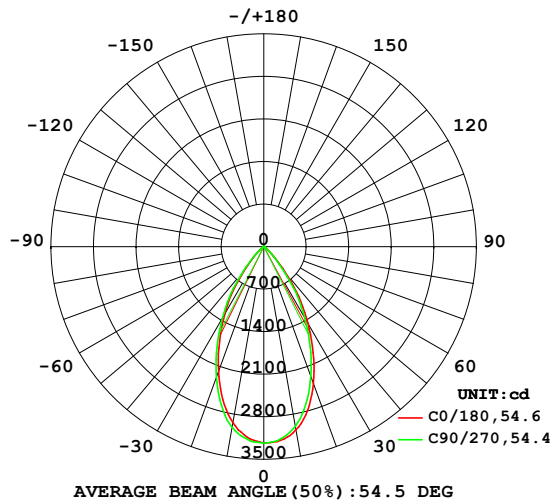


## LUMINAIRE PHOTOMETRIC TEST REPORT

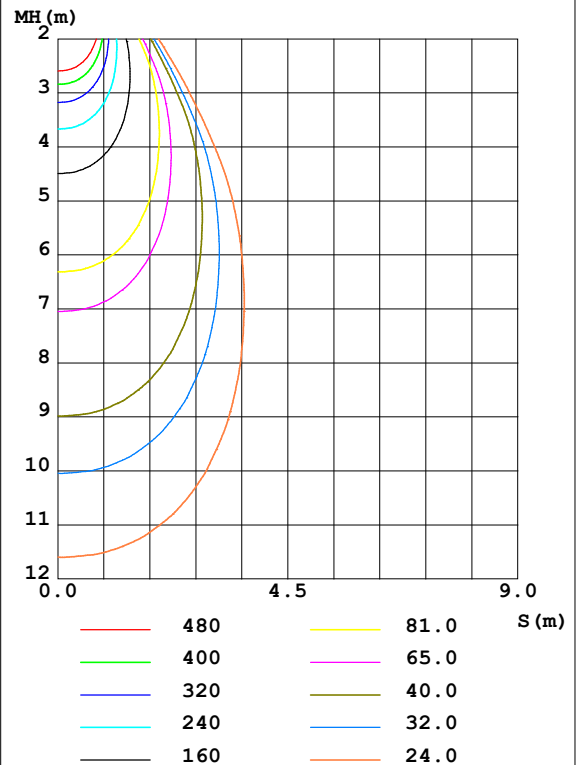
|                                                                                |                    |                  |
|--------------------------------------------------------------------------------|--------------------|------------------|
| Test:U:121.2V I:0.2290A P:27.60W PF:0.9920 Freq:60.00Hz Lamp Flux:2679.57x1 lm |                    |                  |
| NAME: WL-2CLD3IN30WB5D3HVWH                                                    | TYPE:3000K         | WEIGHT:          |
| SPEC.:                                                                         | DIM.: 4IN          | SERIAL No.:      |
| MFR.: WS                                                                       | SUR.:0.029/*3.1415 | Shielding Angle: |

| DATA OF LAMP     |         | PHOTOMETRIC DATA Eff: 97.09 lm/W |        |                   |          |
|------------------|---------|----------------------------------|--------|-------------------|----------|
| MODEL            |         | I <sub>max</sub> (cd)            | 3233   | S/MH(C0/180)      | 0.87     |
| NOMINAL POWER(W) | 30W     | LOR(%)                           | 100.0  | S/MH(C90/270)     | 0.83     |
| RATED VOLTAGE(V) | 120.0   | TOTAL FLUX(lm)                   | 2679.6 | η UP,DN(C0-180)   | 0.1,51.0 |
| NOMINAL FLUX(lm) | 2679.57 | CIE CLASS                        | DIRECT | η UP,DN(C180-360) | 0.1,48.9 |
| LAMPS INSIDE     | 1       | η up(%)                          | 0.1    | CIBSE SHR NOM     | 0.75     |
| TEST VOLTAGE(V)  | 120.0   | η down(%)                        | 99.9   | CIBSE SHR MAX     | 0.90     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:7.540m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

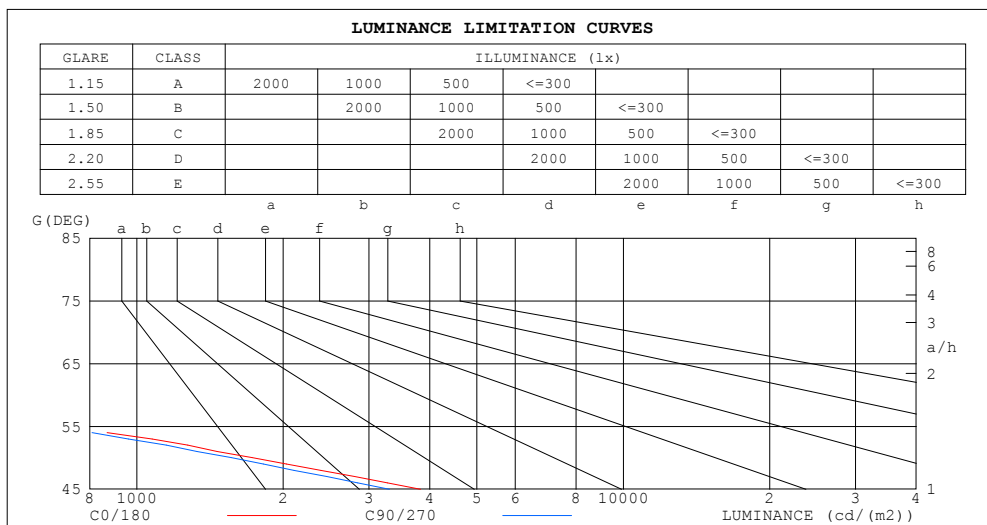
| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 3060                  | 3028   | 3002   | 3012   | 2940   | 2986   | 3017   | 3004   | 0- 10    | 297.9       | 297.9        | 11.1,11.1  |
| 20       | 2396                  | 2320   | 2267   | 2302   | 2185   | 2223   | 2280   | 2264   | 10- 20   | 748.0       | 1046         | 39,39      |
| 30       | 1455                  | 1404   | 1350   | 1396   | 1291   | 1337   | 1374   | 1344   | 20- 30   | 830.6       | 1876         | 70,70      |
| 40       | 543.4                 | 502.3  | 471.3  | 535.0  | 462.8  | 484.4  | 516.5  | 464.1  | 30- 40   | 573.6       | 2450         | 91.4,91.4  |
| 50       | 101.0                 | 96.82  | 91.45  | 103.8  | 88.30  | 95.97  | 93.82  | 77.82  | 40- 50   | 189.4       | 2639         | 98.5,98.5  |
| 60       | 11.22                 | 11.13  | 9.757  | 10.75  | 8.041  | 10.37  | 9.150  | 6.154  | 50- 60   | 35.54       | 2675         | 99.8,99.8  |
| 70       | 0.0727                | 0.0677 | 0.0727 | 0.0702 | 0.0702 | 0.0703 | 0.0605 | 0.0655 | 60- 70   | 1.575       | 2677         | 99.9,99.9  |
| 80       | 0.0364                | 0.0315 | 0.0483 | 0.0388 | 0.0387 | 0.0461 | 0.0435 | 0.0388 | 70- 80   | 0.0572      | 2677         | 99.9,99.9  |
| 90       | 0.0169                | 0.0072 | 0.0048 | 0.0169 | 0.0072 | 0.0121 | 0.0072 | 0.0049 | 80- 90   | 0.0248      | 2677         | 99.9,99.9  |
| 100      | 0.0001                | 0.0024 | 0.0097 | 0.0072 | 0.0024 | 0.0049 | 0.0000 | 0.0121 | 90-100   | 0.0062      | 2677         | 99.9,99.9  |
| 110      | 0.0169                | 0.0242 | 0.0242 | 0.0121 | 0.0146 | 0.0266 | 0.0122 | 0.0265 | 100-110  | 0.0095      | 2677         | 99.9,99.9  |
| 120      | 0.0919                | 0.0946 | 0.0872 | 0.0849 | 0.1043 | 0.1088 | 0.0970 | 0.1016 | 110-120  | 0.0457      | 2677         | 99.9,99.9  |
| 130      | 0.3121                | 0.3224 | 0.3242 | 0.3152 | 0.3661 | 0.3508 | 0.3443 | 0.3775 | 120-130  | 0.1796      | 2677         | 99.9,99.9  |
| 140      | 0.7283                | 0.7439 | 0.7550 | 0.7367 | 0.8241 | 0.8059 | 0.8071 | 0.8422 | 130-140  | 0.4174      | 2677         | 99.9,99.9  |
| 150      | 1.278                 | 1.301  | 1.329  | 1.313  | 1.396  | 1.373  | 1.386  | 1.424  | 140-150  | 0.6580      | 2678         | 99.9,99.9  |
| 160      | 1.874                 | 1.894  | 1.937  | 1.919  | 1.984  | 1.956  | 1.982  | 2.034  | 150-160  | 0.7546      | 2679         | 100,100    |
| 170      | 2.409                 | 2.400  | 2.436  | 2.437  | 2.492  | 2.448  | 2.480  | 2.523  | 160-170  | 0.6205      | 2679         | 100,100    |
| 180      | 2.693                 | 2.630  | 2.678  | 2.703  | 2.693  | 2.635  | 2.671  | 2.698  | 170-180  | 0.2441      | 2680         | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |            |

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2026-01-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.353  
 Humidity:65.0%  
 Test Distance:7.540m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

|                                                                                |                    |                  |
|--------------------------------------------------------------------------------|--------------------|------------------|
| Test:U:121.2V I:0.2290A P:27.60W PF:0.9920 Freq:60.00Hz Lamp Flux:2679.57x1 lm |                    |                  |
| NAME: WL-2CLD3IN30WB5D3HVWH                                                    | TYPE:3000K         | WEIGHT:          |
| SPEC.:                                                                         | DIM.: 4IN          | SERIAL No.:      |
| MFR.: WS                                                                       | SUR.:0.029/*3.1415 | Shielding Angle: |



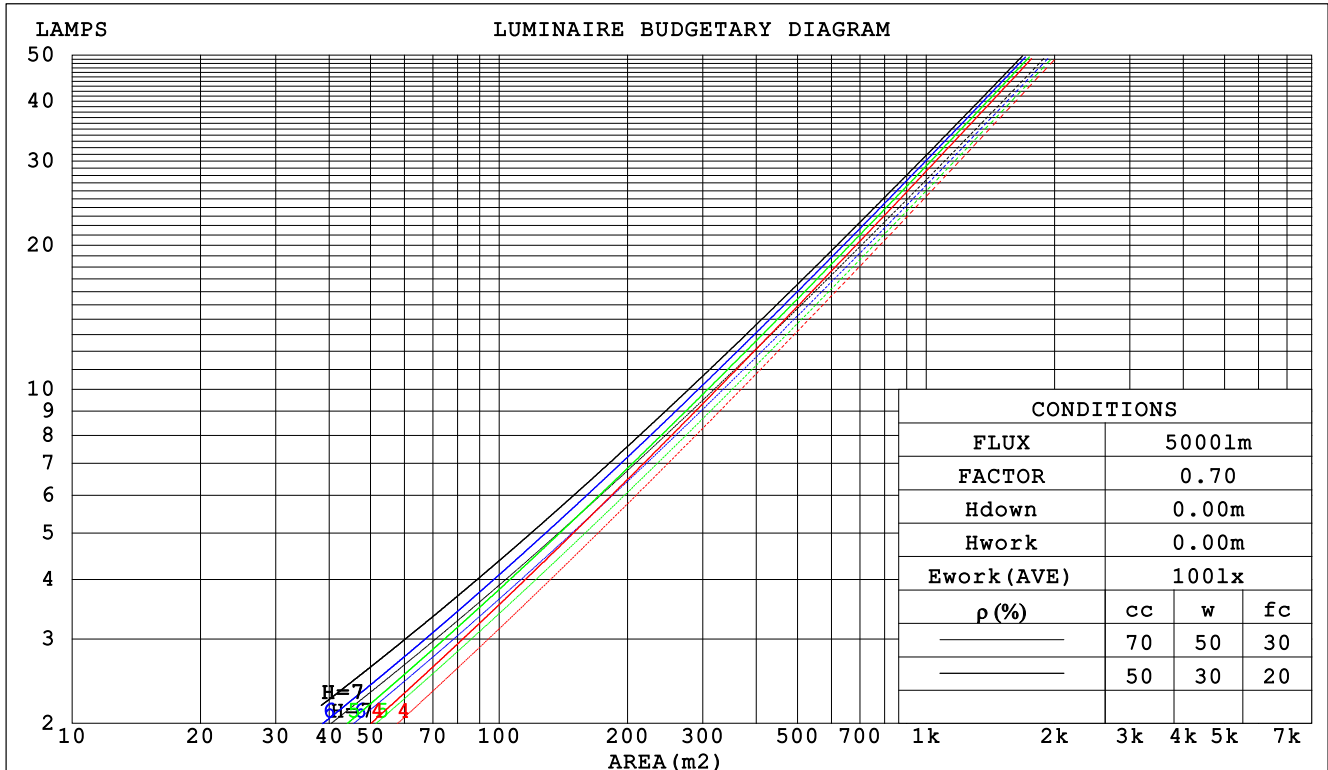
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:7.540m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                |                    |                  |
|--------------------------------------------------------------------------------|--------------------|------------------|
| Test:U:121.2V I:0.2290A P:27.60W PF:0.9920 Freq:60.00Hz Lamp Flux:2679.57x1 lm |                    |                  |
| NAME: WL-2CLD3IN30WB5D3HVWH                                                    | TYPE:3000K         | WEIGHT:          |
| SPEC.:                                                                         | DIM.: 4IN          | SERIAL No.:      |
| MFR.: WS                                                                       | SUR.:0.029/*3.1415 | 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 |      |      |      |      |      | 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         | 1.11                  | 1.08 | 1.06 | 1.09 | 1.06 | 1.04 | 1.05                            | 1.03 | 1.01 | 1.01 | .99  | .98  | .97  | .96  | .95  | .93 |
| 2.0         | 1.03                  | .99  | .96  | 1.01 | .98  | .95  | .98                             | .95  | .93  | .95  | .93  | .91  | .92  | .90  | .89  | .87 |
| 3.0         | .96                   | .91  | .87  | .95  | .90  | .86  | .92                             | .88  | .85  | .90  | .86  | .84  | .87  | .85  | .82  | .81 |
| 4.0         | .90                   | .84  | .80  | .89  | .84  | .80  | .86                             | .82  | .79  | .84  | .81  | .78  | .83  | .79  | .77  | .75 |
| 5.0         | .84                   | .78  | .74  | .83  | .78  | .74  | .81                             | .77  | .73  | .80  | .75  | .72  | .78  | .74  | .72  | .70 |
| 6.0         | .79                   | .73  | .69  | .78  | .72  | .68  | .77                             | .72  | .68  | .75  | .71  | .67  | .74  | .70  | .67  | .65 |
| 7.0         | .74                   | .68  | .64  | .73  | .68  | .64  | .72                             | .67  | .63  | .71  | .66  | .63  | .70  | .66  | .63  | .61 |
| 8.0         | .70                   | .64  | .60  | .69  | .64  | .60  | .68                             | .63  | .59  | .67  | .62  | .59  | .66  | .62  | .59  | .57 |
| 9.0         | .66                   | .60  | .56  | .65  | .60  | .56  | .64                             | .59  | .56  | .64  | .59  | .56  | .63  | .58  | .55  | .54 |
| 10.0        | .62                   | .57  | .53  | .62  | .56  | .53  | .61                             | .56  | .52  | .60  | .56  | .52  | .60  | .55  | .52  | .51 |



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:7.540m [K=1.0000]  
Remarks:

### WEC AND CCEC

|                                                                                |                    |                  |
|--------------------------------------------------------------------------------|--------------------|------------------|
| Test:U:121.2V I:0.2290A P:27.60W PF:0.9920 Freq:60.00Hz Lamp Flux:2679.57x1 lm |                    |                  |
| NAME: WL-2CLD3IN30WB5D3HVWH                                                    | TYPE:3000K         | WEIGHT:          |
| SPEC.:                                                                         | DIM.: 4IN          | SERIAL No.:      |
| MFR.: WS                                                                       | SUR.:0.029/*3.1415 | Shielding Angle: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |  |
| 1.0  | .177                  | .101 | .032 | .170 | .097 | .031 | .158                            | .090 | .029 | .146 | .084 | .027 | .135 | .078 | .025 |   |  |
| 2.0  | .170                  | .093 | .029 | .164 | .091 | .028 | .154                            | .086 | .027 | .144 | .081 | .025 | .135 | .076 | .024 |   |  |
| 3.0  | .163                  | .086 | .026 | .158 | .084 | .025 | .149                            | .081 | .024 | .140 | .077 | .024 | .132 | .073 | .023 |   |  |
| 4.0  | .155                  | .081 | .024 | .151 | .079 | .023 | .143                            | .076 | .023 | .136 | .073 | .022 | .129 | .070 | .021 |   |  |
| 5.0  | .148                  | .075 | .022 | .144 | .074 | .022 | .138                            | .072 | .021 | .131 | .069 | .021 | .125 | .067 | .020 |   |  |
| 6.0  | .142                  | .071 | .020 | .138 | .070 | .020 | .132                            | .068 | .020 | .127 | .066 | .019 | .121 | .064 | .019 |   |  |
| 7.0  | .135                  | .067 | .019 | .133 | .066 | .019 | .127                            | .064 | .019 | .122 | .063 | .018 | .117 | .061 | .018 |   |  |
| 8.0  | .130                  | .063 | .018 | .127 | .063 | .018 | .122                            | .061 | .017 | .118 | .060 | .017 | .114 | .058 | .017 |   |  |
| 9.0  | .124                  | .060 | .017 | .122 | .059 | .017 | .118                            | .058 | .016 | .114 | .057 | .016 | .110 | .056 | .016 |   |  |
| 10.0 | .119                  | .057 | .016 | .117 | .057 | .016 | .113                            | .055 | .016 | .110 | .054 | .015 | .106 | .053 | .015 |   |  |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                                        |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--------------------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                                        | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                                        |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .191                  | .191 | .191 | .164 | .164 | .164 | .112                                       | .112 | .112 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0  | .172                  | .158 | .146 | .147 | .136 | .125 | .101                                       | .093 | .087 | .058 | .054 | .050 | .019 | .017 | .016 |   |
| 2.0  | .157                  | .133 | .114 | .134 | .115 | .098 | .092                                       | .079 | .068 | .053 | .046 | .040 | .017 | .015 | .013 |   |
| 3.0  | .145                  | .114 | .090 | .124 | .099 | .078 | .085                                       | .069 | .055 | .049 | .040 | .032 | .016 | .013 | .011 |   |
| 4.0  | .135                  | .100 | .073 | .115 | .086 | .064 | .079                                       | .060 | .045 | .046 | .035 | .026 | .015 | .011 | .009 |   |
| 5.0  | .126                  | .088 | .060 | .108 | .076 | .052 | .075                                       | .053 | .037 | .043 | .031 | .022 | .014 | .010 | .007 |   |
| 6.0  | .119                  | .079 | .050 | .102 | .068 | .044 | .070                                       | .048 | .031 | .041 | .028 | .018 | .013 | .009 | .006 |   |
| 7.0  | .112                  | .071 | .043 | .097 | .062 | .037 | .067                                       | .043 | .026 | .039 | .026 | .016 | .013 | .008 | .005 |   |
| 8.0  | .107                  | .065 | .037 | .092 | .057 | .032 | .064                                       | .040 | .023 | .037 | .023 | .014 | .012 | .008 | .004 |   |
| 9.0  | .102                  | .060 | .032 | .088 | .052 | .028 | .061                                       | .037 | .020 | .035 | .022 | .012 | .011 | .007 | .004 |   |
| 10.0 | .097                  | .056 | .028 | .084 | .048 | .025 | .058                                       | .034 | .017 | .034 | .020 | .010 | .011 | .007 | .003 |   |

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:7.540m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

|                                                                                |                  |      |      |      |                    |                |      |                  |      |      |
|--------------------------------------------------------------------------------|------------------|------|------|------|--------------------|----------------|------|------------------|------|------|
| Test:U:121.2V I:0.2290A P:27.60W PF:0.9920 Freq:60.00Hz Lamp Flux:2679.57x1 lm |                  |      |      |      |                    |                |      |                  |      |      |
| NAME: WL-2CLD3IN30WB5D3HVWH                                                    |                  |      |      |      | TYPE:3000K         |                |      | WEIGHT:          |      |      |
| SPEC.:                                                                         |                  |      |      |      | DIM.: 4IN          |                |      | SERIAL No.:      |      |      |
| MFR.: WS                                                                       |                  |      |      |      | SUR.:0.029/*3.1415 |                |      | 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                                                                  | 13.1             | 14.1 | 13.4 | 14.3 | 14.4               | 12.7           | 13.6 | 12.9             | 13.8 | 14.0 |
| 3H                                                                             | 13.0             | 13.8 | 13.2 | 14.0 | 14.2               | 12.5           | 13.4 | 12.8             | 13.6 | 13.8 |
| 4H                                                                             | 12.9             | 13.7 | 13.1 | 13.9 | 14.1               | 12.4           | 13.3 | 12.7             | 13.5 | 13.7 |
| 6H                                                                             | 12.8             | 13.6 | 13.1 | 13.8 | 14.0               | 12.3           | 13.1 | 12.6             | 13.4 | 13.6 |
| 8H                                                                             | 12.7             | 13.5 | 13.0 | 13.7 | 14.0               | 12.3           | 13.0 | 12.6             | 13.3 | 13.6 |
| 12H                                                                            | 12.7             | 13.4 | 13.0 | 13.7 | 13.9               | 12.2           | 13.0 | 12.6             | 13.2 | 13.5 |
| 4H 2H                                                                          | 12.9             | 13.7 | 13.2 | 13.9 | 14.2               | 12.4           | 13.3 | 12.7             | 13.5 | 13.7 |
| 3H                                                                             | 12.7             | 13.4 | 13.0 | 13.7 | 14.0               | 12.3           | 13.0 | 12.6             | 13.2 | 13.5 |
| 4H                                                                             | 12.6             | 13.2 | 12.9 | 13.5 | 13.9               | 12.2           | 12.8 | 12.5             | 13.1 | 13.4 |
| 6H                                                                             | 12.5             | 13.1 | 12.9 | 13.4 | 13.8               | 12.1           | 12.6 | 12.4             | 13.0 | 13.3 |
| 8H                                                                             | 12.5             | 13.0 | 12.8 | 13.3 | 13.7               | 12.0           | 12.5 | 12.4             | 12.9 | 13.3 |
| 12H                                                                            | 12.4             | 12.9 | 12.8 | 13.3 | 13.6               | 12.0           | 12.4 | 12.4             | 12.8 | 13.2 |
| 8H 4H                                                                          | 12.5             | 13.0 | 12.8 | 13.3 | 13.7               | 12.0           | 12.5 | 12.4             | 12.9 | 13.3 |
| 6H                                                                             | 12.4             | 12.8 | 12.8 | 13.2 | 13.6               | 11.9           | 12.3 | 12.3             | 12.7 | 13.2 |
| 8H                                                                             | 12.3             | 12.7 | 12.7 | 13.1 | 13.5               | 11.9           | 12.2 | 12.3             | 12.7 | 13.1 |
| 12H                                                                            | 12.2             | 12.6 | 12.7 | 13.0 | 13.5               | 11.8           | 12.1 | 12.3             | 12.6 | 13.0 |
| 12H 4H                                                                         | 12.4             | 12.9 | 12.8 | 13.3 | 13.6               | 12.0           | 12.4 | 12.4             | 12.8 | 13.2 |
| 6H                                                                             | 12.3             | 12.7 | 12.7 | 13.1 | 13.5               | 11.9           | 12.2 | 12.3             | 12.7 | 13.1 |
| 8H                                                                             | 12.2             | 12.6 | 12.7 | 13.0 | 13.5               | 11.8           | 12.1 | 12.3             | 12.6 | 13.0 |
| Variations with the observer position at spacings:                             |                  |      |      |      |                    |                |      |                  |      |      |
| S = 1.0H                                                                       | + 3.4 / -14.0    |      |      |      |                    | + 3.2 / -13.7  |      |                  |      |      |
| 1.5H                                                                           | + 5.4 / -10.1    |      |      |      |                    | + 5.1 / - 9.6  |      |                  |      |      |
| 2.0H                                                                           | + 6.8 / -31.8    |      |      |      |                    | + 6.4 / -34.5  |      |                  |      |      |

CIE Pub.117 Corrected 2680 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.4)

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:7.540m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|                                                                                |                    |                  |
|--------------------------------------------------------------------------------|--------------------|------------------|
| Test:U:121.2V I:0.2290A P:27.60W PF:0.9920 Freq:60.00Hz Lamp Flux:2679.57x1 lm |                    |                  |
| NAME: WL-2CLD3IN30WB5D3HVWH                                                    | TYPE:3000K         | WEIGHT:          |
| SPEC.:                                                                         | DIM.: 4IN          | SERIAL No.:      |
| MFR.: WS                                                                       | SUR.:0.029/*3.1415 | Shielding Angle: |

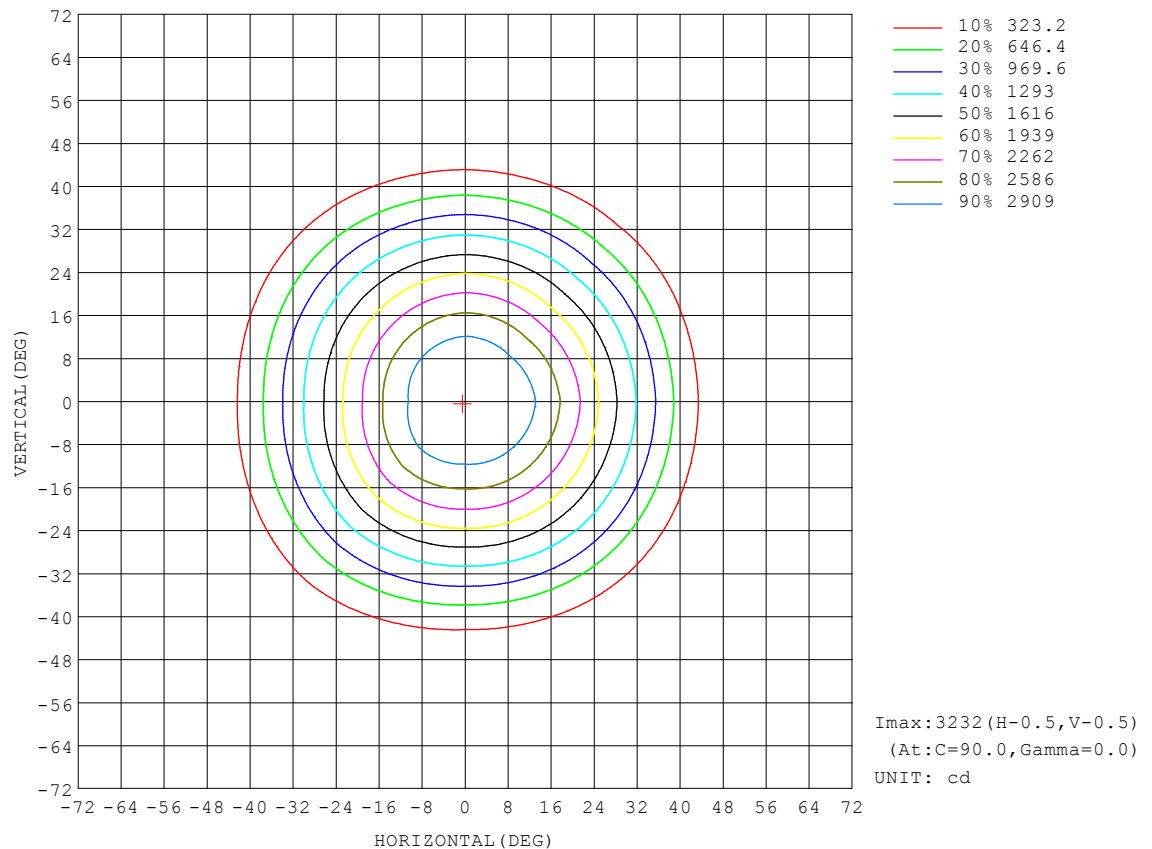
| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 86                                                   | 79  | 76        | 86  | 79  | 75  | 85  | 79            | 75  | 72     |
| 0.80                             | 94                                                   | 88  | 84        | 93  | 87  | 84  | 92  | 87            | 83  | 80     |
| 1.00                             | 99                                                   | 93  | 89        | 98  | 92  | 89  | 96  | 92            | 88  | 84     |
| 1.25                             | 103                                                  | 98  | 94        | 102 | 97  | 94  | 100 | 96            | 93  | 89     |
| 1.50                             | 106                                                  | 101 | 97        | 104 | 100 | 97  | 102 | 99            | 96  | 91     |
| 2.00                             | 108                                                  | 104 | 101       | 107 | 103 | 100 | 104 | 101           | 99  | 94     |
| 2.50                             | 110                                                  | 106 | 103       | 108 | 105 | 102 | 105 | 103           | 100 | 95     |
| 3.00                             | 112                                                  | 108 | 106       | 110 | 107 | 104 | 106 | 104           | 102 | 96     |
| 4.00                             | 114                                                  | 111 | 109       | 112 | 109 | 107 | 108 | 106           | 105 | 97     |
| 5.00                             | 115                                                  | 113 | 111       | 113 | 111 | 109 | 109 | 107           | 106 | 98     |
| ROOM INDEX                       | UF (total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                      |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:7.540m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

|                                                                                |                    |                  |
|--------------------------------------------------------------------------------|--------------------|------------------|
| Test:U:121.2V I:0.2290A P:27.60W PF:0.9920 Freq:60.00Hz Lamp Flux:2679.57x1 lm |                    |                  |
| NAME: WL-2CLD3IN30WB5D3HVWH                                                    | TYPE:3000K         | WEIGHT:          |
| SPEC.:                                                                         | DIM.: 4IN          | SERIAL No.:      |
| MFR.: WS                                                                       | SUR.:0.029/*3.1415 | Shielding Angle: |

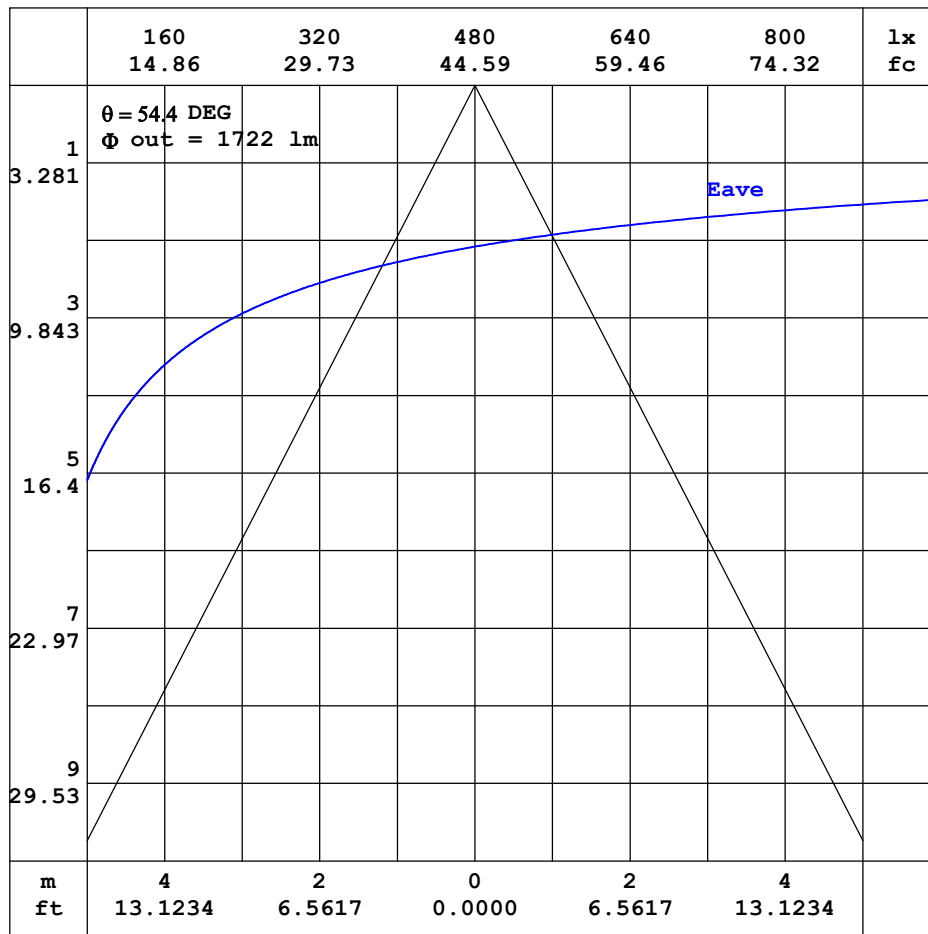


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:7.540m [K=1.0000]  
Remarks:

### AAI CURVES

|                                                                                |                    |                  |
|--------------------------------------------------------------------------------|--------------------|------------------|
| Test:U:121.2V I:0.2290A P:27.60W PF:0.9920 Freq:60.00Hz Lamp Flux:2679.57x1 lm |                    |                  |
| NAME: WL-2CLD3IN30WB5D3HVWH                                                    | TYPE:3000K         | WEIGHT:          |
| SPEC.:                                                                         | DIM.: 4IN          | SERIAL No.:      |
| MFR.: WS                                                                       | SUR.:0.029/*3.1415 | Shielding Angle: |



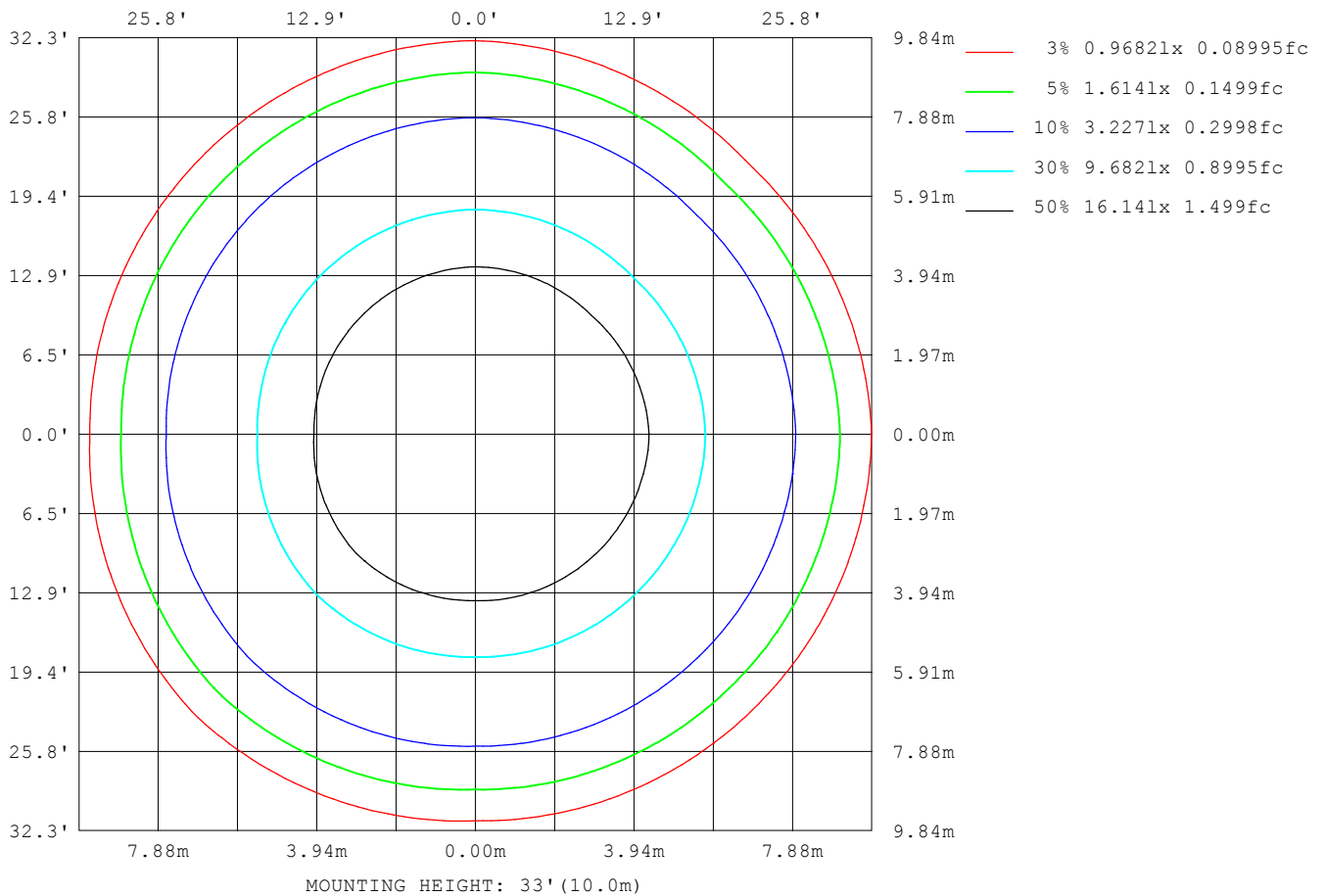
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2026-01-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.353  
 Humidity: 65.0%  
 Test Distance: 7.540m [K=1.0000]  
 Remarks:

# ISOLUX DIAGRAM

|                                                                                |                    |                  |
|--------------------------------------------------------------------------------|--------------------|------------------|
| Test:U:121.2V I:0.2290A P:27.60W PF:0.9920 Freq:60.00Hz Lamp Flux:2679.57x1 lm |                    |                  |
| NAME: WL-2CLD3IN30WB5D3HVWH                                                    | TYPE:3000K         | WEIGHT:          |
| SPEC.:                                                                         | DIM.: 4IN          | SERIAL No.:      |
| MFR.: WS                                                                       | SUR.:0.029/*3.1415 | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:7.540m [K=1.0000]  
Remarks:

## LED Avg.L Report

|                                                                                |                    |                  |
|--------------------------------------------------------------------------------|--------------------|------------------|
| Test:U:121.2V I:0.2290A P:27.60W PF:0.9920 Freq:60.00Hz Lamp Flux:2679.57x1 lm |                    |                  |
| NAME: WL-2CLD3IN30WB5D3HVWH                                                    | TYPE:3000K         | WEIGHT:          |
| SPEC.:                                                                         | DIM.: 4IN          | SERIAL No.:      |
| MFR.: WS                                                                       | SUR.:0.029/*3.1415 | Shielding Angle: |

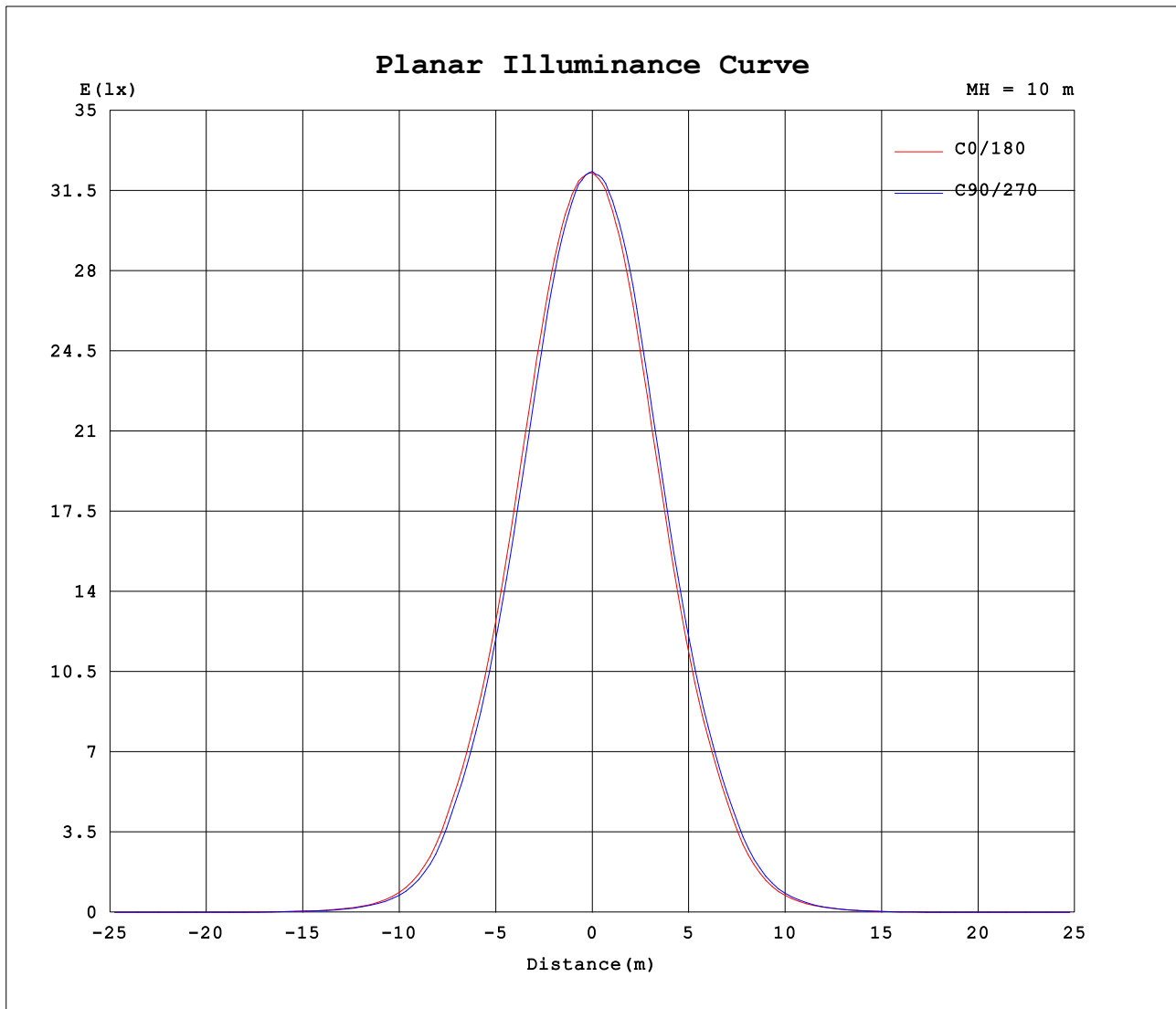
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 3     |
| L_0~180 (75) av  | 2     |
| L_0~180 (85) av  | 2     |
| L_90~270 (65) av | 2     |
| L_90~270 (75) av | 2     |
| L_90~270 (85) av | 3     |
| L_45 (65) av     | 3     |
| L_45 (75) av     | 2     |
| L_45 (85) av     | 3     |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:7.540m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2026-01-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.353  
Humidity: 65.0%  
Test Distance: 7.540m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                |                    |                  |
|--------------------------------------------------------------------------------|--------------------|------------------|
| Test:U:121.2V I:0.2290A P:27.60W PF:0.9920 Freq:60.00Hz Lamp Flux:2679.57x1 lm |                    |                  |
| NAME: WL-2CLD3IN30WB5D3HVWH                                                    | TYPE:3000K         | WEIGHT:          |
| SPEC.:                                                                         | DIM.: 4IN          | SERIAL No.:      |
| MFR.: WS                                                                       | SUR.:0.029/*3.1415 | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 45   | 90   | 135  | 180  | 225  | 270  | 315  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| 0                  | 3227 | 3226 | 3233 | 3233 | 3227 | 3226 | 3233 | 3233 |  |  |  |  |  |  |  |  |  |  |
| 5                  | 3200 | 3185 | 3178 | 3187 | 3144 | 3166 | 3179 | 3176 |  |  |  |  |  |  |  |  |  |  |
| 10                 | 3060 | 3028 | 3002 | 3012 | 2940 | 2986 | 3017 | 3004 |  |  |  |  |  |  |  |  |  |  |
| 15                 | 2789 | 2731 | 2682 | 2714 | 2606 | 2651 | 2704 | 2685 |  |  |  |  |  |  |  |  |  |  |
| 20                 | 2396 | 2320 | 2267 | 2302 | 2185 | 2223 | 2280 | 2264 |  |  |  |  |  |  |  |  |  |  |
| 25                 | 1924 | 1864 | 1812 | 1848 | 1728 | 1776 | 1828 | 1804 |  |  |  |  |  |  |  |  |  |  |
| 30                 | 1455 | 1404 | 1350 | 1396 | 1291 | 1337 | 1374 | 1344 |  |  |  |  |  |  |  |  |  |  |
| 35                 | 1012 | 962  | 918  | 972  | 876  | 916  | 948  | 909  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 543  | 502  | 471  | 535  | 463  | 484  | 517  | 464  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 246  | 228  | 213  | 250  | 210  | 223  | 235  | 202  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 101  | 96.8 | 91.4 | 104  | 88.3 | 96.0 | 93.8 | 77.8 |  |  |  |  |  |  |  |  |  |  |
| 55                 | 38.2 | 37.3 | 35.8 | 37.0 | 34.4 | 35.2 | 32.5 | 26.2 |  |  |  |  |  |  |  |  |  |  |
| 60                 | 11.2 | 11.1 | 9.76 | 10.7 | 8.04 | 10.4 | 9.15 | 6.15 |  |  |  |  |  |  |  |  |  |  |
| 65                 | 0.12 | 0.09 | 0.09 | 0.14 | 0.09 | 0.10 | 0.10 | 0.09 |  |  |  |  |  |  |  |  |  |  |
| 70                 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.06 | 0.07 |  |  |  |  |  |  |  |  |  |  |
| 75                 | 0.06 | 0.05 | 0.05 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 |  |  |  |  |  |  |  |  |  |  |
| 80                 | 0.04 | 0.03 | 0.05 | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 |  |  |  |  |  |  |  |  |  |  |
| 85                 | 0.02 | 0.02 | 0.03 | 0.03 | 0.02 | 0.03 | 0.02 | 0.02 |  |  |  |  |  |  |  |  |  |  |
| 90                 | 0.02 | 0.01 | 0.00 | 0.02 | 0.01 | 0.01 | 0.01 | 0.00 |  |  |  |  |  |  |  |  |  |  |
| 95                 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |  |  |  |  |
| 100                | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 |  |  |  |  |  |  |  |  |  |  |
| 105                | 0.02 | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 | 0.00 | 0.01 |  |  |  |  |  |  |  |  |  |  |
| 110                | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.03 | 0.01 | 0.03 |  |  |  |  |  |  |  |  |  |  |
| 115                | 0.04 | 0.04 | 0.04 | 0.03 | 0.05 | 0.05 | 0.04 | 0.05 |  |  |  |  |  |  |  |  |  |  |
| 120                | 0.09 | 0.09 | 0.09 | 0.08 | 0.10 | 0.11 | 0.10 | 0.10 |  |  |  |  |  |  |  |  |  |  |
| 125                | 0.18 | 0.18 | 0.19 | 0.17 | 0.21 | 0.20 | 0.20 | 0.22 |  |  |  |  |  |  |  |  |  |  |
| 130                | 0.31 | 0.32 | 0.32 | 0.32 | 0.37 | 0.35 | 0.34 | 0.38 |  |  |  |  |  |  |  |  |  |  |
| 135                | 0.50 | 0.52 | 0.52 | 0.50 | 0.57 | 0.56 | 0.55 | 0.58 |  |  |  |  |  |  |  |  |  |  |
| 140                | 0.73 | 0.74 | 0.75 | 0.74 | 0.82 | 0.81 | 0.81 | 0.84 |  |  |  |  |  |  |  |  |  |  |
| 145                | 0.99 | 1.02 | 1.03 | 1.02 | 1.11 | 1.08 | 1.08 | 1.12 |  |  |  |  |  |  |  |  |  |  |
| 150                | 1.28 | 1.30 | 1.33 | 1.31 | 1.40 | 1.37 | 1.39 | 1.42 |  |  |  |  |  |  |  |  |  |  |
| 155                | 1.57 | 1.60 | 1.63 | 1.62 | 1.69 | 1.67 | 1.69 | 1.73 |  |  |  |  |  |  |  |  |  |  |
| 160                | 1.87 | 1.89 | 1.94 | 1.92 | 1.98 | 1.96 | 1.98 | 2.03 |  |  |  |  |  |  |  |  |  |  |
| 165                | 2.16 | 2.17 | 2.21 | 2.19 | 2.27 | 2.23 | 2.26 | 2.31 |  |  |  |  |  |  |  |  |  |  |
| 170                | 2.41 | 2.40 | 2.44 | 2.44 | 2.49 | 2.45 | 2.48 | 2.52 |  |  |  |  |  |  |  |  |  |  |
| 175                | 2.60 | 2.56 | 2.60 | 2.61 | 2.65 | 2.58 | 2.63 | 2.66 |  |  |  |  |  |  |  |  |  |  |
| 180                | 2.69 | 2.63 | 2.68 | 2.70 | 2.69 | 2.63 | 2.67 | 2.70 |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.353  
Humidity:65.0%  
Test Distance:7.540m [K=1.0000]  
Remarks: