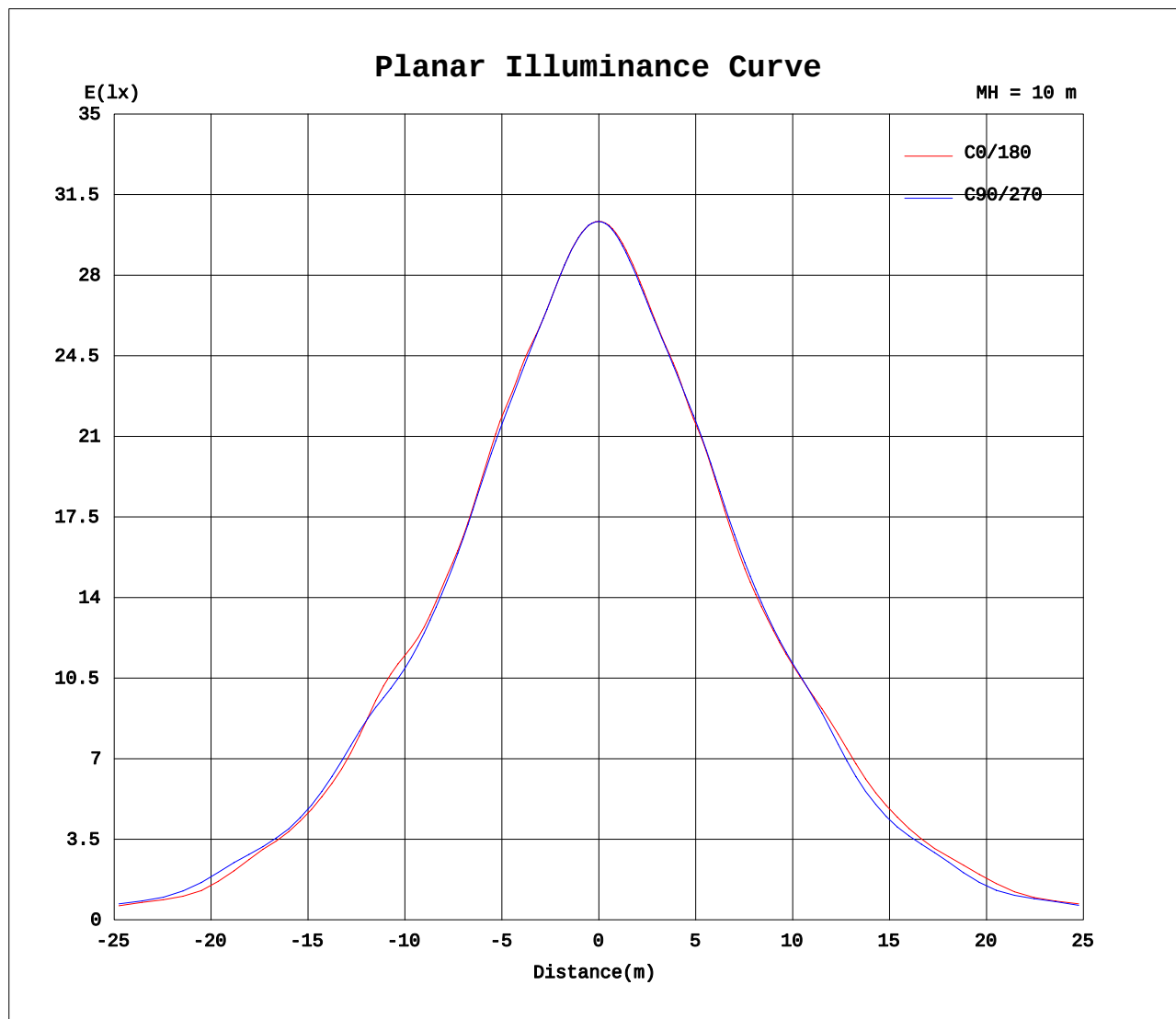
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 45132 |
| L_0~180(75)av  | 31013 |
| L_0~180(85)av  | 52291 |
| L_90~270(65)av | 46690 |
| L_90~270(75)av | 32297 |
| L_90~270(85)av | 53207 |
| L_45(65)av     | 78731 |
| L_45(75)av     | 61187 |
| L_45(85)av     | 80929 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.4DEG  
Operators:DAMIN  
Test Date:17 April 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.550m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.4DEG  
Operators: DAMIN  
Test Date: 17 April 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE G0-2000A\_V1 SYSTEM V2.00.446  
Humidity: 65.0%  
Test Distance: 7.550m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                     |  |  |  |  |  |  |  |  |               |  |  |  |  |  |                         |  |  |
|-------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|---------------|--|--|--|--|--|-------------------------|--|--|
| Test:U:120.34V I:0.8081A P:96.836W PF:0.9957 Freq:59.98Hz<br>Lamp Flux:13322.4x1 lm |  |  |  |  |  |  |  |  |               |  |  |  |  |  |                         |  |  |
| NAME: TS-100W-NW                                                                    |  |  |  |  |  |  |  |  | TYPE:         |  |  |  |  |  | WEIGHT:                 |  |  |
| SPEC.: 280*280                                                                      |  |  |  |  |  |  |  |  | DIM.:         |  |  |  |  |  | SERIAL No.: 20240417002 |  |  |
| MFR.:                                                                               |  |  |  |  |  |  |  |  | SUR.: 280*280 |  |  |  |  |  | Shielding Angle:        |  |  |

Table--1

UNIT: cd

| C(DEC)<br>γ (DEC) | C(DEC) |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |  |  |
|-------------------|--------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
|                   | 0      | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |  |  |  |  |  |  |
| 0                 | 3034   | 3035 | 3034 | 3034 | 3033 | 3033 | 3034 | 3035 | 3034 | 3034 | 3033 | 3033 |  |  |  |  |  |  |
| 5                 | 3019   | 3020 | 3019 | 3019 | 3017 | 3017 | 3019 | 3017 | 3014 | 3012 | 3015 | 3016 |  |  |  |  |  |  |
| 10                | 2980   | 2977 | 2974 | 2979 | 2974 | 2975 | 2980 | 2970 | 2965 | 2965 | 2964 | 2969 |  |  |  |  |  |  |
| 15                | 2941   | 2915 | 2914 | 2942 | 2917 | 2920 | 2945 | 2911 | 2911 | 2933 | 2904 | 2900 |  |  |  |  |  |  |
| 20                | 2979   | 2878 | 2875 | 2955 | 2886 | 2881 | 2962 | 2870 | 2877 | 2952 | 2864 | 2863 |  |  |  |  |  |  |
| 25                | 3027   | 2899 | 2862 | 2991 | 2878 | 2882 | 2990 | 2870 | 2878 | 3005 | 2864 | 2883 |  |  |  |  |  |  |
| 30                | 3062   | 2917 | 2876 | 3030 | 2895 | 2884 | 3042 | 2869 | 2906 | 3055 | 2898 | 2904 |  |  |  |  |  |  |
| 35                | 3027   | 2931 | 2893 | 3011 | 2904 | 2911 | 2999 | 2886 | 2926 | 3045 | 2915 | 2923 |  |  |  |  |  |  |
| 40                | 3078   | 2866 | 2853 | 3022 | 2863 | 2842 | 3026 | 2835 | 2886 | 3066 | 2876 | 2867 |  |  |  |  |  |  |
| 45                | 3250   | 2868 | 2830 | 3092 | 2838 | 2817 | 3132 | 2814 | 2871 | 3150 | 2876 | 2879 |  |  |  |  |  |  |
| 50                | 3306   | 2969 | 2885 | 3297 | 2893 | 2891 | 3260 | 2916 | 2947 | 3138 | 2950 | 3009 |  |  |  |  |  |  |
| 55                | 2838   | 3124 | 3076 | 2958 | 3065 | 3017 | 2927 | 3019 | 2964 | 2662 | 2940 | 3123 |  |  |  |  |  |  |
| 60                | 2458   | 2819 | 2830 | 2552 | 2846 | 2838 | 2480 | 2835 | 2666 | 2340 | 2641 | 2872 |  |  |  |  |  |  |
| 65                | 1370   | 2518 | 2561 | 1675 | 2556 | 2579 | 1620 | 2538 | 2349 | 1419 | 2315 | 2486 |  |  |  |  |  |  |
| 70                | 900    | 1657 | 1808 | 1090 | 1847 | 1921 | 1031 | 1779 | 1611 | 957  | 1577 | 1624 |  |  |  |  |  |  |
| 75                | 600    | 1105 | 1265 | 663  | 1287 | 1302 | 659  | 1154 | 1120 | 647  | 1090 | 1076 |  |  |  |  |  |  |
| 80                | 470    | 738  | 827  | 507  | 792  | 803  | 511  | 749  | 774  | 497  | 784  | 692  |  |  |  |  |  |  |
| 85                | 341    | 517  | 584  | 379  | 553  | 555  | 374  | 510  | 534  | 348  | 531  | 468  |  |  |  |  |  |  |
| 90                | 174    | 249  | 239  | 193  | 251  | 273  | 190  | 224  | 241  | 181  | 233  | 209  |  |  |  |  |  |  |
| 95                | 124    | 134  | 136  | 129  | 142  | 143  | 137  | 139  | 137  | 132  | 130  | 127  |  |  |  |  |  |  |
| 100               | 90.0   | 86.8 | 88.0 | 95.0 | 94.0 | 92.5 | 100  | 93.1 | 93.1 | 95.0 | 89.2 | 87.0 |  |  |  |  |  |  |
| 105               | 67.1   | 65.0 | 66.9 | 72.5 | 70.0 | 68.1 | 74.9 | 69.4 | 70.3 | 72.5 | 67.2 | 65.6 |  |  |  |  |  |  |
| 110               | 53.6   | 49.0 | 50.7 | 57.6 | 52.9 | 51.2 | 59.7 | 52.5 | 53.2 | 58.2 | 51.4 | 50.2 |  |  |  |  |  |  |
| 115               | 43.6   | 39.6 | 41.1 | 46.8 | 42.0 | 41.2 | 48.7 | 42.8 | 42.6 | 47.2 | 42.1 | 41.1 |  |  |  |  |  |  |
| 120               | 34.7   | 31.0 | 32.4 | 37.6 | 33.0 | 32.9 | 40.1 | 34.1 | 33.6 | 38.1 | 33.0 | 32.5 |  |  |  |  |  |  |
| 125               | 27.6   | 26.7 | 27.1 | 29.8 | 26.9 | 26.9 | 32.1 | 28.9 | 29.1 | 30.6 | 29.0 | 29.1 |  |  |  |  |  |  |
| 130               | 26.1   | 26.7 | 27.1 | 26.3 | 27.1 | 26.8 | 28.2 | 28.8 | 28.9 | 28.2 | 28.7 | 29.0 |  |  |  |  |  |  |
| 135               | 26.3   | 27.0 | 27.2 | 26.7 | 27.5 | 26.9 | 28.2 | 28.8 | 29.1 | 28.0 | 28.7 | 29.0 |  |  |  |  |  |  |
| 140               | 26.8   | 27.5 | 27.4 | 27.2 | 27.9 | 27.1 | 28.5 | 28.9 | 29.3 | 28.4 | 28.8 | 29.2 |  |  |  |  |  |  |
| 145               | 27.7   | 28.1 | 27.7 | 27.8 | 28.4 | 27.6 | 29.0 | 29.0 | 29.5 | 28.9 | 29.0 | 29.4 |  |  |  |  |  |  |
| 150               | 28.6   | 28.8 | 28.4 | 28.5 | 28.8 | 28.4 | 29.5 | 29.2 | 29.7 | 29.4 | 29.2 | 29.7 |  |  |  |  |  |  |
| 155               | 29.2   | 29.3 | 28.9 | 29.2 | 29.3 | 28.9 | 29.8 | 29.4 | 29.9 | 29.7 | 29.5 | 29.8 |  |  |  |  |  |  |
| 160               | 29.7   | 29.7 | 29.4 | 29.7 | 29.7 | 29.5 | 29.9 | 29.6 | 30.0 | 29.8 | 29.6 | 29.9 |  |  |  |  |  |  |
| 165               | 30.0   | 30.1 | 29.8 | 30.0 | 30.1 | 29.9 | 29.9 | 29.7 | 30.0 | 29.8 | 29.7 | 30.0 |  |  |  |  |  |  |
| 170               | 30.1   | 30.1 | 30.1 | 30.2 | 30.2 | 30.1 | 30.0 | 29.9 | 30.1 | 29.9 | 29.9 | 30.1 |  |  |  |  |  |  |
| 175               | 30.0   | 30.0 | 30.1 | 30.1 | 30.1 | 30.2 | 30.1 | 30.0 | 30.2 | 30.1 | 30.1 | 30.2 |  |  |  |  |  |  |
| 180               | 30.1   | 30.1 | 30.2 | 30.1 | 30.1 | 30.3 | 30.1 | 30.1 | 30.2 | 30.1 | 30.1 | 30.3 |  |  |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.4DEG  
Operators:DAMIN  
Test Date:17 April 2024

γ Range: 0 - 180DEG  
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Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.550m [K=1.0000]  
Remarks: