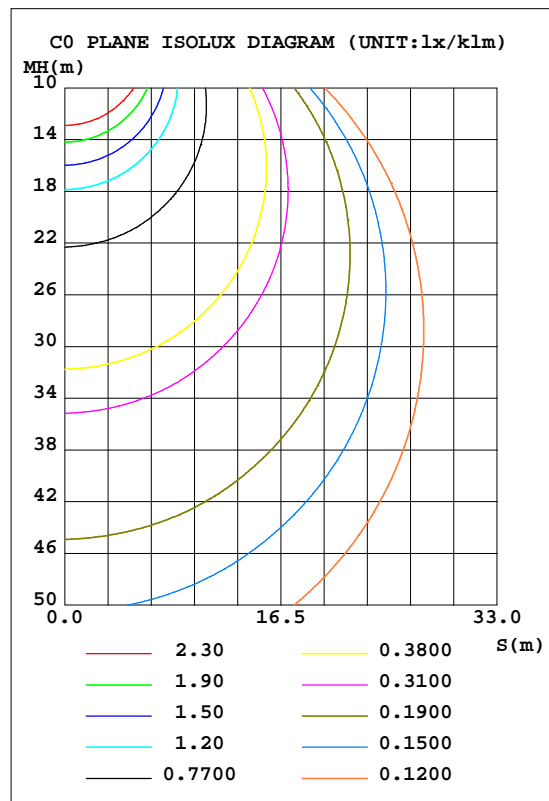
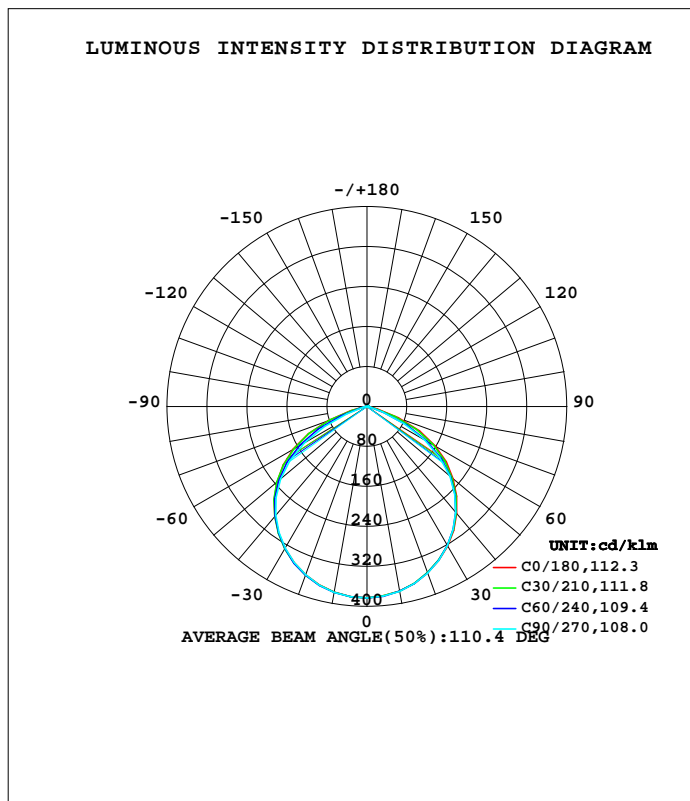


LUMINAIRE PHOTOMETRIC TEST REPORT

|   |       |                  |
|---|-------|------------------|
| Test:U:120.09V I:0.1493A P:14.592W PF:0.8138 Freq:59.98Hz Lamp Flux:1000x1 lm |       |                  |
| NAME: LED DOWNLIGHT   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP   | SUR.: | Shielding Angle: |

| DATA OF LAMP             |      | PHOTOMETRIC DATA Eff: 69.91 lm/W |        |                    |           |
|--------------------------|------|----------------------------------|--------|--------------------|-----------|
| MODEL: 6D15AC-WH (2700K) |      | I <sub>max</sub> (cd/klm)        | 383.0  | S/MH(C0/180)       | 1.27      |
| NOMINAL POWER(W)         | 15   | LOR(%)                           | 100.0  | S/MH(C90/270)      | 1.27      |
| RATED VOLTAGE(V)         | 120  | TOTAL FLUX(lm/klm)               | 1000.0 | h UP, DN(C0-180)   | 0.5, 48.8 |
| NOMINAL FLUX(lm)         | 1000 | CIE CLASS                        | DIRECT | h UP, DN(C180-360) | 0.4, 50.2 |
| LAMPS INSIDE             | 1    | h up(%)                          | 0.9    | CIBSE SHR NOM      | 1.25      |
| TEST VOLTAGE(V)          | 120  | h down(%)                        | 99.1   | CIBSE SHR MAX      | 1.35      |



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-02-26

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity: 65.0%  
 Test Distance: 8.000m [K=1.0250]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

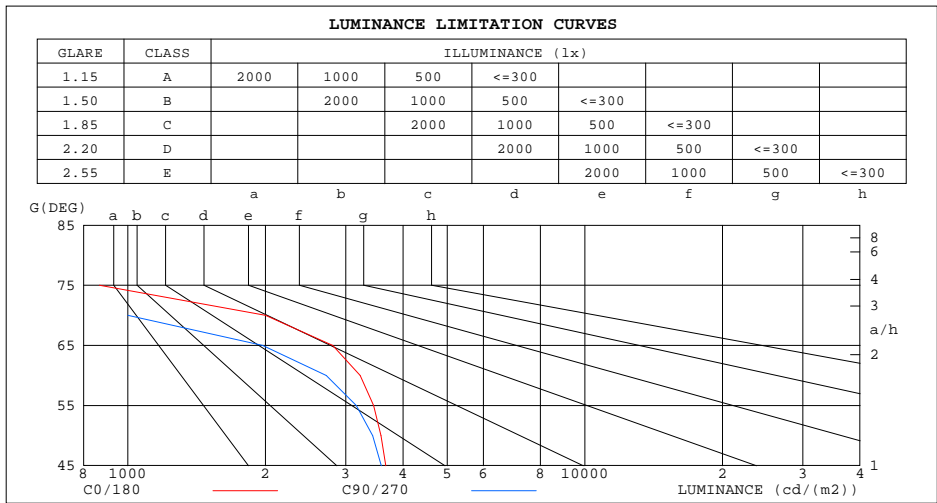
| g   | C0                        | C45    | C90    | C135   | C180   | C225   | C270   | C315   | g       | F zone      | F total | %lum,lamp |
|-----|---------------------------|--------|--------|--------|--------|--------|--------|--------|---------|-------------|---------|-----------|
| 10  | 375.1                     | 375.6  | 375.7  | 376.7  | 377.6  | 377.6  | 377.9  | 376.5  | 0- 10   | 36.25       | 36.25   | 3.63,3.63 |
| 20  | 354.7                     | 354.4  | 355.0  | 356.9  | 358.6  | 359.5  | 358.7  | 356.7  | 10- 20  | 103.9       | 140.2   | 14,14     |
| 30  | 322.8                     | 321.7  | 322.0  | 325.0  | 328.0  | 328.7  | 327.4  | 324.9  | 20- 30  | 157.8       | 298.0   | 29.8,29.8 |
| 40  | 279.6                     | 278.1  | 276.3  | 282.5  | 287.4  | 286.3  | 284.0  | 281.6  | 30- 40  | 190.7       | 488.7   | 48.9,48.9 |
| 50  | 225.4                     | 222.6  | 216.4  | 227.5  | 235.3  | 232.0  | 226.2  | 224.9  | 40- 50  | 197.1       | 685.8   | 68.6,68.6 |
| 60  | 157.9                     | 148.3  | 133.3  | 154.0  | 170.1  | 161.8  | 144.7  | 149.6  | 50- 60  | 170.6       | 856.5   | 85.6,85.6 |
| 70  | 67.00                     | 49.63  | 33.56  | 56.74  | 83.09  | 67.01  | 43.48  | 53.02  | 60- 70  | 104.3       | 960.7   | 96.1,96.1 |
| 80  | 6.841                     | 5.992  | 5.667  | 6.770  | 8.563  | 7.292  | 6.488  | 6.325  | 70- 80  | 26.63       | 987.4   | 98.7,98.7 |
| 90  | 0.4013                    | 0.4038 | 0.3386 | 0.2692 | 0.4537 | 0.2489 | 0.1816 | 0.2187 | 80- 90  | 3.293       | 990.6   | 99.1,99.1 |
| 100 | 0.7411                    | 0.6963 | 0.6633 | 0.5709 | 0.6029 | 0.5379 | 0.5435 | 0.5146 | 90-100  | 0.5071      | 991.2   | 99.1,99.1 |
| 110 | 1.172                     | 1.100  | 1.072  | 0.9976 | 1.006  | 0.9230 | 0.9242 | 0.9227 | 100-110 | 0.8696      | 992.0   | 99.2,99.2 |
| 120 | 1.594                     | 1.518  | 1.503  | 1.434  | 1.414  | 1.336  | 1.347  | 1.373  | 110-120 | 1.229       | 993.2   | 99.3,99.3 |
| 130 | 2.043                     | 1.893  | 1.893  | 1.809  | 1.785  | 1.698  | 1.746  | 1.739  | 120-130 | 1.476       | 994.7   | 99.5,99.5 |
| 140 | 2.312                     | 2.153  | 2.241  | 2.102  | 2.123  | 1.967  | 2.103  | 2.059  | 130-140 | 1.546       | 996.3   | 99.6,99.6 |
| 150 | 2.659                     | 2.492  | 2.474  | 2.440  | 2.369  | 2.352  | 2.391  | 2.449  | 140-150 | 1.434       | 997.7   | 99.8,99.8 |
| 160 | 2.817                     | 2.803  | 2.775  | 2.714  | 2.698  | 2.691  | 2.693  | 2.713  | 150-160 | 1.199       | 998.9   | 99.9,99.9 |
| 170 | 2.980                     | 2.984  | 2.970  | 2.950  | 2.915  | 2.905  | 2.915  | 2.945  | 160-170 | 0.8080      | 999.7   | 100,100   |
| 180 | 3.077                     | 3.099  | 3.096  | 3.108  | 3.086  | 3.099  | 3.096  | 3.117  | 170-180 | 0.2872      | 1000    | 100,100   |
| DEG | LUMINOUS INTENSITY:cd/klm |        |        |        |        |        |        |        |         | UNIT:lm/klm |         |           |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-02-26

g Range: 0 - 180DEG  
g Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:8.000m [K=1.0250]  
Remarks:

LUMINANCE LIMITATION CURVES

|   |       |                  |
|---|-------|------------------|
| Test:U:120.09V I:0.1493A P:14.592W PF:0.8138 Freq:59.98Hz Lamp Flux:1000x1 lm |       |                  |
| NAME: LED DOWNLIGHT   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP   | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 342    | 158     |
| 80                | 402    | 333     |
| 75                | 867    | 406     |
| 70                | 2000   | 1000    |
| 65                | 2807   | 1972    |
| 60                | 3224   | 2718    |
| 55                | 3451   | 3165    |
| 50                | 3580   | 3432    |
| 45                | 3668   | 3587    |

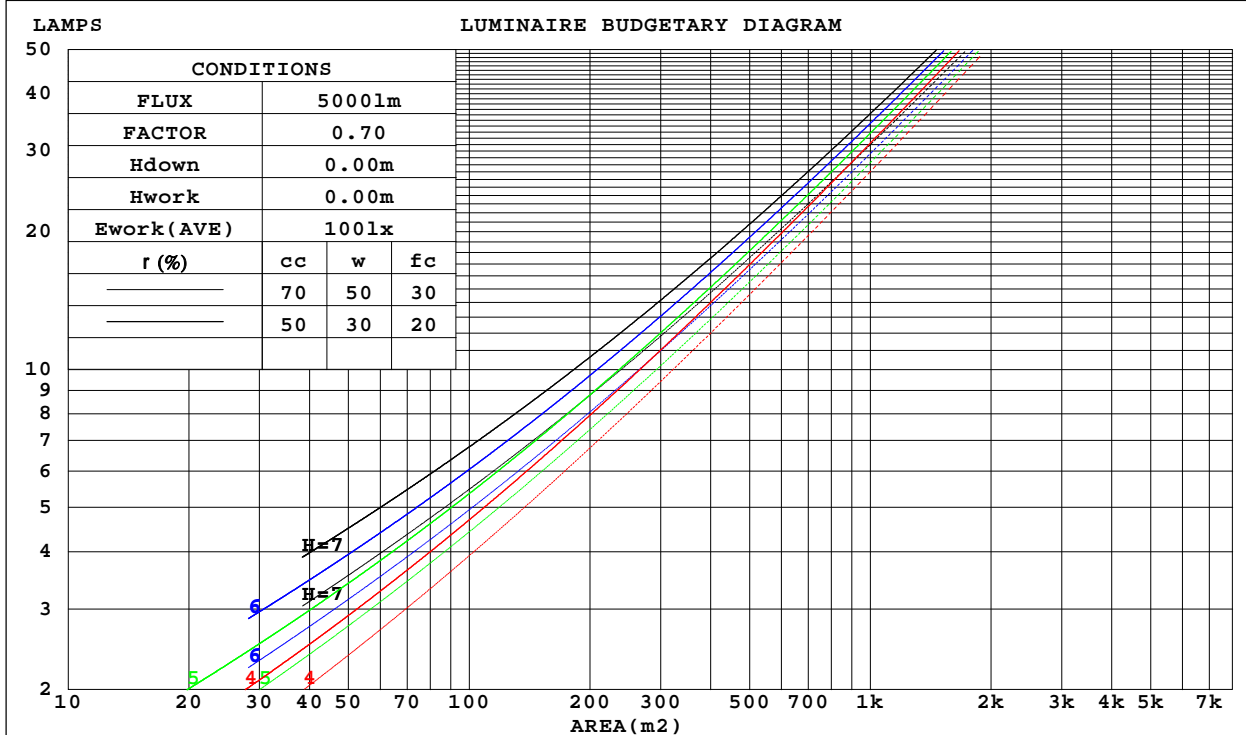
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-02-26

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity: 65.0%  
 Test Distance: 8.000m [K=1.0250]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|   |       |                  |
|---|-------|------------------|
| Test:U:120.09V I:0.1493A P:14.592W PF:0.8138 Freq:59.98Hz Lamp Flux:1000x1 lm |       |                  |
| NAME: LED DOWNLIGHT   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP   | SUR.: | Shielding Angle: |

|                 |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |     |
|-----------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|-----|
| r <sub>cc</sub> | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0   |
| r <sub>w</sub>  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| r <sub>fc</sub> | 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 | 1.01 | 1.01 | 1.01 | .99 |
| 1.0             | 1.06                  | 1.02 | .99  | 1.04 | 1.00 | .97  | .99                             | .96  | .94  | .95  | .93  | .91  | .91  | .90  | .88  | .86 |
| 2.0             | .93                   | .87  | .82  | .91  | .86  | .81  | .88                             | .83  | .79  | .84  | .81  | .77  | .81  | .78  | .75  | .73 |
| 3.0             | .83                   | .75  | .69  | .81  | .74  | .68  | .78                             | .72  | .67  | .75  | .70  | .66  | .72  | .68  | .65  | .62 |
| 4.0             | .73                   | .65  | .59  | .72  | .64  | .58  | .69                             | .63  | .58  | .67  | .61  | .57  | .65  | .60  | .56  | .54 |
| 5.0             | .66                   | .57  | .51  | .65  | .57  | .51  | .62                             | .55  | .50  | .60  | .54  | .49  | .58  | .53  | .49  | .47 |
| 6.0             | .59                   | .51  | .45  | .58  | .50  | .44  | .56                             | .49  | .44  | .55  | .48  | .43  | .53  | .47  | .43  | .41 |
| 7.0             | .54                   | .45  | .39  | .53  | .45  | .39  | .51                             | .44  | .39  | .50  | .43  | .38  | .48  | .43  | .38  | .36 |
| 8.0             | .49                   | .41  | .35  | .48  | .40  | .35  | .47                             | .40  | .35  | .46  | .39  | .34  | .44  | .39  | .34  | .32 |
| 9.0             | .45                   | .37  | .32  | .44  | .37  | .31  | .43                             | .36  | .31  | .42  | .36  | .31  | .41  | .35  | .31  | .29 |
| 10.0            | .42                   | .34  | .29  | .41  | .34  | .29  | .40                             | .33  | .28  | .39  | .33  | .28  | .38  | .32  | .28  | .26 |



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-02-26

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0250]  
 Remarks:

WEC AND CCEC

|   |       |                  |
|---|-------|------------------|
| Test:U:120.09V I:0.1493A P:14.592W PF:0.8138 Freq:59.98Hz Lamp Flux:1000x1 lm |       |                  |
| NAME: LED DOWNLIGHT   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP   | SUR.: | Shielding Angle: |

| rcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| rw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| rfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .268                  | .152 | .048 | .261 | .149 | .047 | .247                            | .142 | .045 | .235 | .135 | .043 | .223 | .129 | .042 |   |
| 2.0  | .262                  | .143 | .044 | .255 | .141 | .043 | .243                            | .135 | .042 | .232 | .130 | .041 | .222 | .126 | .040 |   |
| 3.0  | .248                  | .132 | .040 | .242 | .130 | .039 | .232                            | .126 | .038 | .222 | .122 | .037 | .213 | .118 | .037 |   |
| 4.0  | .233                  | .121 | .036 | .228 | .119 | .035 | .218                            | .116 | .035 | .210 | .113 | .034 | .202 | .110 | .033 |   |
| 5.0  | .218                  | .111 | .032 | .213 | .110 | .032 | .205                            | .107 | .031 | .197 | .104 | .031 | .190 | .102 | .031 |   |
| 6.0  | .204                  | .102 | .029 | .200 | .101 | .029 | .193                            | .099 | .029 | .186 | .096 | .028 | .179 | .094 | .028 |   |
| 7.0  | .191                  | .094 | .027 | .188 | .093 | .027 | .181                            | .091 | .026 | .175 | .090 | .026 | .169 | .088 | .026 |   |
| 8.0  | .179                  | .088 | .025 | .176 | .087 | .025 | .170                            | .085 | .024 | .165 | .083 | .024 | .159 | .082 | .024 |   |
| 9.0  | .169                  | .082 | .023 | .166 | .081 | .023 | .161                            | .079 | .023 | .155 | .078 | .022 | .151 | .077 | .022 |   |
| 10.0 | .159                  | .076 | .021 | .157 | .076 | .021 | .152                            | .074 | .021 | .147 | .073 | .021 | .143 | .072 | .021 |   |

| rcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| rw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| rfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .198                  | .198 | .198 | .169 | .169 | .169 | .115                                       | .115 | .115 | .066 | .066 | .066 | .021 | .021 | .021 |   |
| 1.0  | .185                  | .164 | .145 | .158 | .140 | .125 | .108                                       | .097 | .086 | .062 | .056 | .050 | .020 | .018 | .016 |   |
| 2.0  | .175                  | .139 | .109 | .150 | .120 | .094 | .103                                       | .083 | .066 | .059 | .048 | .038 | .019 | .016 | .013 |   |
| 3.0  | .168                  | .121 | .085 | .144 | .105 | .073 | .099                                       | .073 | .051 | .057 | .042 | .030 | .018 | .014 | .010 |   |
| 4.0  | .160                  | .108 | .068 | .137 | .093 | .059 | .094                                       | .065 | .042 | .055 | .038 | .025 | .018 | .012 | .008 |   |
| 5.0  | .153                  | .097 | .056 | .131 | .084 | .049 | .091                                       | .059 | .035 | .052 | .035 | .021 | .017 | .011 | .007 |   |
| 6.0  | .146                  | .089 | .048 | .126 | .077 | .042 | .087                                       | .054 | .030 | .050 | .032 | .018 | .016 | .010 | .006 |   |
| 7.0  | .140                  | .082 | .042 | .120 | .071 | .036 | .083                                       | .050 | .026 | .048 | .029 | .015 | .016 | .010 | .005 |   |
| 8.0  | .134                  | .076 | .037 | .115 | .066 | .032 | .080                                       | .046 | .023 | .046 | .027 | .014 | .015 | .009 | .005 |   |
| 9.0  | .128                  | .071 | .033 | .110 | .062 | .029 | .076                                       | .044 | .021 | .044 | .026 | .012 | .014 | .008 | .004 |   |
| 10.0 | .123                  | .067 | .030 | .106 | .058 | .026 | .073                                       | .041 | .019 | .043 | .024 | .011 | .014 | .008 | .004 |   |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-02-26

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0250]  
 Remarks:

UGR(Unified Glare Rating) Table

|   |                  |      |      |      |       |                |      |                  |      |      |
|---|------------------|------|------|------|-------|----------------|------|------------------|------|------|
| Test:U:120.09V I:0.1493A P:14.592W PF:0.8138 Freq:59.98Hz Lamp Flux:1000x1 lm |                  |      |      |      |       |                |      |                  |      |      |
| NAME: LED DOWNLIGHT   |                  |      |      |      | TYPE: |                |      | WEIGHT:          |      |      |
| SPEC.:  |                  |      |      |      | DIM.: |                |      | SERIAL No.:      |      |      |
| MFR.: ASD LIGHTING CORP   |                  |      |      |      | 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   | 16.6             | 18.1 | 17.0 | 18.5 | 18.8  | 15.9           | 17.5 | 16.3             | 17.8 | 18.2 |
| 3H  | 17.7             | 19.0 | 18.1 | 19.4 | 19.8  | 16.4           | 17.8 | 16.8             | 18.1 | 18.5 |
| 4H  | 17.7             | 19.0 | 18.2 | 19.4 | 19.8  | 16.4           | 17.7 | 16.8             | 18.0 | 18.4 |
| 6H  | 17.7             | 18.9 | 18.1 | 19.3 | 19.7  | 16.3           | 17.5 | 16.8             | 17.9 | 18.3 |
| 8H  | 17.7             | 18.8 | 18.1 | 19.2 | 19.6  | 16.3           | 17.4 | 16.8             | 17.9 | 18.3 |
| 12H   | 17.7             | 18.7 | 18.1 | 19.1 | 19.6  | 16.3           | 17.4 | 16.7             | 17.8 | 18.2 |
| 4H 2H   | 16.9             | 18.2 | 17.3 | 18.6 | 19.0  | 16.5           | 17.7 | 16.9             | 18.1 | 18.5 |
| 3H  | 18.1             | 19.1 | 18.5 | 19.6 | 20.0  | 17.0           | 18.0 | 17.4             | 18.4 | 18.9 |
| 4H  | 18.2             | 19.1 | 18.6 | 19.5 | 20.0  | 16.9           | 17.9 | 17.4             | 18.3 | 18.8 |
| 6H  | 18.1             | 19.0 | 18.6 | 19.4 | 19.9  | 16.9           | 17.7 | 17.4             | 18.2 | 18.7 |
| 8H  | 18.1             | 18.9 | 18.6 | 19.3 | 19.8  | 16.9           | 17.7 | 17.4             | 18.1 | 18.6 |
| 12H   | 18.1             | 18.8 | 18.6 | 19.3 | 19.8  | 16.9           | 17.5 | 17.4             | 18.0 | 18.5 |
| 8H 4H   | 18.1             | 18.9 | 18.6 | 19.3 | 19.8  | 17.0           | 17.7 | 17.4             | 18.2 | 18.7 |
| 6H  | 18.1             | 18.7 | 18.6 | 19.2 | 19.7  | 16.9           | 17.6 | 17.4             | 18.1 | 18.6 |
| 8H  | 18.0             | 18.6 | 18.6 | 19.1 | 19.6  | 16.9           | 17.5 | 17.4             | 18.0 | 18.5 |
| 12H   | 18.0             | 18.5 | 18.5 | 19.0 | 19.6  | 16.9           | 17.4 | 17.4             | 17.9 | 18.5 |
| 12H 4H  | 18.1             | 18.7 | 18.6 | 19.2 | 19.7  | 16.9           | 17.6 | 17.4             | 18.1 | 18.6 |
| 6H  | 18.0             | 18.6 | 18.6 | 19.1 | 19.6  | 16.9           | 17.5 | 17.4             | 17.9 | 18.5 |
| 8H  | 18.0             | 18.5 | 18.5 | 19.0 | 19.6  | 16.9           | 17.4 | 17.4             | 17.9 | 18.5 |
| CIE190: 2010  |                  |      |      |      |       |                |      |                  |      |      |
|   |                  |      |      |      |       |                |      |                  |      |      |

CIE190: 2010  
Area: 0.1 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-02-26

g Range: 0 - 180DEG  
g Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:8.000m [K=1.0250]  
Remarks:

## UTILIZATION FACTORS TABLE

|   |       |                  |
|---|-------|------------------|
| Test:U:120.09V I:0.1493A P:14.592W PF:0.8138 Freq:59.98Hz Lamp Flux:1000x1 lm |       |                  |
| NAME: LED DOWNLIGHT   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP   | SUR.: | Shielding Angle: |

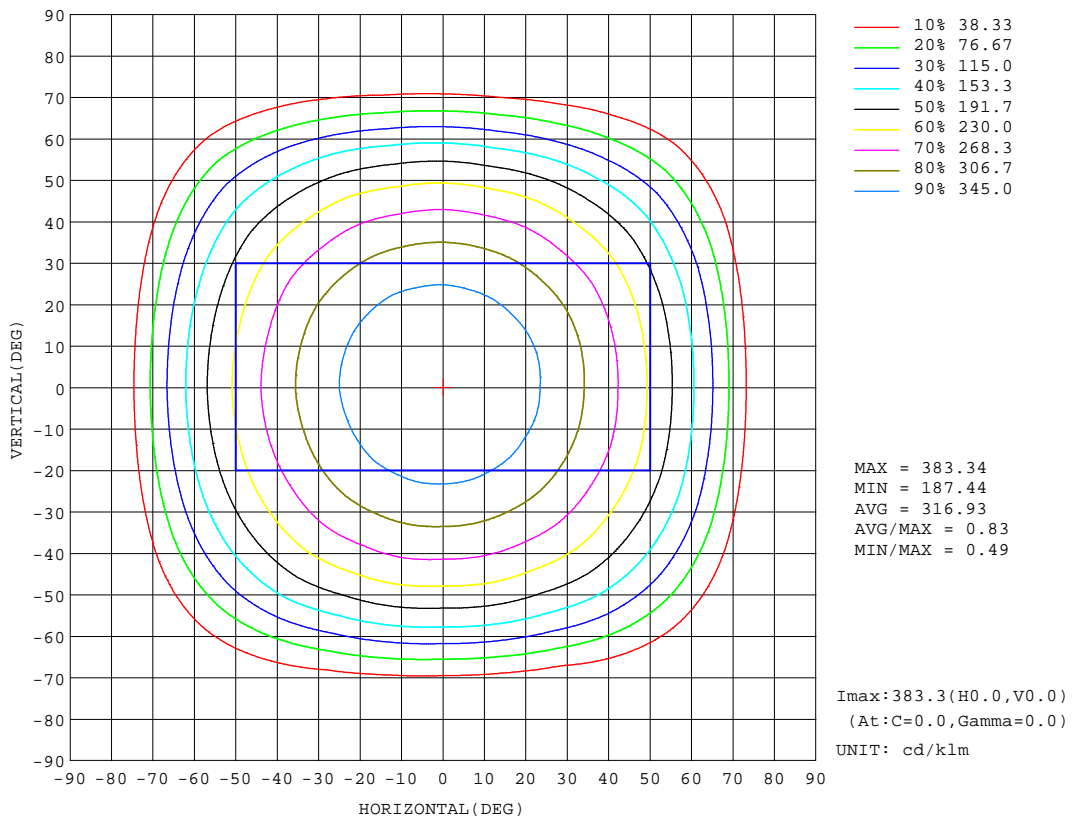
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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                         | 59   | 48  | 41        | 59  | 48  | 41  | 57            | 47  | 41  | 35     |
| 0.80                             | 70   | 59  | 52        | 69  | 58  | 52  | 67            | 58  | 51  | 45     |
| 1.00                             | 79   | 68  | 62        | 78  | 68  | 61  | 75            | 69  | 61  | 54     |
| 1.25                             | 86   | 76  | 70        | 85  | 76  | 69  | 82            | 74  | 68  | 62     |
| 1.50                             | 91   | 82  | 76        | 89  | 81  | 75  | 86            | 79  | 74  | 67     |
| 2.00                             | 98   | 90  | 84        | 96  | 89  | 83  | 92            | 86  | 82  | 74     |
| 2.50                             | 101  | 94  | 89        | 99  | 93  | 88  | 95            | 90  | 86  | 78     |
| 3.00                             | 104  | 98  | 93        | 102 | 97  | 92  | 98            | 94  | 90  | 82     |
| 4.00                             | 108  | 103 | 99        | 105 | 101 | 97  | 101           | 98  | 95  | 86     |
| 5.00                             | 110  | 106 | 102       | 107 | 104 | 101 | 103           | 100 | 97  | 88     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-02-26

g Range: 0 - 180DEG  
g Interval: 5.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
Humidity: 65.0%  
Test Distance: 8.000m [K=1.0250]  
Remarks:

ISOCANDELA DIAGRAM

|   |       |                  |
|---|-------|------------------|
| Test:U:120.09V I:0.1493A P:14.592W PF:0.8138 Freq:59.98Hz Lamp Flux:1000x1 lm |       |                  |
| NAME: LED DOWNLIGHT   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP   | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-02-26

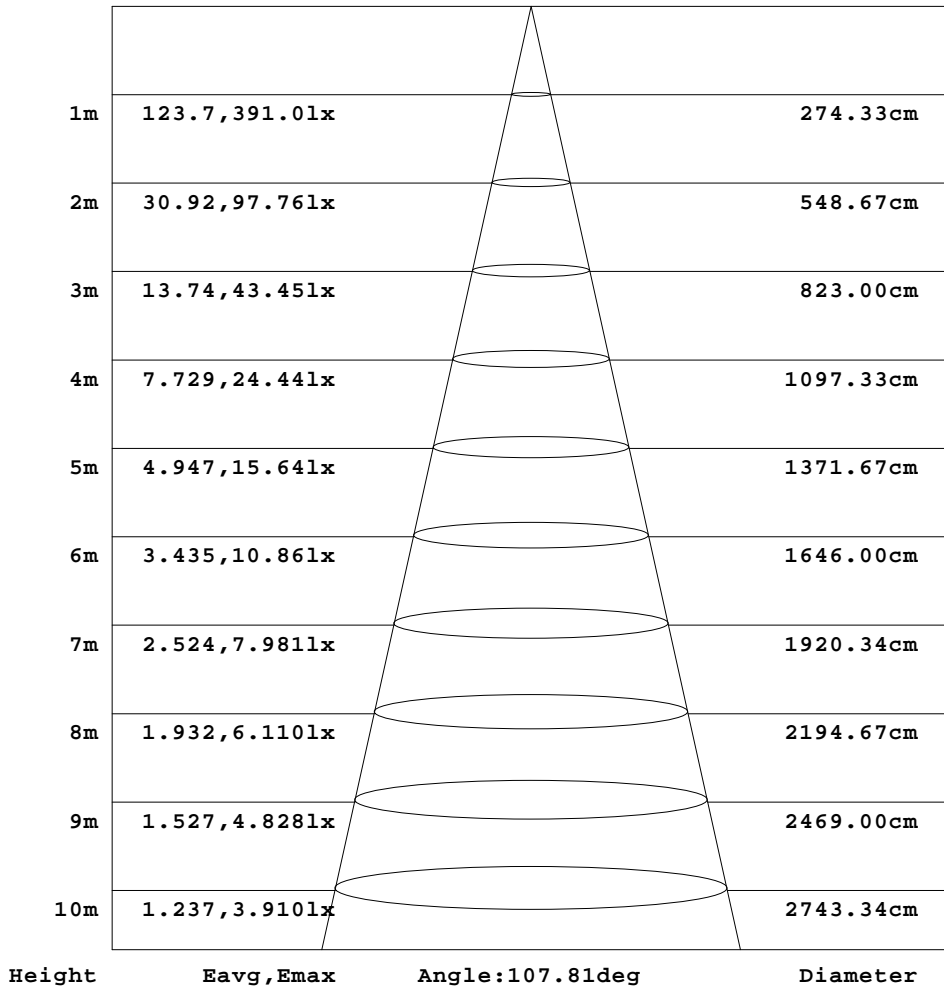
g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0250]  
 Remarks:



AAI Figure

|   |       |                  |
|---|-------|------------------|
| Test:U:120.09V I:0.1493A P:14.592W PF:0.8138 Freq:59.98Hz Lamp Flux:1000x1 lm |       |                  |
| NAME: LED DOWNLIGHT   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP   | SUR.: | Shielding Angle: |

Flux out:792.4 lm



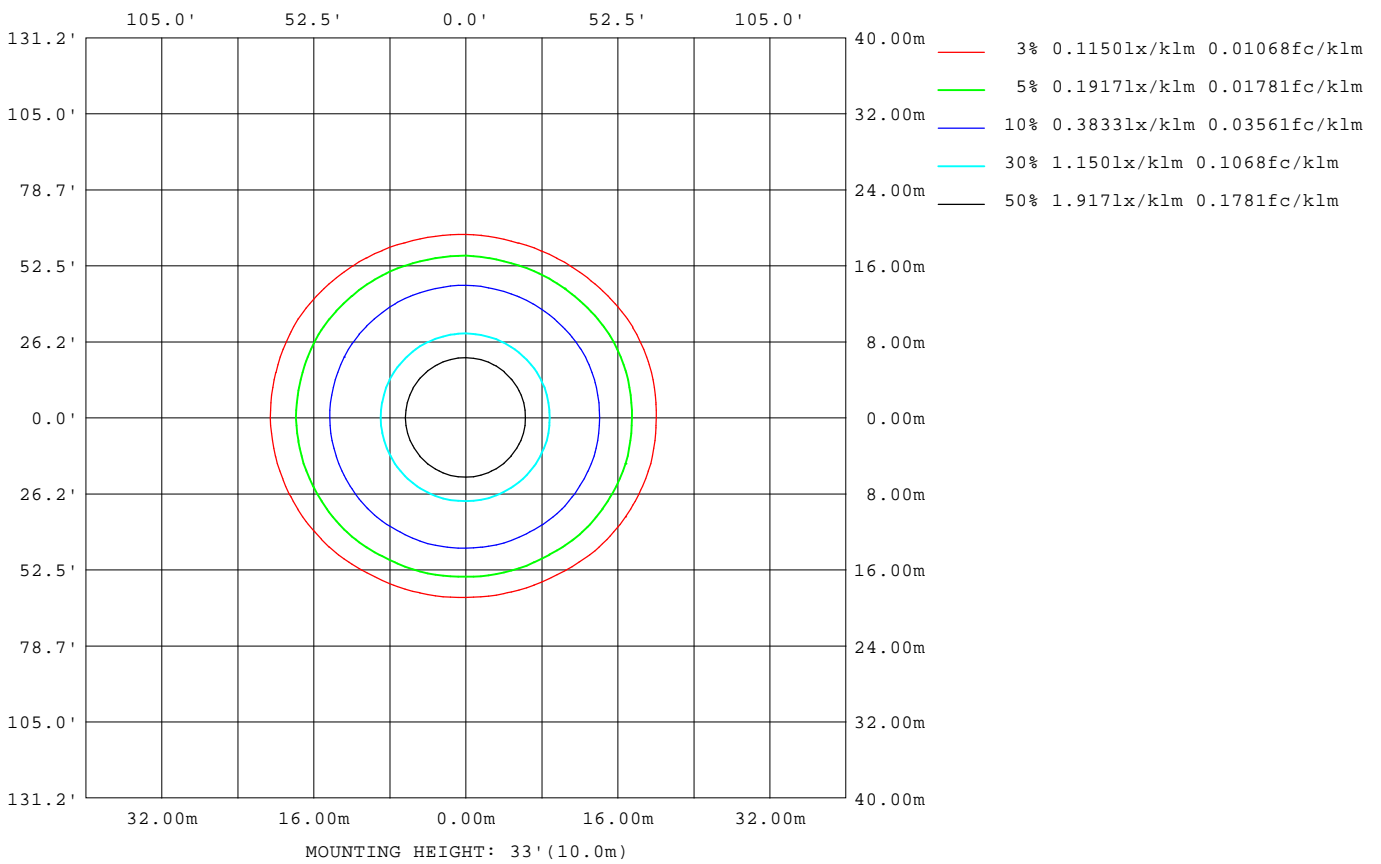
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-02-26

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0250]  
 Remarks:

ISOLUX DIAGRAM

|   |       |                  |
|---|-------|------------------|
| Test:U:120.09V I:0.1493A P:14.592W PF:0.8138 Freq:59.98Hz Lamp Flux:1000x1 lm |       |                  |
| NAME: LED DOWNLIGHT   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP   | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-02-26

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity: 65.0%  
 Test Distance: 8.000m [K=1.0250]  
 Remarks:

## LED Avg.L Report

|   |       |                  |
|---|-------|------------------|
| Test:U:120.09V I:0.1493A P:14.592W PF:0.8138 Freq:59.98Hz Lamp Flux:1000x1 lm |       |                  |
| NAME: LED DOWNLIGHT   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP   | SUR.: | Shielding Angle: |

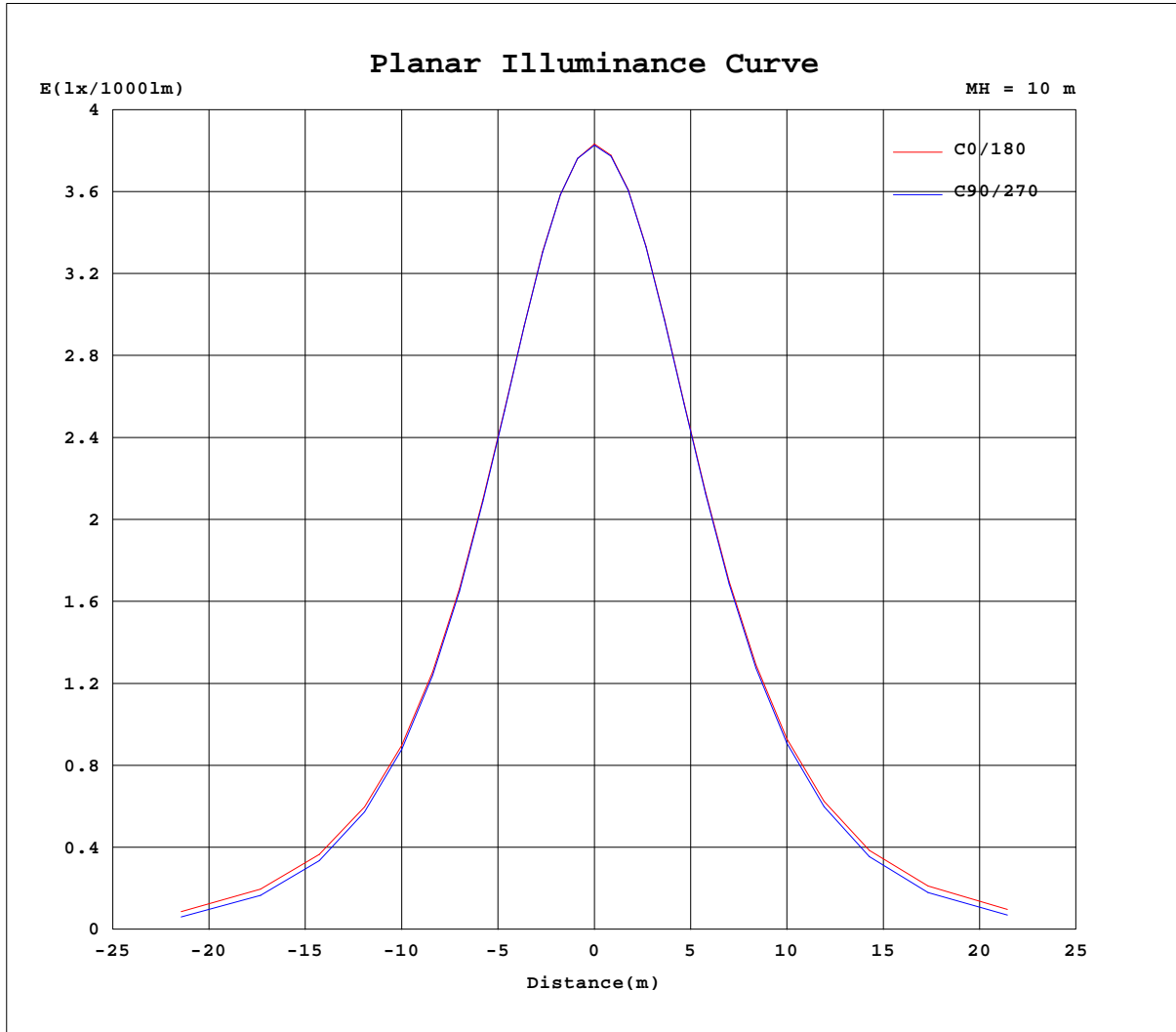
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 2970  |
| L_0~180(75)av  | 1110  |
| L_0~180(85)av  | 420   |
| L_90~270(65)av | 2120  |
| L_90~270(75)av | 453   |
| L_90~270(85)av | 203   |
| L_45(65)av     | 2591  |
| L_45(75)av     | 674   |
| L_45(85)av     | 279   |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-02-26

g Range: 0 - 180DEG  
g Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:8.000m [K=1.0250]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-02-26

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity: 65.0%  
 Test Distance: 8.000m [K=1.0250]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|   |       |                  |
|---|-------|------------------|
| Test:U:120.09V I:0.1493A P:14.592W PF:0.8138 Freq:59.98Hz Lamp Flux:1000x1 lm |       |                  |
| NAME: LED DOWNLIGHT   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP   | SUR.: | Shielding Angle: |

Table--1

UNIT: cd/klm

| C(DEG)<br>g (DEG) | 0    | 15   | 30   | 45   | 60   | 75   | 90   | 105  | 120  | 135  | 150  | 165  | 180  | 195  | 210  | 225  | 240  | 255  | 270  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                 | 383  | 383  | 383  | 383  | 383  | 383  | 383  | 383  | 383  | 383  | 383  | 383  | 383  | 383  | 383  | 383  | 383  | 383  | 383  |
| 5                 | 380  | 381  | 380  | 381  | 381  | 381  | 381  | 381  | 381  | 381  | 382  | 382  | 382  | 383  | 382  | 382  | 382  | 382  | 382  |
| 10                | 375  | 376  | 375  | 376  | 375  | 375  | 376  | 376  | 376  | 377  | 376  | 377  | 378  | 378  | 377  | 378  | 378  | 377  | 378  |
| 15                | 367  | 367  | 366  | 366  | 366  | 367  | 367  | 367  | 367  | 368  | 368  | 369  | 370  | 370  | 370  | 370  | 371  | 369  | 370  |
| 20                | 355  | 355  | 354  | 354  | 355  | 355  | 355  | 355  | 356  | 357  | 357  | 358  | 359  | 359  | 359  | 360  | 360  | 359  | 359  |
| 25                | 340  | 341  | 339  | 340  | 339  | 339  | 340  | 340  | 341  | 342  | 342  | 343  | 345  | 345  | 345  | 346  | 346  | 344  | 345  |
| 30                | 323  | 323  | 322  | 322  | 321  | 322  | 322  | 323  | 323  | 325  | 325  | 327  | 328  | 328  | 329  | 329  | 329  | 328  | 327  |
| 35                | 303  | 303  | 301  | 301  | 300  | 300  | 301  | 302  | 303  | 305  | 306  | 307  | 309  | 310  | 310  | 309  | 309  | 307  | 307  |
| 40                | 280  | 281  | 278  | 278  | 277  | 277  | 276  | 279  | 279  | 282  | 283  | 285  | 287  | 287  | 288  | 286  | 286  | 284  | 284  |
| 45                | 254  | 255  | 252  | 253  | 249  | 250  | 249  | 252  | 253  | 257  | 257  | 261  | 263  | 262  | 264  | 261  | 261  | 257  | 258  |
| 50                | 225  | 227  | 223  | 223  | 218  | 218  | 216  | 220  | 222  | 228  | 229  | 232  | 235  | 235  | 236  | 232  | 231  | 226  | 226  |
| 55                | 194  | 195  | 190  | 189  | 182  | 180  | 178  | 182  | 185  | 194  | 197  | 201  | 205  | 204  | 205  | 200  | 197  | 190  | 189  |
| 60                | 158  | 159  | 153  | 148  | 138  | 135  | 133  | 138  | 142  | 154  | 160  | 166  | 170  | 170  | 169  | 162  | 156  | 147  | 145  |
| 65                | 116  | 116  | 110  | 101  | 88.6 | 83.2 | 81.8 | 86.8 | 93.8 | 107  | 118  | 125  | 130  | 130  | 128  | 118  | 107  | 97.6 | 93.9 |
| 70                | 67.0 | 66.5 | 59.6 | 49.6 | 38.0 | 34.1 | 33.6 | 37.7 | 43.5 | 56.7 | 69.1 | 77.7 | 83.1 | 82.9 | 79.6 | 67.0 | 55.2 | 45.9 | 43.5 |
| 75                | 22.0 | 21.4 | 18.0 | 13.7 | 10.6 | 10.2 | 10.3 | 11.0 | 12.0 | 16.9 | 24.8 | 30.7 | 34.3 | 33.5 | 31.1 | 22.4 | 16.3 | 13.1 | 12.7 |
| 80                | 6.84 | 6.75 | 6.36 | 5.99 | 5.68 | 5.68 | 5.67 | 5.98 | 6.26 | 6.77 | 7.30 | 8.02 | 8.56 | 8.37 | 8.17 | 7.29 | 6.96 | 6.63 | 6.49 |
| 85                | 2.92 | 2.74 | 2.15 | 1.79 | 1.42 | 1.40 | 1.35 | 1.58 | 1.79 | 2.49 | 3.05 | 3.73 | 4.26 | 4.13 | 3.77 | 3.18 | 2.77 | 2.31 | 2.11 |
| 90                | 0.40 | 0.49 | 0.51 | 0.40 | 0.47 | 0.39 | 0.34 | 0.27 | 0.26 | 0.27 | 0.30 | 0.33 | 0.45 | 0.39 | 0.32 | 0.25 | 0.21 | 0.17 | 0.18 |
| 95                | 0.56 | 0.61 | 0.63 | 0.53 | 0.62 | 0.56 | 0.48 | 0.44 | 0.40 | 0.39 | 0.42 | 0.46 | 0.43 | 0.49 | 0.50 | 0.39 | 0.46 | 0.44 | 0.39 |
| 100               | 0.74 | 0.79 | 0.82 | 0.70 | 0.77 | 0.71 | 0.66 | 0.61 | 0.58 | 0.57 | 0.60 | 0.64 | 0.60 | 0.64 | 0.65 | 0.54 | 0.60 | 0.58 | 0.54 |
| 105               | 0.96 | 0.99 | 1.00 | 0.89 | 0.96 | 0.90 | 0.87 | 0.81 | 0.78 | 0.78 | 0.80 | 0.84 | 0.80 | 0.83 | 0.82 | 0.72 | 0.78 | 0.76 | 0.73 |
| 110               | 1.17 | 1.20 | 1.21 | 1.10 | 1.16 | 1.12 | 1.07 | 1.02 | 1.00 | 1.00 | 1.02 | 1.05 | 1.01 | 1.02 | 1.01 | 0.92 | 0.98 | 0.96 | 0.92 |
| 115               | 1.39 | 1.41 | 1.42 | 1.31 | 1.37 | 1.33 | 1.29 | 1.24 | 1.21 | 1.22 | 1.23 | 1.26 | 1.21 | 1.23 | 1.22 | 1.12 | 1.19 | 1.17 | 1.15 |
| 120               | 1.59 | 1.60 | 1.62 | 1.52 | 1.57 | 1.53 | 1.50 | 1.46 | 1.44 | 1.43 | 1.45 | 1.48 | 1.41 | 1.42 | 1.41 | 1.34 | 1.39 | 1.37 | 1.35 |
| 125               | 1.81 | 1.81 | 1.82 | 1.71 | 1.77 | 1.73 | 1.70 | 1.66 | 1.63 | 1.62 | 1.64 | 1.66 | 1.60 | 1.61 | 1.60 | 1.53 | 1.58 | 1.57 | 1.55 |
| 130               | 2.04 | 2.00 | 2.00 | 1.89 | 1.96 | 1.91 | 1.89 | 1.85 | 1.82 | 1.81 | 1.83 | 1.85 | 1.78 | 1.80 | 1.78 | 1.70 | 1.76 | 1.76 | 1.75 |
| 135               | 2.21 | 2.20 | 2.16 | 2.05 | 2.06 | 2.09 | 2.07 | 2.02 | 1.99 | 1.95 | 1.99 | 2.03 | 1.97 | 1.96 | 1.95 | 1.86 | 1.93 | 1.92 | 1.95 |
| 140               | 2.31 | 2.31 | 2.32 | 2.15 | 2.17 | 2.26 | 2.24 | 2.19 | 2.15 | 2.10 | 2.16 | 2.20 | 2.12 | 2.12 | 2.11 | 1.97 | 2.09 | 2.07 | 2.10 |
| 145               | 2.43 | 2.42 | 2.35 | 2.33 | 2.39 | 2.36 | 2.36 | 2.32 | 2.31 | 2.27 | 2.29 | 2.35 | 2.27 | 2.26 | 2.17 | 2.16 | 2.20 | 2.25 | 2.18 |
| 150               | 2.66 | 2.51 | 2.49 | 2.49 | 2.49 | 2.47 | 2.47 | 2.45 | 2.43 | 2.44 | 2.44 | 2.46 | 2.37 | 2.35 | 2.34 | 2.35 | 2.32 | 2.32 | 2.39 |
| 155               | 2.79 | 2.65 | 2.75 | 2.74 | 2.63 | 2.63 | 2.63 | 2.60 | 2.61 | 2.58 | 2.62 | 2.62 | 2.52 | 2.51 | 2.49 | 2.51 | 2.57 | 2.51 | 2.55 |
| 160               | 2.82 | 2.77 | 2.82 | 2.80 | 2.81 | 2.81 | 2.78 | 2.82 | 2.76 | 2.71 | 2.76 | 2.81 | 2.70 | 2.67 | 2.67 | 2.69 | 2.79 | 2.68 | 2.69 |
| 165               | 2.92 | 2.87 | 2.91 | 2.96 | 2.94 | 2.92 | 2.92 | 2.89 | 2.87 | 2.82 | 2.87 | 2.88 | 2.84 | 2.80 | 2.81 | 2.85 | 2.82 | 2.81 | 2.87 |
| 170               | 2.98 | 2.97 | 2.95 | 2.98 | 2.99 | 2.97 | 2.97 | 2.93 | 2.94 | 2.95 | 2.96 | 2.96 | 2.92 | 2.92 | 2.91 | 2.90 | 2.90 | 2.91 | 2.92 |
| 175               | 3.05 | 3.04 | 3.04 | 3.06 | 3.06 | 3.05 | 3.04 | 3.03 | 3.03 | 3.05 | 3.06 | 3.04 | 3.01 | 3.02 | 3.03 | 3.03 | 3.01 | 3.00 | 3.02 |
| 180               | 3.08 | 3.08 | 3.08 | 3.10 | 3.09 | 3.10 | 3.10 | 3.08 | 3.10 | 3.11 | 3.10 | 3.09 | 3.09 | 3.09 | 3.09 | 3.10 | 3.10 | 3.10 | 3.10 |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-02-26

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0250]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|   |       |                  |
|---|-------|------------------|
| Test:U:120.09V I:0.1493A P:14.592W PF:0.8138 Freq:59.98Hz Lamp Flux:1000x1 lm |       |                  |
| NAME: LED DOWNLIGHT   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP   | SUR.: | Shielding Angle: |

Table--2

UNIT: cd/klm

| C(DEG)<br>g (DEG) | 285  | 300  | 315  | 330  | 345  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 383  | 383  | 383  | 383  | 383  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 382  | 382  | 381  | 381  | 381  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 377  | 377  | 376  | 376  | 376  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 369  | 368  | 368  | 368  | 368  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 358  | 358  | 357  | 357  | 357  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 343  | 343  | 342  | 343  | 342  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 326  | 326  | 325  | 325  | 325  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 306  | 306  | 305  | 306  | 305  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 282  | 283  | 282  | 283  | 282  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 255  | 256  | 255  | 258  | 256  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 223  | 225  | 225  | 229  | 228  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 185  | 188  | 190  | 196  | 196  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 141  | 145  | 150  | 158  | 160  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 91.6 | 95.4 | 103  | 114  | 118  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 41.8 | 45.1 | 53.0 | 65.0 | 69.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 12.0 | 12.7 | 15.4 | 22.1 | 24.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 6.30 | 6.34 | 6.33 | 6.70 | 6.94 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 1.89 | 1.93 | 2.06 | 2.49 | 2.87 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 0.19 | 0.19 | 0.22 | 0.24 | 0.31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 0.35 | 0.33 | 0.35 | 0.37 | 0.44 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 0.51 | 0.50 | 0.51 | 0.56 | 0.61 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 0.70 | 0.69 | 0.71 | 0.74 | 0.81 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 0.90 | 0.90 | 0.92 | 0.96 | 1.02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 1.12 | 1.11 | 1.14 | 1.17 | 1.24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 1.34 | 1.34 | 1.37 | 1.40 | 1.50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 1.57 | 1.56 | 1.57 | 1.62 | 1.71 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 1.77 | 1.78 | 1.74 | 1.81 | 1.90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 1.95 | 1.96 | 1.90 | 1.93 | 2.02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 2.09 | 2.06 | 2.06 | 2.10 | 2.15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 2.23 | 2.22 | 2.21 | 2.23 | 2.29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 2.42 | 2.36 | 2.45 | 2.39 | 2.45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 2.61 | 2.55 | 2.60 | 2.57 | 2.64 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 2.77 | 2.73 | 2.71 | 2.73 | 2.79 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 2.87 | 2.86 | 2.82 | 2.84 | 2.88 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 2.94 | 2.94 | 2.95 | 2.93 | 2.94 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 3.02 | 3.04 | 3.06 | 3.05 | 3.04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 3.08 | 3.09 | 3.12 | 3.10 | 3.09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-02-26

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0250]  
 Remarks: