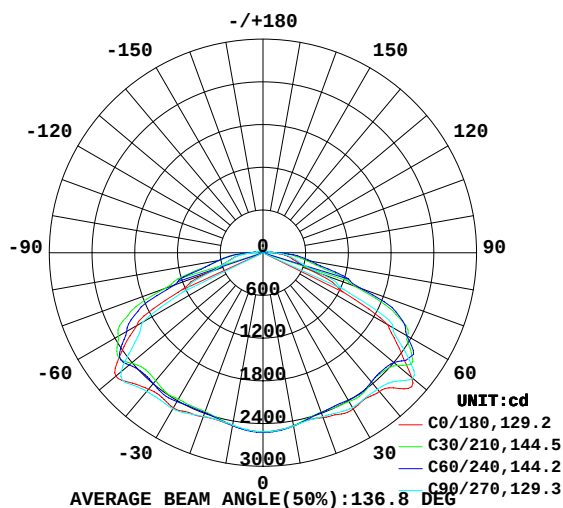


## LUMINAIRE PHOTOMETRIC TEST REPORT

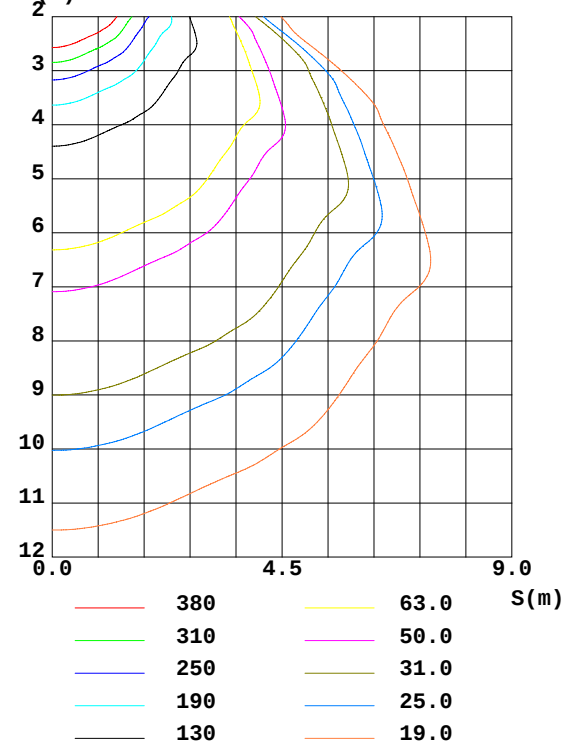
|                                                                                     |               |                         |
|-------------------------------------------------------------------------------------|---------------|-------------------------|
| Test:U:120.38V I:0.6550A P:78.383W PF:0.9940 Freq:59.98Hz<br>Lamp Flux:11025.8x1 lm |               |                         |
| NAME: TS-80W-NW                                                                     | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417002 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |

| DATA OF LAMP     |           | PHOTOMETRIC DATA Eff: 140.67 lm/W |        |                    |           |
|------------------|-----------|-----------------------------------|--------|--------------------|-----------|
| MODEL            | TS-80W-NW | I <sub>max</sub> (cd)             | 2812   | S/MH(C0/180)       | 1.51      |
| NOMINAL POWER(W) | 80        | LOR(%)                            | 100.0  | S/MH(C90/270)      | 1.54      |
| RATED VOLTAGE(V) | 120       | TOTAL FLUX(lm)                    | 11026  | η UP, DN(C0-180)   | 1.3, 49.1 |
| NOMINAL FLUX(lm) | 11025.8   | 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:

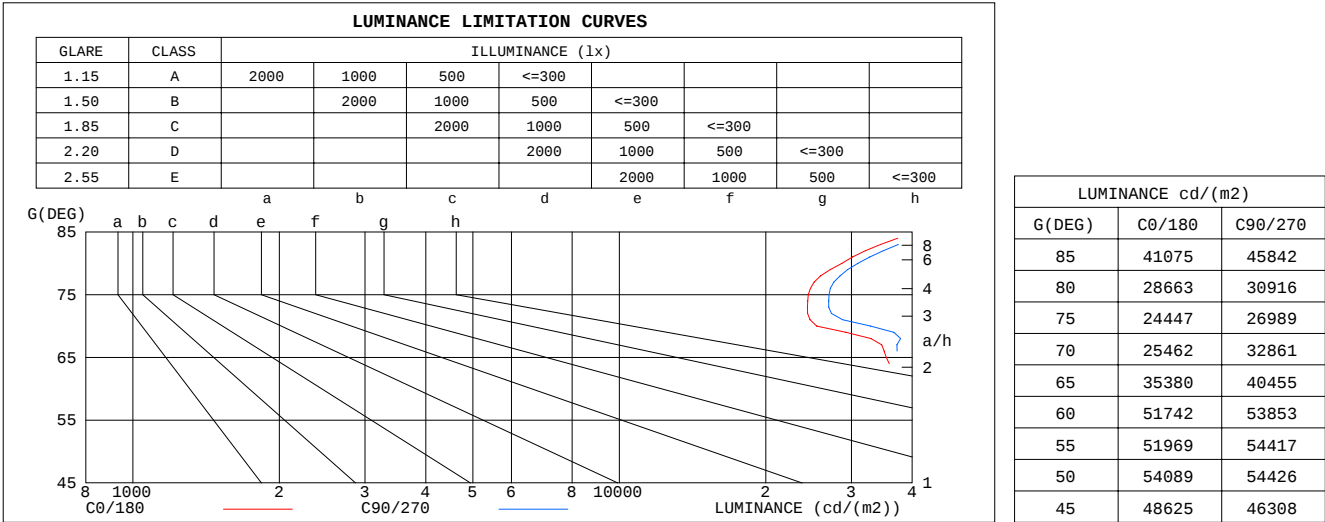
| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10       | 2466                  | 2469  | 2470  | 2476  | 2467  | 2462  | 2459  | 2469  | 0- 10    | 237.9       | 237.9        | 2.16, 2.16 |
| 20       | 2464                  | 2386  | 2449  | 2398  | 2451  | 2384  | 2447  | 2382  | 10- 20   | 687.7       | 925.7        | 8.4, 8.4   |
| 30       | 2533                  | 2403  | 2511  | 2403  | 2516  | 2395  | 2531  | 2412  | 20- 30   | 1122        | 2048         | 18.6, 18.6 |
| 40       | 2545                  | 2370  | 2505  | 2372  | 2503  | 2371  | 2542  | 2389  | 30- 40   | 1533        | 3581         | 32.5, 32.5 |
| 50       | 2726                  | 2432  | 2743  | 2408  | 2698  | 2435  | 2602  | 2484  | 40- 50   | 1906        | 5487         | 49.8, 49.8 |
| 60       | 2028                  | 2337  | 2111  | 2353  | 2044  | 2278  | 1950  | 2290  | 50- 60   | 2173        | 7661         | 69.5, 69.5 |
| 70       | 682.8                 | 1414  | 881.1 | 1532  | 835.8 | 1390  | 736.6 | 1318  | 60- 70   | 1764        | 9425         | 85.5, 85.5 |
| 80       | 390.2                 | 645.5 | 420.9 | 658.1 | 422.9 | 628.6 | 412.3 | 610.8 | 70- 80   | 891.1       | 10316        | 93.6, 93.6 |
| 90       | 142.9                 | 191.9 | 159.4 | 212.6 | 156.2 | 183.7 | 149.5 | 175.8 | 80- 90   | 410.9       | 10727        | 97.3, 97.3 |
| 100      | 74.18                 | 72.09 | 78.35 | 76.98 | 82.47 | 76.93 | 78.48 | 72.87 | 90-100   | 126.3       | 10853        | 98.4, 98.4 |
| 110      | 44.22                 | 41.15 | 47.56 | 43.02 | 49.25 | 43.73 | 48.17 | 42.07 | 100-110  | 61.57       | 10915        | 99, 99     |
| 120      | 28.62                 | 26.15 | 31.09 | 27.22 | 33.12 | 28.00 | 31.57 | 27.11 | 110-120  | 35.71       | 10951        | 99.3, 99.3 |
| 130      | 21.52                 | 22.20 | 21.78 | 22.26 | 23.32 | 23.85 | 23.30 | 23.84 | 120-130  | 21.91       | 10973        | 99.5, 99.5 |
| 140      | 22.14                 | 22.65 | 22.49 | 22.74 | 23.50 | 24.03 | 23.52 | 24.00 | 130-140  | 17.80       | 10990        | 99.7, 99.7 |
| 150      | 23.59                 | 23.58 | 23.56 | 23.64 | 24.29 | 24.36 | 24.32 | 24.37 | 140-150  | 14.80       | 11005        | 99.8, 99.8 |
| 160      | 24.55                 | 24.42 | 24.56 | 24.48 | 24.69 | 24.61 | 24.65 | 24.63 | 150-160  | 11.23       | 11016        | 99.9, 99.9 |
| 170      | 24.80                 | 24.83 | 24.91 | 24.98 | 24.76 | 24.79 | 24.72 | 24.85 | 160-170  | 7.002       | 11023        | 100, 100   |
| 180      | 24.83                 | 24.91 | 24.87 | 24.99 | 24.84 | 24.91 | 24.88 | 25.00 | 170-180  | 2.374       | 11026        | 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:120.38V I:0.6550A P:78.383W PF:0.9940 Freq:59.98Hz<br>Lamp Flux:11025.8x1 lm |               |                         |
| NAME: TS-80W-NW                                                                     | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417002 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |



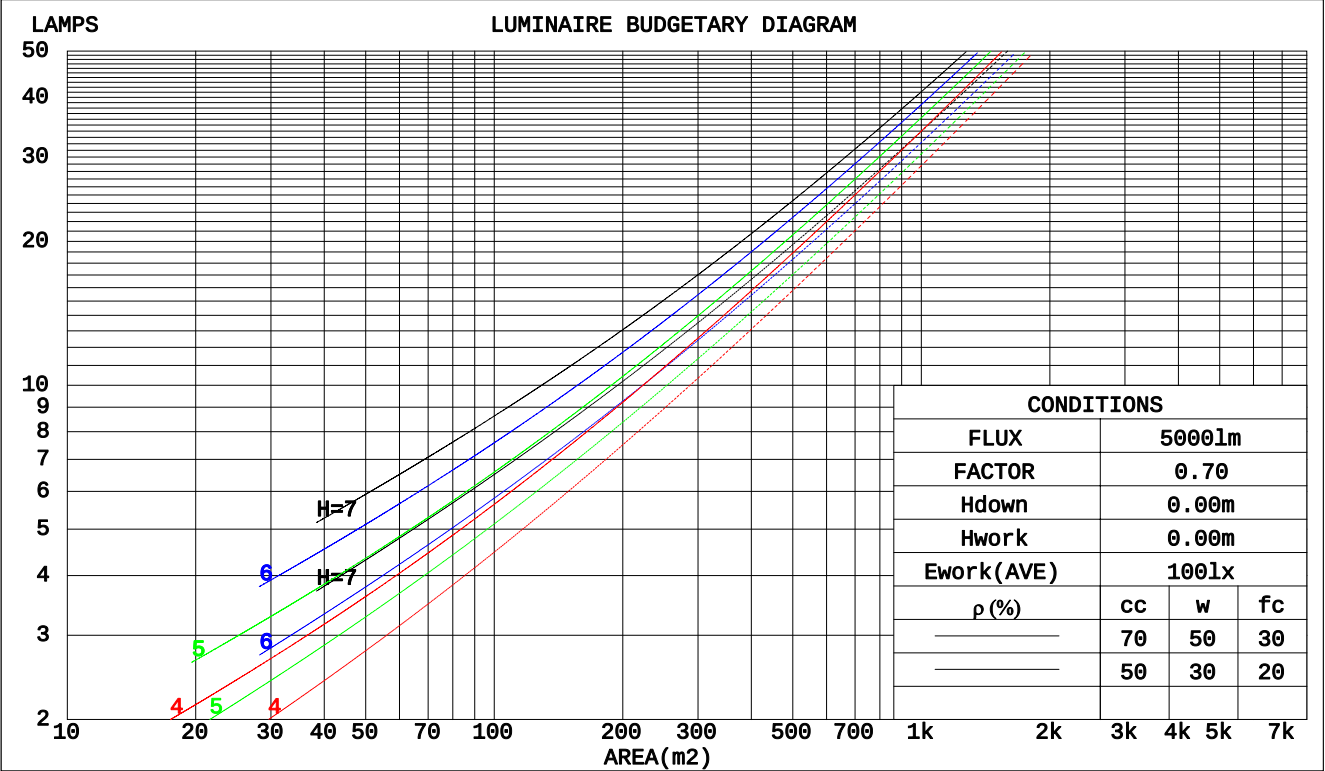
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.4DEG  
Operators:DAMIN  
Test Date:17 April 2024

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:120.38V I:0.6550A P:78.383W PF:0.9940 Freq:59.98Hz<br>Lamp Flux:11025.8x1 lm |               |                         |
| NAME: TS-80W-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:120.38V I:0.6550A P:78.383W PF:0.9940 Freq:59.98Hz<br>Lamp Flux:11025.8x1 lm |  |  |  |               |  |  |                         |  |
| NAME: TS-80W-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 | .062 | .330                            | .189 | .060 | .316 | .182 | .058 | .303 | .176 | .057 |   |
| 2.0         | .325                  | .178 | .055 | .318 | .175 | .054 | .304                            | .169 | .053 | .292 | .164 | .051 | .280 | .159 | .050 |   |
| 3.0         | .297                  | .158 | .047 | .291 | .156 | .047 | .279                            | .151 | .046 | .268 | .147 | .045 | .257 | .142 | .044 |   |
| 4.0         | .272                  | .141 | .041 | .266 | .139 | .041 | .255                            | .135 | .040 | .245 | .132 | .040 | .236 | .128 | .039 |   |
| 5.0         | .249                  | .127 | .037 | .244 | .125 | .036 | .234                            | .122 | .036 | .225 | .119 | .035 | .217 | .116 | .035 |   |
| 6.0         | .229                  | .115 | .033 | .225 | .114 | .033 | .216                            | .111 | .032 | .208 | .108 | .032 | .201 | .106 | .031 |   |
| 7.0         | .212                  | .105 | .030 | .208 | .104 | .030 | .200                            | .101 | .029 | .193 | .099 | .029 | .186 | .097 | .028 |   |
| 8.0         | .197                  | .096 | .027 | .193 | .095 | .027 | .186                            | .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 | .180 | .180 | .180 | .123                                       | .123 | .123 | .071 | .071 | .071 | .023 | .023 | .023 |   |  |
| 1.0         | .204                  | .177 | .152 | .175 | .152 | .131 | .119                                       | .104 | .090 | .069 | .060 | .053 | .022 | .019 | .017 |   |  |
| 2.0         | .198                  | .153 | .115 | .169 | .131 | .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 | .157 | .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                  | .104 | .058 | .145 | .090 | .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 | .133 | .080 | .042 | .092                                       | .056 | .030 | .054 | .033 | .018 | .017 | .011 | .006 |   |  |
| 9.0         | .149                  | .087 | .045 | .128 | .076 | .040 | .089                                       | .053 | .028 | .052 | .031 | .017 | .017 | .010 | .006 |   |  |
| 10.0        | .143                  | .083 | .043 | .123 | .072 | .037 | .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:120.38V I:0.6550A P:78.383W PF:0.9940 Freq:59.98Hz<br>Lamp Flux:11025.8x1 lm |               |                  |      |      |               |               |                |                         |      |      |      |
| NAME: TS-80W-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                                                                       | 27.2          | 28.8             | 27.5 | 29.1 | 29.4          | 27.4          | 29.0           | 27.7                    | 29.3 | 29.5 |      |
|                                                                                     | 3H            | 28.3             | 29.8 | 28.6 | 30.1          | 30.4          | 28.6           | 30.1                    | 29.0 | 30.4 | 30.7 |
|                                                                                     | 4H            | 28.6             | 30.0 | 29.0 | 30.3          | 30.6          | 29.0           | 30.4                    | 29.3 | 30.7 | 31.0 |
|                                                                                     | 6H            | 28.8             | 30.2 | 29.2 | 30.5          | 30.9          | 29.2           | 30.6                    | 29.6 | 30.9 | 31.3 |
|                                                                                     | 8H            | 29.0             | 30.3 | 29.4 | 30.6          | 31.0          | 29.4           | 30.7                    | 29.8 | 31.0 | 31.4 |
|                                                                                     | 12H           | 29.2             | 30.4 | 29.6 | 30.8          | 31.1          | 29.6           | 30.8                    | 30.0 | 31.2 | 31.6 |
| 4H                                                                                  | 2H            | 28.2             | 29.6 | 28.5 | 29.9          | 30.2          | 28.3           | 29.7                    | 28.7 | 30.0 | 30.4 |
|                                                                                     | 3H            | 29.5             | 30.8 | 29.9 | 31.1          | 31.5          | 29.8           | 31.1                    | 30.2 | 31.4 | 31.8 |
|                                                                                     | 4H            | 29.9             | 31.1 | 30.4 | 31.5          | 31.9          | 30.3           | 31.5                    | 30.7 | 31.8 | 32.2 |
|                                                                                     | 6H            | 30.3             | 31.3 | 30.8 | 31.7          | 32.2          | 30.7           | 31.7                    | 31.2 | 32.1 | 32.6 |
|                                                                                     | 8H            | 30.5             | 31.5 | 31.0 | 31.9          | 32.4          | 30.9           | 31.9                    | 31.4 | 32.3 | 32.8 |
|                                                                                     | 12H           | 30.8             | 31.6 | 31.2 | 32.1          | 32.5          | 31.2           | 32.1                    | 31.7 | 32.5 | 33.0 |
| 8H                                                                                  | 4H            | 30.3             | 31.3 | 30.8 | 31.7          | 32.1          | 30.6           | 31.6                    | 31.1 | 32.0 | 32.5 |
|                                                                                     | 6H            | 30.9             | 31.7 | 31.4 | 32.2          | 32.7          | 31.3           | 32.1                    | 31.8 | 32.6 | 33.0 |
|                                                                                     | 8H            | 31.3             | 32.0 | 31.8 | 32.5          | 33.0          | 31.7           | 32.4                    | 32.2 | 32.9 | 33.4 |
|                                                                                     | 12H           | 31.7             | 32.3 | 32.2 | 32.8          | 33.3          | 32.1           | 32.7                    | 32.6 | 33.2 | 33.8 |
| 12H                                                                                 | 4H            | 30.4             | 31.2 | 30.8 | 31.7          | 32.1          | 30.7           | 31.5                    | 31.1 | 32.0 | 32.4 |
|                                                                                     | 6H            | 31.1             | 31.8 | 31.6 | 32.3          | 32.8          | 31.4           | 32.1                    | 31.9 | 32.6 | 33.1 |
|                                                                                     | 8H            | 31.5             | 32.1 | 32.0 | 32.6          | 33.2          | 31.9           | 32.5                    | 32.4 | 33.0 | 33.5 |
| Variations with the observer position at spacings(CIE Pub.117):                     |               |                  |      |      |               |               |                |                         |      |      |      |
| S = 1.0H                                                                            | + 0.2 / - 0.2 |                  |      |      |               | + 0.1 / - 0.2 |                |                         |      |      |      |
| 1.5H                                                                                | + 0.3 / - 0.6 |                  |      |      |               | + 0.3 / - 0.7 |                |                         |      |      |      |
| 2.0H                                                                                | + 0.6 / - 1.0 |                  |      |      |               | + 0.6 / - 0.9 |                |                         |      |      |      |

CIE Pub.117, 11026 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 8.3)  
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:120.38V I:0.6550A P:78.383W PF:0.9940 Freq:59.98Hz<br>Lamp Flux:11025.8x1 lm |               |                         |
| NAME: TS-80W-NW                                                                     | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417002 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |

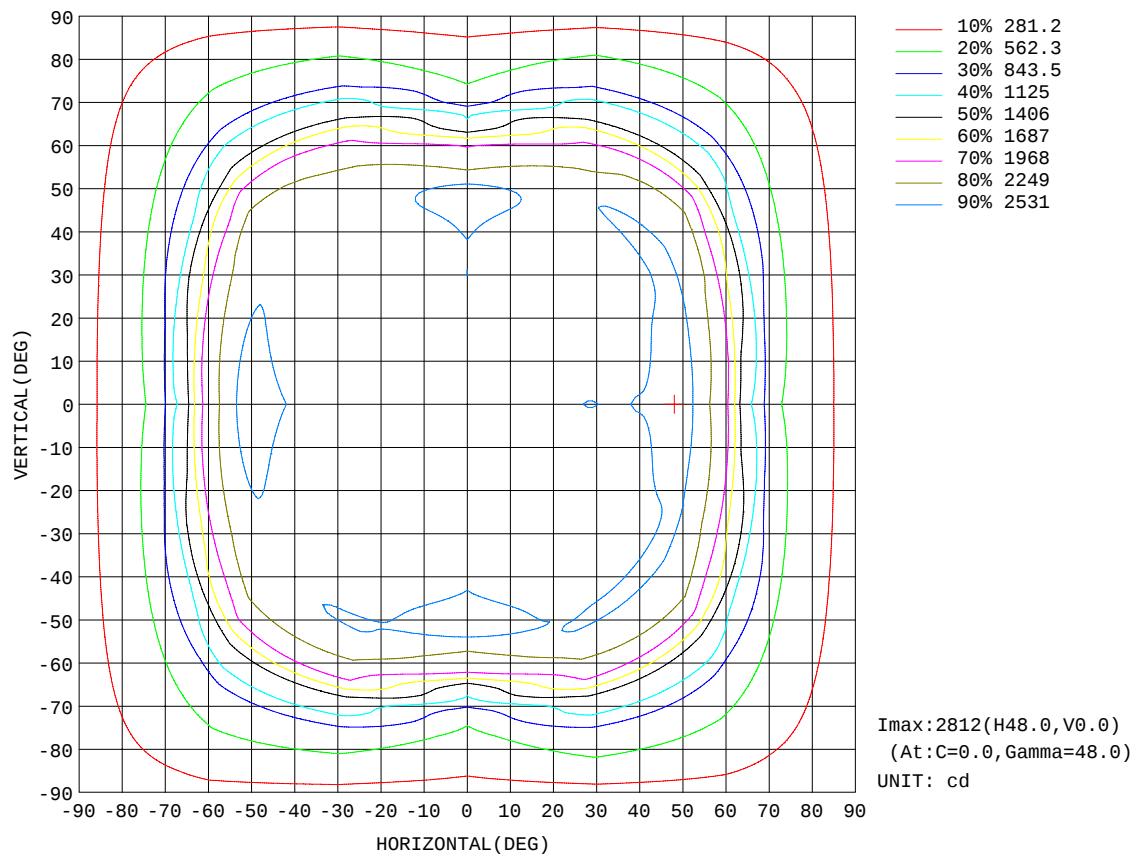
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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  | 79        | 92  | 84  | 78  | 88  | 81            | 75  | 66     |
| 3.00                             | 99                                                  | 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

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:

## ISOCANDELA DIAGRAM

|                                                                                     |               |                         |
|-------------------------------------------------------------------------------------|---------------|-------------------------|
| Test:U:120.38V I:0.6550A P:78.383W PF:0.9940 Freq:59.98Hz<br>Lamp Flux:11025.8x1 lm |               |                         |
| NAME: TS-80W-NW                                                                     | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417002 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |

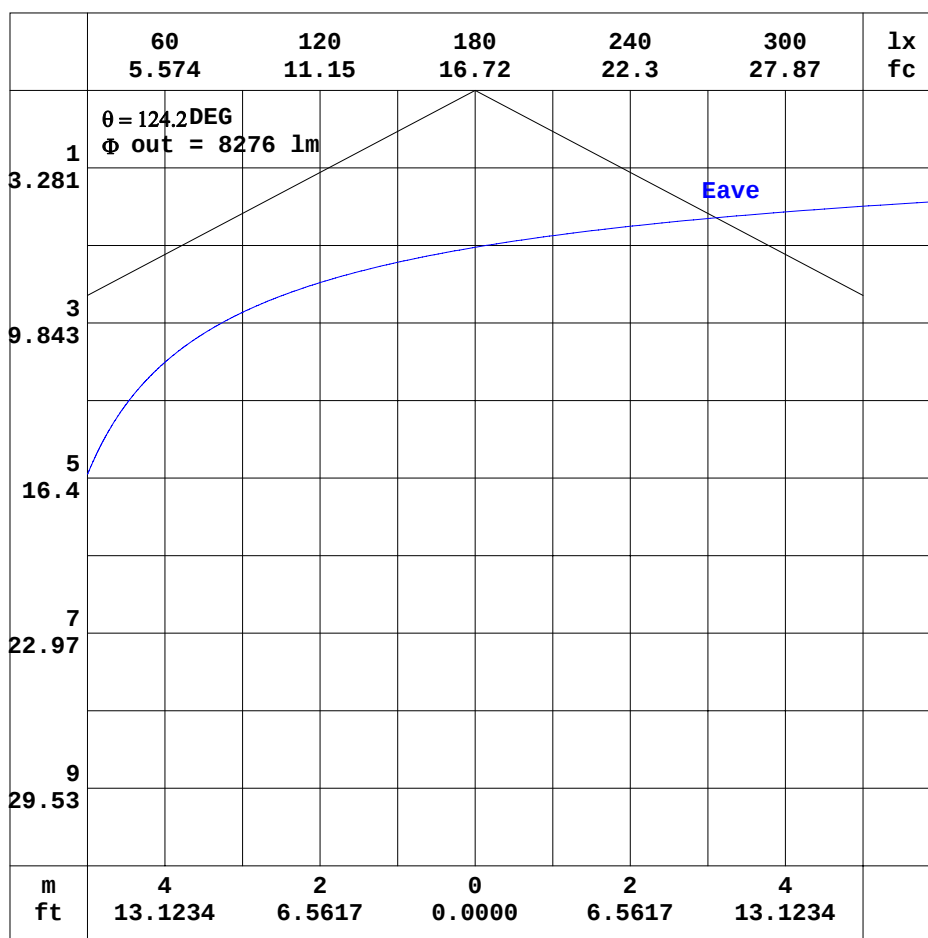


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.4DEG  
Operators:DAMIN  
Test Date:17 April 2024

$\gamma$  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:120.38V I:0.6550A P:78.383W PF:0.9940 Freq:59.98Hz<br>Lamp Flux:11025.8x1 lm |               |                         |
| NAME: TS-80W-NW                                                                     | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417002 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |



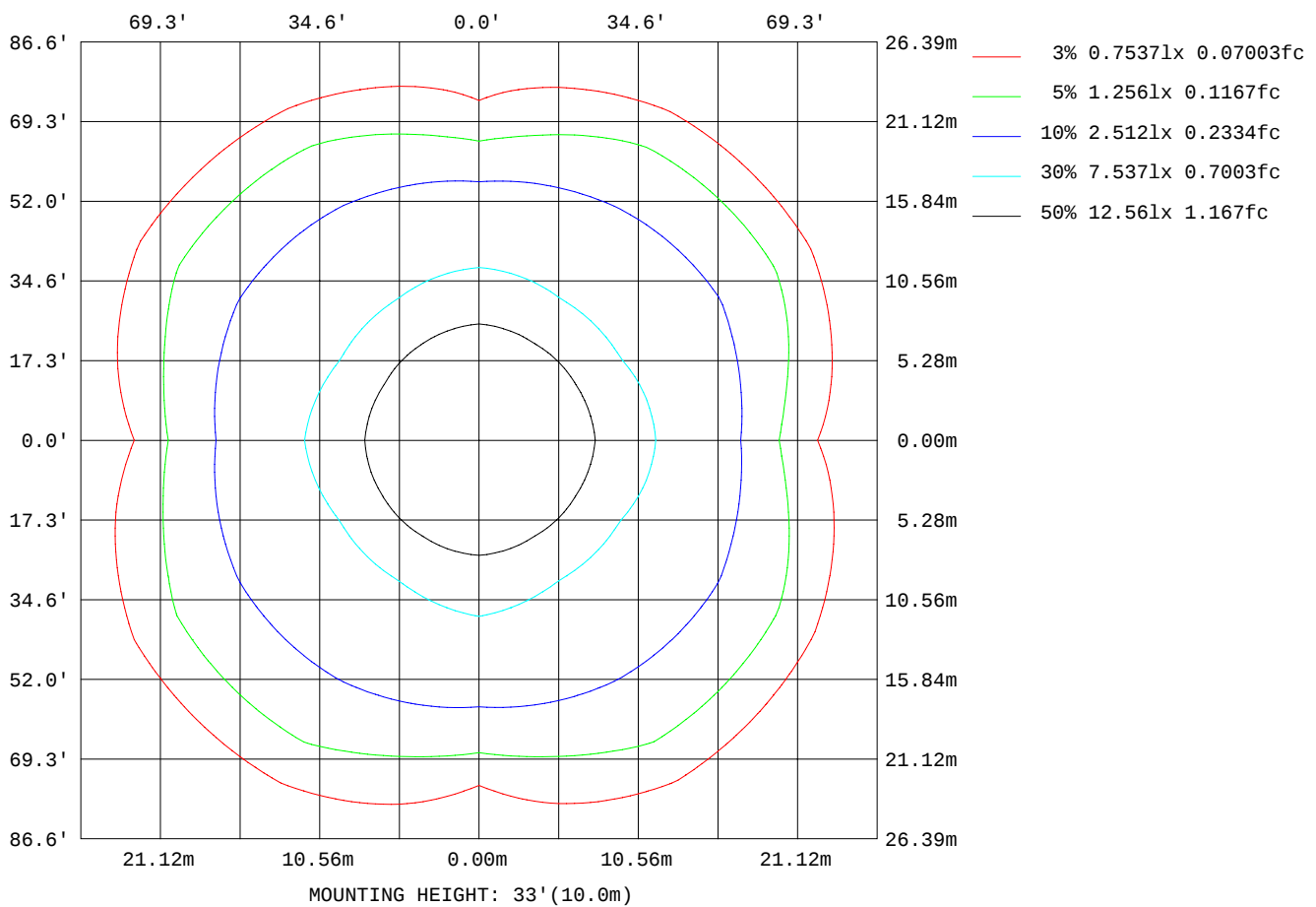
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

$\gamma$  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:

## ISOLUX DIAGRAM

|                                                                                     |               |                         |
|-------------------------------------------------------------------------------------|---------------|-------------------------|
| Test:U:120.38V I:0.6550A P:78.383W PF:0.9940 Freq:59.98Hz<br>Lamp Flux:11025.8x1 lm |               |                         |
| NAME: TS-80W-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:120.38V I:0.6550A P:78.383W PF:0.9940 Freq:59.98Hz<br>Lamp Flux:11025.8x1 lm |               |                         |
| NAME: TS-80W-NW                                                                     | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417002 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |

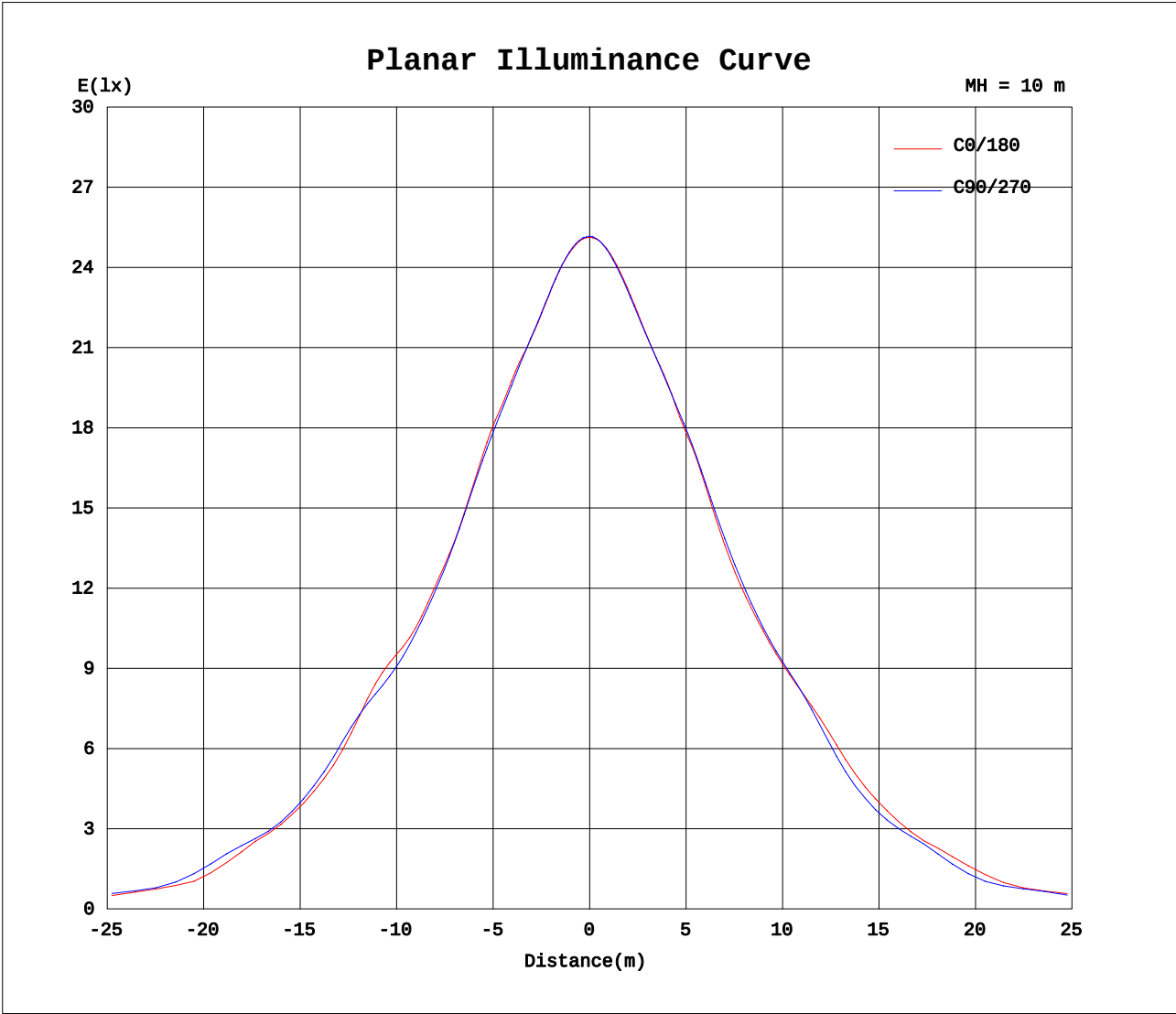
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 37531 |
| L_0~180(75)av  | 25638 |
| L_0~180(85)av  | 43100 |
| L_90~270(65)av | 37642 |
| L_90~270(75)av | 26702 |
| L_90~270(85)av | 43958 |
| L_45(65)av     | 65014 |
| L_45(75)av     | 50181 |
| L_45(85)av     | 66836 |

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

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:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                     |  |  |  |  |  |  |  |  |               |  |  |                         |  |  |  |  |  |
|-------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|---------------|--|--|-------------------------|--|--|--|--|--|
| Test:U:120.38V I:0.6550A P:78.383W PF:0.9940 Freq:59.98Hz<br>Lamp Flux:11025.8x1 lm |  |  |  |  |  |  |  |  |               |  |  |                         |  |  |  |  |  |
| NAME: TS-80W-NW                                                                     |  |  |  |  |  |  |  |  | TYPE:         |  |  | WEIGHT:                 |  |  |  |  |  |
| SPEC.: 280*280                                                                      |  |  |  |  |  |  |  |  | DIM.:         |  |  | SERIAL No.: 20240417002 |  |  |  |  |  |
| MFR.:                                                                               |  |  |  |  |  |  |  |  | SUR.: 280*280 |  |  | Shielding Angle:        |  |  |  |  |  |

Table--1

UNIT: cd

| C(DEG)<br>γ (DEG) |  | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |  |  |  |  |  |  |
|-------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0                 |  | 2512 | 2515 | 2524 | 2517 | 2525 | 2526 | 2512 | 2515 | 2524 | 2517 | 2525 | 2526 |  |  |  |  |  |  |
| 5                 |  | 2499 | 2503 | 2510 | 2504 | 2511 | 2513 | 2501 | 2498 | 2507 | 2497 | 2510 | 2512 |  |  |  |  |  |  |
| 10                |  | 2466 | 2466 | 2472 | 2470 | 2475 | 2477 | 2467 | 2461 | 2464 | 2459 | 2466 | 2472 |  |  |  |  |  |  |
| 15                |  | 2433 | 2414 | 2421 | 2439 | 2427 | 2431 | 2437 | 2410 | 2418 | 2431 | 2416 | 2414 |  |  |  |  |  |  |
| 20                |  | 2464 | 2383 | 2389 | 2449 | 2399 | 2397 | 2451 | 2376 | 2391 | 2447 | 2381 | 2383 |  |  |  |  |  |  |
| 25                |  | 2504 | 2399 | 2377 | 2478 | 2394 | 2397 | 2473 | 2375 | 2391 | 2491 | 2382 | 2399 |  |  |  |  |  |  |
| 30                |  | 2533 | 2415 | 2390 | 2511 | 2408 | 2399 | 2516 | 2375 | 2414 | 2531 | 2409 | 2416 |  |  |  |  |  |  |
| 35                |  | 2503 | 2425 | 2403 | 2494 | 2415 | 2420 | 2479 | 2388 | 2431 | 2522 | 2423 | 2431 |  |  |  |  |  |  |
| 40                |  | 2545 | 2370 | 2370 | 2505 | 2381 | 2362 | 2503 | 2345 | 2397 | 2542 | 2393 | 2385 |  |  |  |  |  |  |
| 45                |  | 2696 | 2373 | 2352 | 2567 | 2361 | 2342 | 2592 | 2329 | 2387 | 2617 | 2393 | 2395 |  |  |  |  |  |  |
| 50                |  | 2726 | 2462 | 2401 | 2743 | 2410 | 2406 | 2698 | 2415 | 2454 | 2602 | 2459 | 2508 |  |  |  |  |  |  |
| 55                |  | 2337 | 2559 | 2538 | 2447 | 2546 | 2509 | 2421 | 2497 | 2461 | 2198 | 2442 | 2584 |  |  |  |  |  |  |
| 60                |  | 2028 | 2338 | 2335 | 2111 | 2353 | 2354 | 2044 | 2344 | 2211 | 1950 | 2195 | 2385 |  |  |  |  |  |  |
| 65                |  | 1172 | 2063 | 2115 | 1340 | 2112 | 2136 | 1315 | 2093 | 1936 | 1154 | 1918 | 2053 |  |  |  |  |  |  |
| 70                |  | 683  | 1363 | 1464 | 881  | 1497 | 1567 | 836  | 1463 | 1318 | 737  | 1299 | 1336 |  |  |  |  |  |  |
| 75                |  | 496  | 905  | 1054 | 548  | 1064 | 1064 | 544  | 980  | 904  | 536  | 892  | 849  |  |  |  |  |  |  |
| 80                |  | 390  | 610  | 681  | 421  | 653  | 663  | 423  | 619  | 639  | 412  | 649  | 572  |  |  |  |  |  |  |
| 85                |  | 281  | 427  | 481  | 313  | 457  | 458  | 308  | 421  | 441  | 287  | 440  | 387  |  |  |  |  |  |  |
| 90                |  | 143  | 187  | 197  | 159  | 206  | 219  | 156  | 184  | 184  | 150  | 179  | 172  |  |  |  |  |  |  |
| 95                |  | 99.5 | 110  | 112  | 106  | 118  | 118  | 112  | 115  | 113  | 108  | 108  | 104  |  |  |  |  |  |  |
| 100               |  | 74.2 | 71.6 | 72.6 | 78.4 | 77.6 | 76.4 | 82.5 | 76.8 | 77.1 | 78.5 | 73.8 | 71.9 |  |  |  |  |  |  |
| 105               |  | 55.3 | 53.6 | 55.2 | 59.9 | 57.9 | 56.2 | 61.7 | 57.3 | 58.1 | 59.9 | 55.7 | 54.3 |  |  |  |  |  |  |
| 110               |  | 44.2 | 40.5 | 41.8 | 47.6 | 43.7 | 42.3 | 49.2 | 43.4 | 44.0 | 48.2 | 42.6 | 41.5 |  |  |  |  |  |  |
| 115               |  | 36.0 | 32.7 | 34.0 | 38.6 | 34.7 | 34.0 | 40.2 | 35.3 | 35.2 | 39.0 | 34.9 | 34.0 |  |  |  |  |  |  |
| 120               |  | 28.6 | 25.5 | 26.8 | 31.1 | 27.2 | 27.2 | 33.1 | 28.2 | 27.8 | 31.6 | 27.3 | 26.9 |  |  |  |  |  |  |
| 125               |  | 22.8 | 22.0 | 22.4 | 24.6 | 22.2 | 22.2 | 26.5 | 23.9 | 24.0 | 25.3 | 24.0 | 24.1 |  |  |  |  |  |  |
| 130               |  | 21.5 | 22.0 | 22.4 | 21.8 | 22.4 | 22.1 | 23.3 | 23.8 | 23.9 | 23.3 | 23.7 | 24.0 |  |  |  |  |  |  |
| 135               |  | 21.7 | 22.3 | 22.5 | 22.1 | 22.8 | 22.2 | 23.3 | 23.8 | 24.1 | 23.2 | 23.7 | 24.1 |  |  |  |  |  |  |
| 140               |  | 22.1 | 22.7 | 22.6 | 22.5 | 23.1 | 22.4 | 23.5 | 23.8 | 24.2 | 23.5 | 23.8 | 24.2 |  |  |  |  |  |  |
| 145               |  | 22.8 | 23.2 | 22.9 | 23.0 | 23.4 | 22.9 | 23.9 | 23.9 | 24.4 | 23.9 | 24.0 | 24.4 |  |  |  |  |  |  |
| 150               |  | 23.6 | 23.8 | 23.4 | 23.6 | 23.8 | 23.5 | 24.3 | 24.1 | 24.6 | 24.3 | 24.2 | 24.6 |  |  |  |  |  |  |
| 155               |  | 24.1 | 24.2 | 23.8 | 24.1 | 24.2 | 23.9 | 24.6 | 24.3 | 24.7 | 24.5 | 24.4 | 24.7 |  |  |  |  |  |  |
| 160               |  | 24.5 | 24.6 | 24.3 | 24.6 | 24.6 | 24.4 | 24.7 | 24.4 | 24.8 | 24.6 | 24.5 | 24.8 |  |  |  |  |  |  |
| 165               |  | 24.8 | 24.8 | 24.6 | 24.8 | 24.9 | 24.7 | 24.7 | 24.5 | 24.8 | 24.7 | 24.6 | 24.8 |  |  |  |  |  |  |
| 170               |  | 24.8 | 24.8 | 24.8 | 24.9 | 25.0 | 24.9 | 24.8 | 24.7 | 24.9 | 24.7 | 24.7 | 25.0 |  |  |  |  |  |  |
| 175               |  | 24.8 | 24.8 | 24.8 | 24.9 | 24.9 | 25.0 | 24.9 | 24.8 | 25.0 | 24.8 | 24.9 | 25.0 |  |  |  |  |  |  |
| 180               |  | 24.8 | 24.8 | 25.0 | 24.9 | 24.9 | 25.1 | 24.8 | 24.9 | 25.0 | 24.9 | 24.9 | 25.1 |  |  |  |  |  |  |

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: