

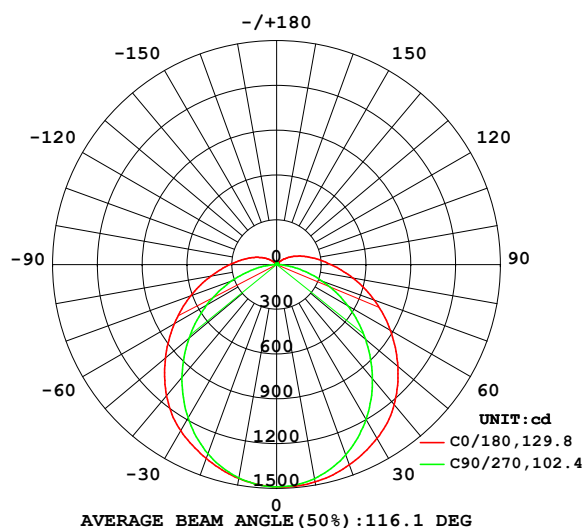


# LUMINAIRE PHOTOMETRIC TEST REPORT

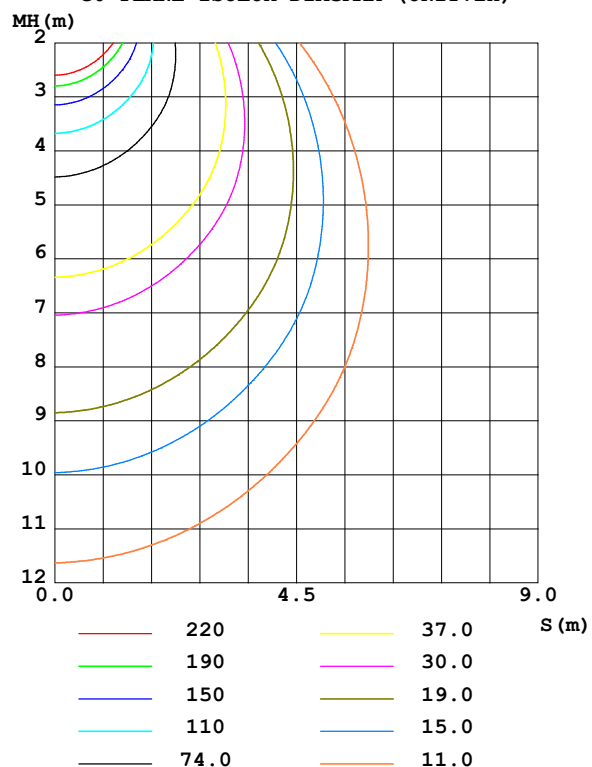
|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:230.00V I:0.1430A P:32.000W PF:0.9724 Freq:49.99Hz<br>Lamp Flux:5120x1 lm |       |                  |
| NAME: 0028920277 4000K 32W 5120lm                                                | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.:                                                                            | SUR.: | Shielding Angle: |

| DATA OF LAMP     |      | PHOTOMETRIC DATA Eff: 160.00 lm/W |        |                        |          |
|------------------|------|-----------------------------------|--------|------------------------|----------|
| MODEL            |      | Imax (cd)                         | 1491   | S/MH(C0/180)           | 1.35     |
| NOMINAL POWER(W) |      | LOR (%)                           | 100.0  | S/MH(C90/270)          | 1.20     |
| RATED VOLTAGE(V) |      | TOTAL FLUX(lm)                    | 5120.0 | $\eta$ UP,DN(C0-180)   | 3.9,45.2 |
| NOMINAL FLUX(lm) | 5120 | CIE CLASS                         | DIRECT | $\eta$ UP,DN(C180-360) | 4.2,46.7 |
| LAMPS INSIDE     | 1    | $\eta$ up (%)                     | 8.1    | CIBSE SHR NOM          | 1.25     |
| TEST VOLTAGE(V)  | 230  | $\eta$ down (%)                   | 91.9   | CIBSE SHR MAX          | 1.35     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Testing Room  
Test Date:2025-11-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.471  
Humidity:65.0%  
Test Distance:11.050m [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       | 1455                  | 1455  | 1452  | 1459  | 1479  | 1466  | 1457  | 1464  | 0- 10    | 140.8       | 140.8        | 2.75,2.75  |
| 20       | 1382                  | 1366  | 1347  | 1375  | 1427  | 1387  | 1356  | 1382  | 10- 20   | 402.2       | 543.0        | 10.6,10.6  |
| 30       | 1285                  | 1234  | 1187  | 1248  | 1345  | 1263  | 1198  | 1257  | 20- 30   | 608.3       | 1151         | 22.5,22.5  |
| 40       | 1147                  | 1074  | 987.0 | 1092  | 1225  | 1108  | 999.3 | 1103  | 30- 40   | 736.2       | 1887         | 36.9,36.9  |
| 50       | 972.6                 | 887.8 | 766.3 | 904.6 | 1061  | 922.3 | 778.0 | 921.6 | 40- 50   | 770.6       | 2658         | 51.9,51.9  |
| 60       | 790.6                 | 691.4 | 539.9 | 708.2 | 879.9 | 723.7 | 550.3 | 724.8 | 50- 60   | 716.5       | 3375         | 65.9,65.9  |
| 70       | 612.1                 | 506.6 | 319.3 | 522.1 | 696.8 | 534.7 | 326.0 | 537.4 | 60- 70   | 597.9       | 3972         | 77.6,77.6  |
| 80       | 446.3                 | 345.2 | 122.8 | 357.7 | 519.5 | 366.1 | 126.6 | 371.6 | 70- 80   | 443.7       | 4416         | 86.3,86.3  |
| 90       | 314.7                 | 220.7 | 14.63 | 231.3 | 364.7 | 234.9 | 14.22 | 240.8 | 80- 90   | 290.4       | 4707         | 91.9,91.9  |
| 100      | 218.6                 | 140.1 | 8.839 | 145.9 | 254.8 | 147.7 | 8.210 | 155.6 | 90-100   | 184.4       | 4891         | 95.5,95.5  |
| 110      | 144.7                 | 63.88 | 5.966 | 80.71 | 169.4 | 82.19 | 5.698 | 91.60 | 100-110  | 110.8       | 5002         | 97.7,97.7  |
| 120      | 85.95                 | 34.21 | 7.333 | 34.47 | 101.9 | 35.45 | 6.640 | 43.09 | 110-120  | 59.82       | 5062         | 98.9,98.9  |
| 130      | 38.94                 | 12.20 | 8.818 | 13.10 | 49.80 | 12.50 | 8.054 | 12.88 | 120-130  | 27.66       | 5089         | 99.4,99.4  |
| 140      | 15.40                 | 12.15 | 10.21 | 13.17 | 15.68 | 12.76 | 9.483 | 12.02 | 130-140  | 11.84       | 5101         | 99.6,99.6  |
| 150      | 14.46                 | 12.32 | 11.46 | 13.16 | 14.49 | 12.92 | 10.92 | 12.26 | 140-150  | 7.923       | 5109         | 99.8,99.8  |
| 160      | 13.88                 | 12.68 | 12.47 | 13.08 | 13.94 | 12.93 | 12.26 | 12.66 | 150-160  | 5.924       | 5115         | 99.9,99.9  |
| 170      | 13.61                 | 13.11 | 13.28 | 13.06 | 13.23 | 13.01 | 13.22 | 13.01 | 160-170  | 3.691       | 5119         | 100,100    |
| 180      | 13.62                 | 13.68 | 13.71 | 13.74 | 13.58 | 13.68 | 13.71 | 13.68 | 170-180  | 1.272       | 5120         | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 2274.5 lm

%lum = 44.4%

%lamp = 44.4%

Conical surface Flux(120deg): 3374.6 lm

%lum = 65.9%

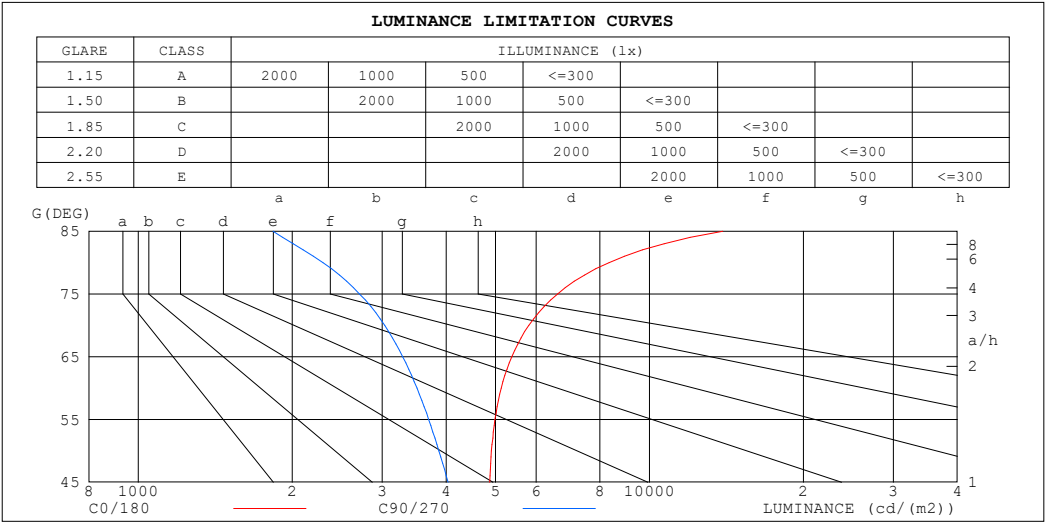
%lamp = 65.9%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:Testing Room  
 Test Date:2025-11-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.471  
 Humidity:65.0%  
 Test Distance:11.050m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:230.00V I:0.1430A P:32.000W PF:0.9724 Freq:49.99Hz<br>Lamp Flux:5120x1 lm |       |                  |
| NAME: 0028920277 3000K 32W 5120lm                                                | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.:                                                                            | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 13906  | 1835    |
| 80                | 8337   | 2297    |
| 75                | 6607   | 2707    |
| 70                | 5805   | 3033    |
| 65                | 5381   | 3290    |
| 60                | 5129   | 3508    |
| 55                | 4985   | 3699    |
| 50                | 4908   | 3873    |
| 45                | 4872   | 4035    |

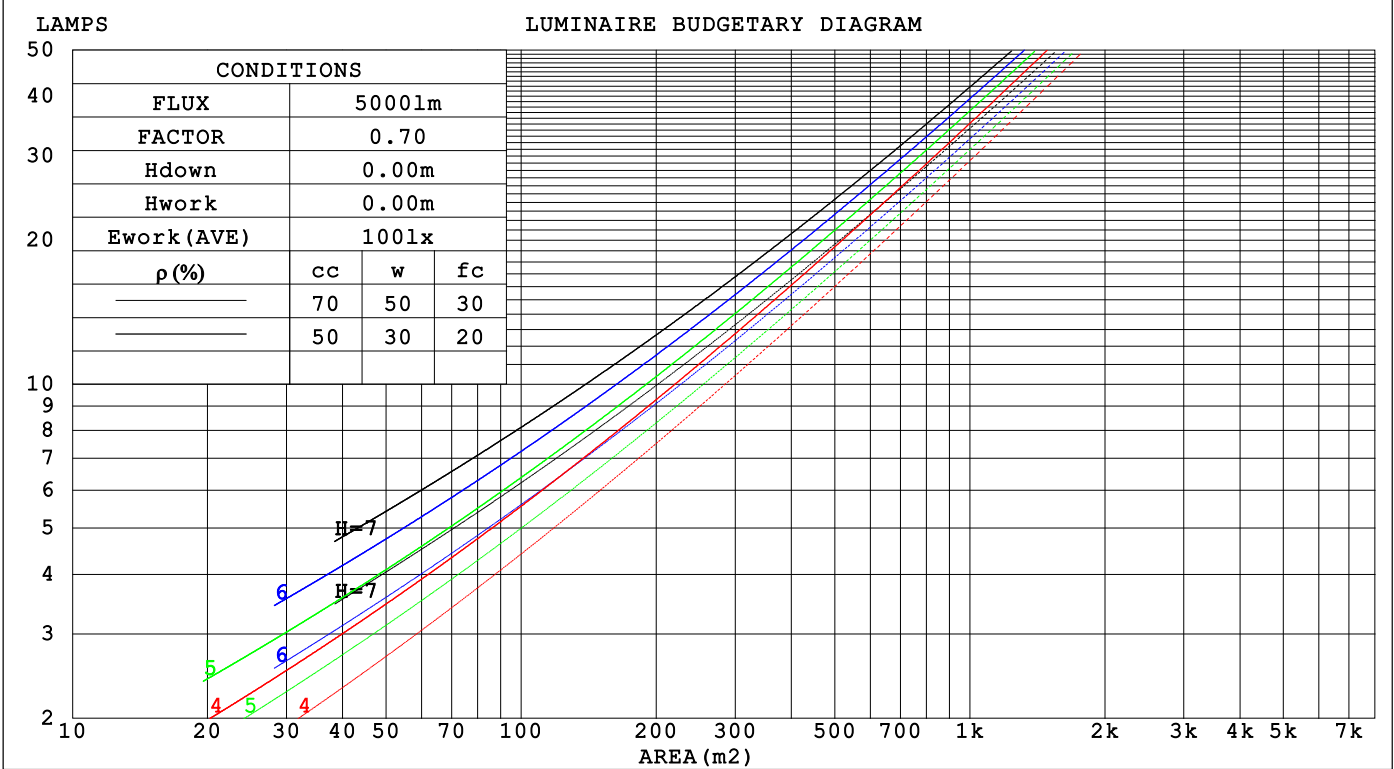
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Testing Room  
Test Date:2025-11-20

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.471  
Humidity:65.0%  
Test Distance:11.050m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                           |       |                  |
|-----------------------------------------------------------|-------|------------------|
| Test:U:230.00V I:0.1430A P:32.000W PF:0.9724 Freq:49.99Hz |       |                  |
| Lamp Flux:5120x1 lm                                       |       |                  |
| NAME: 0028920277 3000K 32W 5120lm                         | TYPE: | WEIGHT:          |
| SPEC.:                                                    | DIM.: | SERIAL No.:      |
| MFR.:                                                     | SUR.: | Shielding Angle: |

|                 |                                                                            |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
|-----------------|----------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| pcc             | 80%                                                                        |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10% |     |     | 0   |
| p <sub>w</sub>  | 50%                                                                        | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50% | 30% | 10% | 0   |
| p <sub>fc</sub> | 20%                                                                        |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20% |     |     | 0   |
| RCR             | RCR:Room Cavity Ratio                      Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 0.0             | 1.17                                                                       | 1.17 | 1.17 | 1.13 | 1.13 | 1.13 | 1.07 | 1.07 | 1.07 | 1.00 | 1.00 | 1.00 | .95 | .95 | .95 | .92 |
| 1.0             | .99                                                                        | .94  | .90  | .96  | .92  | .88  | .90  | .87  | .83  | .85  | .82  | .79  | .80 | .78 | .76 | .73 |
| 2.0             | .86                                                                        | .78  | .72  | .83  | .76  | .70  | .78  | .72  | .68  | .74  | .69  | .65  | .69 | .66 | .62 | .59 |
| 3.0             | .75                                                                        | .66  | .59  | .73  | .65  | .58  | .68  | .62  | .56  | .65  | .59  | .54  | .61 | .56 | .52 | .49 |
| 4.0             | .66                                                                        | .57  | .50  | .64  | .56  | .49  | .61  | .53  | .47  | .57  | .51  | .46  | .54 | .49 | .44 | .42 |
| 5.0             | .59                                                                        | .49  | .43  | .57  | .48  | .42  | .54  | .47  | .41  | .51  | .45  | .40  | .49 | .43 | .38 | .36 |
| 6.0             | .53                                                                        | .44  | .37  | .51  | .43  | .36  | .49  | .41  | .36  | .46  | .40  | .35  | .44 | .38 | .34 | .31 |
| 7.0             | .48                                                                        | .39  | .33  | .47  | .38  | .32  | .44  | .37  | .31  | .42  | .36  | .31  | .40 | .34 | .30 | .28 |
| 8.0             | .44                                                                        | .35  | .29  | .43  | .34  | .29  | .41  | .33  | .28  | .39  | .32  | .27  | .37 | .31 | .27 | .25 |
| 9.0             | .40                                                                        | .32  | .26  | .39  | .31  | .26  | .37  | .30  | .25  | .36  | .29  | .25  | .34 | .28 | .24 | .22 |
| 10.0            | .37                                                                        | .29  | .23  | .36  | .28  | .23  | .34  | .28  | .23  | .33  | .27  | .22  | .32 | .26 | .22 | .20 |



AREA (m2)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Testing Room  
Test Date:2025-11-20

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.471  
Humidity:65.0%  
Test Distance:11.050m [K=1.0000]  
Remarks:

## WEC AND CCEC

|                                                                                  |  |  |       |  |                  |
|----------------------------------------------------------------------------------|--|--|-------|--|------------------|
| Test:U:230.00V I:0.1430A P:32.000W PF:0.9724 Freq:49.99Hz<br>Lamp Flux:5120x1 lm |  |  |       |  |                  |
| NAME: 0028920277 3000K 32W 5120lm                                                |  |  | TYPE: |  | WEIGHT:          |
| SPEC.:                                                                           |  |  | DIM.: |  | SERIAL No.:      |
| MFR.:                                                                            |  |  | SUR.: |  | 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  | .359                  | .204 | .065 | .349 | .199 | .063 | .331                            | .190 | .061 | .314 | .181 | .058 | .299 | .173 | .056 |   |  |
| 2.0  | .318                  | .174 | .054 | .310 | .171 | .053 | .294                            | .163 | .051 | .279 | .156 | .049 | .265 | .150 | .047 |   |  |
| 3.0  | .287                  | .153 | .046 | .279 | .149 | .045 | .264                            | .143 | .044 | .251 | .138 | .042 | .238 | .132 | .041 |   |  |
| 4.0  | .260                  | .135 | .040 | .253 | .133 | .039 | .240                            | .127 | .038 | .228 | .123 | .037 | .217 | .118 | .036 |   |  |
| 5.0  | .238                  | .121 | .035 | .232 | .119 | .035 | .220                            | .115 | .034 | .209 | .110 | .033 | .199 | .106 | .032 |   |  |
| 6.0  | .219                  | .110 | .031 | .213 | .108 | .031 | .203                            | .104 | .030 | .193 | .100 | .029 | .184 | .097 | .029 |   |  |
| 7.0  | .203                  | .100 | .028 | .198 | .098 | .028 | .188                            | .095 | .027 | .179 | .092 | .027 | .171 | .089 | .026 |   |  |
| 8.0  | .188                  | .092 | .026 | .184 | .091 | .026 | .175                            | .088 | .025 | .167 | .085 | .024 | .159 | .082 | .024 |   |  |
| 9.0  | .176                  | .085 | .024 | .172 | .084 | .024 | .164                            | .081 | .023 | .156 | .078 | .022 | .149 | .076 | .022 |   |  |
| 10.0 | .165                  | .079 | .022 | .161 | .078 | .022 | .154                            | .075 | .021 | .147 | .073 | .021 | .141 | .071 | .020 |   |  |

| 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  | .252                  | .252 | .252 | .215 | .215 | .215 | .147                                        | .147 | .147 | .084 | .084 | .084 | .027 | .027 | .027 |   |
| 1.0  | .246                  | .218 | .193 | .210 | .187 | .166 | .144                                        | .129 | .115 | .083 | .074 | .067 | .027 | .024 | .022 |   |
| 2.0  | .238                  | .194 | .157 | .204 | .167 | .136 | .140                                        | .116 | .095 | .081 | .067 | .056 | .026 | .022 | .018 |   |
| 3.0  | .230                  | .177 | .135 | .198 | .153 | .117 | .136                                        | .106 | .082 | .078 | .062 | .048 | .025 | .020 | .016 |   |
| 4.0  | .223                  | .164 | .120 | .191 | .142 | .104 | .131                                        | .099 | .073 | .076 | .058 | .043 | .024 | .019 | .014 |   |
| 5.0  | .215                  | .154 | .109 | .185 | .133 | .095 | .127                                        | .093 | .067 | .074 | .055 | .040 | .024 | .018 | .013 |   |
| 6.0  | .208                  | .146 | .102 | .178 | .126 | .089 | .123                                        | .089 | .063 | .071 | .052 | .037 | .023 | .017 | .012 |   |
| 7.0  | .200                  | .139 | .096 | .172 | .121 | .084 | .119                                        | .085 | .059 | .069 | .050 | .035 | .022 | .016 | .012 |   |
| 8.0  | .194                  | .134 | .092 | .167 | .116 | .080 | .115                                        | .081 | .057 | .067 | .048 | .034 | .022 | .016 | .011 |   |
| 9.0  | .188                  | .129 | .089 | .162 | .112 | .077 | .112                                        | .078 | .055 | .065 | .046 | .033 | .021 | .015 | .011 |   |
| 10.0 | .182                  | .124 | .086 | .157 | .108 | .075 | .109                                        | .076 | .053 | .063 | .045 | .032 | .021 | .015 | .011 |   |

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:Testing Room

Test Date:2025-11-20

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.471

Humidity:65.0%

Test Distance:11.050m [K=1.0000]

Remarks:

## UGR(Unified Glare Rating) Table

|                                                                                  |                  |      |      |      |      |                |      |                  |      |      |
|----------------------------------------------------------------------------------|------------------|------|------|------|------|----------------|------|------------------|------|------|
| Test:U:230.00V I:0.1430A P:32.000W PF:0.9724 Freq:49.99Hz<br>Lamp Flux:5120x1 lm |                  |      |      |      |      |                |      |                  |      |      |
| NAME: 0028920277 3000K 32W 5120lm                                                |                  |      |      |      |      | TYPE:          |      | WEIGHT:          |      |      |
| SPEC.:                                                                           |                  |      |      |      |      | DIM.:          |      | SERIAL No.:      |      |      |
| MFR.:                                                                            |                  |      |      |      |      | SUR.:          |      | 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                                                                    | 18.0             | 19.5 | 18.4 | 19.9 | 20.2 | 16.5           | 18.0 | 16.9             | 18.3 | 18.7 |
| 3H                                                                               | 20.2             | 21.6 | 20.6 | 21.9 | 22.3 | 17.9           | 19.3 | 18.3             | 19.6 | 20.0 |
| 4H                                                                               | 21.3             | 22.6 | 21.8 | 23.0 | 23.5 | 18.5           | 19.7 | 18.9             | 20.1 | 20.6 |
| 6H                                                                               | 22.6             | 23.8 | 23.0 | 24.2 | 24.6 | 18.8           | 20.0 | 19.3             | 20.5 | 20.9 |
| 8H                                                                               | 23.2             | 24.4 | 23.7 | 24.8 | 25.3 | 18.9           | 20.1 | 19.4             | 20.5 | 21.0 |
| 12H                                                                              | 24.0             | 25.1 | 24.4 | 25.5 | 26.0 | 19.0           | 20.1 | 19.5             | 20.6 | 21.0 |
| 4H 2H                                                                            | 18.6             | 19.9 | 19.0 | 20.3 | 20.7 | 17.4           | 18.7 | 17.9             | 19.1 | 19.6 |
| 3H                                                                               | 21.0             | 22.1 | 21.5 | 22.6 | 23.0 | 19.1           | 20.2 | 19.5             | 20.6 | 21.1 |
| 4H                                                                               | 22.3             | 23.4 | 22.8 | 23.8 | 24.3 | 19.8           | 20.8 | 20.3             | 21.3 | 21.8 |
| 6H                                                                               | 23.8             | 24.7 | 24.3 | 25.2 | 25.7 | 20.3           | 21.3 | 20.9             | 21.8 | 22.3 |
| 8H                                                                               | 24.5             | 25.4 | 25.1 | 25.9 | 26.5 | 20.5           | 21.4 | 21.1             | 21.9 | 22.5 |
| 12H                                                                              | 25.4             | 26.2 | 26.0 | 26.8 | 27.3 | 20.7           | 21.5 | 21.2             | 22.0 | 22.6 |
| 8H 4H                                                                            | 22.6             | 23.5 | 23.2 | 24.0 | 24.6 | 20.5           | 21.4 | 21.1             | 21.9 | 22.5 |
| 6H                                                                               | 24.3             | 25.1 | 24.9 | 25.6 | 26.2 | 21.4           | 22.1 | 22.0             | 22.7 | 23.3 |
| 8H                                                                               | 25.3             | 26.0 | 25.9 | 26.6 | 27.2 | 21.8           | 22.4 | 22.4             | 23.0 | 23.6 |
| 12H                                                                              | 26.5             | 27.0 | 27.1 | 27.6 | 28.3 | 22.1           | 22.6 | 22.7             | 23.2 | 23.9 |
| 12H 4H                                                                           | 22.7             | 23.5 | 23.2 | 24.0 | 24.6 | 20.7           | 21.6 | 21.3             | 22.1 | 22.7 |
| 6H                                                                               | 24.5             | 25.1 | 25.0 | 25.7 | 26.3 | 21.8           | 22.5 | 22.4             | 23.0 | 23.6 |
| 8H                                                                               | 25.5             | 26.1 | 26.1 | 26.7 | 27.3 | 22.3           | 22.9 | 22.9             | 23.5 | 24.1 |
| Variations with the observer position at spacings(CIE Pub.117):                  |                  |      |      |      |      |                |      |                  |      |      |
| S = 1.0H                                                                         | + 0.1 / - 0.1    |      |      |      |      | + 0.1 / - 0.2  |      |                  |      |      |
| 1.5H                                                                             | + 0.2 / - 0.3    |      |      |      |      | + 0.2 / - 0.3  |      |                  |      |      |
| 2.0H                                                                             | + 0.2 / - 0.3    |      |      |      |      | + 0.1 / - 0.4  |      |                  |      |      |

CIE Pub.117, 5120 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 5.7$ )  
Area: 0.308 m<sup>2</sup>

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:Testing Room

Test Date:2025-11-20

 $\gamma$  Range: 0 - 180DEG $\gamma$  Interval: 1.0DEG

Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.471

Humidity:65.0%

Test Distance:11.050m [K=1.0000]

Remarks:

## UTILIZATION FACTORS TABLE

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:230.00V I:0.1430A P:32.000W PF:0.9724 Freq:49.99Hz<br>Lamp Flux:5120x1 lm |       |                  |
| NAME: 0028920277 3000K 32W 5120lm                                                | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.:                                                                            | SUR.: | Shielding Angle: |

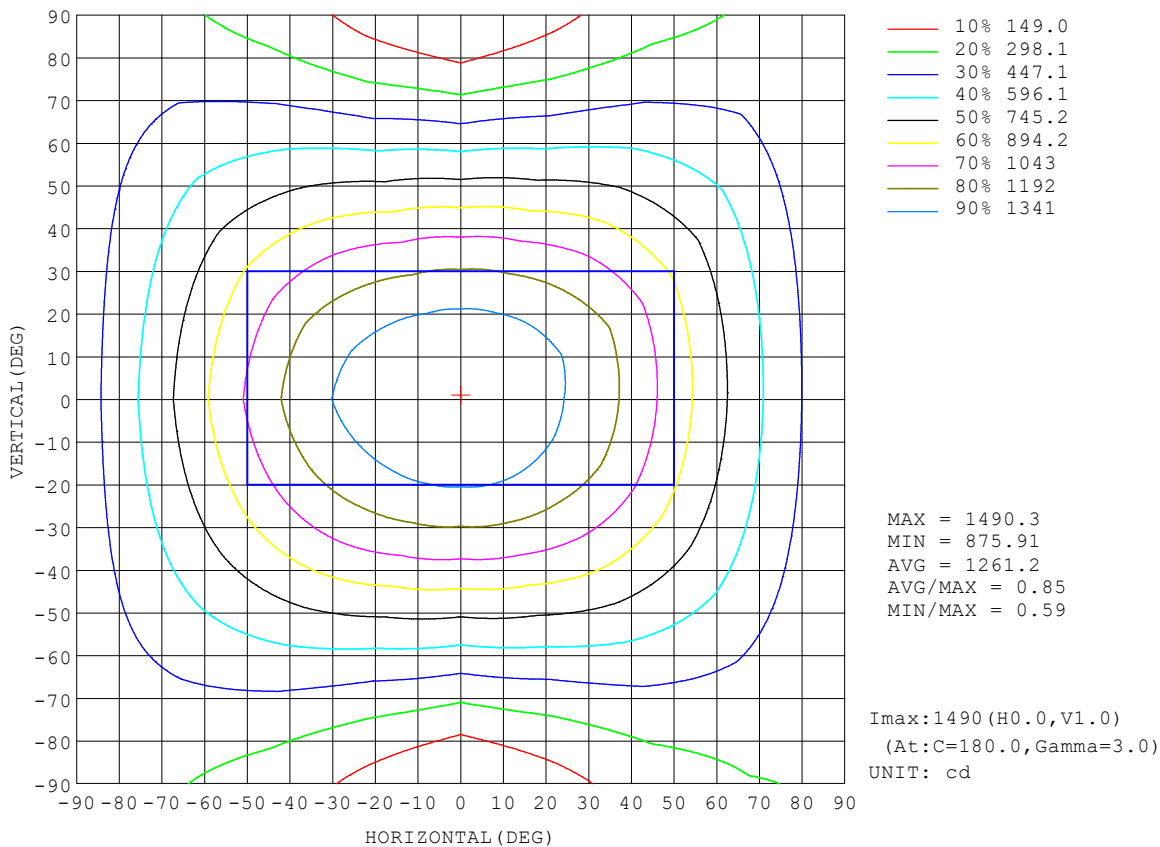
| REFLECTANCE                      |                                                      |     |                 |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |                 |     |     |     |     |               |     |        |
| $k = 0.60$                       | 58                                                   | 45  | 36              | 56  | 44  | 36  | 53  | 42            | 35  | 27     |
| 0.80                             | 68                                                   | 54  | 46              | 65  | 53  | 45  | 61  | 51            | 43  | 34     |
| 1.00                             | 75                                                   | 63  | 54              | 73  | 61  | 53  | 68  | 58            | 51  | 41     |
| 1.25                             | 82                                                   | 70  | 62              | 79  | 69  | 61  | 74  | 65            | 58  | 48     |
| 1.50                             | 87                                                   | 76  | 68              | 84  | 74  | 66  | 78  | 70            | 63  | 52     |
| 2.00                             | 93                                                   | 84  | 76              | 90  | 81  | 74  | 84  | 77            | 71  | 59     |
| 2.50                             | 97                                                   | 88  | 81              | 93  | 86  | 79  | 87  | 81            | 76  | 63     |
| 3.00                             | 100                                                  | 92  | 86              | 96  | 90  | 84  | 90  | 85            | 80  | 67     |
| 4.00                             | 104                                                  | 98  | 92              | 100 | 95  | 90  | 93  | 89            | 85  | 72     |
| 5.00                             | 106                                                  | 101 | 96              | 102 | 98  | 94  | 96  | 92            | 89  | 75     |
| ROOM INDEX                       | UF (total)                                           |     |                 |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                      |     | Ceiling Mounted |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: Testing Room  
 Test Date: 2025-11-20

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.00.471  
 Humidity: 65.0%  
 Test Distance: 11.050m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:230.00V I:0.1430A P:32.000W PF:0.9724 Freq:49.99Hz<br>Lamp Flux:5120x1 lm |       |                  |
| NAME: 0028920277 3000K 32W 5120lm                                                | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.:                                                                            | SUR.: | Shielding Angle: |

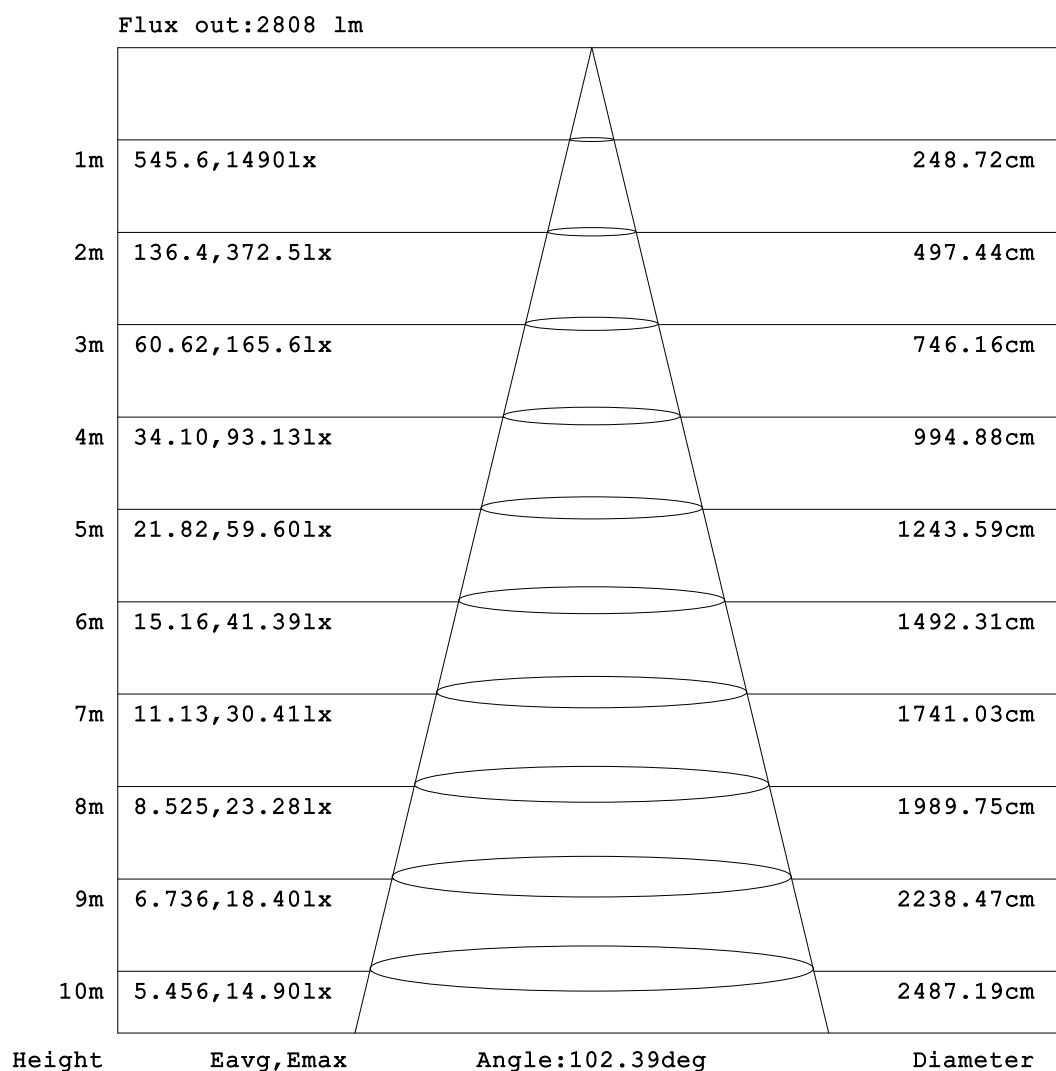


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Testing Room  
Test Date:2025-11-20

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.471  
Humidity:65.0%  
Test Distance:11.050m [K=1.0000]  
Remarks:

## AAI Figure

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:230.00V I:0.1430A P:32.000W PF:0.9724 Freq:49.99Hz<br>Lamp Flux:5120x1 lm |       |                  |
| NAME: 0028920277 3000K 32W 5120lm                                                | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.:                                                                            | SUR.: | Shielding Angle: |



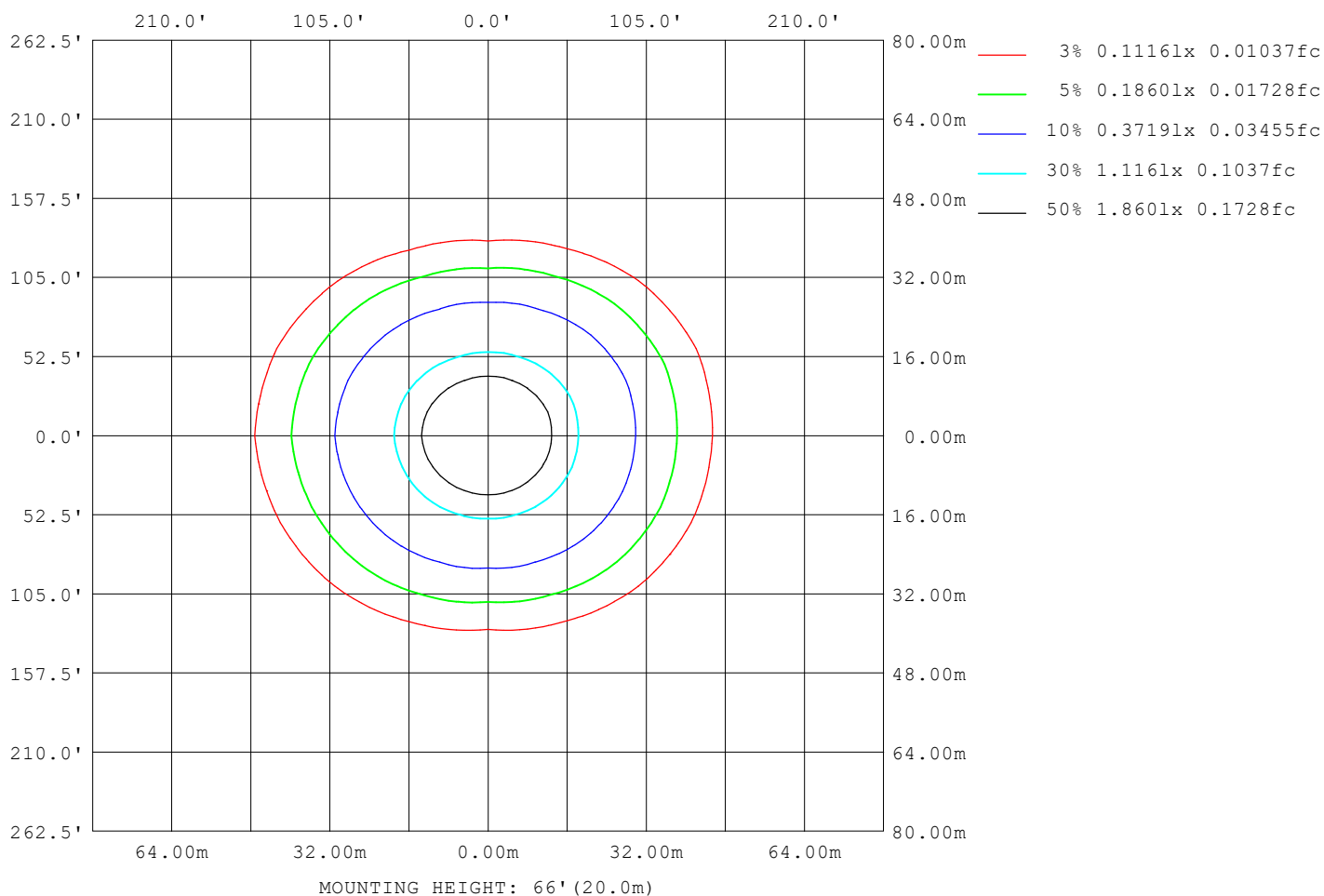
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Testing Room  
Test Date:2025-11-20

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.471  
Humidity:65.0%  
Test Distance:11.050m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:230.00V I:0.1430A P:32.000W PF:0.9724 Freq:49.99Hz<br>Lamp Flux:5120x1 lm |       |                  |
| NAME: 0028920277 3000K 32W 5120lm                                                | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.:                                                                            | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:Testing Room  
Test Date:2025-11-20

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.471  
Humidity:65.0%  
Test Distance:11.050m [K=1.0000]  
Remarks:

## LED Avg.L Report

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:230.00V I:0.1430A P:32.000W PF:0.9724 Freq:49.99Hz<br>Lamp Flux:5120x1 lm |       |                  |
| NAME: 0028920277 3000K 32W 5120lm                                                | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.:                                                                            | SUR.: | Shielding Angle: |

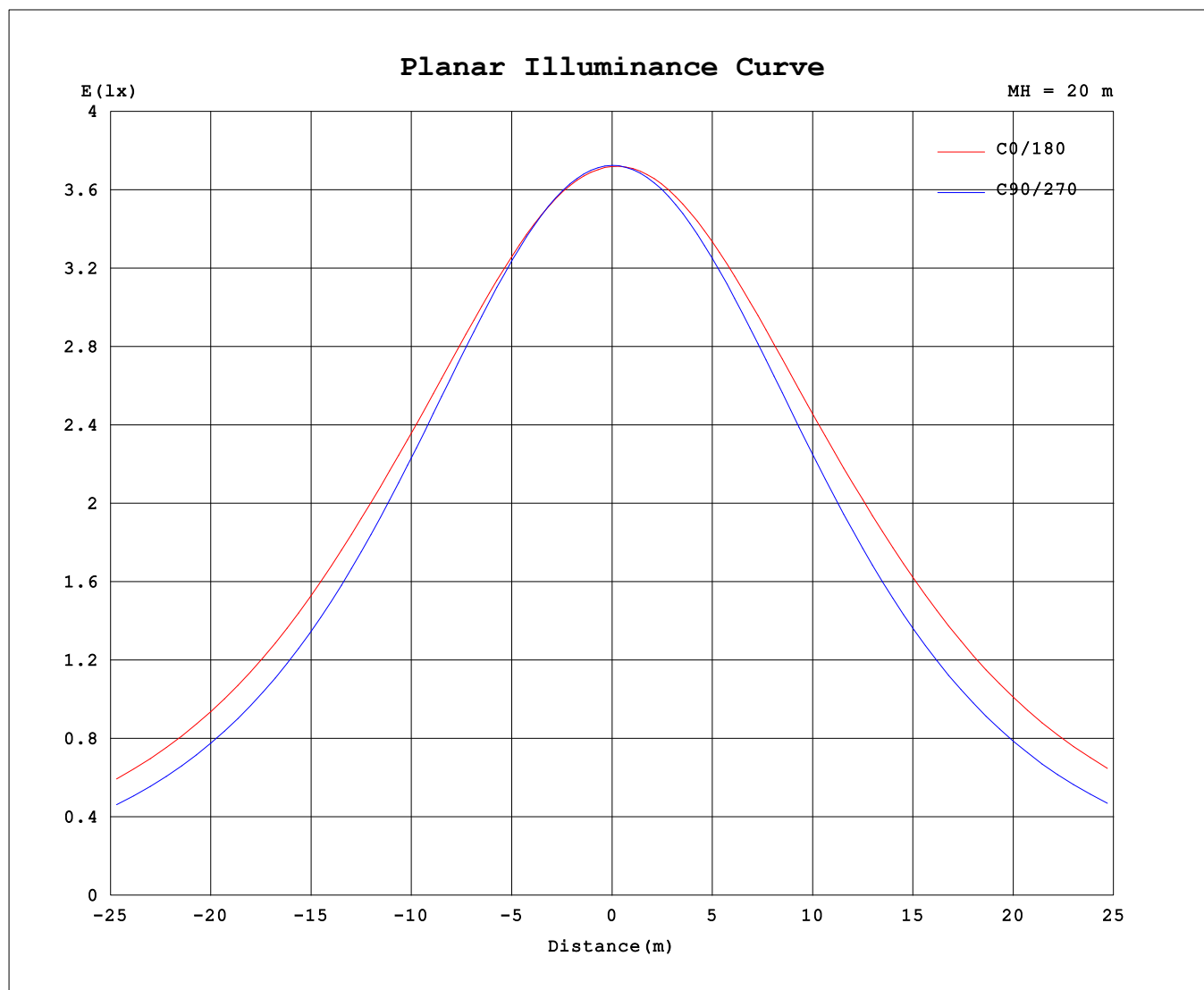
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 5721  |
| L_0~180 (75) av  | 7112  |
| L_0~180 (85) av  | 15085 |
| L_90~270 (65) av | 3319  |
| L_90~270 (75) av | 2741  |
| L_90~270 (85) av | 1871  |
| L_45 (65) av     | 4736  |
| L_45 (75) av     | 5507  |
| L_45 (85) av     | 10784 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:Testing Room  
 Test Date:2025-11-20

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.471  
 Humidity:65.0%  
 Test Distance:11.050m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: Testing Room  
Test Date: 2025-11-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.00.471  
Humidity: 65.0%  
Test Distance: 11.050m [K=1.0000]  
Remarks:

### LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |                  |  |  |
|----------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|------------------|--|--|
| Test:U:230.00V I:0.1430A P:32.000W PF:0.9724 Freq:49.99Hz<br>Lamp Flux:5120x1 lm |  |  |  |  |  |  |  |  |       |  |  |  |  |  |                  |  |  |
| NAME: 0028920277 3000K 32W 5120lm                                                |  |  |  |  |  |  |  |  | TYPE: |  |  |  |  |  | WEIGHT:          |  |  |
| SPEC.:                                                                           |  |  |  |  |  |  |  |  | DIM.: |  |  |  |  |  | SERIAL No.:      |  |  |
| MFR.:                                                                            |  |  |  |  |  |  |  |  | SUR.: |  |  |  |  |  | Shielding Angle: |  |  |

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                  | 1489 | 1489 | 1489 | 1489 | 1489 | 1489  | 1489 | 1489  | 1489 | 1489  | 1489 | 1489  | 1489 | 1489  | 1489 | 1489  |  |  |  |
| 5                  | 1478 | 1479 | 1479 | 1480 | 1479 | 1480  | 1481 | 1483  | 1490 | 1489  | 1484 | 1481  | 1482 | 1482  | 1484 | 1483  |  |  |  |
| 10                 | 1455 | 1456 | 1455 | 1454 | 1452 | 1455  | 1459 | 1465  | 1479 | 1475  | 1466 | 1457  | 1457 | 1458  | 1464 | 1465  |  |  |  |
| 15                 | 1422 | 1421 | 1417 | 1413 | 1407 | 1413  | 1423 | 1436  | 1458 | 1451  | 1432 | 1416  | 1414 | 1419  | 1429 | 1436  |  |  |  |
| 20                 | 1382 | 1377 | 1366 | 1357 | 1347 | 1357  | 1375 | 1398  | 1427 | 1415  | 1387 | 1361  | 1356 | 1363  | 1382 | 1396  |  |  |  |
| 25                 | 1336 | 1326 | 1305 | 1287 | 1273 | 1287  | 1316 | 1351  | 1389 | 1371  | 1330 | 1292  | 1283 | 1295  | 1324 | 1348  |  |  |  |
| 30                 | 1285 | 1270 | 1234 | 1205 | 1187 | 1207  | 1248 | 1299  | 1345 | 1320  | 1263 | 1211  | 1198 | 1215  | 1257 | 1295  |  |  |  |
| 35                 | 1224 | 1206 | 1157 | 1114 | 1091 | 1116  | 1173 | 1238  | 1293 | 1262  | 1188 | 1120  | 1103 | 1125  | 1182 | 1236  |  |  |  |
| 40                 | 1147 | 1129 | 1074 | 1016 | 987  | 1019  | 1092 | 1162  | 1225 | 1193  | 1108 | 1022  | 999  | 1027  | 1103 | 1165  |  |  |  |
| 45                 | 1062 | 1041 | 985  | 912  | 878  | 916   | 1001 | 1077  | 1146 | 1110  | 1019 | 918   | 890  | 924   | 1016 | 1081  |  |  |  |
| 50                 | 973  | 949  | 888  | 805  | 766  | 811   | 905  | 987   | 1061 | 1021  | 922  | 812   | 778  | 819   | 922  | 990   |  |  |  |
| 55                 | 881  | 856  | 789  | 699  | 653  | 706   | 806  | 895   | 971  | 928   | 823  | 705   | 664  | 713   | 822  | 898   |  |  |  |
| 60                 | 791  | 763  | 691  | 595  | 540  | 602   | 708  | 801   | 880  | 835   | 724  | 599   | 550  | 609   | 725  | 805   |  |  |  |
| 65                 | 701  | 673  | 597  | 492  | 428  | 500   | 613  | 710   | 788  | 742   | 627  | 495   | 436  | 506   | 629  | 714   |  |  |  |
| 70                 | 612  | 585  | 507  | 394  | 319  | 403   | 522  | 620   | 697  | 651   | 535  | 397   | 326  | 409   | 537  | 625   |  |  |  |
| 75                 | 527  | 500  | 422  | 305  | 216  | 313   | 436  | 532   | 607  | 562   | 447  | 306   | 221  | 319   | 451  | 538   |  |  |  |
| 80                 | 446  | 420  | 345  | 224  | 123  | 233   | 358  | 449   | 520  | 477   | 366  | 224   | 127  | 238   | 372  | 457   |  |  |  |
| 85                 | 374  | 349  | 276  | 156  | 49.2 | 165   | 287  | 373   | 436  | 398   | 294  | 155   | 51.2 | 169   | 300  | 381   |  |  |  |
| 90                 | 315  | 291  | 221  | 106  | 14.6 | 115   | 231  | 311   | 365  | 331   | 235  | 106   | 14.2 | 117   | 241  | 317   |  |  |  |
| 95                 | 264  | 242  | 178  | 74.0 | 11.5 | 80.5  | 186  | 259   | 307  | 276   | 188  | 71.9  | 11.1 | 83.5  | 195  | 266   |  |  |  |
| 100                | 219  | 198  | 140  | 44.8 | 8.84 | 53.2  | 146  | 211   | 255  | 226   | 148  | 45.5  | 8.21 | 57.1  | 156  | 219   |  |  |  |
| 105                | 180  | 161  | 107  | 29.7 | 5.82 | 31.6  | 111  | 171   | 209  | 184   | 112  | 25.3  | 5.56 | 36.1  | 122  | 179   |  |  |  |
| 110                | 145  | 126  | 63.9 | 15.3 | 5.97 | 15.6  | 80.7 | 134   | 169  | 145   | 82.2 | 11.3  | 5.70 | 19.7  | 91.6 | 143   |  |  |  |
| 115                | 114  | 97.1 | 53.6 | 8.94 | 6.59 | 9.22  | 55.5 | 103   | 134  | 113   | 56.6 | 8.41  | 6.05 | 9.17  | 65.6 | 112   |  |  |  |
| 120                | 85.9 | 71.0 | 34.2 | 9.03 | 7.33 | 9.43  | 34.5 | 75.1  | 102  | 83.5  | 35.4 | 8.65  | 6.64 | 8.77  | 43.1 | 84.1  |  |  |  |
| 125                | 61.0 | 37.2 | 18.4 | 9.40 | 8.09 | 9.90  | 18.6 | 50.7  | 74.2 | 58.0  | 19.2 | 9.14  | 7.35 | 9.06  | 24.6 | 59.5  |  |  |  |
| 130                | 38.9 | 24.6 | 12.2 | 9.82 | 8.82 | 10.4  | 13.1 | 30.4  | 49.8 | 36.1  | 12.5 | 9.63  | 8.05 | 9.46  | 12.9 | 37.8  |  |  |  |
| 135                | 21.4 | 15.0 | 12.1 | 10.3 | 9.53 | 10.8  | 13.1 | 16.0  | 29.3 | 19.4  | 12.6 | 10.1  | 8.76 | 9.89  | 12.0 | 20.7  |  |  |  |
| 140                | 15.4 | 14.1 | 12.1 | 10.8 | 10.2 | 11.2  | 13.2 | 14.8  | 15.7 | 14.6  | 12.8 | 10.6  | 9.48 | 10.4  | 12.0 | 14.2  |  |  |  |
| 145                | 14.8 | 13.6 | 12.2 | 11.2 | 10.9 | 11.5  | 13.2 | 14.5  | 14.9 | 14.4  | 12.9 | 11.0  | 10.2 | 10.8  | 12.1 | 13.7  |  |  |  |
| 150                | 14.5 | 13.3 | 12.3 | 11.6 | 11.5 | 11.8  | 13.2 | 14.2  | 14.5 | 14.1  | 12.9 | 11.4  | 10.9 | 11.3  | 12.3 | 13.4  |  |  |  |
| 155                | 14.1 | 13.1 | 12.5 | 12.1 | 12.0 | 12.1  | 13.1 | 13.9  | 14.2 | 13.9  | 12.9 | 11.8  | 11.6 | 11.8  | 12.4 | 13.2  |  |  |  |
| 160                | 13.9 | 13.1 | 12.7 | 12.5 | 12.5 | 12.5  | 13.1 | 13.6  | 13.9 | 13.7  | 12.9 | 12.3  | 12.3 | 12.2  | 12.7 | 13.1  |  |  |  |
| 165                | 13.8 | 13.1 | 12.9 | 12.8 | 12.9 | 12.7  | 13.0 | 13.3  | 13.7 | 13.5  | 12.9 | 12.6  | 12.8 | 12.6  | 12.9 | 13.0  |  |  |  |
| 170                | 13.6 | 13.2 | 13.1 | 13.2 | 13.3 | 13.3  | 13.1 | 13.2  | 13.2 | 13.1  | 13.0 | 13.1  | 13.2 | 12.9  | 13.0 | 12.9  |  |  |  |
| 175                | 13.6 | 13.4 | 13.3 | 13.4 | 13.5 | 13.7  | 13.5 | 13.4  | 13.2 | 13.2  | 13.3 | 13.6  | 13.6 | 13.3  | 13.3 | 13.0  |  |  |  |
| 180                | 13.6 | 13.6 | 13.7 | 13.7 | 13.7 | 13.7  | 13.7 | 13.6  | 13.6 | 13.6  | 13.7 | 13.7  | 13.7 | 13.7  | 13.7 | 13.5  |  |  |  |

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:Testing Room

Test Date:2025-11-20

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.471

Humidity:65.0%

Test Distance:11.050m [K=1.0000]

Remarks: