

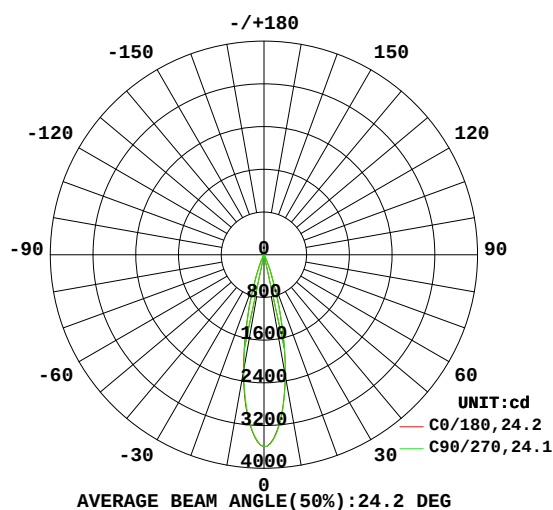
## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.12V I:0.0911A P:10.072W PF:0.5022 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% Lamp Flux:683.896x1 lm

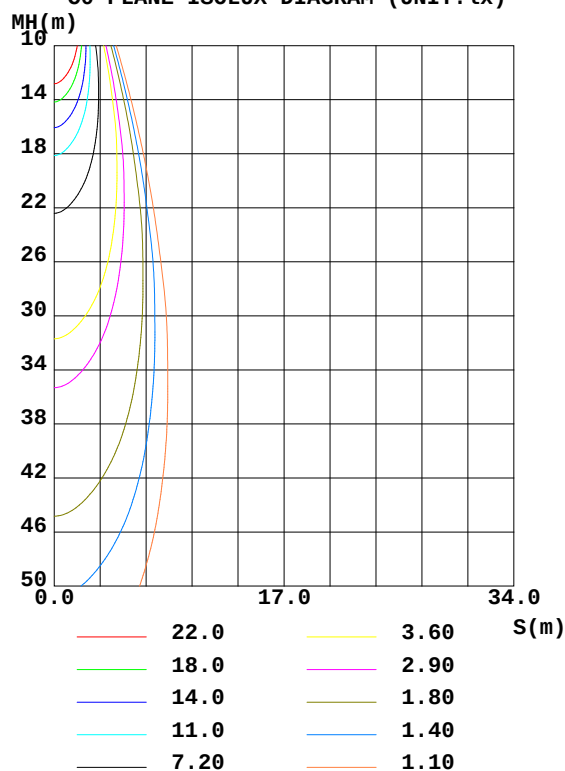
|                          |                          |                  |
|--------------------------|--------------------------|------------------|
| NAME: DDW31-LM10E-230SWT | TYPE: recessed luminaire | WEIGHT:          |
| SPEC.:                   | DIM.:                    | SERIAL No.:      |
| MFR.: WAC Lighting       | SUR.:                    | Shielding Angle: |

| DATA OF LAMP     |         | PHOTOMETRIC DATA |        |                         |           | Eff: 67.90 lm/W |
|------------------|---------|------------------|--------|-------------------------|-----------|-----------------|
| MODEL            |         | Imax(cd)         | 3595   | S/MH(C0/180)            | 0.41      |                 |
| NOMINAL POWER(W) |         | LOR(%)           | 100.0  | S/MH(C90/270)           | 0.41      |                 |
| RATED VOLTAGE(V) | 220     | TOTAL FLUX(lm)   | 683.90 | $\eta$ UP, DN(C0-180)   | 0.0, 48.5 |                 |
| NOMINAL FLUX(lm) | 683.896 | CIE CLASS        | DIRECT | $\eta$ UP, DN(C180-360) | 0.0, 51.5 |                 |
| LAMPS INSIDE     | 1       | $\eta$ up(%)     | 0.0    | CIBSE SHR NOM           | 0.00      |                 |
| TEST VOLTAGE(V)  | 220     | $\eta$ down(%)   | 100.0  | CIBSE SHR MAX           | 1.00      |                 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Oliver  
Test Date:2024-09-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE G0-R5000\_V2 SYSTEM V2.00.428  
Humidity:65.0%  
Test Distance:2.467m [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 |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------|
| 10       | 2219                  | 2212   | 2181   | 2169   | 2308   | 2344   | 2327   | 2315   | 0- 10    | 273.7       | 273.7        | 40   |
| 20       | 439.5                 | 447.2  | 415.0  | 390.8  | 445.5  | 469.8  | 459.6  | 461.1  | 10- 20   | 325.8       | 599.5        | 87.7 |
| 30       | 46.65                 | 46.63  | 42.23  | 39.00  | 42.61  | 44.08  | 45.39  | 47.82  | 20- 30   | 73.39       | 672.9        | 98.4 |
| 40       | 2.591                 | 2.667  | 2.219  | 1.883  | 1.894  | 1.978  | 2.292  | 2.817  | 30- 40   | 10.08       | 682.9        | 99.9 |
| 50       | 0.3016                | 0.2706 | 0.2455 | 0.2137 | 0.2223 | 0.2500 | 0.2922 | 0.3202 | 40- 50   | 0.6868      | 683.6        | 100  |
| 60       | 0.0084                | 0.0084 | 0.0076 | 0.0064 | 0.1744 | 0.1757 | 0.1741 | 0.1775 | 50- 60   | 0.0803      | 683.7        | 100  |
| 70       | 0.0071                | 0.0080 | 0.0063 | 0.0059 | 0.1289 | 0.1276 | 0.1270 | 0.1269 | 60- 70   | 0.0766      | 683.8        | 100  |
| 80       | 0.0042                | 0.0050 | 0.0034 | 0.0030 | 0.1917 | 0.1880 | 0.1890 | 0.1899 | 70- 80   | 0.0905      | 683.9        | 100  |
| 90       | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 80- 90   | 0.0233      | 683.9        | 100  |
| 100      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 90-100   | 0           | 683.9        | 100  |
| 110      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 100-110  | 0           | 683.9        | 100  |
| 120      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 110-120  | 0           | 683.9        | 100  |
| 130      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 120-130  | 0           | 683.9        | 100  |
| 140      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 130-140  | 0           | 683.9        | 100  |
| 150      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 140-150  | 0           | 683.9        | 100  |
| 160      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 150-160  | 0           | 683.9        | 100  |
| 170      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 160-170  | 0           | 683.9        | 100  |
| 180      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 170-180  | 0           | 683.9        | 100  |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT: lm    |              |      |

Conical surface Flux(90deg): 683.43 lm

%lum = 99.9%

%lamp = 99.9%

Conical surface Flux(120deg): 683.71 lm

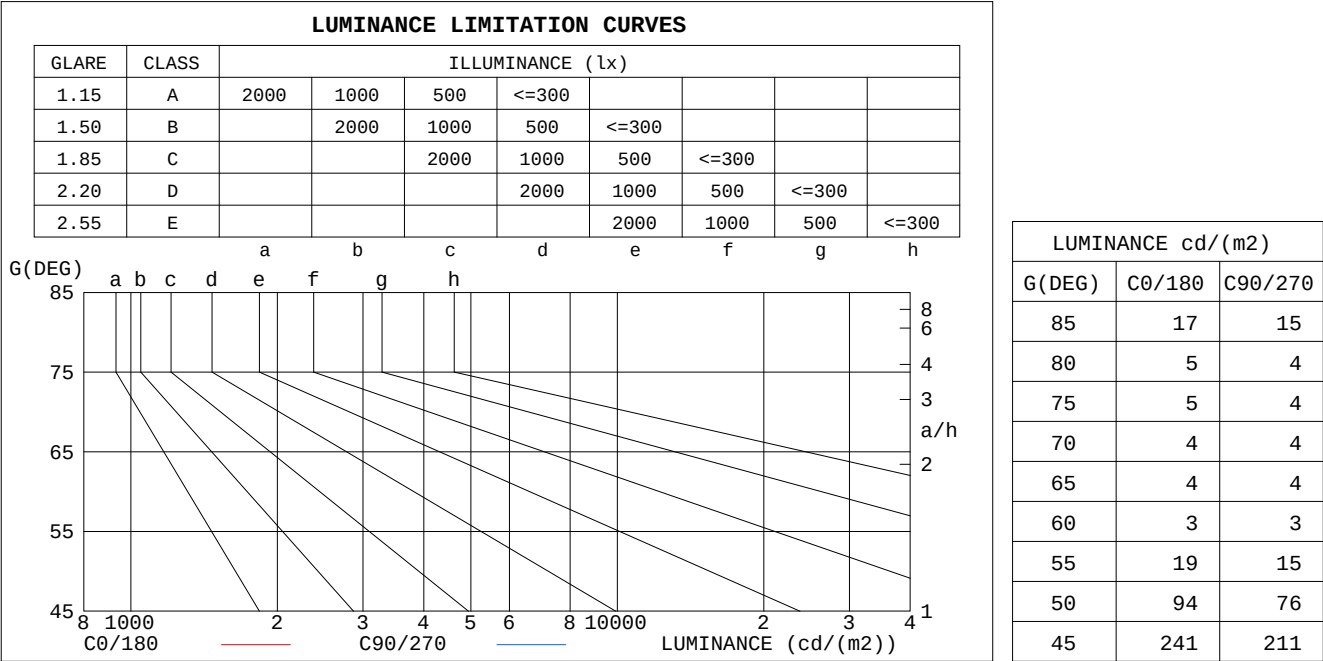
%lum = 100.0%

%lamp = 100.0%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Oliver  
 Test Date:2024-09-19

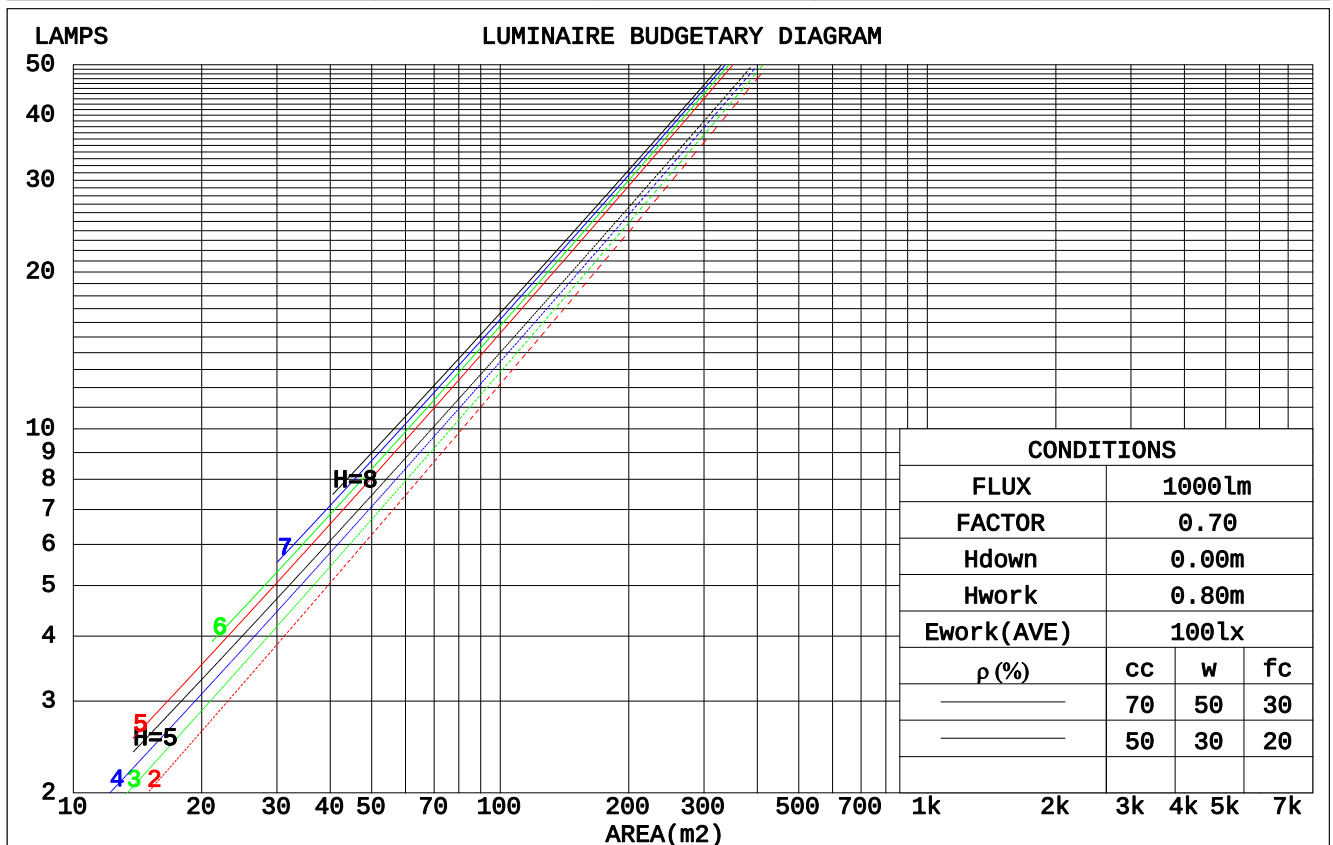
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE G0-R5000\_V2 SYSTEM V2.00.428  
 Humidity:65.0%  
 Test Distance:2.467m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES



## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| $\rho_{cc}$ | 80%                   |      |      | 70%                             |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0   |
|-------------|-----------------------|------|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| $\rho_{fc}$ | 20%                   |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0   |
| RCR         | RCR:Room Cavity Ratio |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |     |
| 0.0         | 1.19                  | 1.19 | 1.19 | 1.16                            | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0         | 1.13                  | 1.12 | 1.10 | 1.11                            | 1.10 | 1.08 | 1.07 | 1.06 | 1.05 | 1.04 | 1.03 | 1.02 | 1.00 | .00  | .99  | .97 |
| 2.0         | 1.08                  | 1.06 | 1.03 | 1.07                            | 1.04 | 1.02 | 1.04 | 1.02 | 1.00 | 1.01 | .99  | .98  | .98  | .97  | .96  | .95 |
| 3.0         | 1.04                  | 1.01 | .98  | 1.03                            | 1.00 | .98  | 1.01 | .98  | .96  | .98  | .96  | .95  | .96  | .95  | .93  | .92 |
| 4.0         | 1.01                  | .97  | .94  | .00                             | .96  | .94  | .98  | .95  | .93  | .96  | .94  | .92  | .94  | .92  | .91  | .90 |
| 5.0         | .97                   | .94  | .91  | .97                             | .93  | .91  | .95  | .92  | .90  | .94  | .91  | .89  | .92  | .90  | .88  | .87 |
| 6.0         | .95                   | .91  | .88  | .94                             | .90  | .88  | .93  | .89  | .87  | .91  | .89  | .87  | .90  | .88  | .86  | .85 |
| 7.0         | .92                   | .88  | .85  | .91                             | .88  | .85  | .90  | .87  | .85  | .89  | .86  | .84  | .88  | .86  | .84  | .83 |
| 8.0         | .89                   | .86  | .83  | .89                             | .85  | .83  | .88  | .85  | .83  | .87  | .84  | .82  | .86  | .84  | .82  | .81 |
| 9.0         | .87                   | .83  | .81  | .87                             | .83  | .81  | .86  | .83  | .81  | .85  | .82  | .80  | .85  | .82  | .80  | .79 |
| 10.0        | .85                   | .81  | .79  | .85                             | .81  | .79  | .84  | .81  | .79  | .83  | .81  | .79  | .83  | .80  | .78  | .78 |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Oliver  
 Test Date: 2024-09-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.428  
 Humidity: 65.0%  
 Test Distance: 2.467m [K=1.0000]  
 Remarks:

## WEC AND CCEC

| $\rho_{cc}$ | 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         | .129                  | .073 | .023 | .122 | .070 | .022 | .110                            | .063 | .020 | .099 | .057 | .018 | .088 | .051 | .016 |   |  |
| 2.0         | .119                  | .065 | .020 | .113 | .062 | .019 | .103                            | .057 | .018 | .094 | .053 | .016 | .085 | .048 | .015 |   |  |
| 3.0         | .110                  | .059 | .018 | .105 | .056 | .017 | .097                            | .053 | .016 | .089 | .049 | .015 | .082 | .045 | .014 |   |  |
| 4.0         | .103                  | .053 | .016 | .099 | .052 | .015 | .092                            | .049 | .015 | .085 | .046 | .014 | .079 | .043 | .013 |   |  |
| 5.0         | .096                  | .049 | .014 | .093 | .048 | .014 | .087                            | .045 | .013 | .082 | .043 | .013 | .076 | .041 | .012 |   |  |
| 6.0         | .091                  | .046 | .013 | .088 | .045 | .013 | .083                            | .043 | .012 | .078 | .041 | .012 | .074 | .039 | .012 |   |  |
| 7.0         | .086                  | .043 | .012 | .084 | .042 | .012 | .080                            | .040 | .012 | .075 | .039 | .011 | .071 | .037 | .011 |   |  |
| 8.0         | .082                  | .040 | .011 | .080 | .039 | .011 | .076                            | .038 | .011 | .073 | .037 | .011 | .069 | .036 | .010 |   |  |
| 9.0         | .078                  | .038 | .011 | .077 | .037 | .010 | .073                            | .036 | .010 | .070 | .035 | .010 | .067 | .034 | .010 |   |  |
| 10.0        | .075                  | .036 | .010 | .074 | .036 | .010 | .071                            | .035 | .010 | .068 | .034 | .010 | .065 | .033 | .009 |   |  |

| ρcc  | 80%                   |      |      | 70%                                        |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|--------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%                                        | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%                                        |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.0  | .190                  | .190 | .190 | .163                                       | .163 | .163 | .111 | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0  | .168                  | .158 | .149 | .144                                       | .135 | .128 | .098 | .093 | .088 | .057 | .054 | .051 | .018 | .017 | .017 |   |
| 2.0  | .149                  | .133 | .119 | .128                                       | .114 | .103 | .088 | .079 | .072 | .050 | .046 | .042 | .016 | .015 | .014 |   |
| 3.0  | .134                  | .113 | .097 | .115                                       | .098 | .084 | .079 | .068 | .059 | .045 | .040 | .035 | .015 | .013 | .011 |   |
| 4.0  | .121                  | .098 | .080 | .104                                       | .084 | .070 | .071 | .059 | .049 | .041 | .034 | .029 | .013 | .011 | .010 |   |
| 5.0  | .110                  | .085 | .067 | .094                                       | .074 | .058 | .065 | .052 | .041 | .038 | .030 | .024 | .012 | .010 | .008 |   |
| 6.0  | .101                  | .075 | .057 | .087                                       | .065 | .049 | .060 | .046 | .035 | .035 | .027 | .021 | .011 | .009 | .007 |   |
| 7.0  | .093                  | .067 | .049 | .080                                       | .058 | .042 | .055 | .041 | .030 | .032 | .024 | .018 | .010 | .008 | .006 |   |
| 8.0  | .086                  | .060 | .042 | .074                                       | .052 | .037 | .051 | .037 | .026 | .030 | .022 | .015 | .010 | .007 | .005 |   |
| 9.0  | .081                  | .054 | .036 | .069                                       | .047 | .032 | .048 | .033 | .023 | .028 | .020 | .013 | .009 | .006 | .004 |   |
| 10.0 | .076                  | .049 | .032 | .065                                       | .043 | .028 | .045 | .030 | .020 | .026 | .018 | .012 | .009 | .006 | .004 |   |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Oliver  
 Test Date: 2024-09-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.428  
 Humidity: 65.0%  
 Test Distance: 2.467m [K=1.0000]  
 Remarks:

## UGR(Unified Glare Rating) Table

|                                                                 |                  |      |      |      |      |                |      |      |      |      |
|-----------------------------------------------------------------|------------------|------|------|------|------|----------------|------|------|------|------|
| 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                                                   | -0.3             | 0.3  | -0.1 | 0.4  | 0.6  | -1.0           | -0.4 | -0.8 | -0.2 | -0.1 |
| 3H                                                              | -0.5             | 0.1  | -0.2 | 0.3  | 0.4  | -1.1           | -0.6 | -0.9 | -0.4 | -0.2 |
| 4H                                                              | -0.6             | -0.0 | -0.3 | 0.2  | 0.4  | -1.2           | -0.7 | -0.9 | -0.5 | -0.3 |
| 6H                                                              | -0.6             | -0.1 | -0.4 | 0.1  | 0.3  | -1.3           | -0.8 | -1.0 | -0.5 | -0.3 |
| 8H                                                              | -0.7             | -0.2 | -0.4 | 0.0  | 0.3  | -1.3           | -0.8 | -1.0 | -0.6 | -0.3 |
| 12H                                                             | -0.7             | -0.3 | -0.4 | -0.0 | 0.3  | -1.4           | -0.9 | -1.1 | -0.6 | -0.4 |
| 4H 2H                                                           | -0.6             | -0.0 | -0.3 | 0.2  | 0.4  | -1.2           | -0.7 | -0.9 | -0.5 | -0.3 |
| 3H                                                              | -0.7             | -0.3 | -0.4 | -0.0 | 0.3  | -1.4           | -0.9 | -1.1 | -0.6 | -0.4 |
| 4H                                                              | -0.8             | -0.4 | -0.5 | -0.1 | 0.2  | -1.5           | -1.0 | -1.1 | -0.7 | -0.4 |
| 6H                                                              | -0.9             | -0.5 | -0.6 | -0.2 | 0.1  | -1.6           | -1.2 | -1.2 | -0.9 | -0.5 |
| 8H                                                              | -1.0             | -0.6 | -0.6 | -0.3 | 0.1  | -1.6           | -1.3 | -1.2 | -0.9 | -0.6 |
| 12H                                                             | -1.0             | -0.7 | -0.6 | -0.3 | 0.0  | -1.7           | -1.4 | -1.3 | -1.0 | -0.6 |
| 8H 4H                                                           | -1.0             | -0.6 | -0.6 | -0.3 | 0.1  | -1.6           | -1.3 | -1.2 | -0.9 | -0.6 |
| 6H                                                              | -1.1             | -0.8 | -0.7 | -0.4 | -0.0 | -1.7           | -1.4 | -1.3 | -1.1 | -0.6 |
| 8H                                                              | -1.2             | -0.9 | -0.7 | -0.5 | -0.0 | -1.8           | -1.5 | -1.4 | -1.1 | -0.7 |
| 12H                                                             | -1.2             | -1.0 | -0.8 | -0.6 | -0.1 | -1.9           | -1.6 | -1.4 | -1.2 | -0.7 |
| 12H 4H                                                          | -1.0             | -0.7 | -0.6 | -0.3 | 0.0  | -1.7           | -1.4 | -1.3 | -1.0 | -0.6 |
| 6H                                                              | -1.2             | -0.9 | -0.7 | -0.5 | -0.0 | -1.8           | -1.5 | -1.4 | -1.1 | -0.7 |
| 8H                                                              | -1.2             | -1.0 | -0.8 | -0.6 | -0.1 | -1.9           | -1.6 | -1.4 | -1.2 | -0.7 |
| Variations with the observer position at spacings(CIE Pub.117): |                  |      |      |      |      |                |      |      |      |      |
| S = 1.0H                                                        | + 5.5 / -24.3    |      |      |      |      | + 4.9 / -23.9  |      |      |      |      |
| 1.5H                                                            | + 8.1 / -21.7    |      |      |      |      | + 7.5 / -20.5  |      |      |      |      |
| 2.0H                                                            | + 7.4 / -13.7    |      |      |      |      | + 7.2 / -13.8  |      |      |      |      |

CIE Pub.117, 683.9 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = -1.3$ )  
Area: 0.005 m<sup>2</sup>

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Oliver  
Test Date:2024-09-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE G0-R5000\_V2 SYSTEM V2.00.428  
Humidity:65.0%  
Test Distance:2.467m [K=1.0000]  
Remarks:

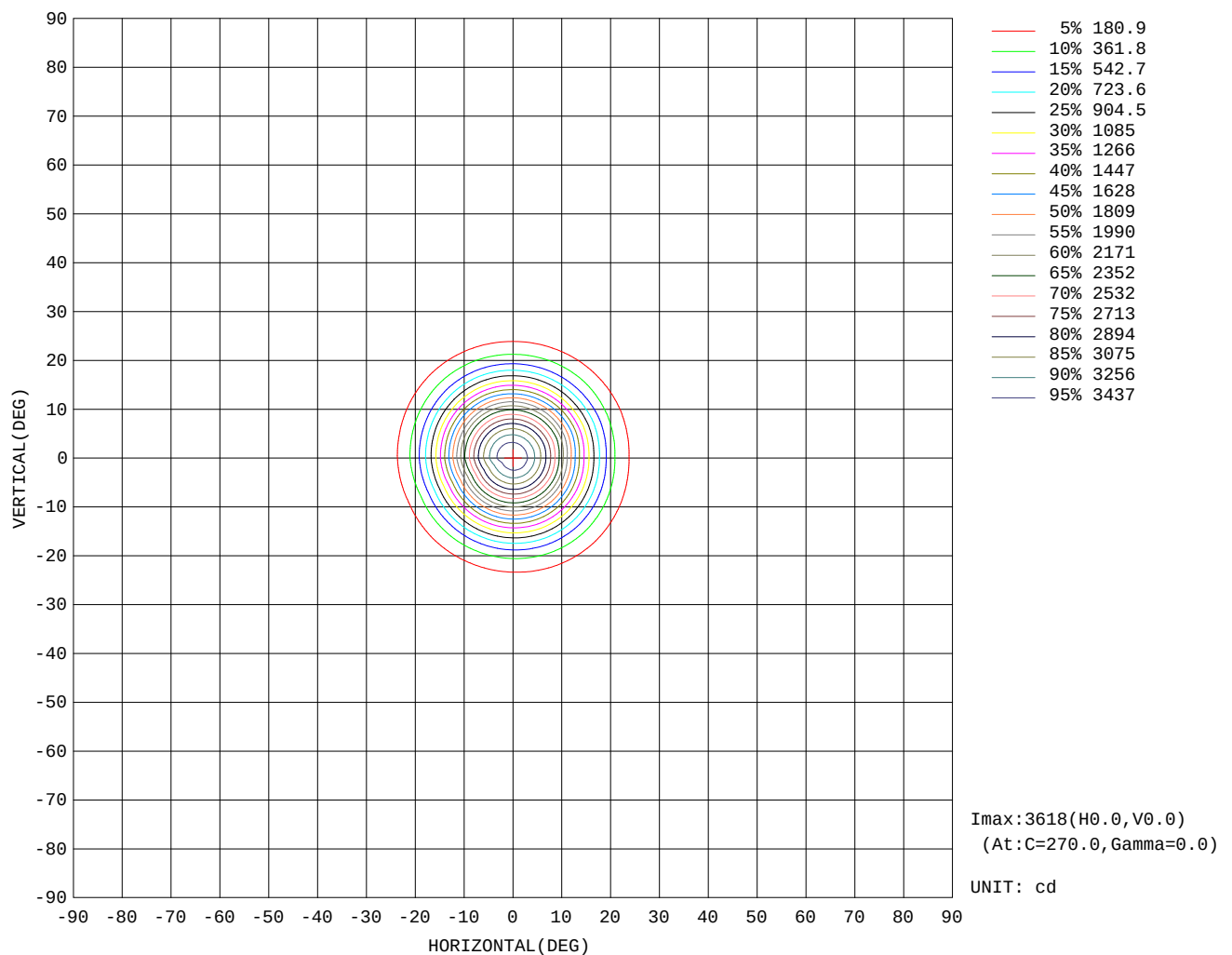
## UTILIZATION FACTORS TABLE

| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 92                                                  | 86  | 83        | 91  | 86  | 82  | 90  | 85            | 82  | 79     |
| 0.80                             | 98                                                  | 93  | 90        | 98  | 93  | 90  | 97  | 92            | 90  | 86     |
| 1.00                             | 102                                                 | 97  | 94        | 101 | 97  | 94  | 100 | 96            | 93  | 90     |
| 1.25                             | 105                                                 | 101 | 98        | 105 | 100 | 98  | 103 | 99            | 97  | 93     |
| 1.50                             | 108                                                 | 104 | 101       | 107 | 103 | 100 | 105 | 102           | 99  | 95     |
| 2.00                             | 110                                                 | 106 | 103       | 109 | 105 | 103 | 106 | 103           | 101 | 96     |
| 2.50                             | 111                                                 | 108 | 105       | 110 | 107 | 104 | 107 | 104           | 103 | 97     |
| 3.00                             | 113                                                 | 110 | 107       | 111 | 108 | 106 | 108 | 106           | 104 | 98     |
| 4.00                             | 115                                                 | 112 | 110       | 113 | 111 | 109 | 109 | 107           | 106 | 99     |
| 5.00                             | 116                                                 | 114 | 112       | 114 | 112 | 111 | 110 | 109           | 108 | 100    |
| ROOM INDEX                       | UF(total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                     |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Oliver  
 Test Date: 2024-09-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.428  
 Humidity: 65.0%  
 Test Distance: 2.467m [K=1.0000]  
 Remarks:

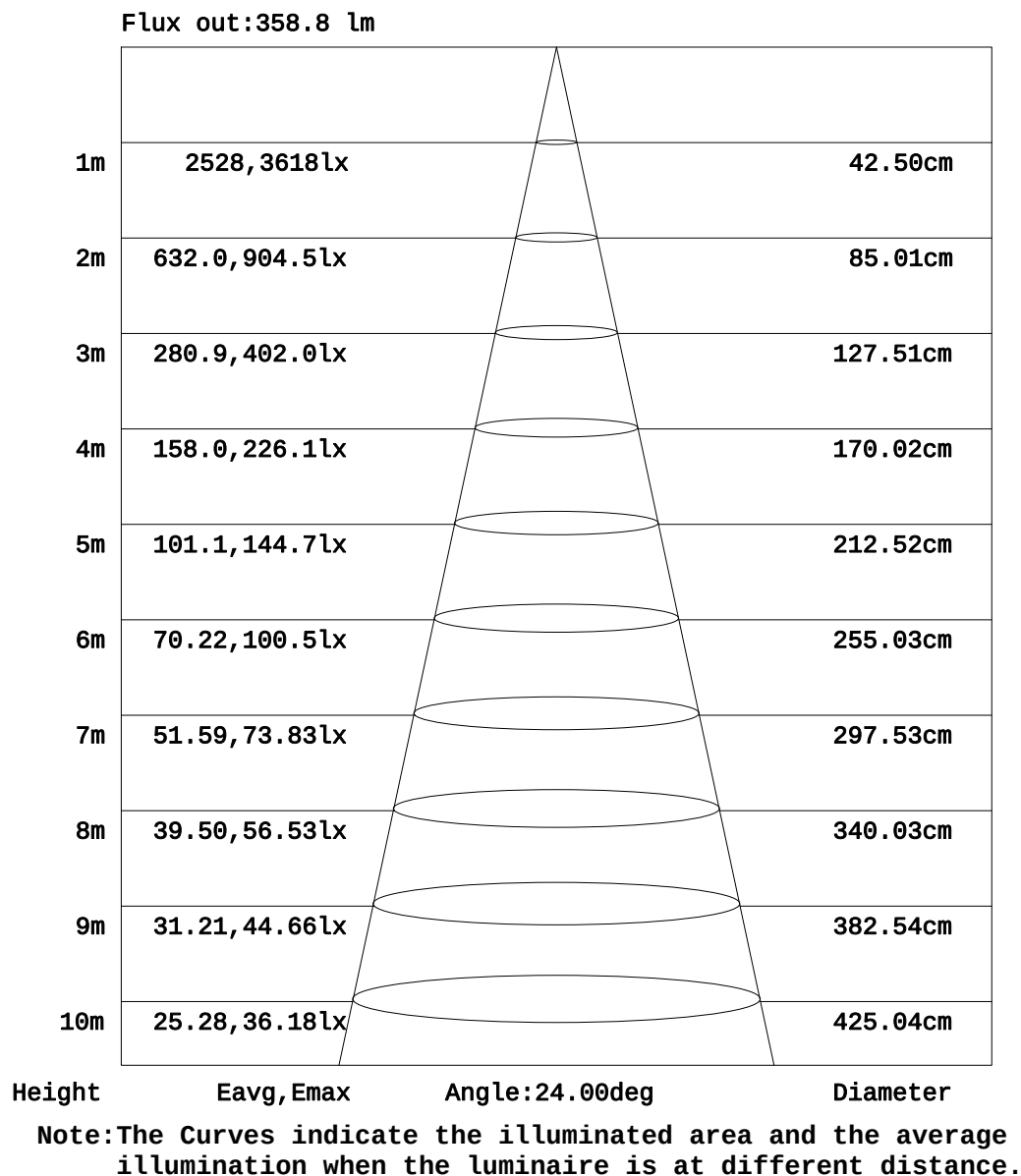
## ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Oliver  
Test Date: 2024-09-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.428  
Humidity: 65.0%  
Test Distance: 2.467m [K=1.0000]  
Remarks:

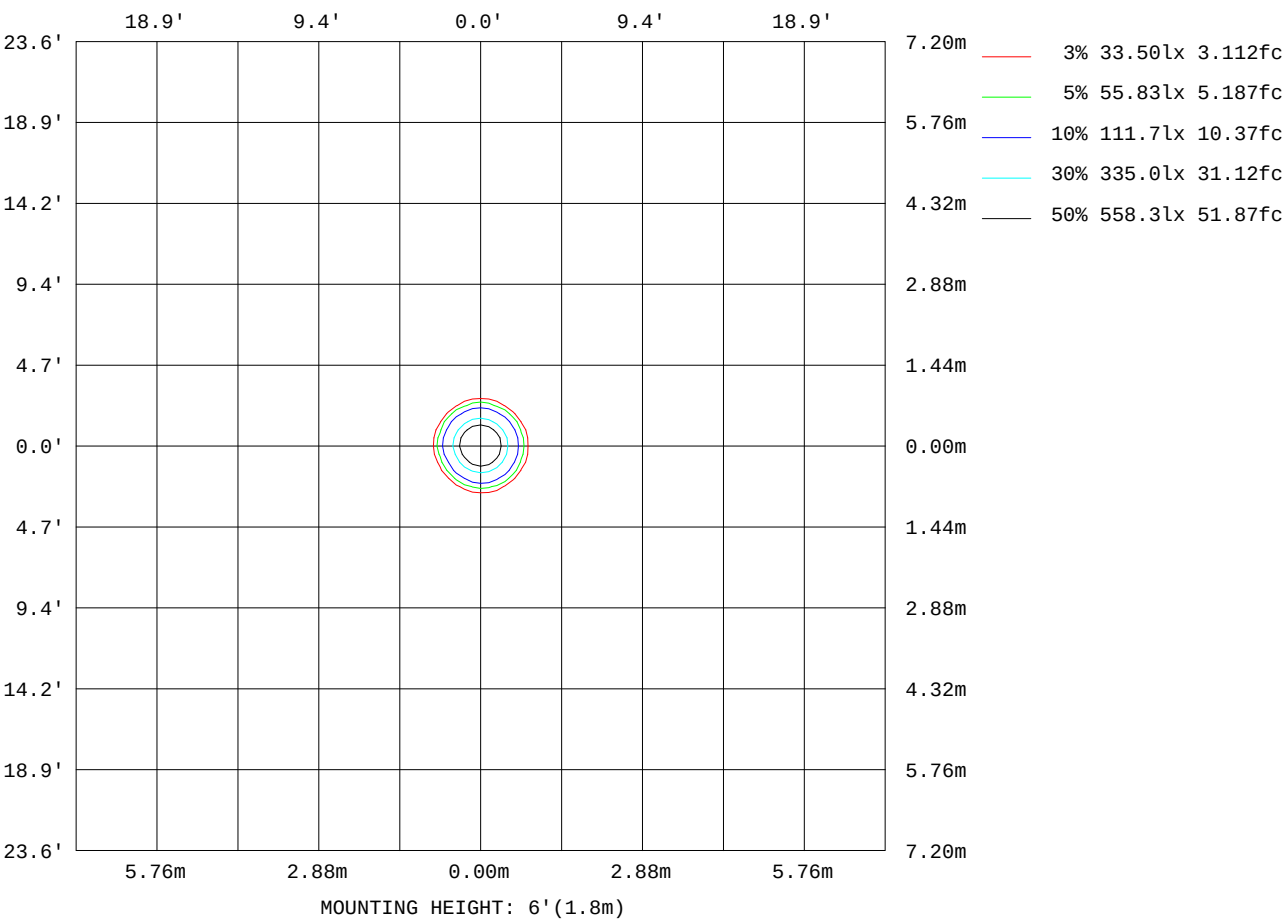
## AAI Figure



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Oliver  
 Test Date: 2024-09-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.428  
 Humidity: 65.0%  
 Test Distance: 2.467m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Oliver  
Test Date: 2024-09-19

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.428  
Humidity: 65.0%  
Test Distance: 2.467m [K=1.0000]  
Remarks:

## LED Avg.L Report

|                                                                                                          |             |                  |
|----------------------------------------------------------------------------------------------------------|-------------|------------------|
| Test:U:220.12V I:0.0911A P:10.072W PF:0.5022 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% Lamp Flux:683.896x1 Lm |             |                  |
| NAME: DDW31-LM10E-230SWT                                                                                 | TYPE: 嵌入式灯具 | WEIGHT:          |
| SPEC.:                                                                                                   | DIM.:       | SERIAL No.:      |
| MFR.: WAC Lighting                                                                                       | SUR.:       | Shielding Angle: |

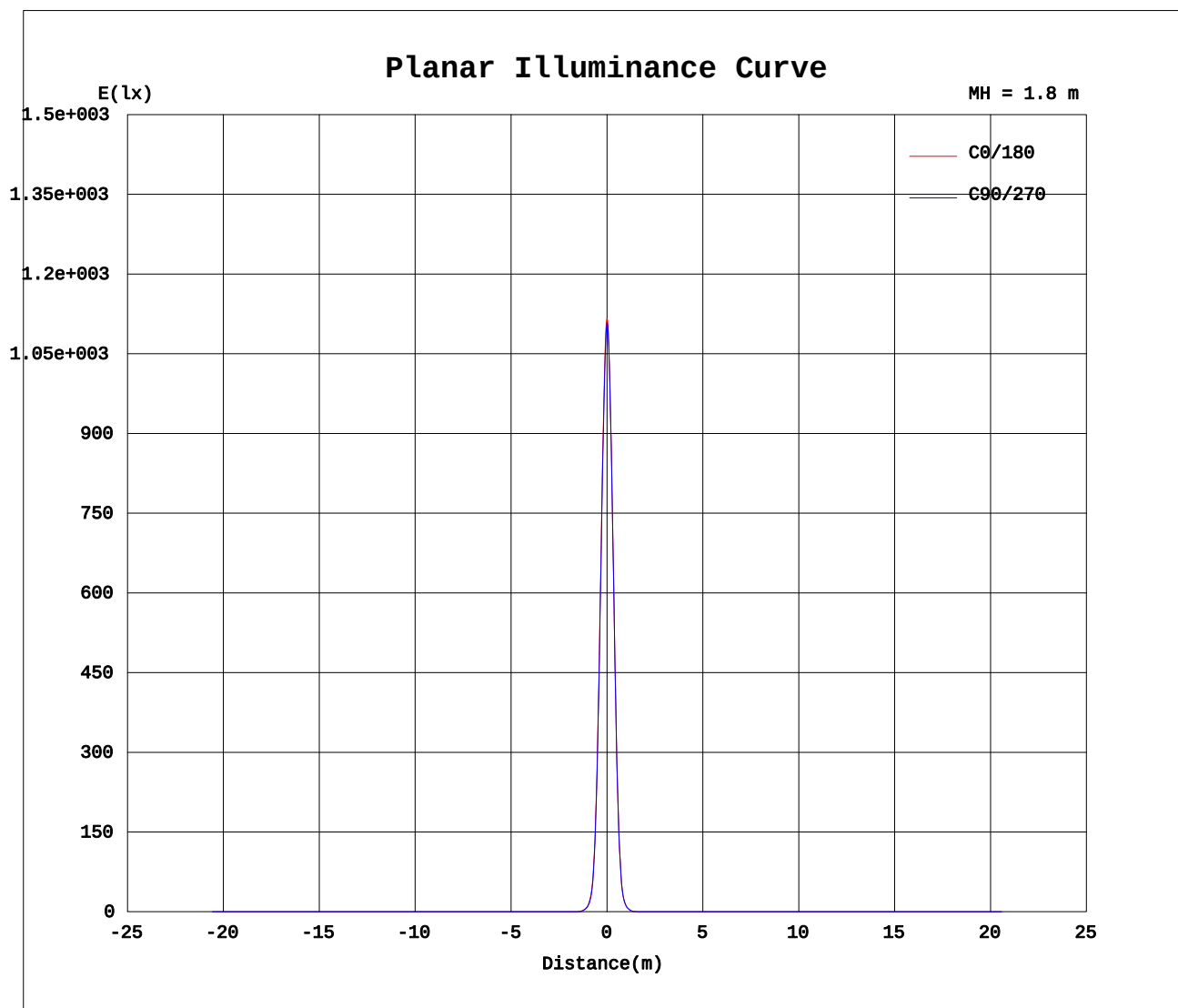
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 39    |
| L_0~180(75)av  | 72    |
| L_0~180(85)av  | 11    |
| L_90~270(65)av | 39    |
| L_90~270(75)av | 72    |
| L_90~270(85)av | 8     |
| L_45(65)av     | 40    |
| L_45(75)av     | 72    |
| L_45(85)av     | 12    |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Oliver  
 Test Date:2024-09-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE G0-R5000\_V2 SYSTEM V2.00.428  
 Humidity:65.0%  
 Test Distance:2.467m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Oliver  
Test Date: 2024-09-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.428  
Humidity: 65.0%  
Test Distance: 2.467m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

| C(DEG)<br>γ (DEG) | 0    | 22.5 | 45   | 67.5 | 90   | 112.5 | 135  | 157.5 | 180  | 202.5 | 225  | 247.5 | 270  | 292.5 | 315  | 337.5 |  |  |  |
|-------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0                 | 3595 | 3595 | 3595 | 3595 | 3595 | 3595  | 3595 | 3595  | 3595 | 3595  | 3595 | 3595  | 3595 | 3595  | 3595 | 3595  |  |  |  |
| 5                 | 3161 | 3154 | 3147 | 3138 | 3131 | 3126  | 3133 | 3142  | 3210 | 3227  | 3234 | 3235  | 3231 | 3221  | 3213 | 3212  |  |  |  |
| 10                | 2219 | 2222 | 2212 | 2194 | 2181 | 2169  | 2169 | 2179  | 2308 | 2335  | 2344 | 2339  | 2327 | 2315  | 2315 | 2320  |  |  |  |
| 15                | 1178 | 1184 | 1182 | 1165 | 1145 | 1130  | 1126 | 1135  | 1227 | 1253  | 1264 | 1258  | 1241 | 1232  | 1233 | 1238  |  |  |  |
| 20                | 440  | 449  | 447  | 434  | 415  | 398   | 391  | 394   | 445  | 461   | 470  | 466   | 460  | 458   | 461  | 471   |  |  |  |
| 25                | 134  | 137  | 135  | 130  | 121  | 122   | 120  | 121   | 129  | 134   | 136  | 137   | 137  | 137   | 139  | 143   |  |  |  |
| 30                | 46.7 | 47.3 | 46.6 | 44.7 | 42.2 | 39.9  | 39.0 | 38.7  | 42.6 | 43.5  | 44.1 | 44.6  | 45.4 | 46.4  | 47.8 | 49.2  |  |  |  |
| 35                | 15.3 | 15.4 | 14.9 | 14.0 | 13.0 | 12.6  | 11.7 | 10.5  | 11.2 | 11.4  | 11.9 | 12.5  | 13.5 | 14.9  | 15.8 | 16.5  |  |  |  |
| 40                | 2.59 | 2.69 | 2.67 | 2.46 | 2.22 | 2.02  | 1.88 | 1.74  | 1.89 | 1.93  | 1.98 | 2.13  | 2.29 | 2.50  | 2.82 | 2.94  |  |  |  |
| 45                | 0.85 | 0.83 | 0.79 | 0.77 | 0.75 | 0.71  | 0.68 | 0.65  | 0.69 | 0.69  | 0.71 | 0.74  | 0.78 | 0.81  | 0.83 | 0.87  |  |  |  |
| 50                | 0.30 | 0.29 | 0.27 | 0.26 | 0.25 | 0.23  | 0.21 | 0.20  | 0.22 | 0.23  | 0.25 | 0.27  | 0.29 | 0.31  | 0.32 | 0.33  |  |  |  |
| 55                | 0.05 | 0.05 | 0.05 | 0.05 | 0.04 | 0.04  | 0.04 | 0.03  | 0.04 | 0.04  | 0.05 | 0.05  | 0.06 | 0.06  | 0.07 | 0.07  |  |  |  |
| 60                | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01  | 0.01 | 0.01  | 0.17 | 0.18  | 0.18 | 0.17  | 0.17 | 0.17  | 0.18 | 0.18  |  |  |  |
| 65                | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01  | 0.01 | 0.01  | 0.16 | 0.16  | 0.16 | 0.16  | 0.16 | 0.16  | 0.16 | 0.16  |  |  |  |
| 70                | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01  | 0.01 | 0.01  | 0.13 | 0.13  | 0.13 | 0.13  | 0.13 | 0.13  | 0.13 | 0.13  |  |  |  |
| 75                | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00  | 0.01 | 0.00  | 0.18 | 0.18  | 0.18 | 0.18  | 0.18 | 0.18  | 0.18 | 0.18  |  |  |  |
| 80                | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.19 | 0.19  | 0.19 | 0.19  | 0.19 | 0.19  | 0.19 | 0.19  |  |  |  |
| 85                | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01  | 0.01 | 0.01  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 90                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 95                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 100               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 105               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 110               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 115               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 120               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 125               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 130               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 135               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 140               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 145               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 150               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 155               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 160               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 165               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 170               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 175               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |
| 180               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |  |  |  |

C Range: 0 - 360DEG  
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