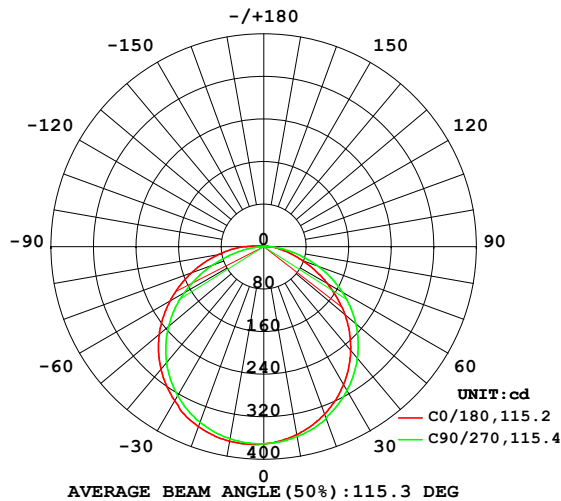


## LUMINAIRE PHOTOMETRIC TEST REPORT

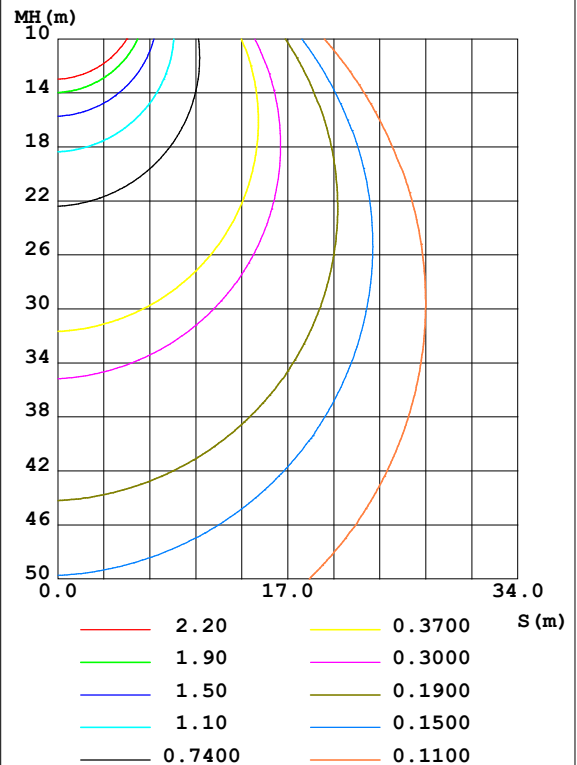
|                                                                              |       |  |
|------------------------------------------------------------------------------|-------|--|
| Test:U:24.000V I:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1127.69x1 lm |       |  |
| NAME: 7418 2835 138LED. 4000K IRC97 24V                                      | TYPE: |  |
| SPEC.:                                                                       |       |  |
| MFR.: NORDECOR                                                               |       |  |

| DATA OF LAMP     |         | PHOTOMETRIC DATA Eff: 93.97 lm/W |        |                        |          |
|------------------|---------|----------------------------------|--------|------------------------|----------|
| MODEL            |         | Imax(cd)                         | 372.8  | S/MH(C0/180)           | 1.34     |
| NOMINAL POWER(W) | 12      | LOR(%)                           | 100.0  | S/MH(C90/270)          | 1.30     |
| RATED VOLTAGE(V) | 24      | TOTAL FLUX(lm)                   | 1127.7 | $\eta$ UP,DN(C0-180)   | 0.7,45.6 |
| NOMINAL FLUX(lm) | 1127.69 | CIE CLASS                        | DIRECT | $\eta$ UP,DN(C180-360) | 0.9,52.7 |
| LAMPS INSIDE     | 1       | $\eta$ up(%)                     | 1.6    | CIBSE SHR NOM          | 1.25     |
| TEST VOLTAGE(V)  | 220     | $\eta$ down(%)                   | 98.4   | CIBSE SHR MAX          | 1.35     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yuan  
Test Date:2026-05-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C90   | C180  | C270   |  |  |  |  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|-------|-------|--------|--|--|--|--|----------|-------------|--------------|------------|
| 10       | 358.8                 | 362.8 | 371.4 | 366.8  |  |  |  |  | 0- 10    | 35.12       | 35.12        | 3.11,3.11  |
| 20       | 335.0                 | 343.6 | 359.9 | 351.4  |  |  |  |  | 10- 20   | 101.0       | 136.1        | 12.1,12.1  |
| 30       | 299.9                 | 312.8 | 334.8 | 323.8  |  |  |  |  | 20- 30   | 154.0       | 290.1        | 25.7,25.7  |
| 40       | 254.5                 | 273.9 | 300.9 | 284.5  |  |  |  |  | 30- 40   | 187.3       | 477.4        | 42.3,42.3  |
| 50       | 199.7                 | 226.2 | 256.6 | 233.8  |  |  |  |  | 40- 50   | 196.6       | 674.0        | 59.8,59.8  |
| 60       | 137.5                 | 170.6 | 203.4 | 171.8  |  |  |  |  | 50- 60   | 179.4       | 853.4        | 75.7,75.7  |
| 70       | 78.07                 | 108.8 | 144.8 | 103.6  |  |  |  |  | 60- 70   | 138.4       | 991.8        | 88,88      |
| 80       | 34.49                 | 48.69 | 86.40 | 39.12  |  |  |  |  | 70- 80   | 83.95       | 1076         | 95.4,95.4  |
| 90       | 11.70                 | 7.728 | 36.70 | 0.9250 |  |  |  |  | 80- 90   | 33.42       | 1109         | 98.4,98.4  |
| 100      | 4.001                 | 1.149 | 6.224 | 1.006  |  |  |  |  | 90-100   | 7.682       | 1117         | 99,99      |
| 110      | 1.683                 | 1.506 | 1.245 | 1.273  |  |  |  |  | 100-110  | 2.054       | 1119         | 99.2,99.2  |
| 120      | 1.824                 | 1.899 | 1.484 | 1.636  |  |  |  |  | 110-120  | 1.539       | 1120         | 99.4,99.4  |
| 130      | 2.097                 | 2.245 | 1.785 | 1.949  |  |  |  |  | 120-130  | 1.669       | 1122         | 99.5,99.5  |
| 140      | 2.376                 | 2.541 | 2.087 | 2.255  |  |  |  |  | 130-140  | 1.677       | 1124         | 99.7,99.7  |
| 150      | 2.586                 | 2.740 | 2.370 | 2.472  |  |  |  |  | 140-150  | 1.527       | 1125         | 99.8,99.8  |
| 160      | 2.796                 | 2.933 | 2.734 | 2.818  |  |  |  |  | 150-160  | 1.239       | 1127         | 99.9,99.9  |
| 170      | 3.001                 | 3.064 | 2.950 | 2.950  |  |  |  |  | 160-170  | 0.8228      | 1127         | 100,100    |
| 180      | 3.035                 | 3.098 | 3.041 | 3.092  |  |  |  |  | 170-180  | 0.2886      | 1128         | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |       |       |        |  |  |  |  |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 576.18 lm

%lum = 51.1%

%lamp = 51.1%

Conical surface Flux(120deg): 853.37 lm

%lum = 75.7%

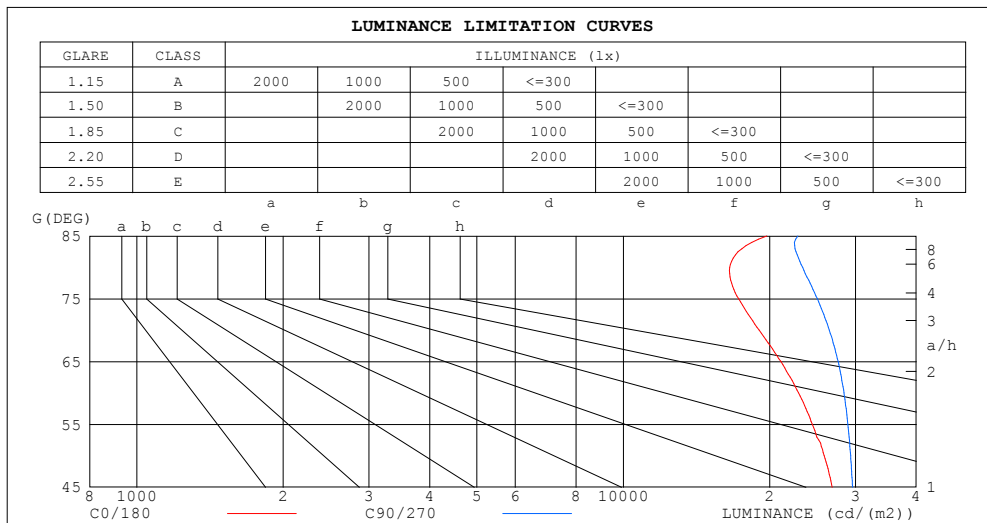
%lamp = 75.7%

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:yuan  
 Test Date:2026-05-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

|                                                                              |       |  |
|------------------------------------------------------------------------------|-------|--|
| Test:U:24.000V I:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1127.69x1 lm |       |  |
| NAME: 7418 2835 138LED. 4000K IRC97 24V                                      | TYPE: |  |
| SPEC.:                                                                       |       |  |
| MFR.: NORDECOR                                                               |       |  |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 19721  | 22836   |
| 80                | 16553  | 23366   |
| 75                | 17263  | 25055   |
| 70                | 19021  | 26504   |
| 65                | 21082  | 27640   |
| 60                | 22924  | 28427   |
| 55                | 24479  | 28954   |
| 50                | 25892  | 29329   |
| 45                | 26883  | 29595   |

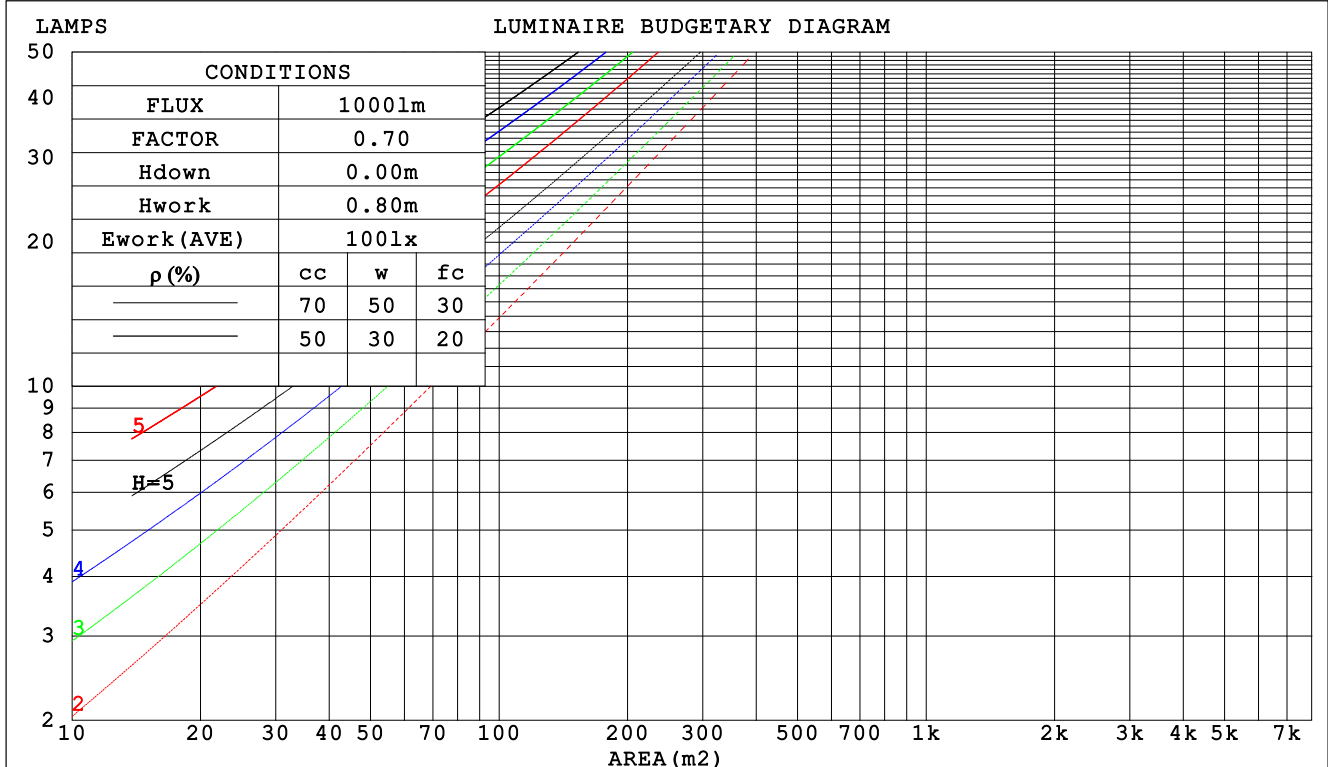
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yuan  
Test Date:2026-05-06

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                              |       |  |
|------------------------------------------------------------------------------|-------|--|
| Test:U:24.000V I:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1127.69x1 lm |       |  |
| NAME: 7418 2835 138LED. 4000K IRC97 24V                                      | TYPE: |  |
| SPEC.:                                                                       |       |  |
| MFR.: NORDECOR                                                               |       |  |

| $\rho_{cc}$ | 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 | 1.10                            | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.01 | 1.01 | 1.01 | .98 |
| 1.0         | 1.03                  | .98  | .94  | 1.00 | .96  | .92  | .96                             | .92  | .89  | .91  | .89  | .86  | .88  | .85  | .83  | .81 |
| 2.0         | .89                   | .82  | .76  | .87  | .81  | .75  | .83                             | .78  | .73  | .80  | .75  | .71  | .76  | .73  | .69  | .67 |
| 3.0         | .78                   | .70  | .63  | .76  | .69  | .62  | .73                             | .66  | .61  | .70  | .64  | .60  | .67  | .63  | .58  | .56 |
| 4.0         | .69                   | .60  | .53  | .68  | .59  | .53  | .65                             | .58  | .52  | .62  | .56  | .51  | .60  | .55  | .50  | .48 |
| 5.0         | .62                   | .52  | .46  | .60  | .52  | .45  | .58                             | .50  | .45  | .56  | .49  | .44  | .54  | .48  | .43  | .41 |
| 6.0         | .55                   | .46  | .40  | .54  | .46  | .39  | .52                             | .45  | .39  | .50  | .44  | .39  | .49  | .43  | .38  | .36 |
| 7.0         | .50                   | .41  | .35  | .49  | .41  | .35  | .48                             | .40  | .34  | .46  | .39  | .34  | .44  | .38  | .34  | .32 |
| 8.0         | .46                   | .37  | .31  | .45  | .37  | .31  | .43                             | .36  | .31  | .42  | .35  | .30  | .41  | .35  | .30  | .28 |
| 9.0         | .42                   | .34  | .28  | .41  | .33  | .28  | .40                             | .33  | .28  | .39  | .32  | .27  | .38  | .32  | .27  | .25 |
| 10.0        | .39                   | .31  | .25  | .38  | .30  | .25  | .37                             | .30  | .25  | .36  | .29  | .25  | .35  | .29  | .25  | .23 |



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yuan  
Test Date:2026-05-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## WEC AND CCEC

|                                                                              |       |  |
|------------------------------------------------------------------------------|-------|--|
| Test:U:24.000V I:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1127.69x1 lm |       |  |
| NAME: 7418 2835 138LED. 4000K IRC97 24V                                      | TYPE: |  |
| SPEC.:                                                                       |       |  |
| MFR.: NORDECOR                                                               |       |  |

| 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  | .324                  | .184 | .058 | .317 | .181 | .057 | .302                             | .173 | .055 | .289 | .167 | .054 | .277 | .161 | .052 |   |  |
| 2.0  | .300                  | .164 | .050 | .293 | .162 | .050 | .281                             | .156 | .048 | .269 | .151 | .047 | .258 | .146 | .046 |   |  |
| 3.0  | .276                  | .147 | .044 | .270 | .144 | .043 | .258                             | .140 | .043 | .248 | .136 | .042 | .238 | .132 | .041 |   |  |
| 4.0  | .253                  | .132 | .039 | .248 | .130 | .038 | .238                             | .126 | .038 | .229 | .123 | .037 | .220 | .120 | .036 |   |  |
| 5.0  | .233                  | .119 | .034 | .229 | .117 | .034 | .220                             | .114 | .034 | .211 | .112 | .033 | .204 | .109 | .033 |   |  |
| 6.0  | .216                  | .108 | .031 | .212 | .107 | .031 | .204                             | .104 | .030 | .196 | .102 | .030 | .189 | .100 | .030 |   |  |
| 7.0  | .201                  | .099 | .028 | .197 | .098 | .028 | .190                             | .096 | .028 | .183 | .094 | .027 | .177 | .092 | .027 |   |  |
| 8.0  | .187                  | .091 | .026 | .184 | .090 | .026 | .177                             | .089 | .025 | .171 | .087 | .025 | .166 | .085 | .025 |   |  |
| 9.0  | .175                  | .085 | .024 | .172 | .084 | .024 | .166                             | .082 | .023 | .161 | .081 | .023 | .156 | .079 | .023 |   |  |
| 10.0 | .165                  | .079 | .022 | .162 | .078 | .022 | .157                             | .077 | .022 | .152 | .075 | .021 | .147 | .074 | .021 |   |  |

| 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  | .203                  | .203 | .203 | .173 | .173 | .173 | .118                                       | .118 | .118 | .068 | .068 | .068 | .022 | .022 | .022 |   |
| 1.0  | .194                  | .169 | .146 | .166 | .145 | .126 | .113                                       | .100 | .087 | .065 | .058 | .050 | .021 | .019 | .016 |   |
| 2.0  | .186                  | .145 | .110 | .159 | .124 | .095 | .109                                       | .086 | .066 | .063 | .050 | .039 | .020 | .016 | .013 |   |
| 3.0  | .178                  | .127 | .086 | .153 | .110 | .075 | .105                                       | .076 | .052 | .061 | .044 | .031 | .019 | .014 | .010 |   |
| 4.0  | .171                  | .114 | .071 | .146 | .098 | .061 | .101                                       | .069 | .043 | .058 | .040 | .026 | .019 | .013 | .008 |   |
| 5.0  | .163                  | .104 | .060 | .140 | .090 | .052 | .097                                       | .063 | .037 | .056 | .037 | .022 | .018 | .012 | .007 |   |
| 6.0  | .156                  | .095 | .052 | .134 | .082 | .045 | .092                                       | .058 | .032 | .054 | .034 | .019 | .017 | .011 | .006 |   |
| 7.0  | .149                  | .088 | .046 | .128 | .077 | .040 | .089                                       | .054 | .028 | .051 | .032 | .017 | .017 | .010 | .006 |   |
| 8.0  | .142                  | .083 | .041 | .123 | .072 | .036 | .085                                       | .050 | .026 | .049 | .030 | .015 | .016 | .010 | .005 |   |
| 9.0  | .136                  | .078 | .038 | .117 | .067 | .033 | .081                                       | .047 | .024 | .047 | .028 | .014 | .015 | .009 | .005 |   |
| 10.0 | .131                  | .073 | .035 | .113 | .064 | .031 | .078                                       | .045 | .022 | .046 | .027 | .013 | .015 | .009 | .004 |   |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yuan  
Test Date:2026-05-06

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:8.000m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

|                                                                              |                  |      |      |      |       |                |      |      |      |      |
|------------------------------------------------------------------------------|------------------|------|------|------|-------|----------------|------|------|------|------|
| Test:U:24.000V I:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1127.69x1 lm |                  |      |      |      |       |                |      |      |      |      |
| NAME: 7418 2835 138LED. 4000K IRC97 24V                                      |                  |      |      |      | TYPE: |                |      |      |      |      |
| SPEC.:                                                                       |                  |      |      |      |       |                |      |      |      |      |
| MFR.: NORDECOR                                                               |                  |      |      |      |       |                |      |      |      |      |
| 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                                                                | 23.1             | 24.6 | 23.4 | 24.8 | 25.1  | 23.8           | 25.3 | 24.1 | 25.6 | 25.8 |
| 3H                                                                           | 24.3             | 25.8 | 24.7 | 26.0 | 26.3  | 25.4           | 26.8 | 25.7 | 27.1 | 27.3 |
| 4H                                                                           | 24.8             | 26.2 | 25.2 | 26.4 | 26.7  | 26.1           | 27.4 | 26.4 | 27.7 | 28.0 |
| 6H                                                                           | 25.2             | 26.4 | 25.5 | 26.7 | 27.1  | 26.6           | 27.8 | 26.9 | 28.1 | 28.4 |
| 8H                                                                           | 25.3             | 26.5 | 25.7 | 26.9 | 27.2  | 26.7           | 27.9 | 27.1 | 28.3 | 28.6 |
| 12H                                                                          | 25.5             | 26.6 | 25.8 | 27.0 | 27.3  | 26.9           | 28.0 | 27.2 | 28.4 | 28.7 |
| 4H 2H                                                                        | 23.7             | 25.1 | 24.1 | 25.4 | 25.7  | 24.3           | 25.6 | 24.6 | 25.9 | 26.2 |
| 3H                                                                           | 25.2             | 26.4 | 25.6 | 26.7 | 27.0  | 26.1           | 27.2 | 26.4 | 27.6 | 27.9 |
| 4H                                                                           | 25.8             | 26.9 | 26.2 | 27.2 | 27.6  | 26.9           | 27.9 | 27.3 | 28.3 | 28.6 |
| 6H                                                                           | 26.3             | 27.2 | 26.7 | 27.6 | 28.0  | 27.5           | 28.4 | 27.9 | 28.8 | 29.2 |
| 8H                                                                           | 26.5             | 27.4 | 26.9 | 27.8 | 28.2  | 27.7           | 28.6 | 28.2 | 29.0 | 29.4 |
| 12H                                                                          | 26.7             | 27.5 | 27.1 | 27.9 | 28.4  | 27.9           | 28.7 | 28.4 | 29.2 | 29.6 |
| 8H 4H                                                                        | 26.1             | 27.0 | 26.6 | 27.4 | 27.8  | 27.1           | 27.9 | 27.5 | 28.3 | 28.8 |
| 6H                                                                           | 26.8             | 27.5 | 27.2 | 28.0 | 28.4  | 27.8           | 28.6 | 28.3 | 29.0 | 29.5 |
| 8H                                                                           | 27.1             | 27.7 | 27.6 | 28.2 | 28.7  | 28.2           | 28.9 | 28.7 | 29.3 | 29.8 |
| 12H                                                                          | 27.4             | 28.0 | 27.9 | 28.4 | 29.0  | 28.5           | 29.1 | 29.0 | 29.5 | 30.1 |
| 12H 4H                                                                       | 26.1             | 27.0 | 26.6 | 27.4 | 27.8  | 27.1           | 27.9 | 27.5 | 28.3 | 28.7 |
| 6H                                                                           | 26.9             | 27.5 | 27.4 | 28.0 | 28.5  | 27.9           | 28.6 | 28.4 | 29.0 | 29.5 |
| 8H                                                                           | 27.2             | 27.8 | 27.7 | 28.3 | 28.8  | 28.3           | 28.9 | 28.8 | 29.3 | 29.8 |
| Variations with the observer position at spacings:                           |                  |      |      |      |       |                |      |      |      |      |
| S = 1.0H                                                                     | + 0.2 / - 0.2    |      |      |      |       | + 0.1 / - 0.2  |      |      |      |      |
| 1.5H                                                                         | + 0.2 / - 0.4    |      |      |      |       | + 0.2 / - 0.3  |      |      |      |      |
| 2.0H                                                                         | + 0.2 / - 0.4    |      |      |      |       | + 0.2 / - 0.3  |      |      |      |      |

CIE Pub.117, 1128 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 0.4$ )  
Area: 0.012 m<sup>2</sup>

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yuan  
Test Date:2026-05-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:8.000m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|                                                                              |       |  |
|------------------------------------------------------------------------------|-------|--|
| Test:U:24.000V I:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1127.69x1 lm |       |  |
| NAME: 7418 2835 138LED. 4000K IRC97 24V                                      | TYPE: |  |
| SPEC.:                                                                       |       |  |
| MFR.: NORDECOR                                                               |       |  |

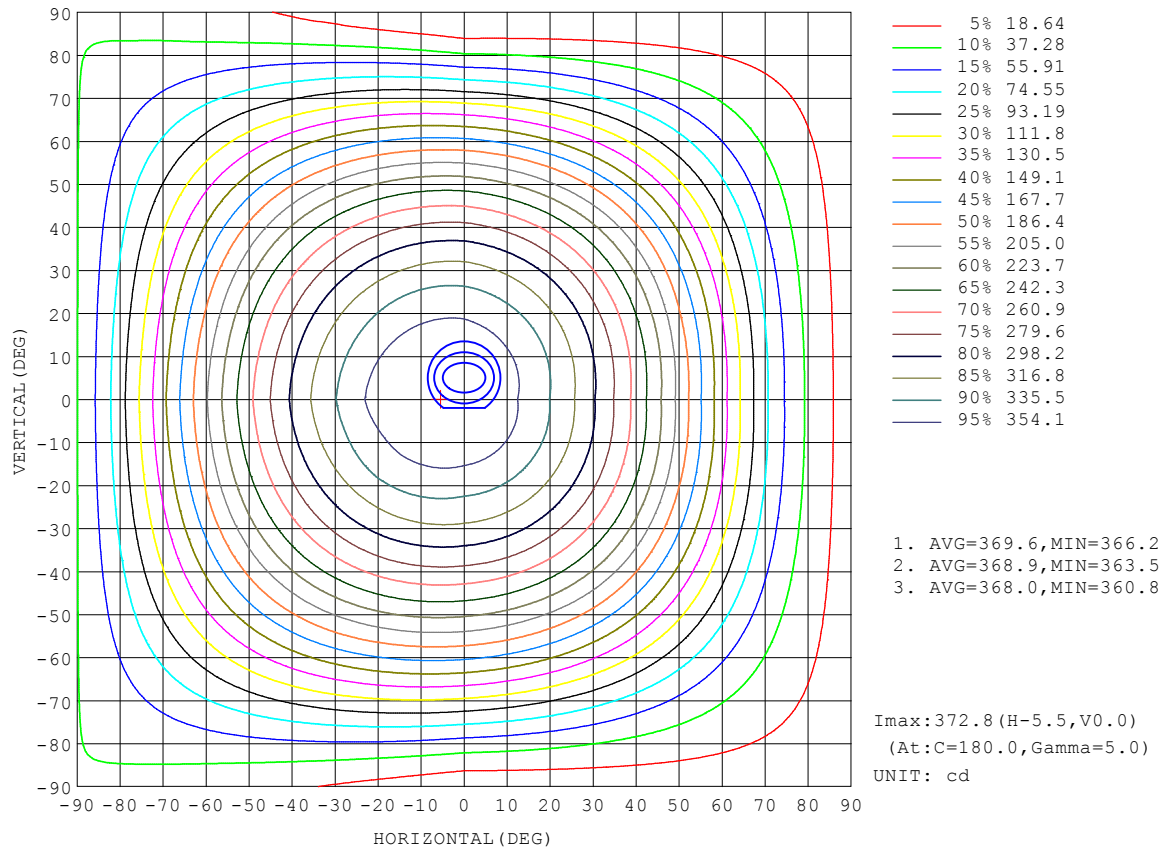
| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 56                                                   | 44  | 37        | 55  | 44  | 37  | 54  | 44            | 37  | 30     |
| 0.80                             | 66                                                   | 54  | 47        | 65  | 54  | 47  | 63  | 53            | 46  | 39     |
| 1.00                             | 74                                                   | 63  | 56        | 73  | 62  | 55  | 71  | 64            | 55  | 47     |
| 1.25                             | 82                                                   | 71  | 63        | 80  | 70  | 63  | 77  | 68            | 62  | 54     |
| 1.50                             | 87                                                   | 76  | 69        | 85  | 75  | 69  | 82  | 73            | 67  | 59     |
| 2.00                             | 94                                                   | 85  | 78        | 92  | 83  | 77  | 88  | 81            | 75  | 67     |
| 2.50                             | 98                                                   | 89  | 83        | 95  | 88  | 82  | 91  | 85            | 80  | 71     |
| 3.00                             | 101                                                  | 94  | 88        | 99  | 92  | 87  | 94  | 89            | 84  | 75     |
| 4.00                             | 105                                                  | 99  | 94        | 103 | 97  | 93  | 98  | 94            | 90  | 80     |
| 5.00                             | 108                                                  | 102 | 98        | 105 | 100 | 96  | 100 | 96            | 93  | 83     |
| ROOM INDEX                       | UF (total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                      |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: yuan  
Test Date: 2026-05-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity: 65.0%  
Test Distance: 8.000m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

|                                                                              |       |  |
|------------------------------------------------------------------------------|-------|--|
| Test:U:24.000V I:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1127.69x1 lm |       |  |
| NAME: 7418 2835 138LED. 4000K IRC97 24V                                      | TYPE: |  |
| SPEC.:                                                                       |       |  |
| MFR.: NORDECOR                                                               |       |  |

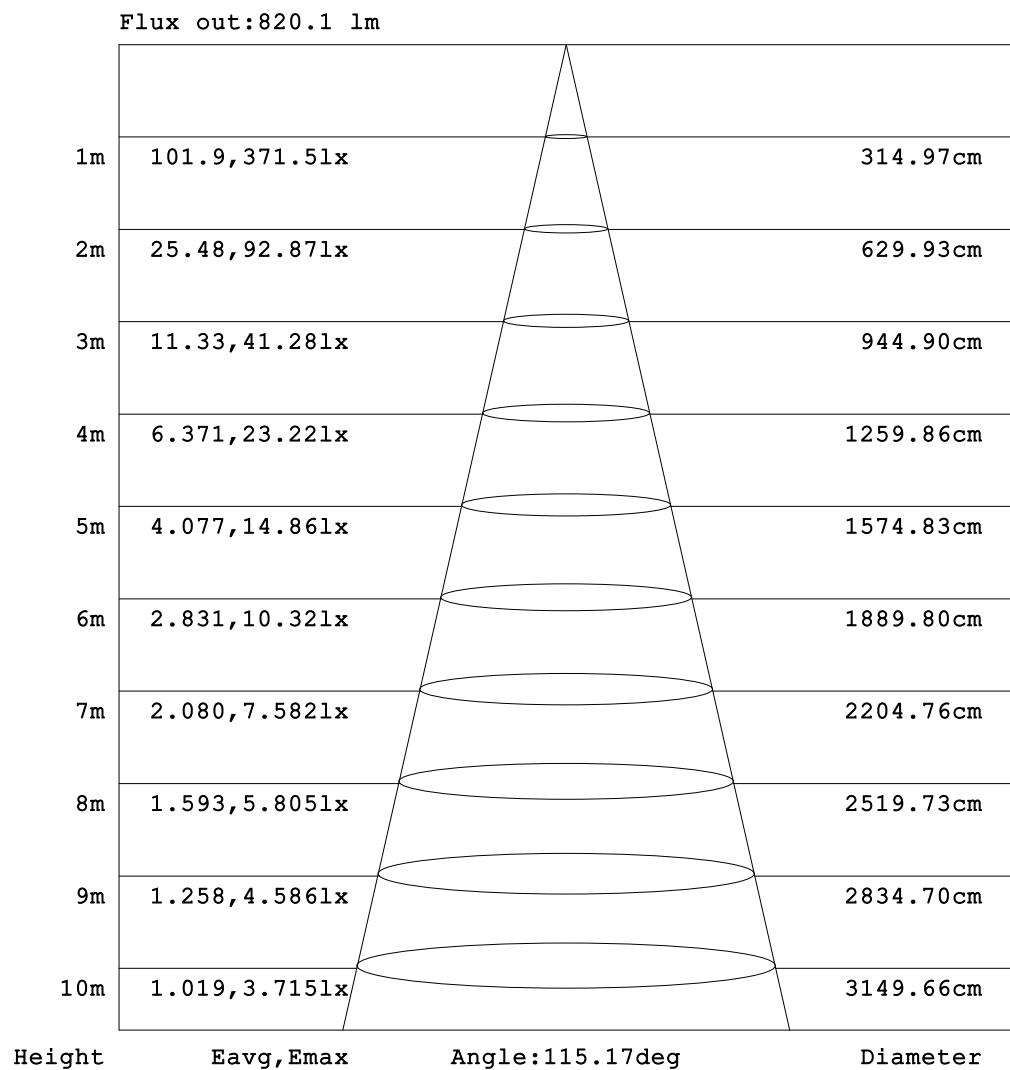


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yuan  
Test Date:2026-05-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## AAI Figure

|                                                                              |       |  |
|------------------------------------------------------------------------------|-------|--|
| Test:U:24.000V I:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1127.69x1 lm |       |  |
| NAME: 7418 2835 138LED. 4000K IRC97 24V                                      | TYPE: |  |
| SPEC.:                                                                       |       |  |
| MFR.: NORDECOR                                                               |       |  |



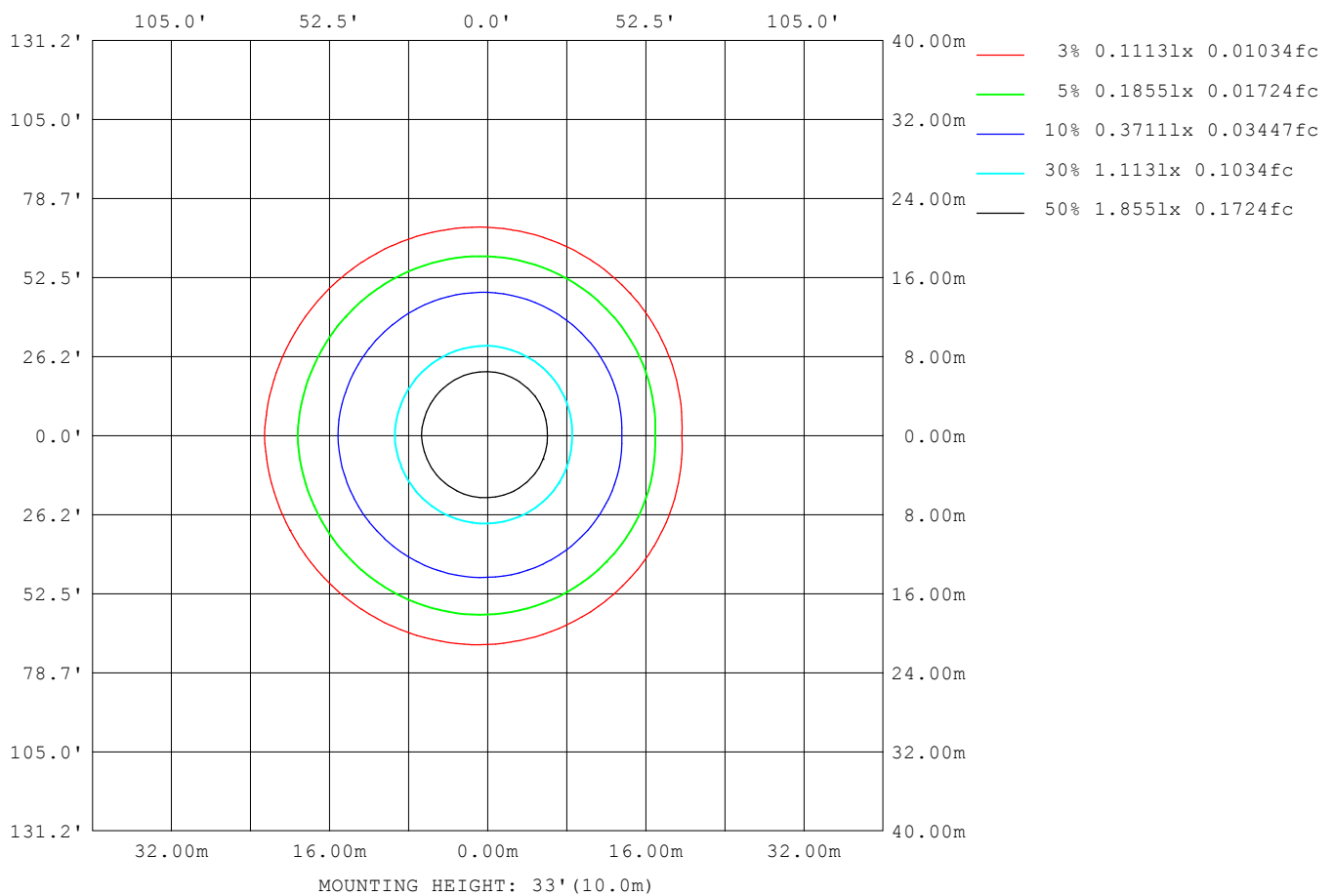
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:yuan  
 Test Date:2026-05-06

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

|                                                                              |       |  |
|------------------------------------------------------------------------------|-------|--|
| Test:U:24.000V I:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1127.69x1 lm |       |  |
| NAME: 7418 2835 138LED. 4000K IRC97 24V                                      | TYPE: |  |
| SPEC.:                                                                       |       |  |
| MFR.: NORDECOR                                                               |       |  |



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yuan  
Test Date:2026-05-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## LED Avg.L Report

|                                                                              |       |  |
|------------------------------------------------------------------------------|-------|--|
| Test:U:24.000V I:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1127.69x1 lm |       |  |
| NAME: 7418 2835 138LED. 4000K IRC97 24V                                      | TYPE: |  |
| SPEC.:                                                                       |       |  |
| MFR.: NORDECOR                                                               |       |  |

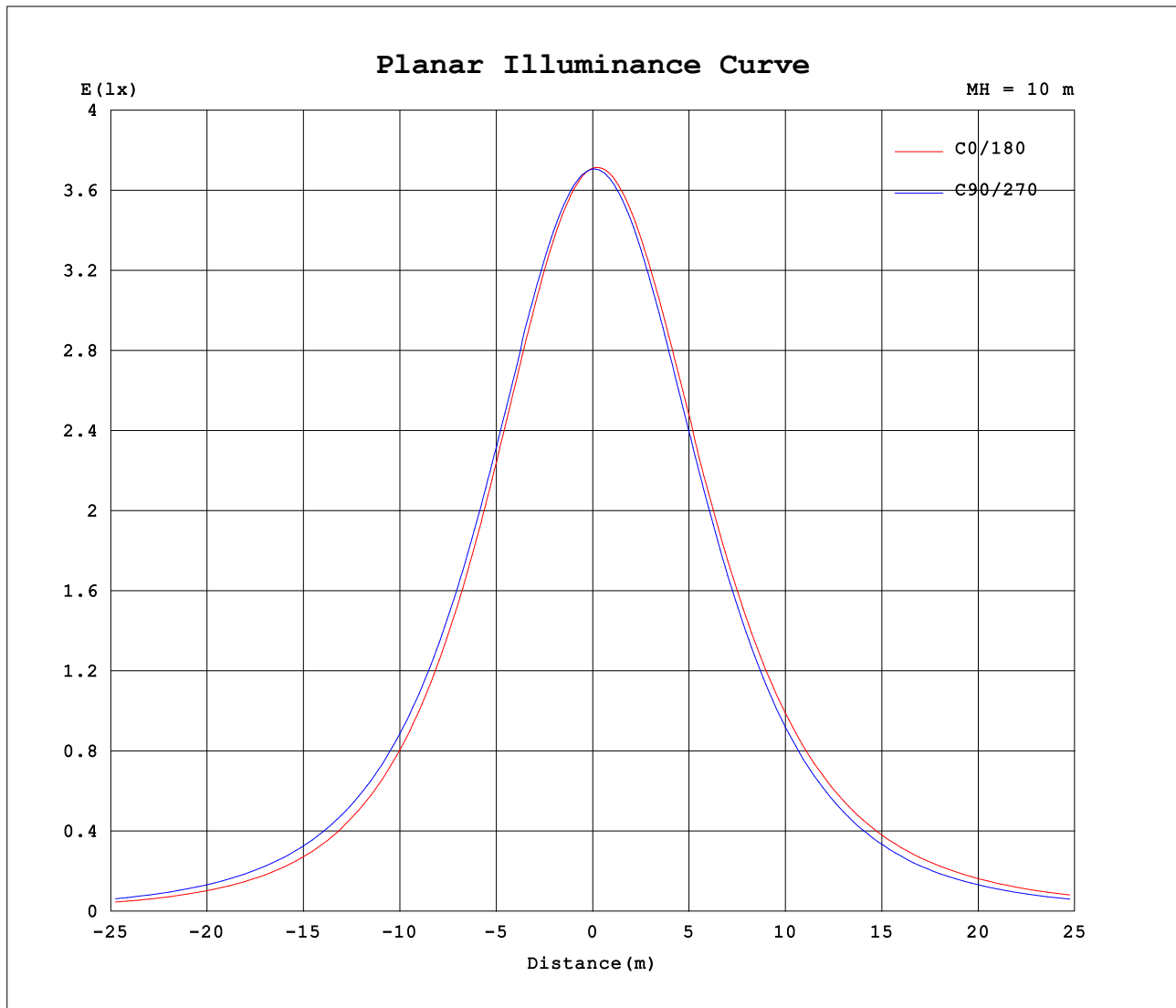
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 27738 |
| L_0~180 (75) av  | 27171 |
| L_0~180 (85) av  | 38462 |
| L_90~270 (65) av | 27449 |
| L_90~270 (75) av | 23760 |
| L_90~270 (85) av | 17911 |
| L_45 (65) av     | 27973 |
| L_45 (75) av     | 25658 |
| L_45 (85) av     | 26789 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yuan  
Test Date:2026-05-06

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: yuan  
Test Date: 2026-05-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity: 65.0%  
Test Distance: 8.000m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                              |       |  |
|------------------------------------------------------------------------------|-------|--|
| Test:U:24.000V I:0.5000A P:12.000W PF:1.0000 Freq:0Hz Lamp Flux:1127.69x1 lm |       |  |
| NAME: 7418 2835 138LED. 4000K IRC97 24V                                      | TYPE: |  |
| SPEC.:                                                                       |       |  |
| MFR.: NORDECOR                                                               |       |  |

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                  | 371  | 371  | 371  | 371  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 366  | 368  | 373  | 370  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 359  | 363  | 371  | 367  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 348  | 355  | 367  | 361  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 335  | 344  | 360  | 351  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 319  | 329  | 350  | 339  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 300  | 313  | 335  | 324  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 278  | 295  | 319  | 306  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 254  | 274  | 301  | 284  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 228  | 251  | 280  | 260  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 200  | 226  | 257  | 234  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 168  | 199  | 231  | 204  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                 | 138  | 171  | 203  | 172  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 107  | 140  | 174  | 138  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 78.1 | 109  | 145  | 104  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                 | 53.6 | 77.8 | 115  | 69.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                 | 34.5 | 48.7 | 86.4 | 39.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                 | 20.6 | 23.9 | 59.8 | 13.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                 | 11.7 | 7.73 | 36.7 | 0.93 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                 | 6.73 | 1.03 | 15.9 | 0.90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100                | 4.00 | 1.15 | 6.22 | 1.01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105                | 2.31 | 1.31 | 2.26 | 1.14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110                | 1.68 | 1.51 | 1.24 | 1.27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115                | 1.69 | 1.71 | 1.34 | 1.47 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120                | 1.82 | 1.90 | 1.48 | 1.64 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125                | 1.97 | 2.07 | 1.63 | 1.80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130                | 2.10 | 2.25 | 1.78 | 1.95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135                | 2.25 | 2.40 | 1.93 | 2.07 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140                | 2.38 | 2.54 | 2.09 | 2.26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145                | 2.49 | 2.65 | 2.23 | 2.36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150                | 2.59 | 2.74 | 2.37 | 2.47 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155                | 2.69 | 2.84 | 2.60 | 2.66 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160                | 2.80 | 2.93 | 2.73 | 2.82 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165                | 2.92 | 3.01 | 2.85 | 2.86 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170                | 3.00 | 3.06 | 2.95 | 2.95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175                | 3.00 | 3.09 | 3.04 | 3.02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180                | 3.04 | 3.10 | 3.04 | 3.09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:yuan  
 Test Date:2026-05-06

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks: