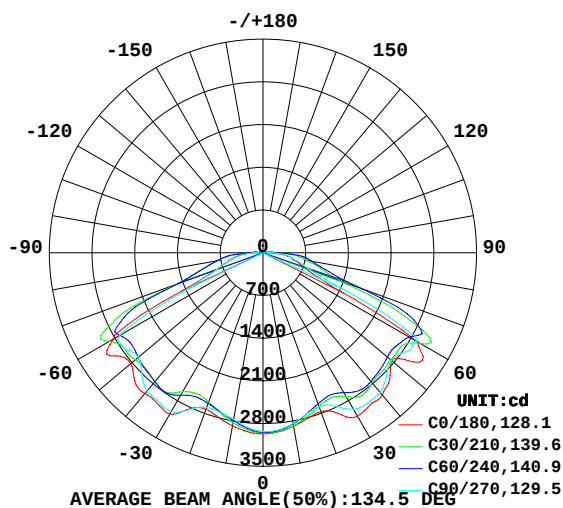


## LUMINAIRE PHOTOMETRIC TEST REPORT

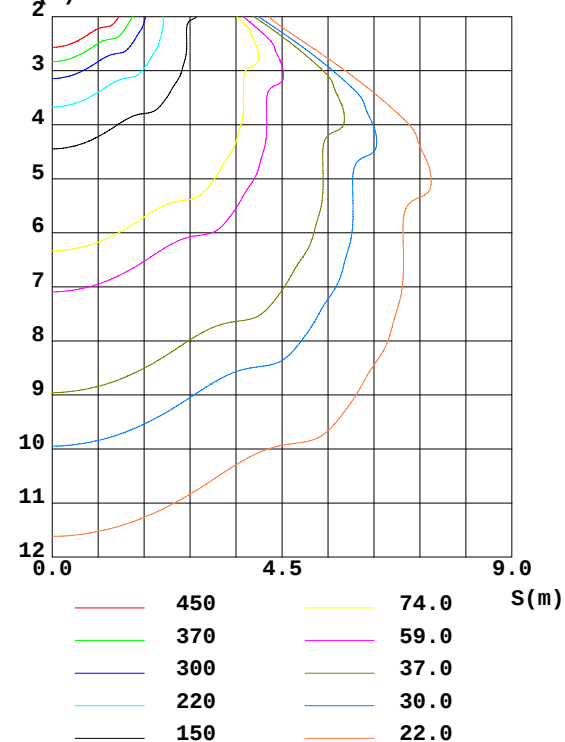
|                                                                                     |               |                         |
|-------------------------------------------------------------------------------------|---------------|-------------------------|
| Test:U:120.33V I:0.8370A P:100.31W PF:0.9959 Freq:59.98Hz<br>Lamp Flux:12675.2x1 lm |               |                         |
| NAME: TS-100W-WW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417001 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |

| DATA OF LAMP     |            | PHOTOMETRIC DATA Eff: 126.35 lm/W |        |                    |           |
|------------------|------------|-----------------------------------|--------|--------------------|-----------|
| MODEL            | TS-100W-WW | I <sub>max</sub> (cd)             | 3150   | S/MH(C0/180)       | 1.55      |
| NOMINAL POWER(W) | 100        | LOR(%)                            | 100.0  | S/MH(C90/270)      | 1.56      |
| RATED VOLTAGE(V) | 120        | TOTAL FLUX(lm)                    | 12675  | η UP, DN(C0-180)   | 1.3, 49.1 |
| NOMINAL FLUX(lm) | 12675.2    | CIE CLASS                         | DIRECT | η UP, DN(C180-360) | 1.3, 48.2 |
| LAMPS INSIDE     | 1          | η up(%)                           | 2.7    | CIBSE SHR NOM      | 1.50      |
| TEST VOLTAGE(V)  | 120        | η down(%)                         | 97.3   | CIBSE SHR MAX      | 1.55      |

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:

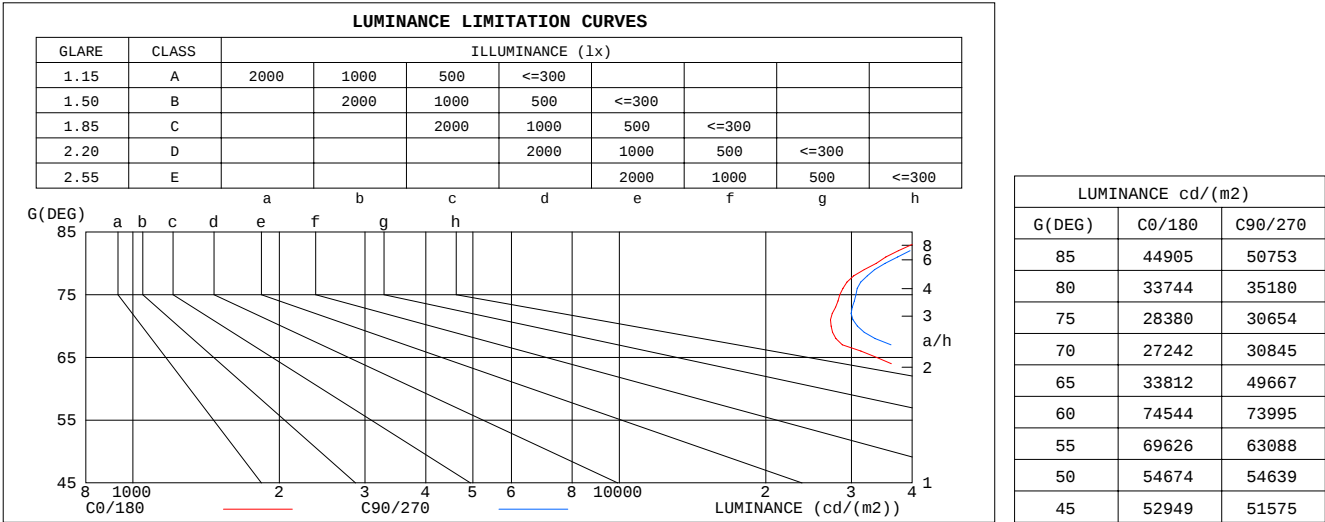
| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10       | 2886                  | 2862  | 2840  | 2831  | 2880  | 2811  | 2774  | 2783  | 0- 10    | 274.9       | 274.9        | 2.17, 2.17 |
| 20       | 2771                  | 2658  | 2685  | 2624  | 2730  | 2617  | 2697  | 2597  | 10- 20   | 773.2       | 1048         | 8.27, 8.27 |
| 30       | 3091                  | 2683  | 2963  | 2626  | 3052  | 2663  | 3004  | 2673  | 20- 30   | 1245        | 2293         | 18.1, 18.1 |
| 40       | 3041                  | 2769  | 2982  | 2735  | 3011  | 2755  | 2955  | 2742  | 30- 40   | 1785        | 4078         | 32.2, 32.2 |
| 50       | 2755                  | 2697  | 2753  | 2667  | 2830  | 2698  | 2666  | 2672  | 40- 50   | 2143        | 6221         | 49.1, 49.1 |
| 60       | 2922                  | 2871  | 2901  | 2779  | 2824  | 2804  | 2710  | 2855  | 50- 60   | 2478        | 8698         | 68.6, 68.6 |
| 70       | 730.5                 | 1535  | 827.1 | 1761  | 821.1 | 1497  | 803.2 | 1363  | 60- 70   | 2182        | 10880        | 85.8, 85.8 |
| 80       | 459.4                 | 771.8 | 478.9 | 787.0 | 492.0 | 766.6 | 468.1 | 735.3 | 70- 80   | 953.5       | 11833        | 93.4, 93.4 |
| 90       | 143.6                 | 257.6 | 160.8 | 270.6 | 164.0 | 240.3 | 150.1 | 225.6 | 80- 90   | 501.5       | 12335        | 97.3, 97.3 |
| 100      | 79.30                 | 81.62 | 82.00 | 86.77 | 87.76 | 87.53 | 80.86 | 81.18 | 90-100   | 144.4       | 12479        | 98.5, 98.5 |
| 110      | 50.02                 | 47.14 | 53.18 | 48.72 | 55.54 | 50.17 | 52.58 | 47.82 | 100-110  | 68.40       | 12548        | 99, 99     |
| 120      | 32.85                 | 30.33 | 35.23 | 31.37 | 38.05 | 32.18 | 35.57 | 30.90 | 110-120  | 40.74       | 12588        | 99.3, 99.3 |
| 130      | 25.06                 | 25.71 | 24.91 | 25.53 | 27.07 | 27.75 | 26.71 | 27.38 | 120-130  | 25.27       | 12614        | 99.5, 99.5 |
| 140      | 25.99                 | 26.35 | 25.93 | 26.17 | 27.65 | 27.92 | 27.26 | 27.63 | 130-140  | 20.56       | 12634        | 99.7, 99.7 |
| 150      | 27.55                 | 27.42 | 27.30 | 27.23 | 28.35 | 28.25 | 28.02 | 27.97 | 140-150  | 17.17       | 12651        | 99.8, 99.8 |
| 160      | 28.61                 | 28.22 | 28.27 | 28.02 | 28.87 | 28.47 | 28.35 | 28.25 | 150-160  | 12.98       | 12664        | 99.9, 99.9 |
| 170      | 28.82                 | 28.70 | 28.58 | 28.51 | 28.77 | 28.59 | 28.36 | 28.39 | 160-170  | 8.062       | 12672        | 100, 100   |
| 180      | 28.93                 | 28.79 | 28.68 | 28.55 | 29.05 | 28.80 | 28.63 | 28.57 | 170-180  | 2.734       | 12675        | 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:120.33V I:0.8370A P:100.31W PF:0.9959 Freq:59.98Hz<br>Lamp Flux:12675.2x1 lm |               |                         |
| NAME: TS-100W-WW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417001 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |



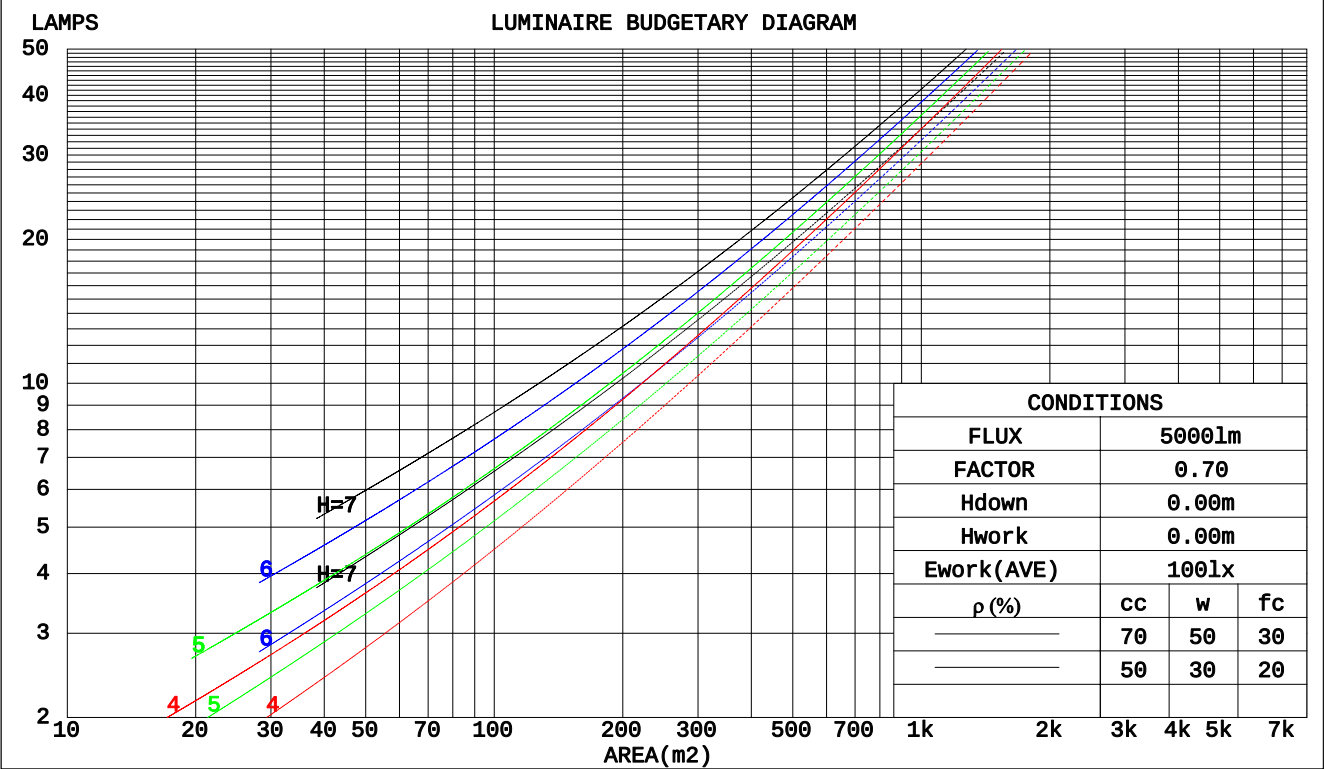
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.4DEG  
Operators:DAMIN  
Test Date:17 April 2024

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:120.33V I:0.8370A P:100.31W PF:0.9959 Freq:59.98Hz<br>Lamp Flux:12675.2x1 lm |               |                         |
| NAME: TS-100W-WW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417001 |
| 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 |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |     |     |     |     |
| 0.0  | 1.18                  | 1.18 | 1.18 | 1.15                            | 1.15 | 1.15 | 1.10 | 1.10 | 1.10 | 1.04 | 1.04 | 1.04 | .00 | .00 | .00 | .97 |
| 1.0  | 1.01                  | .96  | .91  | .98                             | .94  | .90  | .93  | .90  | .86  | .89  | .86  | .83  | .85 | .83 | .80 | .78 |
| 2.0  | .86                   | .78  | .72  | .84                             | .77  | .71  | .80  | .74  | .69  | .76  | .71  | .67  | .73 | .69 | .65 | .62 |
| 3.0  | .74                   | .65  | .58  | .72                             | .64  | .57  | .69  | .62  | .56  | .66  | .60  | .54  | .63 | .58 | .53 | .51 |
| 4.0  | .65                   | .55  | .48  | .63                             | .54  | .47  | .60  | .52  | .46  | .57  | .51  | .45  | .55 | .49 | .44 | .42 |
| 5.0  | .57                   | .47  | .40  | .56                             | .46  | .40  | .53  | .45  | .39  | .51  | .44  | .38  | .49 | .42 | .37 | .35 |
| 6.0  | .51                   | .41  | .34  | .49                             | .40  | .34  | .47  | .39  | .33  | .45  | .38  | .33  | .43 | .37 | .32 | .30 |
| 7.0  | .45                   | .36  | .29  | .44                             | .35  | .29  | .43  | .35  | .29  | .41  | .34  | .28  | .39 | .33 | .28 | .26 |
| 8.0  | .41                   | .32  | .26  | .40                             | .32  | .26  | .39  | .31  | .25  | .37  | .30  | .25  | .36 | .29 | .24 | .22 |
| 9.0  | .37                   | .29  | .23  | .37                             | .28  | .23  | .35  | .28  | .22  | .34  | .27  | .22  | .33 | .26 | .22 | .20 |
| 10.0 | .34                   | .26  | .20  | .34                             | .26  | .20  | .32  | .25  | .20  | .31  | .25  | .20  | .30 | .24 | .20 | .18 |



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:120.33V I:0.8370A P:100.31W PF:0.9959 Freq:59.98Hz<br>Lamp Flux:12675.2x1 lm |  |  |               |  |                         |
| NAME: TS-100W-WW                                                                    |  |  | TYPE:         |  | WEIGHT:                 |
| SPEC.: 280*280                                                                      |  |  | DIM.:         |  | SERIAL No.: 20240417001 |
| MFR.:                                                                               |  |  | SUR.: 280*280 |  | Shielding Angle:        |

| ρ <sub>cc</sub> | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|-----------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| ρ <sub>w</sub>  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρ <sub>fc</sub> | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR             | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0             |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0             | .355                  | .202 | .064 | .347 | .198 | .063 | .332                            | .190 | .061 | .318 | .184 | .059 | .306 | .177 | .057 |   |
| 2.0             | .326                  | .179 | .055 | .319 | .176 | .054 | .306                            | .170 | .053 | .293 | .165 | .052 | .282 | .160 | .050 |   |
| 3.0             | .298                  | .159 | .048 | .292 | .156 | .047 | .280                            | .152 | .046 | .269 | .147 | .045 | .259 | .143 | .044 |   |
| 4.0             | .273                  | .142 | .042 | .267 | .140 | .041 | .256                            | .136 | .041 | .246 | .132 | .040 | .237 | .129 | .039 |   |
| 5.0             | .250                  | .127 | .037 | .245 | .126 | .037 | .235                            | .123 | .036 | .227 | .120 | .036 | .218 | .117 | .035 |   |
| 6.0             | .230                  | .115 | .033 | .226 | .114 | .033 | .217                            | .111 | .032 | .209 | .109 | .032 | .202 | .106 | .032 |   |
| 7.0             | .213                  | .105 | .030 | .209 | .104 | .030 | .201                            | .102 | .029 | .194 | .099 | .029 | .187 | .097 | .029 |   |
| 8.0             | .198                  | .097 | .027 | .194 | .096 | .027 | .187                            | .093 | .027 | .181 | .091 | .026 | .174 | .090 | .026 |   |
| 9.0             | .184                  | .089 | .025 | .181 | .088 | .025 | .175                            | .086 | .024 | .169 | .085 | .024 | .163 | .083 | .024 |   |
| 10.0            | .173                  | .083 | .023 | .170 | .082 | .023 | .164                            | .080 | .023 | .158 | .079 | .022 | .153 | .077 | .022 |   |

| ρ <sub>CC</sub> | 80%                   |      |      | 70%  |      |      | 50%                                        |      |      | 30%  |      |      | 10%  |      |      | 0 |
|-----------------|-----------------------|------|------|------|------|------|--------------------------------------------|------|------|------|------|------|------|------|------|---|
| ρ <sub>W</sub>  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                                        | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρ <sub>fc</sub> | 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                  | .176 | .151 | .175 | .151 | .130 | .119                                       | .104 | .090 | .069 | .060 | .052 | .022 | .019 | .017 |   |
| 2.0             | .198                  | .153 | .115 | .169 | .131 | .099 | .116                                       | .091 | .069 | .067 | .053 | .040 | .021 | .017 | .013 |   |
| 3.0             | .191                  | .135 | .091 | .164 | .117 | .079 | .112                                       | .081 | .055 | .065 | .047 | .033 | .021 | .015 | .011 |   |
| 4.0             | .184                  | .122 | .076 | .158 | .106 | .066 | .108                                       | .074 | .046 | .063 | .043 | .027 | .020 | .014 | .009 |   |
| 5.0             | .176                  | .112 | .065 | .151 | .097 | .057 | .104                                       | .068 | .040 | .060 | .040 | .024 | .019 | .013 | .008 |   |
| 6.0             | .169                  | .104 | .058 | .145 | .090 | .050 | .100                                       | .063 | .036 | .058 | .037 | .021 | .019 | .012 | .007 |   |
| 7.0             | .162                  | .098 | .052 | .139 | .085 | .046 | .096                                       | .059 | .032 | .056 | .035 | .019 | .018 | .011 | .006 |   |
| 8.0             | .155                  | .092 | .048 | .134 | .080 | .042 | .092                                       | .056 | .030 | .054 | .033 | .018 | .017 | .011 | .006 |   |
| 9.0             | .149                  | .087 | .045 | .128 | .075 | .039 | .089                                       | .053 | .028 | .052 | .031 | .017 | .017 | .010 | .006 |   |
| 10.0            | .143                  | .083 | .043 | .123 | .072 | .037 | .085                                       | .050 | .026 | .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:120.33V I:0.8370A P:100.31W PF:0.9959 Freq:59.98Hz<br>Lamp Flux:12675.2x1 lm |                  |      |      |      |               |                |      |                         |      |      |
| NAME: TS-100W-WW                                                                    |                  |      |      |      | TYPE:         |                |      | WEIGHT:                 |      |      |
| SPEC.: 280*280                                                                      |                  |      |      |      | DIM.:         |                |      | SERIAL No.: 20240417001 |      |      |
| 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                                                                       | 28.2             | 29.8 | 28.5 | 30.1 | 30.4          | 28.2           | 29.8 | 28.5                    | 30.0 | 30.3 |
| 3H                                                                                  | 29.0             | 30.5 | 29.3 | 30.8 | 31.1          | 29.3           | 30.8 | 29.6                    | 31.1 | 31.4 |
| 4H                                                                                  | 29.2             | 30.6 | 29.6 | 31.0 | 31.3          | 29.5           | 31.0 | 29.9                    | 31.3 | 31.6 |
| 6H                                                                                  | 29.5             | 30.8 | 29.8 | 31.1 | 31.5          | 29.8           | 31.2 | 30.2                    | 31.5 | 31.8 |
| 8H                                                                                  | 29.6             | 30.9 | 30.0 | 31.3 | 31.6          | 30.0           | 31.3 | 30.3                    | 31.6 | 32.0 |
| 12H                                                                                 | 29.8             | 31.0 | 30.2 | 31.4 | 31.7          | 30.1           | 31.4 | 30.5                    | 31.7 | 32.1 |
| 4H 2H                                                                               | 29.2             | 30.7 | 29.6 | 31.0 | 31.3          | 29.2           | 30.6 | 29.6                    | 30.9 | 31.3 |
| 3H                                                                                  | 30.1             | 31.4 | 30.5 | 31.8 | 32.1          | 30.5           | 31.8 | 30.9                    | 32.1 | 32.5 |
| 4H                                                                                  | 30.5             | 31.6 | 30.9 | 32.0 | 32.4          | 30.9           | 32.0 | 31.3                    | 32.4 | 32.8 |
| 6H                                                                                  | 30.9             | 31.9 | 31.3 | 32.3 | 32.7          | 31.3           | 32.3 | 31.7                    | 32.7 | 33.1 |
| 8H                                                                                  | 31.1             | 32.1 | 31.6 | 32.5 | 32.9          | 31.5           | 32.5 | 32.0                    | 32.9 | 33.3 |
| 12H                                                                                 | 31.3             | 32.2 | 31.8 | 32.7 | 33.1          | 31.8           | 32.6 | 32.2                    | 33.1 | 33.6 |
| 8H 4H                                                                               | 30.8             | 31.8 | 31.3 | 32.2 | 32.6          | 31.1           | 32.1 | 31.6                    | 32.5 | 33.0 |
| 6H                                                                                  | 31.5             | 32.3 | 32.0 | 32.7 | 33.2          | 31.8           | 32.6 | 32.3                    | 33.1 | 33.6 |
| 8H                                                                                  | 31.9             | 32.6 | 32.4 | 33.0 | 33.6          | 32.2           | 33.0 | 32.8                    | 33.4 | 33.9 |
| 12H                                                                                 | 32.3             | 32.9 | 32.8 | 33.4 | 33.9          | 32.7           | 33.3 | 33.2                    | 33.8 | 34.4 |
| 12H 4H                                                                              | 30.9             | 31.7 | 31.3 | 32.2 | 32.6          | 31.2           | 32.0 | 31.6                    | 32.5 | 32.9 |
| 6H                                                                                  | 31.6             | 32.3 | 32.1 | 32.8 | 33.3          | 32.0           | 32.7 | 32.5                    | 33.1 | 33.6 |
| 8H                                                                                  | 32.1             | 32.7 | 32.6 | 33.2 | 33.8          | 32.5           | 33.1 | 33.0                    | 33.6 | 34.1 |
| Variations with the observer position at spacings(CIE Pub.117):                     |                  |      |      |      |               |                |      |                         |      |      |
| S = 1.0H                                                                            | + 0.2 / - 0.2    |      |      |      |               | + 0.2 / - 0.3  |      |                         |      |      |
| 1.5H                                                                                | + 0.3 / - 0.7    |      |      |      |               | + 0.3 / - 0.5  |      |                         |      |      |
| 2.0H                                                                                | + 1.1 / - 1.2    |      |      |      |               | + 1.0 / - 1.2  |      |                         |      |      |

CIE Pub.117, 12675 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 8.8)  
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:120.33V I:0.8370A P:100.31W PF:0.9959 Freq:59.98Hz<br>Lamp Flux:12675.2x1 lm |               |                         |
| NAME: TS-100W-WW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417001 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |

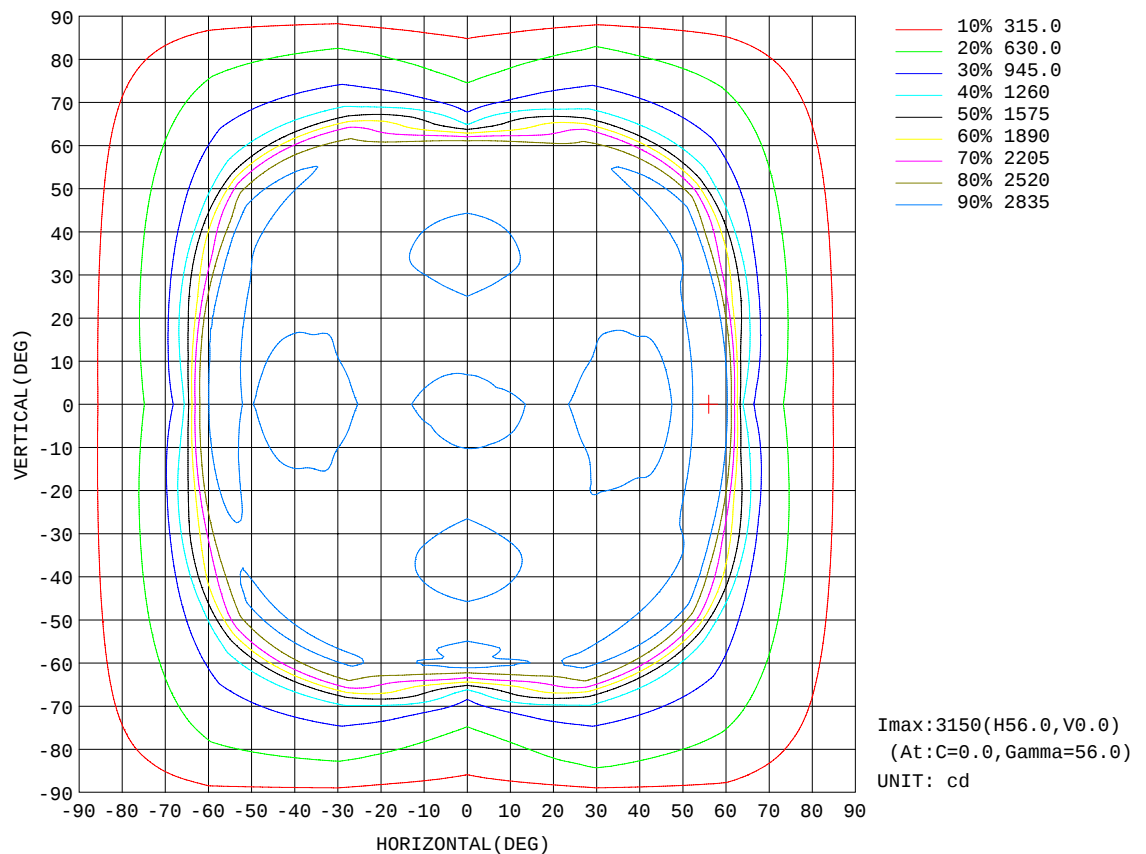
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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  | 29  | 48  | 36            | 29  | 22     |
| 0.80                             | 60                                                  | 47  | 39        | 59  | 47  | 39  | 57  | 46            | 38  | 30     |
| 1.00                             | 69                                                  | 56  | 48        | 68  | 56  | 48  | 65  | 57            | 47  | 39     |
| 1.25                             | 77                                                  | 65  | 56        | 75  | 64  | 56  | 72  | 62            | 55  | 47     |
| 1.50                             | 82                                                  | 71  | 63        | 80  | 70  | 62  | 77  | 68            | 61  | 52     |
| 2.00                             | 90                                                  | 80  | 72        | 88  | 79  | 72  | 84  | 76            | 70  | 61     |
| 2.50                             | 95                                                  | 85  | 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

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:120.33V I:0.8370A P:100.31W PF:0.9959 Freq:59.98Hz<br>Lamp Flux:12675.2x1 lm |               |                         |
| NAME: TS-100W-WW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417001 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |

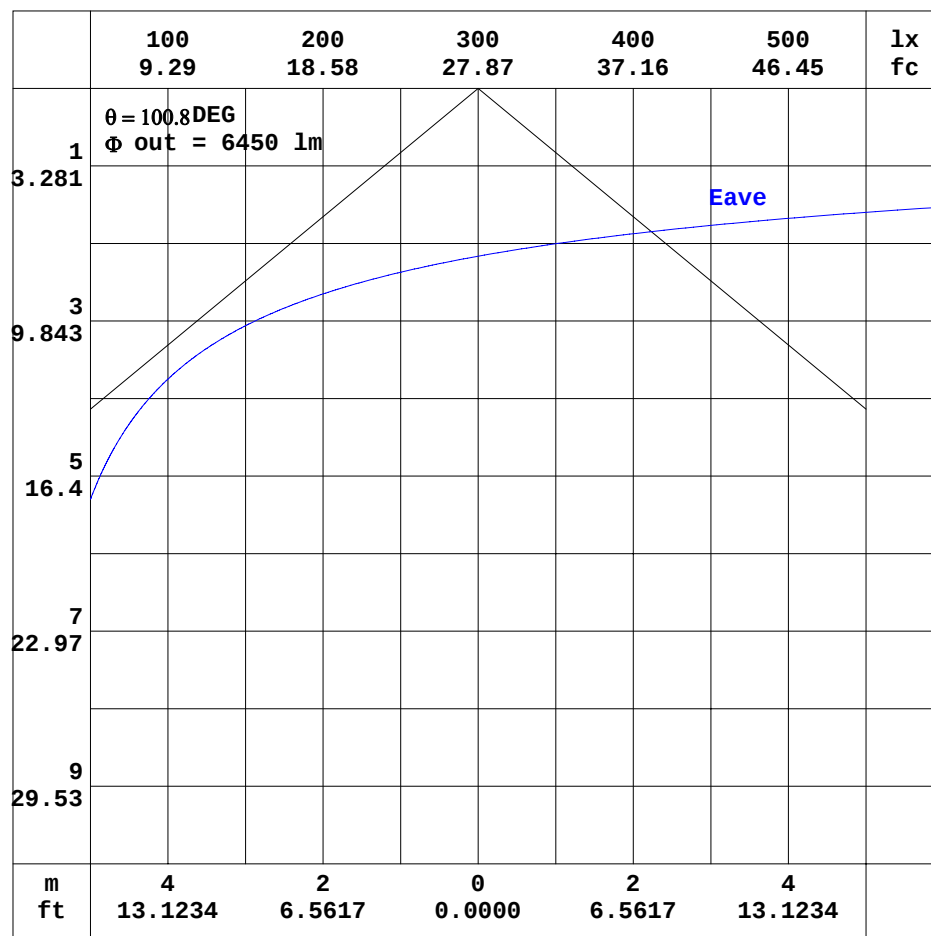


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.4DEG  
Operators: DAMIN  
Test Date: 17 April 2024

$\gamma$  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:

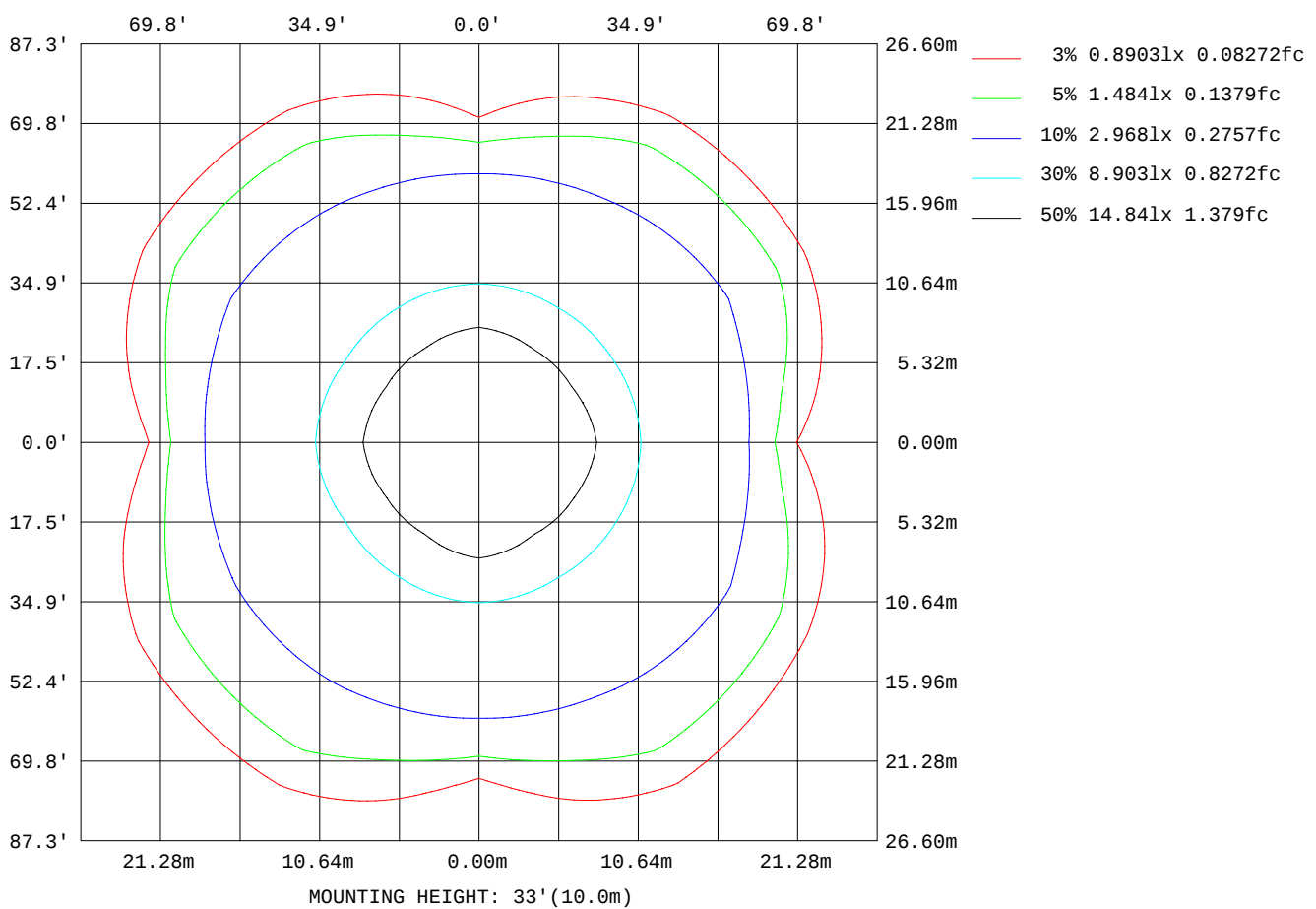
## AAI CURVES

|                                                                                     |               |                         |
|-------------------------------------------------------------------------------------|---------------|-------------------------|
| Test:U:120.33V I:0.8370A P:100.31W PF:0.9959 Freq:59.98Hz<br>Lamp Flux:12675.2x1 lm |               |                         |
| NAME: TS-100W-WW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417001 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |



## ISOLUX DIAGRAM

|                                                                                     |               |                         |
|-------------------------------------------------------------------------------------|---------------|-------------------------|
| Test:U:120.33V I:0.8370A P:100.31W PF:0.9959 Freq:59.98Hz<br>Lamp Flux:12675.2x1 lm |               |                         |
| NAME: TS-100W-WW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417001 |
| 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:120.33V I:0.8370A P:100.31W PF:0.9959 Freq:59.98Hz<br>Lamp Flux:12675.2x1 lm |               |                         |
| NAME: TS-100W-WW                                                                    | TYPE:         | WEIGHT:                 |
| SPEC.: 280*280                                                                      | DIM.:         | SERIAL No.: 20240417001 |
| MFR.:                                                                               | SUR.: 280*280 | Shielding Angle:        |

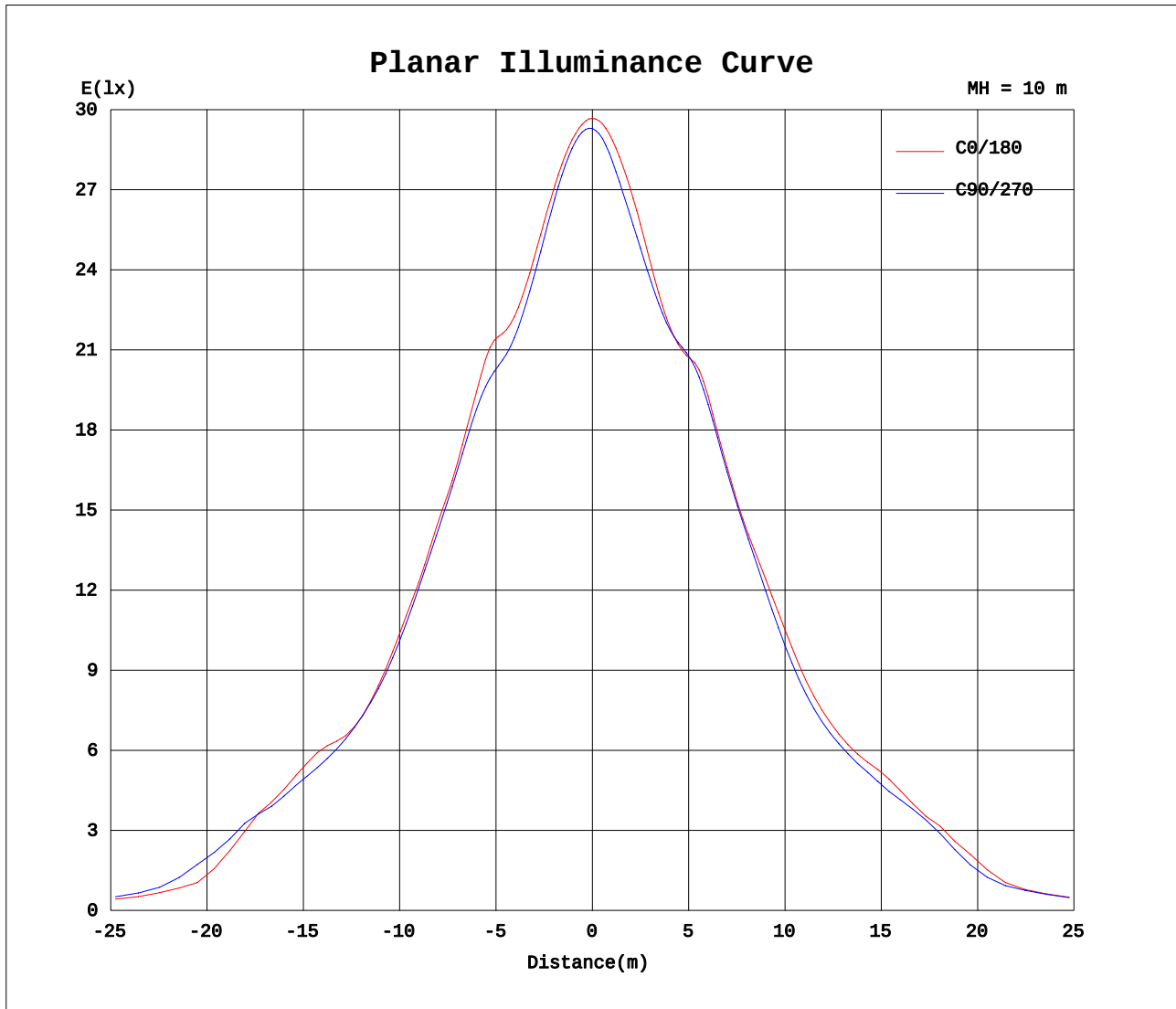
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 37852 |
| L_0~180(75)av  | 29604 |
| L_0~180(85)av  | 47193 |
| L_90~270(65)av | 43494 |
| L_90~270(75)av | 30386 |
| L_90~270(85)av | 47684 |
| L_45(65)av     | 85575 |
| L_45(75)av     | 52482 |
| L_45(85)av     | 87519 |

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:120.33V I:0.8370A P:100.31W PF:0.9959 Freq:59.98Hz<br>Lamp Flux:12675.2x1 lm |  |  |  |  |  |  |  |  |               |  |  |  |  |  |                         |  |  |
| NAME: TS-100W-WW                                                                    |  |  |  |  |  |  |  |  | TYPE:         |  |  |  |  |  | WEIGHT:                 |  |  |
| SPEC.: 280*280                                                                      |  |  |  |  |  |  |  |  | DIM.:         |  |  |  |  |  | SERIAL No.: 20240417001 |  |  |
| 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                 | 2968 | 2953 | 2941 | 2929 | 2922 | 2913 | 2968 | 2953 | 2941 | 2929 | 2922 | 2913 |          |  |  |  |  |  |
| 5                 | 2943 | 2936 | 2923 | 2914 | 2904 | 2895 | 2943 | 2914 | 2891 | 2871 | 2871 | 2875 |          |  |  |  |  |  |
| 10                | 2886 | 2876 | 2848 | 2840 | 2831 | 2832 | 2880 | 2830 | 2792 | 2774 | 2770 | 2795 |          |  |  |  |  |  |
| 15                | 2812 | 2785 | 2739 | 2741 | 2723 | 2736 | 2798 | 2717 | 2699 | 2706 | 2677 | 2688 |          |  |  |  |  |  |
| 20                | 2771 | 2680 | 2636 | 2685 | 2623 | 2624 | 2730 | 2605 | 2629 | 2697 | 2606 | 2588 |          |  |  |  |  |  |
| 25                | 2904 | 2626 | 2580 | 2770 | 2570 | 2556 | 2818 | 2550 | 2606 | 2834 | 2594 | 2548 |          |  |  |  |  |  |
| 30                | 3091 | 2719 | 2648 | 2963 | 2632 | 2621 | 3052 | 2631 | 2696 | 3004 | 2690 | 2656 |          |  |  |  |  |  |
| 35                | 3050 | 2844 | 2755 | 3002 | 2741 | 2771 | 3019 | 2787 | 2792 | 2987 | 2777 | 2788 |          |  |  |  |  |  |
| 40                | 3041 | 2785 | 2753 | 2982 | 2747 | 2723 | 3011 | 2753 | 2757 | 2955 | 2735 | 2748 |          |  |  |  |  |  |
| 45                | 2935 | 2758 | 2712 | 2859 | 2707 | 2668 | 2974 | 2704 | 2715 | 2808 | 2693 | 2735 |          |  |  |  |  |  |
| 50                | 2755 | 2733 | 2661 | 2753 | 2668 | 2666 | 2830 | 2728 | 2668 | 2666 | 2636 | 2708 |          |  |  |  |  |  |
| 55                | 3131 | 2732 | 2665 | 2837 | 2654 | 2706 | 2947 | 2759 | 2625 | 2750 | 2626 | 2726 |          |  |  |  |  |  |
| 60                | 2922 | 2977 | 2766 | 2901 | 2753 | 2804 | 2824 | 2901 | 2706 | 2710 | 2692 | 3017 |          |  |  |  |  |  |
| 65                | 1120 | 2720 | 2796 | 1646 | 2760 | 2750 | 1388 | 2704 | 2511 | 1237 | 2463 | 2656 |          |  |  |  |  |  |
| 70                | 730  | 1340 | 1730 | 827  | 1782 | 1741 | 821  | 1514 | 1480 | 803  | 1387 | 1339 |          |  |  |  |  |  |
| 75                | 576  | 981  | 1054 | 622  | 1053 | 1056 | 626  | 1022 | 1012 | 611  | 997  | 938  |          |  |  |  |  |  |
| 80                | 459  | 734  | 809  | 479  | 783  | 791  | 492  | 757  | 776  | 468  | 776  | 695  |          |  |  |  |  |  |
| 85                | 307  | 558  | 637  | 347  | 582  | 591  | 338  | 545  | 567  | 305  | 565  | 495  |          |  |  |  |  |  |
| 90                | 144  | 260  | 256  | 161  | 259  | 282  | 164  | 232  | 249  | 150  | 241  | 210  |          |  |  |  |  |  |
| 95                | 105  | 129  | 132  | 111  | 137  | 138  | 119  | 135  | 132  | 110  | 125  | 121  |          |  |  |  |  |  |
| 100               | 79.3 | 81.4 | 81.9 | 82.0 | 87.6 | 86.0 | 87.8 | 87.8 | 87.2 | 80.9 | 82.5 | 79.9 |          |  |  |  |  |  |
| 105               | 60.8 | 60.8 | 62.0 | 65.2 | 65.1 | 63.0 | 67.3 | 65.2 | 65.4 | 63.8 | 62.3 | 60.5 |          |  |  |  |  |  |
| 110               | 50.0 | 46.5 | 47.8 | 53.2 | 49.6 | 47.8 | 55.5 | 50.0 | 50.4 | 52.6 | 48.2 | 47.4 |          |  |  |  |  |  |
| 115               | 41.0 | 37.8 | 39.1 | 43.7 | 39.7 | 38.9 | 46.2 | 40.8 | 40.4 | 44.0 | 39.5 | 38.8 |          |  |  |  |  |  |
| 120               | 32.9 | 29.7 | 31.0 | 35.2 | 31.4 | 31.4 | 38.0 | 32.5 | 31.8 | 35.6 | 31.2 | 30.6 |          |  |  |  |  |  |
| 125               | 26.6 | 25.8 | 26.1 | 28.2 | 25.8 | 25.8 | 30.4 | 27.9 | 27.9 | 28.7 | 27.7 | 27.6 |          |  |  |  |  |  |
| 130               | 25.1 | 25.5 | 25.9 | 24.9 | 25.6 | 25.5 | 27.1 | 27.7 | 27.8 | 26.7 | 27.3 | 27.5 |          |  |  |  |  |  |
| 135               | 25.2 | 25.8 | 25.9 | 25.2 | 25.9 | 25.5 | 27.2 | 27.6 | 27.9 | 26.8 | 27.3 | 27.6 |          |  |  |  |  |  |
| 140               | 26.0 | 26.5 | 26.2 | 25.9 | 26.5 | 25.8 | 27.6 | 27.7 | 28.1 | 27.3 | 27.5 | 27.8 |          |  |  |  |  |  |
| 145               | 26.9 | 27.2 | 26.6 | 26.7 | 27.1 | 26.4 | 28.0 | 27.9 | 28.3 | 27.6 | 27.6 | 28.0 |          |  |  |  |  |  |
| 150               | 27.5 | 27.8 | 27.1 | 27.3 | 27.5 | 26.9 | 28.3 | 28.0 | 28.5 | 28.0 | 27.8 | 28.2 |          |  |  |  |  |  |
| 155               | 28.1 | 28.2 | 27.5 | 27.8 | 27.9 | 27.4 | 28.8 | 28.1 | 28.6 | 28.3 | 27.9 | 28.3 |          |  |  |  |  |  |
| 160               | 28.6 | 28.5 | 27.9 | 28.3 | 28.2 | 27.9 | 28.9 | 28.3 | 28.7 | 28.4 | 28.1 | 28.4 |          |  |  |  |  |  |
| 165               | 28.8 | 28.8 | 28.3 | 28.5 | 28.5 | 28.2 | 28.7 | 28.4 | 28.6 | 28.3 | 28.1 | 28.4 |          |  |  |  |  |  |
| 170               | 28.8 | 28.9 | 28.5 | 28.6 | 28.6 | 28.4 | 28.8 | 28.4 | 28.7 | 28.4 | 28.3 | 28.5 |          |  |  |  |  |  |
| 175               | 28.9 | 28.8 | 28.6 | 28.6 | 28.5 | 28.5 | 29.0 | 28.6 | 28.9 | 28.5 | 28.5 | 28.6 |          |  |  |  |  |  |
| 180               | 28.9 | 28.8 | 28.8 | 28.7 | 28.5 | 28.6 | 29.0 | 28.7 | 28.9 | 28.6 | 28.6 | 28.6 |          |  |  |  |  |  |

|                         |                                                   |
|-------------------------|---------------------------------------------------|
| C Range: 0 - 360DEG     | γ Range: 0 - 180DEG                               |
| C Interval: 30.0DEG     | γ Interval: 1.0DEG                                |
| Test Speed: HIGH        | Test System:EVERFINE G0-2000A_V1 SYSTEM V2.00.446 |
| Temperature:25.4DEG     | Humidity:65.0%                                    |
| Operators:DAMIN         | Test Distance:7.550m [K=1.0000]                   |
| Test Date:17 April 2024 | Remarks:                                          |