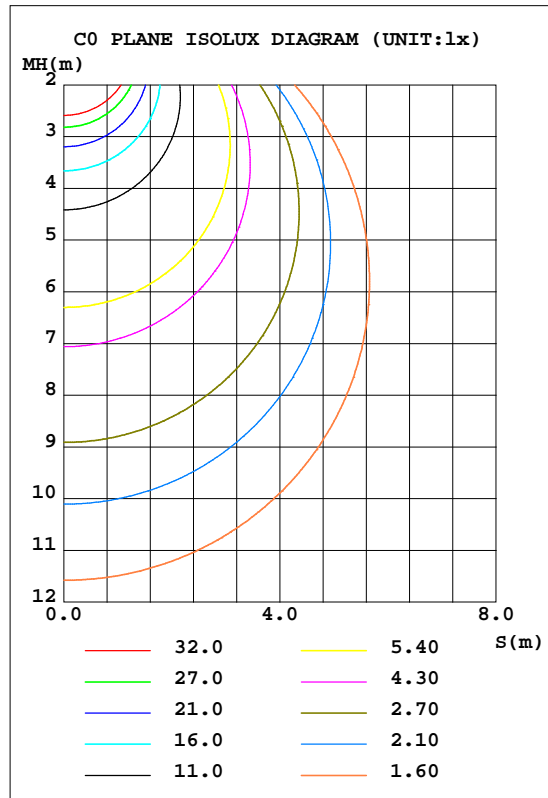
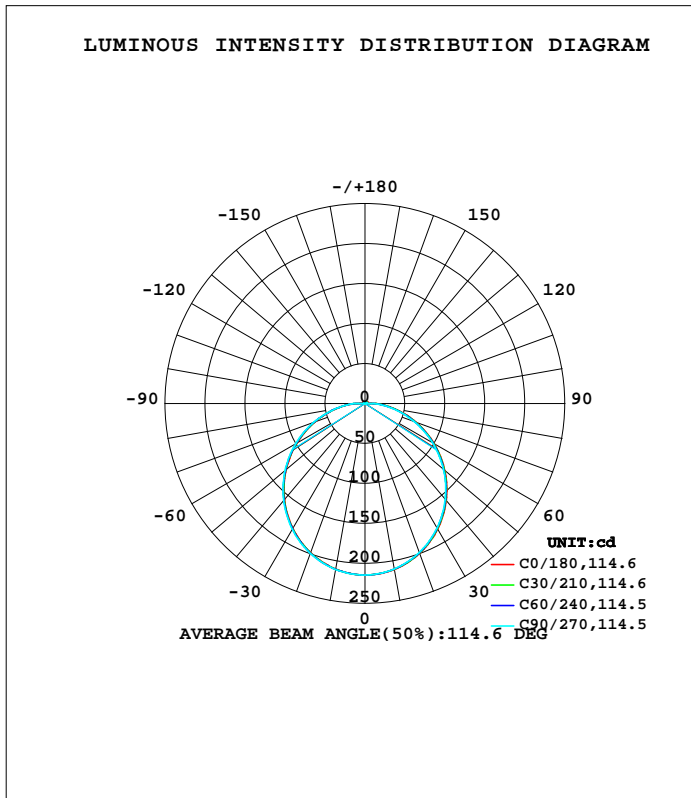


LUMINAIRE PHOTOMETRIC TEST REPORT

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:120.18V I:0.0803A P:9.8121W PF:0.9959 Freq:59.98Hz Lamp Flux:656.544x1 lm |                 |                  |
| NAME: LED DOWN LIGHT   | TYPE:           | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP  | SUR.: 0.12*0.12 | Shielding Angle: |

| DATA OF LAMP               |         | PHOTOMETRIC DATA |        |                   |          |
|----------------------------|---------|------------------|--------|-------------------|----------|
| MODELASD-LDS-4D10AC(5000K) |         | Imax(cd)         | 214.5  | S/MH(C0/180)      | 1.25     |
| NOMINAL POWER(W)           | 10      | LOR(%)           | 100.0  | S/MH(C90/270)     | 1.26     |
| RATED VOLTAGE(V)           | 120     | TOTAL FLUX(lm)   | 656.54 | h UP,DN(C0-180)   | 0.8,48.9 |
| NOMINAL FLUX(lm)           | 656.544 | CIE CLASS        | DIRECT | h UP,DN(C180-360) | 0.8,49.5 |
| LAMPS INSIDE               | 1       | h up(%)          | 1.6    | CIBSE SHR NOM     | 1.25     |
| TEST VOLTAGE(V)            | 120.0   | h down(%)        | 98.4   | CIBSE SHR MAX     | 1.35     |



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-05-27

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:8.700m [K=0.9885]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

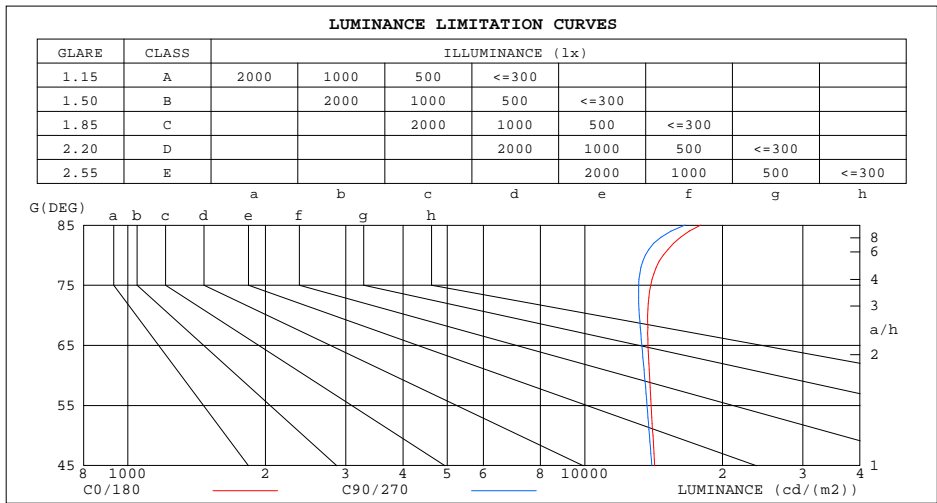
| g   | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | g       | F zone | F total | %lum,lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|-----------|
| 10  | 210.8                 | 210.6  | 210.2  | 210.1  | 210.3  | 210.5  | 210.8  | 211.0  | 0- 10   | 20.28  | 20.28   | 3.09,3.09 |
| 20  | 199.6                 | 199.1  | 198.4  | 198.3  | 198.7  | 199.0  | 199.7  | 199.9  | 10- 20  | 58.05  | 78.34   | 11.9,11.9 |
| 30  | 181.7                 | 181.0  | 180.0  | 179.9  | 180.4  | 180.8  | 181.9  | 182.1  | 20- 30  | 87.94  | 166.3   | 25.3,25.3 |
| 40  | 158.2                 | 157.5  | 156.2  | 156.1  | 156.7  | 157.1  | 158.4  | 158.8  | 30- 40  | 106.2  | 272.5   | 41.5,41.5 |
| 50  | 130.5                 | 129.6  | 128.2  | 128.1  | 128.7  | 129.2  | 130.7  | 131.1  | 40- 50  | 111.0  | 383.5   | 58.4,58.4 |
| 60  | 99.73                 | 98.80  | 97.25  | 97.19  | 97.82  | 98.44  | 99.95  | 100.3  | 50- 60  | 102.3  | 485.8   | 74,74     |
| 70  | 67.64                 | 66.57  | 64.79  | 64.88  | 65.67  | 66.35  | 67.70  | 68.07  | 60- 70  | 81.78  | 567.6   | 86.4,86.4 |
| 80  | 37.15                 | 35.84  | 33.92  | 34.34  | 35.37  | 35.90  | 36.55  | 37.11  | 70- 80  | 53.65  | 621.2   | 94.6,94.6 |
| 90  | 13.32                 | 12.27  | 10.38  | 11.08  | 11.33  | 12.17  | 12.00  | 12.78  | 80- 90  | 24.86  | 646.1   | 98.4,98.4 |
| 100 | 0.3589                | 0.1978 | 0.1665 | 0.2342 | 0.3805 | 0.1768 | 0.1459 | 0.1352 | 90-100  | 3.641  | 649.7   | 99,99     |
| 110 | 1.284                 | 0.5889 | 0.4211 | 0.6249 | 2.089  | 0.6339 | 0.3648 | 0.5512 | 100-110 | 0.4477 | 650.2   | 99,99     |
| 120 | 2.597                 | 1.343  | 1.077  | 1.968  | 2.593  | 1.441  | 0.9219 | 1.785  | 110-120 | 1.343  | 651.5   | 99.2,99.2 |
| 130 | 2.848                 | 1.670  | 1.535  | 2.014  | 2.979  | 1.863  | 1.484  | 1.891  | 120-130 | 1.767  | 653.3   | 99.5,99.5 |
| 140 | 2.716                 | 0.6551 | 1.837  | 0.7495 | 2.613  | 0.5517 | 1.915  | 0.9995 | 130-140 | 1.590  | 654.9   | 99.7,99.7 |
| 150 | 0.6538                | 0.6825 | 0.9314 | 0.9217 | 0.6459 | 0.7388 | 0.9304 | 0.5932 | 140-150 | 0.8453 | 655.7   | 99.9,99.9 |
| 160 | 0.9454                | 0.6937 | 1.322  | 1.682  | 0.8218 | 1.674  | 1.101  | 0.6722 | 150-160 | 0.4400 | 656.1   | 99.9,99.9 |
| 170 | 0.9878                | 0.8528 | 0.7394 | 0.7338 | 0.9098 | 0.7600 | 0.7235 | 1.015  | 160-170 | 0.3355 | 656.5   | 100,100   |
| 180 | 0.8122                | 0.8172 | 0.7598 | 0.7910 | 0.8070 | 0.8120 | 0.7546 | 0.7702 | 170-180 | 0.0723 | 656.5   | 100,100   |
| DEG | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        | UNIT:lm |        |         |           |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-05-27

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:8.700m [K=0.9885]  
Remarks:

LUMINANCE LIMITATION CURVES

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:120.18V I:0.0803A P:9.8121W PF:0.9959 Freq:59.98Hz Lamp Flux:656.544x1 lm |                 |                  |
| NAME: LED DOWN LIGHT   | TYPE:           | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP  | SUR.: 0.12*0.12 | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 17945  | 16575   |
| 80                | 14851  | 13567   |
| 75                | 13934  | 13117   |
| 70                | 13730  | 13156   |
| 65                | 13754  | 13327   |
| 60                | 13847  | 13509   |
| 55                | 13963  | 13683   |
| 50                | 14092  | 13856   |
| 45                | 14214  | 14016   |

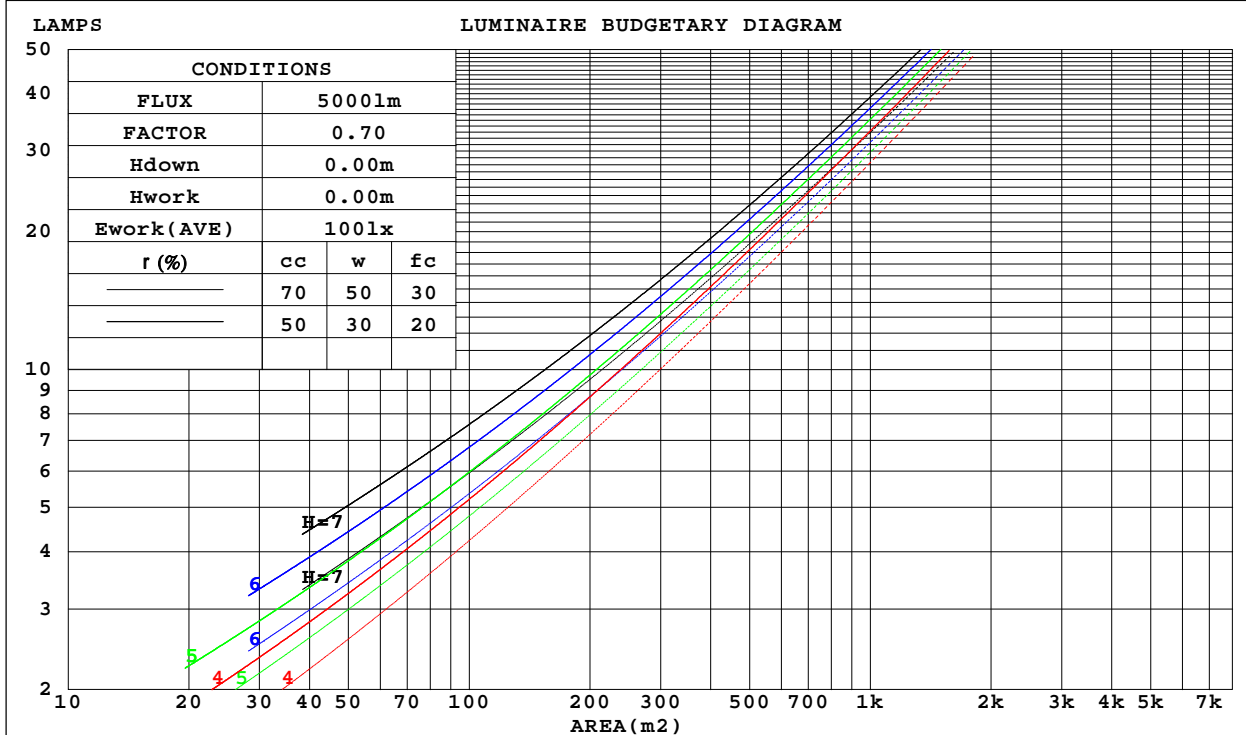
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-05-27

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity: 65.0%  
 Test Distance: 8.700m [K=0.9885]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:120.18V I:0.0803A P:9.8121W PF:0.9959 Freq:59.98Hz Lamp Flux:656.544x1 lm |                 |                  |
| NAME: LED DOWN LIGHT   | TYPE:           | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP  | SUR.: 0.12*0.12 | Shielding Angle: |

|      |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |     |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|-----|
| r cc | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0   |
| r w  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| r 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  | 1.02                  | .97  | .93  | .90  | .95  | .92  | .95                             | .92  | .88  | .91  | .88  | .85  | .87  | .85  | .82  | .80 |
| 2.0  | .88                   | .81  | .75  | .86  | .80  | .74  | .83                             | .77  | .72  | .79  | .74  | .70  | .76  | .72  | .68  | .66 |
| 3.0  | .77                   | .69  | .62  | .76  | .68  | .61  | .72                             | .66  | .60  | .69  | .64  | .59  | .67  | .62  | .58  | .55 |
| 4.0  | .68                   | .59  | .52  | .67  | .58  | .52  | .64                             | .57  | .51  | .62  | .55  | .50  | .59  | .54  | .49  | .47 |
| 5.0  | .61                   | .52  | .45  | .60  | .51  | .45  | .57                             | .50  | .44  | .55  | .48  | .43  | .53  | .47  | .43  | .40 |
| 6.0  | .55                   | .46  | .39  | .54  | .45  | .39  | .52                             | .44  | .38  | .50  | .43  | .38  | .48  | .42  | .37  | .35 |
| 7.0  | .50                   | .41  | .34  | .49  | .40  | .34  | .47                             | .39  | .34  | .45  | .39  | .33  | .44  | .38  | .33  | .31 |
| 8.0  | .45                   | .37  | .31  | .44  | .36  | .30  | .43                             | .36  | .30  | .42  | .35  | .30  | .40  | .34  | .30  | .28 |
| 9.0  | .42                   | .33  | .28  | .41  | .33  | .27  | .40                             | .32  | .27  | .38  | .32  | .27  | .37  | .31  | .27  | .25 |
| 10.0 | .38                   | .30  | .25  | .38  | .30  | .25  | .37                             | .29  | .25  | .36  | .29  | .24  | .35  | .29  | .24  | .22 |



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-05-27

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:8.700m [K=0.9885]  
 Remarks:

WEC AND CCEC

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:120.18V I:0.0803A P:9.8121W PF:0.9959 Freq:59.98Hz Lamp Flux:656.544x1 lm |                 |                  |
| NAME: LED DOWN LIGHT   | TYPE:           | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP  | SUR.: 0.12*0.12 | Shielding Angle: |

| r cc | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| r w  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| r fc | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .336                  | .191 | .061 | .329 | .188 | .060 | .315                            | .180 | .058 | .301 | .174 | .056 | .289 | .168 | .054 |   |
| 2.0  | .307                  | .168 | .052 | .301 | .166 | .051 | .288                            | .160 | .050 | .276 | .155 | .049 | .265 | .150 | .047 |   |
| 3.0  | .280                  | .149 | .045 | .274 | .147 | .044 | .263                            | .143 | .043 | .253 | .139 | .042 | .243 | .135 | .042 |   |
| 4.0  | .257                  | .133 | .039 | .251 | .132 | .039 | .241                            | .128 | .038 | .232 | .125 | .038 | .223 | .121 | .037 |   |
| 5.0  | .236                  | .120 | .035 | .231 | .119 | .035 | .222                            | .116 | .034 | .214 | .113 | .034 | .206 | .110 | .033 |   |
| 6.0  | .218                  | .109 | .031 | .214 | .108 | .031 | .206                            | .105 | .031 | .198 | .103 | .030 | .191 | .101 | .030 |   |
| 7.0  | .202                  | .100 | .028 | .198 | .099 | .028 | .191                            | .097 | .028 | .184 | .095 | .028 | .178 | .093 | .027 |   |
| 8.0  | .188                  | .092 | .026 | .185 | .091 | .026 | .178                            | .089 | .025 | .172 | .087 | .025 | .167 | .086 | .025 |   |
| 9.0  | .176                  | .085 | .024 | .173 | .084 | .024 | .167                            | .083 | .023 | .162 | .081 | .023 | .157 | .080 | .023 |   |
| 10.0 | .165                  | .079 | .022 | .163 | .079 | .022 | .157                            | .077 | .022 | .152 | .076 | .022 | .148 | .074 | .021 |   |

| r cc | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| r w  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| r fc | 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                  | .168 | .145 | .166 | .144 | .124 | .114                                       | .099 | .086 | .065 | .057 | .050 | .021 | .018 | .016 |   |
| 2.0  | .187                  | .144 | .108 | .160 | .124 | .094 | .110                                       | .086 | .065 | .063 | .050 | .038 | .020 | .016 | .012 |   |
| 3.0  | .179                  | .127 | .085 | .153 | .109 | .074 | .105                                       | .076 | .052 | .061 | .044 | .031 | .020 | .014 | .010 |   |
| 4.0  | .171                  | .114 | .070 | .147 | .098 | .061 | .101                                       | .068 | .043 | .058 | .040 | .025 | .019 | .013 | .008 |   |
| 5.0  | .164                  | .103 | .059 | .140 | .089 | .051 | .097                                       | .062 | .036 | .056 | .037 | .021 | .018 | .012 | .007 |   |
| 6.0  | .156                  | .095 | .051 | .134 | .082 | .044 | .093                                       | .058 | .031 | .054 | .034 | .019 | .017 | .011 | .006 |   |
| 7.0  | .149                  | .088 | .045 | .128 | .076 | .040 | .089                                       | .054 | .028 | .052 | .032 | .017 | .017 | .010 | .006 |   |
| 8.0  | .143                  | .082 | .041 | .123 | .071 | .036 | .085                                       | .050 | .025 | .049 | .030 | .015 | .016 | .010 | .005 |   |
| 9.0  | .136                  | .077 | .038 | .118 | .067 | .033 | .081                                       | .047 | .023 | .047 | .028 | .014 | .015 | .009 | .005 |   |
| 10.0 | .131                  | .073 | .035 | .113 | .064 | .030 | .078                                       | .045 | .022 | .046 | .026 | .013 | .015 | .009 | .004 |   |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-05-27

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:8.700m [K=0.9885]  
 Remarks:

UGR(Unified Glare Rating) Table

|  |                  |      |      |      |                 |                |      |                  |      |      |
|--|------------------|------|------|------|-----------------|----------------|------|------------------|------|------|
| Test:U:120.18V I:0.0803A P:9.8121W PF:0.9959 Freq:59.98Hz Lamp Flux:656.544x1 lm |                  |      |      |      |                 |                |      |                  |      |      |
| NAME: LED DOWN LIGHT   |                  |      |      |      | TYPE:           |                |      | WEIGHT:          |      |      |
| SPEC.:   |                  |      |      |      | DIM.:           |                |      | SERIAL No.:      |      |      |
| MFR.: ASD LIGHTING CORP  |                  |      |      |      | SUR.: 0.12*0.12 |                |      | 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  | 21.2             | 22.8 | 21.6 | 23.2 | 23.5            | 21.0           | 22.7 | 21.4             | 23.0 | 23.4 |
| 3H   | 23.2             | 24.7 | 23.6 | 25.1 | 25.5            | 23.0           | 24.5 | 23.4             | 24.9 | 25.3 |
| 4H   | 24.1             | 25.5 | 24.5 | 25.9 | 26.3            | 23.9           | 25.3 | 24.3             | 25.6 | 26.1 |
| 6H   | 24.9             | 26.2 | 25.3 | 26.6 | 27.0            | 24.6           | 25.9 | 25.0             | 26.3 | 26.7 |
| 8H   | 25.2             | 26.5 | 25.7 | 26.9 | 27.4            | 24.9           | 26.1 | 25.3             | 26.6 | 27.0 |
| 12H  | 25.6             | 26.8 | 26.0 | 27.2 | 27.7            | 25.2           | 26.4 | 25.6             | 26.8 | 27.3 |
| 4H 2H  | 21.9             | 23.3 | 22.3 | 23.6 | 24.1            | 21.7           | 23.1 | 22.1             | 23.5 | 23.9 |
| 3H   | 24.1             | 25.3 | 24.6 | 25.8 | 26.2            | 23.9           | 25.1 | 24.4             | 25.6 | 26.0 |
| 4H   | 25.2             | 26.3 | 25.6 | 26.7 | 27.2            | 24.9           | 26.0 | 25.4             | 26.4 | 26.9 |
| 6H   | 26.1             | 27.1 | 26.6 | 27.6 | 28.0            | 25.8           | 26.8 | 26.3             | 27.2 | 27.7 |
| 8H   | 26.6             | 27.5 | 27.0 | 27.9 | 28.4            | 26.2           | 27.1 | 26.7             | 27.6 | 28.1 |
| 12H  | 27.0             | 27.8 | 27.5 | 28.3 | 28.8            | 26.6           | 27.4 | 27.1             | 27.9 | 28.4 |
| 8H 4H  | 25.6             | 26.5 | 26.1 | 26.9 | 27.4            | 25.3           | 26.2 | 25.8             | 26.7 | 27.2 |
| 6H   | 26.7             | 27.5 | 27.2 | 28.0 | 28.5            | 26.4           | 27.1 | 26.9             | 27.6 | 28.2 |
| 8H   | 27.3             | 27.9 | 27.8 | 28.5 | 29.0            | 26.9           | 27.6 | 27.4             | 28.1 | 28.6 |
| 12H  | 27.9             | 28.5 | 28.4 | 29.0 | 29.6            | 27.4           | 28.0 | 27.9             | 28.5 | 29.1 |
| 12H 4H   | 25.6             | 26.5 | 26.1 | 27.0 | 27.5            | 25.4           | 26.2 | 25.9             | 26.7 | 27.2 |
| 6H   | 26.8             | 27.5 | 27.4 | 28.0 | 28.6            | 26.5           | 27.2 | 27.0             | 27.7 | 28.2 |
| 8H   | 27.5             | 28.1 | 28.0 | 28.6 | 29.2            | 27.1           | 27.7 | 27.6             | 28.2 | 28.8 |
| CIE190: 2010   |                  |      |      |      |                 |                |      |                  |      |      |
|  |                  |      |      |      |                 |                |      |                  |      |      |

CIE190: 2010  
Area: 0.0144 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-05-27

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:8.700m [K=0.9885]  
Remarks:

## UTILIZATION FACTORS TABLE

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:120.18V I:0.0803A P:9.8121W PF:0.9959 Freq:59.98Hz Lamp Flux:656.544x1 lm |                 |                  |
| NAME: LED DOWN LIGHT   | TYPE:           | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP  | SUR.: 0.12*0.12 | Shielding Angle: |

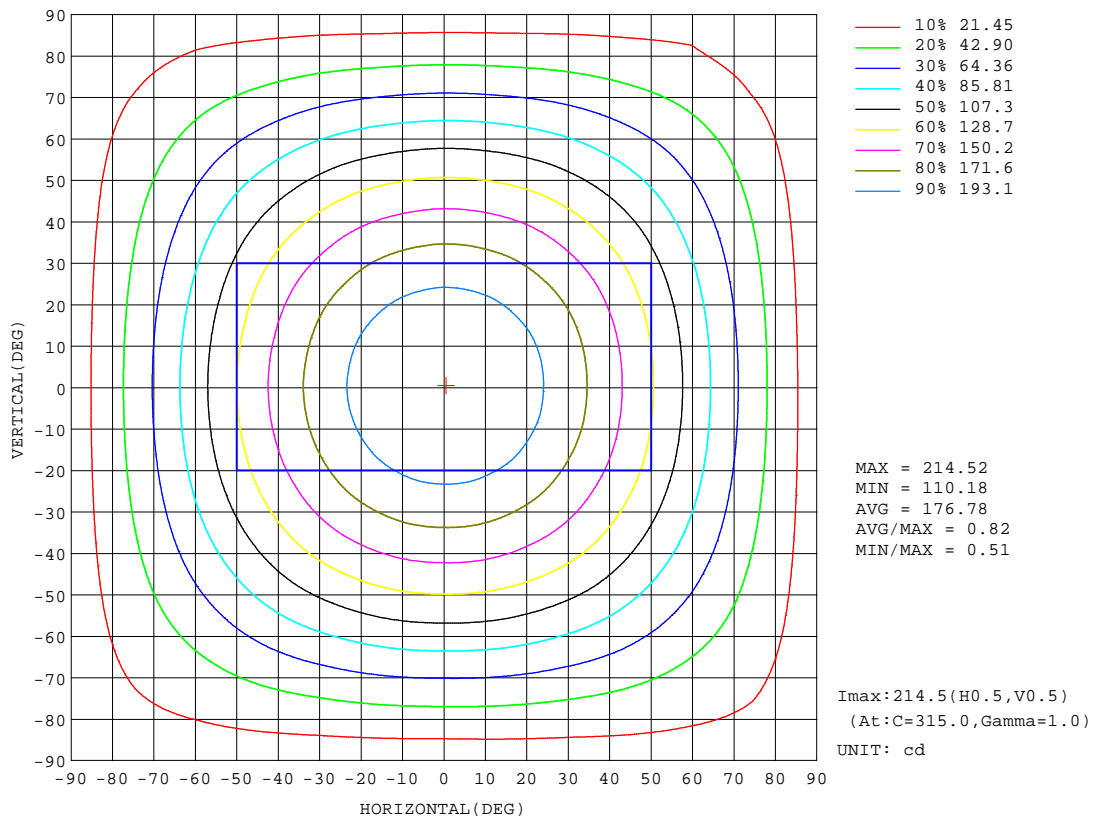
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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                         | 56   | 44  | 37        | 55  | 44  | 37  | 54            | 43  | 37  | 30     |
| 0.80                             | 66   | 54  | 46        | 65  | 53  | 46  | 63            | 52  | 45  | 38     |
| 1.00                             | 74   | 62  | 55        | 73  | 62  | 54  | 70            | 63  | 54  | 46     |
| 1.25                             | 81   | 70  | 62        | 79  | 69  | 62  | 76            | 68  | 61  | 53     |
| 1.50                             | 86   | 75  | 68        | 84  | 75  | 68  | 81            | 73  | 66  | 58     |
| 2.00                             | 93   | 84  | 77        | 91  | 82  | 76  | 87            | 80  | 74  | 66     |
| 2.50                             | 97   | 89  | 82        | 95  | 87  | 81  | 91            | 84  | 79  | 70     |
| 3.00                             | 100  | 93  | 87        | 98  | 91  | 86  | 94            | 88  | 83  | 74     |
| 4.00                             | 105  | 98  | 93        | 102 | 96  | 92  | 97            | 93  | 89  | 79     |
| 5.00                             | 107  | 102 | 97        | 104 | 100 | 96  | 100           | 96  | 92  | 82     |
| 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: 2022-05-27

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
Humidity: 65.0%  
Test Distance: 8.700m [K=0.9885]  
Remarks:

ISOCANDELA DIAGRAM

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:120.18V I:0.0803A P:9.8121W PF:0.9959 Freq:59.98Hz Lamp Flux:656.544x1 lm |                 |                  |
| NAME: LED DOWN LIGHT   | TYPE:           | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP  | SUR.: 0.12*0.12 | Shielding Angle: |



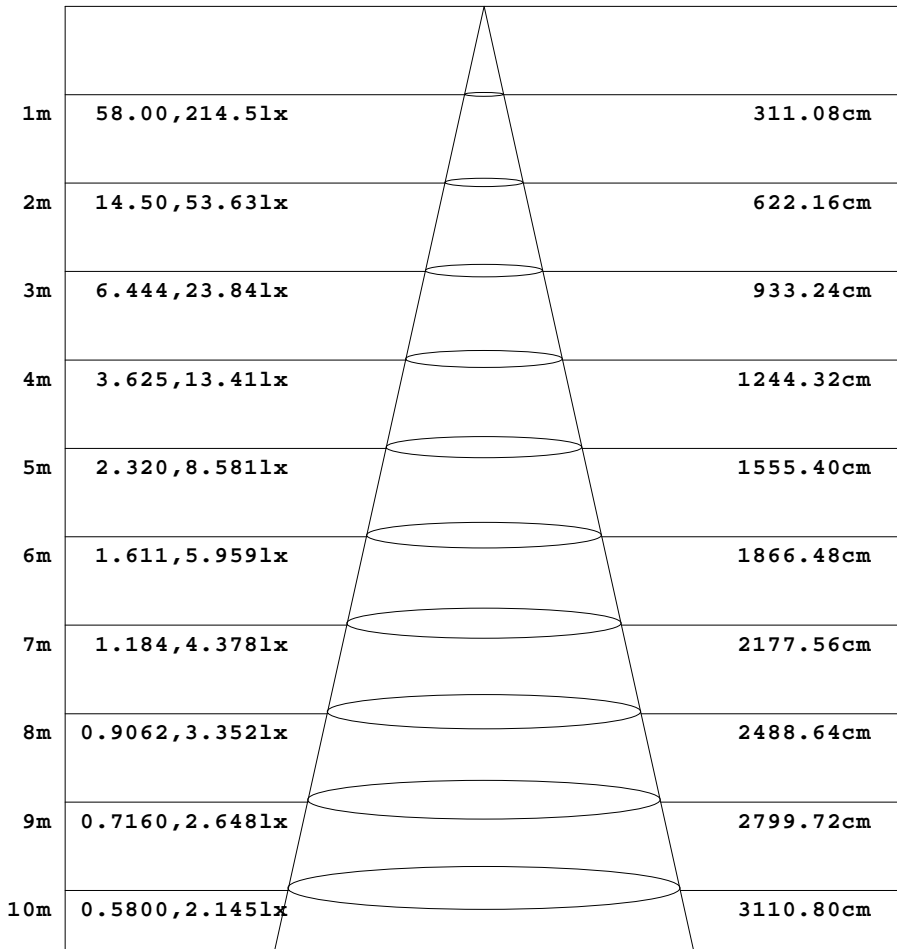
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-05-27

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity: 65.0%  
 Test Distance: 8.700m [K=0.9885]  
 Remarks:

AAI Figure

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:120.18V I:0.0803A P:9.8121W PF:0.9959 Freq:59.98Hz Lamp Flux:656.544x1 lm |                 |                  |
| NAME: LED DOWN LIGHT   | TYPE:           | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP  | SUR.: 0.12*0.12 | Shielding Angle: |

Flux out:466.6 lm



Height                      Eavg, Emax                      Angle:114.52deg                      Diameter

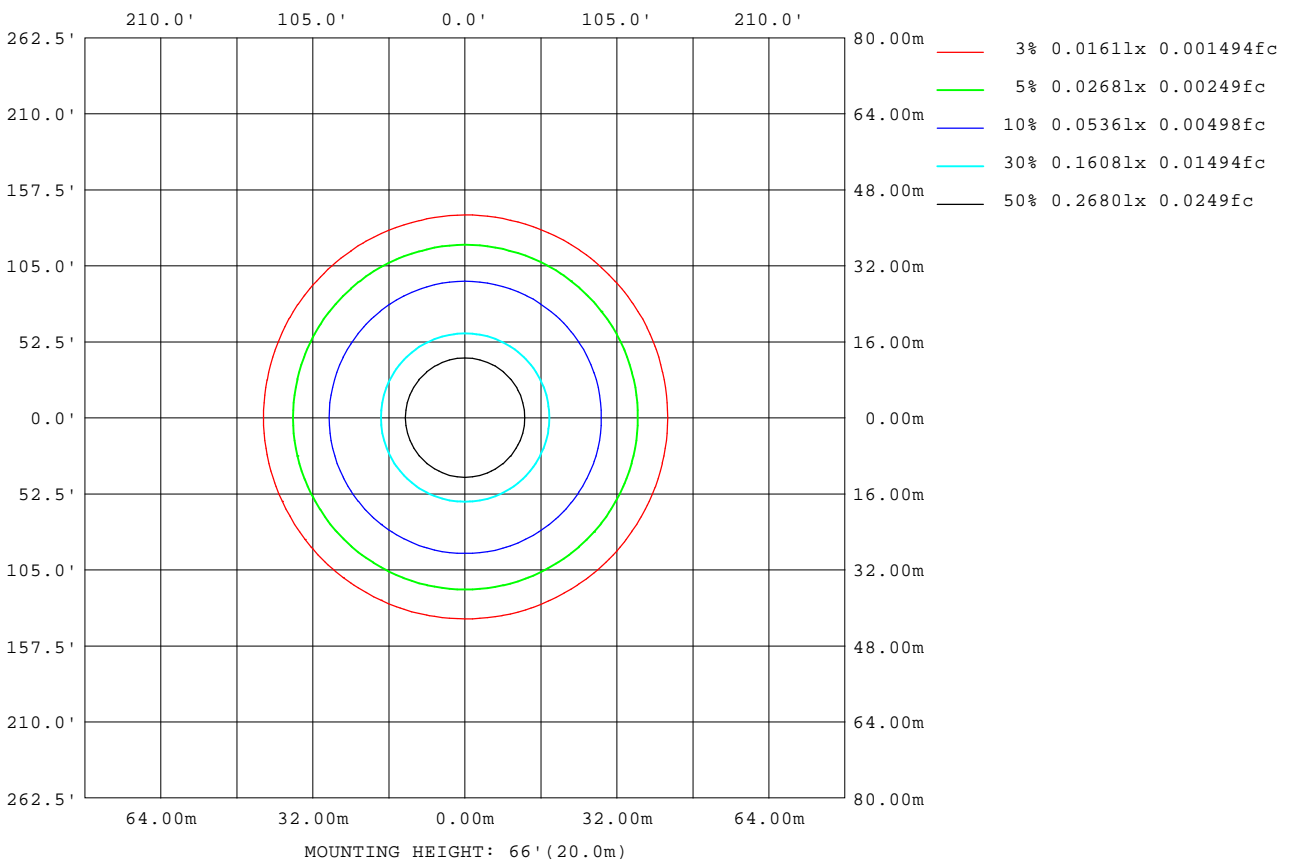
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-05-27

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:8.700m [K=0.9885]  
 Remarks:

ISOLUX DIAGRAM

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:120.18V I:0.0803A P:9.8121W PF:0.9959 Freq:59.98Hz Lamp Flux:656.544x1 lm |                 |                  |
| NAME: LED DOWN LIGHT   | TYPE:           | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP  | SUR.: 0.12*0.12 | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-05-27

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity: 65.0%  
 Test Distance: 8.700m [K=0.9885]  
 Remarks:

## LED Avg.L Report

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:120.18V I:0.0803A P:9.8121W PF:0.9959 Freq:59.98Hz Lamp Flux:656.544x1 lm |                 |                  |
| NAME: LED DOWN LIGHT   | TYPE:           | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP  | SUR.: 0.12*0.12 | Shielding Angle: |

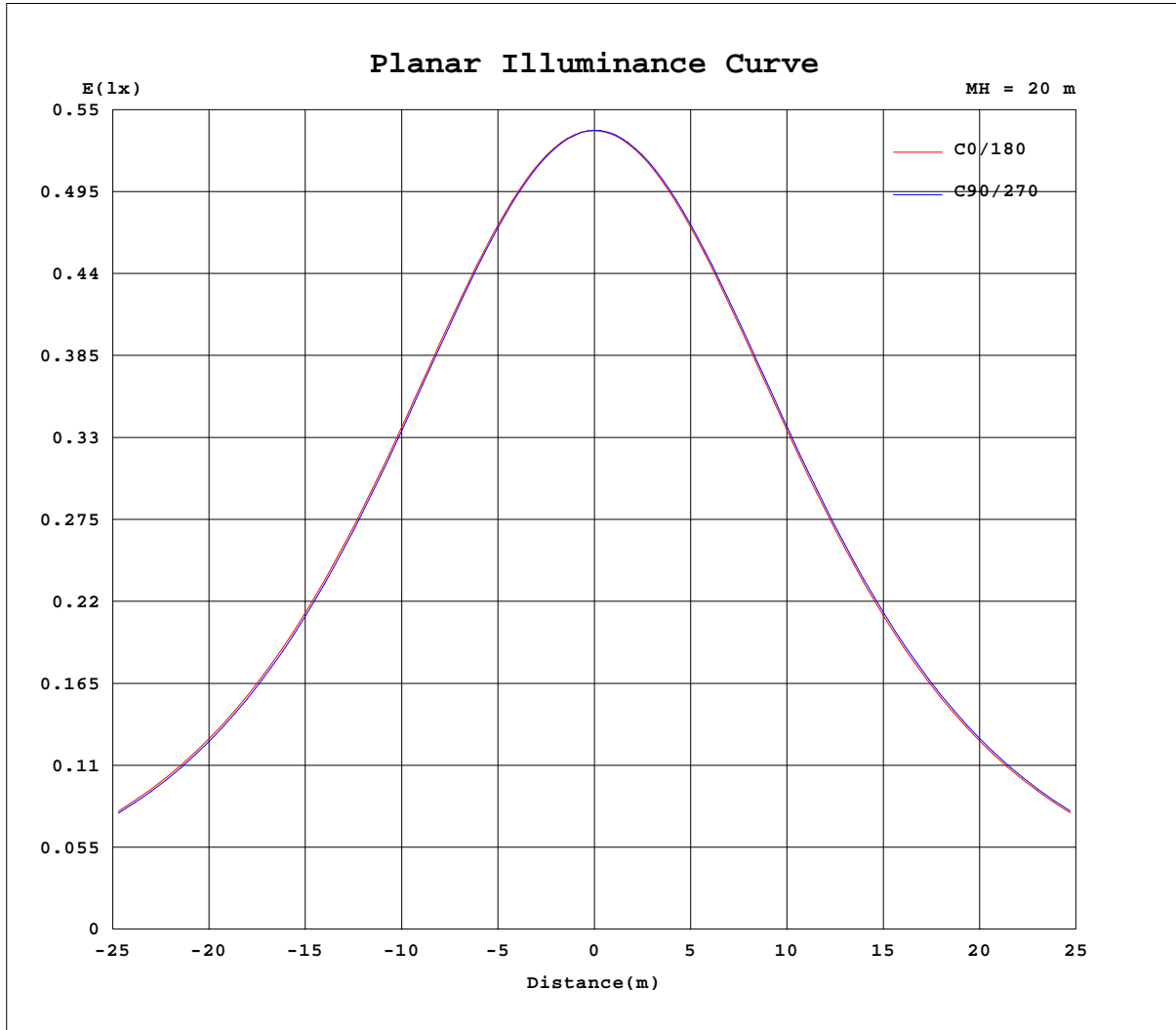
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 13597 |
| L_0~180(75)av  | 13676 |
| L_0~180(85)av  | 17741 |
| L_90~270(65)av | 13557 |
| L_90~270(75)av | 13500 |
| L_90~270(85)av | 17445 |
| L_45(65)av     | 13576 |
| L_45(75)av     | 13595 |
| L_45(85)av     | 18085 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-05-27

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:8.700m [K=0.9885]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-05-27

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity: 65.0%  
 Test Distance: 8.700m [K=0.9885]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:120.18V I:0.0803A P:9.8121W PF:0.9959 Freq:59.98Hz Lamp Flux:656.544x1 lm |                 |                  |
| NAME: LED DOWN LIGHT   | TYPE:           | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP  | SUR.: 0.12*0.12 | Shielding Angle: |

Table--1

UNIT: cd

| 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                 | 214  | 214  | 214  | 214  | 214  | 214  | 214  | 214  | 214  | 214  | 214  | 214  | 214  | 214  | 214  | 214  | 214  | 214  | 214  |
| 5                 | 214  | 214  | 214  | 214  | 213  | 213  | 213  | 213  | 213  | 213  | 213  | 213  | 213  | 213  | 213  | 213  | 214  | 214  | 214  |
| 10                | 211  | 211  | 211  | 211  | 210  | 210  | 210  | 210  | 210  | 210  | 210  | 210  | 210  | 210  | 210  | 211  | 211  | 211  | 211  |
| 15                | 206  | 206  | 206  | 206  | 206  | 205  | 205  | 205  | 205  | 205  | 205  | 205  | 205  | 205  | 206  | 206  | 206  | 206  | 206  |
| 20                | 200  | 200  | 199  | 199  | 199  | 199  | 198  | 198  | 198  | 198  | 198  | 198  | 199  | 199  | 199  | 199  | 199  | 199  | 200  |
| 25                | 191  | 191  | 191  | 191  | 190  | 190  | 190  | 190  | 190  | 190  | 190  | 190  | 190  | 190  | 191  | 191  | 191  | 191  | 192  |
| 30                | 182  | 182  | 181  | 181  | 181  | 180  | 180  | 180  | 180  | 180  | 180  | 180  | 180  | 180  | 181  | 181  | 181  | 181  | 182  |
| 35                | 171  | 171  | 170  | 170  | 169  | 169  | 169  | 169  | 168  | 169  | 168  | 169  | 169  | 169  | 170  | 170  | 170  | 170  | 171  |
| 40                | 158  | 158  | 158  | 157  | 157  | 157  | 156  | 156  | 156  | 156  | 156  | 156  | 157  | 157  | 157  | 157  | 158  | 158  | 158  |
| 45                | 145  | 145  | 144  | 144  | 143  | 143  | 143  | 143  | 142  | 143  | 142  | 143  | 143  | 143  | 144  | 144  | 144  | 144  | 145  |
| 50                | 130  | 130  | 130  | 130  | 129  | 129  | 128  | 128  | 128  | 128  | 128  | 128  | 129  | 129  | 129  | 129  | 130  | 130  | 131  |
| 55                | 115  | 115  | 115  | 114  | 114  | 114  | 113  | 113  | 113  | 113  | 113  | 113  | 114  | 113  | 114  | 114  | 115  | 115  | 116  |
| 60                | 99.7 | 99.8 | 98.9 | 98.8 | 98.0 | 97.9 | 97.2 | 97.3 | 96.8 | 97.2 | 96.8 | 97.4 | 97.8 | 97.8 | 98.4 | 98.4 | 99.2 | 99.2 | 99.9 |
| 65                | 83.7 | 83.7 | 82.9 | 82.7 | 81.9 | 81.8 | 81.1 | 81.2 | 80.8 | 81.1 | 80.8 | 81.3 | 81.8 | 81.8 | 82.4 | 82.5 | 83.2 | 83.2 | 83.9 |
| 70                | 67.6 | 67.7 | 66.9 | 66.6 | 65.7 | 65.5 | 64.8 | 64.9 | 64.5 | 64.9 | 64.6 | 65.2 | 65.7 | 65.7 | 66.4 | 66.4 | 67.1 | 67.1 | 67.7 |
| 75                | 51.9 | 52.0 | 51.1 | 50.7 | 49.8 | 49.6 | 48.9 | 49.0 | 48.7 | 49.1 | 49.0 | 49.5 | 50.0 | 50.0 | 50.7 | 50.7 | 51.3 | 51.2 | 51.8 |
| 80                | 37.1 | 37.2 | 36.3 | 35.8 | 34.9 | 34.6 | 33.9 | 34.0 | 33.8 | 34.3 | 34.4 | 35.0 | 35.4 | 35.5 | 36.0 | 35.9 | 36.3 | 36.1 | 36.6 |
| 85                | 22.5 | 24.2 | 23.3 | 22.8 | 21.8 | 21.4 | 20.8 | 20.9 | 20.9 | 21.4 | 21.6 | 22.4 | 22.0 | 21.8 | 23.1 | 22.8 | 23.0 | 22.7 | 23.0 |
| 90                | 13.3 | 13.8 | 12.9 | 12.3 | 11.2 | 10.9 | 10.4 | 10.5 | 10.4 | 11.1 | 11.6 | 12.5 | 11.3 | 9.08 | 12.7 | 12.2 | 12.1 | 11.8 | 12.0 |
| 95                | 4.94 | 0.14 | 0.86 | 0.15 | 0.23 | 3.47 | 0.14 | 0.21 | 0.19 | 0.22 | 1.73 | 0.29 | 5.44 | 0.25 | 2.69 | 0.20 | 0.11 | 0.10 | 0.09 |
| 100               | 0.36 | 0.24 | 0.17 | 0.20 | 0.35 | 0.17 | 0.17 | 0.18 | 0.18 | 0.23 | 0.21 | 0.29 | 0.38 | 0.31 | 0.26 | 0.18 | 0.18 | 0.17 | 0.15 |
| 105               | 0.62 | 0.55 | 0.39 | 0.28 | 0.24 | 0.23 | 0.20 | 0.27 | 0.30 | 0.30 | 0.53 | 0.47 | 0.67 | 0.73 | 0.40 | 0.26 | 0.32 | 0.27 | 0.25 |
| 110               | 1.28 | 1.35 | 0.84 | 0.59 | 0.43 | 0.44 | 0.42 | 0.46 | 0.64 | 0.62 | 1.34 | 1.22 | 2.09 | 1.78 | 1.00 | 0.63 | 0.42 | 0.35 | 0.36 |
| 115               | 2.07 | 1.83 | 1.40 | 1.04 | 0.87 | 0.73 | 0.73 | 0.81 | 0.84 | 1.08 | 2.58 | 2.55 | 2.51 | 2.27 | 1.54 | 1.09 | 0.84 | 0.66 | 0.62 |
| 120               | 2.60 | 2.24 | 1.74 | 1.34 | 1.12 | 1.09 | 1.08 | 1.17 | 1.39 | 1.97 | 2.45 | 2.71 | 2.59 | 2.47 | 2.06 | 1.44 | 1.19 | 0.99 | 0.92 |
| 125               | 2.82 | 2.39 | 1.91 | 1.58 | 1.32 | 1.29 | 1.34 | 1.49 | 1.71 | 2.15 | 2.75 | 2.90 | 2.89 | 2.76 | 2.31 | 1.74 | 1.45 | 1.26 | 1.27 |
| 130               | 2.85 | 2.65 | 2.14 | 1.67 | 1.51 | 1.46 | 1.53 | 1.69 | 1.91 | 2.01 | 2.82 | 2.99 | 2.98 | 2.83 | 2.40 | 1.86 | 1.68 | 1.49 | 1.48 |
| 135               | 2.92 | 2.84 | 2.18 | 0.77 | 1.57 | 1.61 | 1.69 | 1.86 | 2.01 | 1.90 | 2.29 | 2.92 | 2.97 | 2.90 | 2.15 | 1.20 | 1.82 | 1.69 | 1.67 |
| 140               | 2.72 | 2.50 | 2.20 | 0.66 | 1.66 | 1.76 | 1.84 | 2.07 | 2.22 | 0.75 | 2.34 | 2.49 | 2.61 | 2.44 | 2.09 | 0.55 | 1.08 | 1.84 | 1.92 |
| 145               | 2.69 | 2.46 | 1.31 | 0.59 | 0.63 | 1.37 | 1.80 | 1.77 | 0.77 | 0.61 | 0.57 | 2.42 | 2.47 | 2.36 | 0.60 | 0.60 | 0.71 | 1.53 | 1.50 |
| 150               | 0.65 | 0.62 | 0.62 | 0.68 | 0.63 | 0.90 | 0.93 | 1.08 | 0.57 | 0.92 | 0.59 | 0.64 | 0.65 | 0.64 | 0.67 | 0.74 | 0.64 | 0.80 | 0.93 |
| 155               | 1.18 | 0.71 | 1.10 | 1.22 | 0.78 | 1.31 | 0.69 | 1.26 | 0.67 | 1.09 | 0.92 | 0.87 | 0.91 | 1.09 | 1.22 | 0.85 | 0.77 | 1.13 | 1.02 |
| 160               | 0.95 | 0.73 | 0.89 | 0.69 | 1.54 | 2.09 | 1.32 | 1.36 | 1.89 | 1.68 | 0.86 | 0.92 | 0.82 | 0.85 | 0.94 | 1.67 | 2.45 | 1.53 | 1.10 |
| 165               | 1.60 | 1.77 | 1.17 | 0.97 | 1.30 | 0.89 | 0.98 | 0.95 | 1.91 | 1.64 | 0.70 | 1.23 | 2.10 | 1.65 | 0.80 | 1.13 | 1.53 | 0.94 | 0.75 |
| 170               | 0.99 | 0.73 | 0.82 | 0.85 | 0.65 | 0.68 | 0.74 | 0.72 | 0.69 | 0.73 | 0.70 | 0.73 | 0.91 | 0.78 | 0.79 | 0.76 | 0.76 | 0.72 | 0.72 |
| 175               | 0.78 | 0.78 | 0.77 | 0.79 | 0.69 | 0.69 | 0.76 | 0.76 | 0.72 | 0.77 | 0.74 | 0.75 | 0.81 | 0.81 | 0.82 | 0.80 | 0.79 | 0.69 | 0.76 |
| 180               | 0.81 | 0.82 | 0.82 | 0.82 | 0.71 | 0.71 | 0.76 | 0.79 | 0.75 | 0.79 | 0.75 | 0.77 | 0.81 | 0.81 | 0.80 | 0.81 | 0.79 | 0.71 | 0.75 |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-05-27

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:8.700m [K=0.9885]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:120.18V I:0.0803A P:9.8121W PF:0.9959 Freq:59.98Hz Lamp Flux:656.544x1 lm |                 |                  |
| NAME: LED DOWN LIGHT   | TYPE:           | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.:      |
| MFR.: ASD LIGHTING CORP  | SUR.: 0.12*0.12 | Shielding Angle: |

Table--2

UNIT: cd

| C(DEG)<br>g (DEG) | 285  | 300  | 315  | 330  | 345  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 214  | 214  | 214  | 214  | 214  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 214  | 214  | 214  | 214  | 214  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 211  | 211  | 211  | 211  | 211  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 206  | 206  | 206  | 206  | 206  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 200  | 200  | 200  | 200  | 200  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 192  | 192  | 192  | 192  | 192  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 182  | 182  | 182  | 182  | 182  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 171  | 171  | 171  | 171  | 171  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 158  | 159  | 159  | 159  | 159  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 145  | 146  | 145  | 146  | 145  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 131  | 131  | 131  | 131  | 131  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 116  | 116  | 116  | 116  | 116  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 99.9 | 101  | 100  | 101  | 100  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 83.9 | 84.4 | 84.2 | 84.6 | 84.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 67.6 | 68.2 | 68.1 | 68.5 | 68.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 51.6 | 52.3 | 52.1 | 52.7 | 52.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 36.5 | 37.1 | 37.1 | 37.7 | 37.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 23.0 | 23.6 | 23.8 | 24.4 | 20.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 11.9 | 12.4 | 12.8 | 13.7 | 9.12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 0.11 | 0.11 | 0.10 | 1.88 | 0.27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 0.16 | 0.16 | 0.14 | 0.17 | 0.23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 0.21 | 0.26 | 0.23 | 0.41 | 0.52 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 0.44 | 0.59 | 0.55 | 0.98 | 1.28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 0.69 | 0.76 | 1.18 | 1.97 | 3.03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 0.93 | 1.10 | 1.78 | 2.39 | 3.06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 1.34 | 1.58 | 2.01 | 2.60 | 3.02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 1.61 | 1.80 | 1.89 | 2.65 | 3.02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 1.84 | 1.76 | 1.96 | 2.84 | 3.01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 1.80 | 0.89 | 1.00 | 2.64 | 2.72 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 1.04 | 0.61 | 0.55 | 2.23 | 2.76 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 0.72 | 0.59 | 0.59 | 0.62 | 0.62 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 1.29 | 0.83 | 1.15 | 1.11 | 0.77 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 1.50 | 1.78 | 0.67 | 0.94 | 0.75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 1.66 | 1.96 | 1.80 | 1.03 | 1.13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 0.73 | 0.98 | 1.01 | 0.85 | 0.76 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 0.76 | 0.77 | 0.75 | 0.76 | 0.79 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 0.74 | 0.77 | 0.77 | 0.78 | 0.79 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-05-27

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:8.700m [K=0.9885]  
 Remarks: