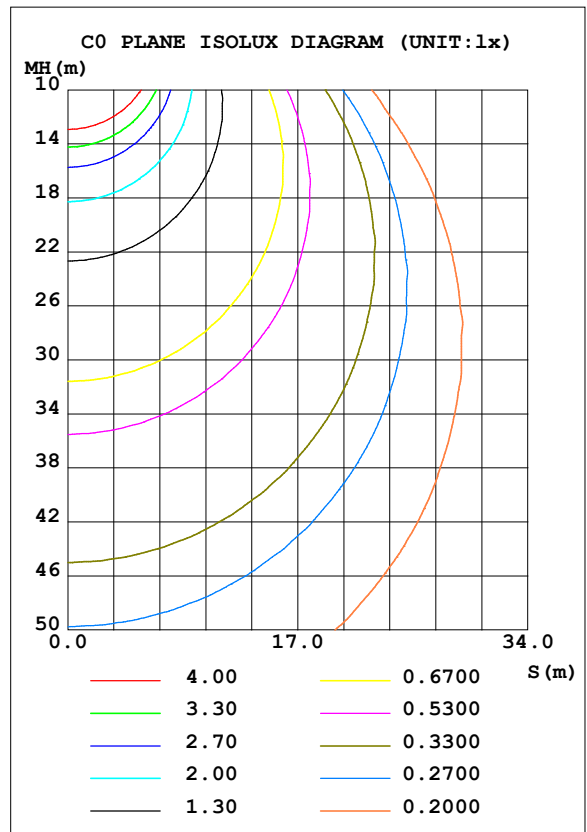
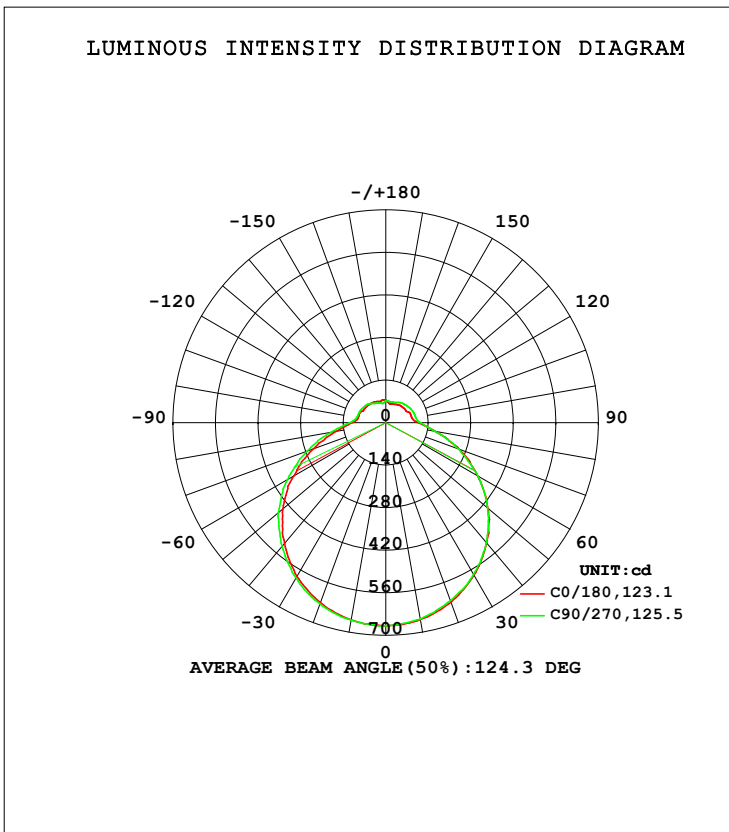


**LUMINAIRE PHOTOMETRIC TEST REPORT**

|  |                               |                  |
|--|-------------------------------|------------------|
| Test:U:120.20V I:0.3822A P:41.494W PF:0.9022 Freq:50.00Hz Lamp Flux:2818.09x1 lm |                               |                  |
| NAME:  | TYPE:ASD-LFC-SN-20D42-AC-2700 | WEIGHT:          |
| SPEC.:2700K  | DIM.:                         | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.5*0.5                  | Shielding Angle: |

| DATA OF LAMP      |         | PHOTOMETRIC DATA                  |         |  |           |
|-------------------|---------|-----------------------------------|---------|--|-----------|
| MODEL             |         | Imax (cd)                         | 669.4   | S/MH (C0/180)                              | 1.30      |
| NOMINAL POWER (W) | --      | LOR (%)                           | 100.0   | S/MH (C90/270)                             | 1.31      |
| RATED VOLTAGE (V) | --      | TOTAL FLUX (lm)                   | 2818.1  | <input type="checkbox"/> UP, DN (C0-180)   | 9.5, 39.9 |
| NOMINAL FLUX (lm) | 2818.09 | CIE CLASS                         | SEMI-D. | <input type="checkbox"/> UP, DN (C180-360) | 9.5, 41.1 |
| LAMPS INSIDE      | 1       | <input type="checkbox"/> up (%)   | 19.0    | CIBSE SHR NOM                              | 1.50      |
| TEST VOLTAGE (V)  | --      | <input type="checkbox"/> down (%) | 81.0    | CIBSE SHR MAX                              | 1.50      |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: admin  
 Test Date: 2022-03-21

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity: 65.0%  
 Test Distance: 8.780m [K=1.0000]  
 Remarks:

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

| mm  | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | mm      | □ zone  | □ total | %lum, lamp |
|-----|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|------------|
| 10  | 657.4                 | 655.6 | 657.1 | 656.2 | 658.6 | 659.7 | 659.9 | 659.7 | 0- 10   | 63.29   | 63.29   | 2.25,2.25  |
| 20  | 628.9                 | 624.3 | 623.5 | 625.3 | 629.9 | 634.3 | 634.6 | 632.5 | 10- 20  | 182.4   | 245.7   | 8.72,8.72  |
| 30  | 579.9                 | 578.1 | 577.3 | 575.8 | 584.8 | 588.2 | 590.4 | 588.3 | 20- 30  | 280.5   | 526.2   | 18.7,18.7  |
| 40  | 516.2                 | 516.1 | 514.8 | 512.6 | 518.9 | 527.4 | 531.4 | 527.1 | 30- 40  | 346.6   | 872.8   | 31,31      |
| 50  | 439.0                 | 438.6 | 438.0 | 435.5 | 441.1 | 453.6 | 462.7 | 452.2 | 40- 50  | 373.8   | 1247    | 44.2,44.2  |
| 60  | 348.4                 | 349.6 | 349.2 | 345.4 | 350.0 | 368.7 | 373.1 | 362.9 | 50- 60  | 359.1   | 1606    | 57,57      |
| 70  | 257.6                 | 250.0 | 256.7 | 252.0 | 253.7 | 266.2 | 276.6 | 262.8 | 60- 70  | 304.1   | 1910    | 67.8,67.8  |
| 80  | 165.1                 | 155.6 | 163.8 | 164.4 | 166.2 | 170.4 | 182.3 | 175.1 | 70- 80  | 225.0   | 2135    | 75.8,75.8  |
| 90  | 107.0                 | 103.8 | 114.0 | 109.9 | 110.5 | 107.8 | 119.3 | 115.1 | 80- 90  | 147.7   | 2282    | 81,81      |
| 100 | 88.17                 | 96.59 | 100.5 | 88.99 | 92.71 | 96.14 | 97.27 | 88.88 | 90-100  | 109.1   | 2392    | 84.9,84.9  |
| 110 | 86.60                 | 93.59 | 97.80 | 84.03 | 92.12 | 94.44 | 94.28 | 82.31 | 100-110 | 97.42   | 2489    | 88.3,88.3  |
| 120 | 77.79                 | 90.22 | 94.12 | 82.94 | 84.32 | 92.43 | 91.61 | 80.34 | 110-120 | 88.01   | 2577    | 91.4,91.4  |
| 130 | 76.65                 | 84.13 | 88.79 | 74.47 | 83.30 | 86.14 | 87.85 | 75.76 | 120-130 | 75.60   | 2653    | 94.1,94.1  |
| 140 | 74.21                 | 74.91 | 84.22 | 72.75 | 80.52 | 79.76 | 82.44 | 67.57 | 130-140 | 61.44   | 2714    | 96.3,96.3  |
| 150 | 69.53                 | 70.44 | 76.81 | 73.10 | 78.37 | 74.83 | 73.56 | 61.17 | 140-150 | 46.31   | 2760    | 98,98      |
| 160 | 65.16                 | 67.17 | 71.78 | 66.64 | 74.26 | 66.98 | 68.70 | 61.33 | 150-160 | 32.20   | 2793    | 99.1,99.1  |
| 170 | 66.12                 | 71.86 | 71.06 | 64.50 | 75.46 | 69.17 | 64.71 | 69.07 | 160-170 | 18.82   | 2811    | 99.8,99.8  |
| 180 | 75.20                 | 76.79 | 73.60 | 72.10 | 75.12 | 76.73 | 73.63 | 72.11 | 170-180 | 6.704   | 2818    | 100,100    |
| DEG | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |         | UNIT:lm |         |            |

Conical surface Flux(90deg): 1058.9 lm

%lum = 37.6%

%lamp = 37.6%

Conical surface Flux(120deg): 1605.7 lm

%lum = 57.0%

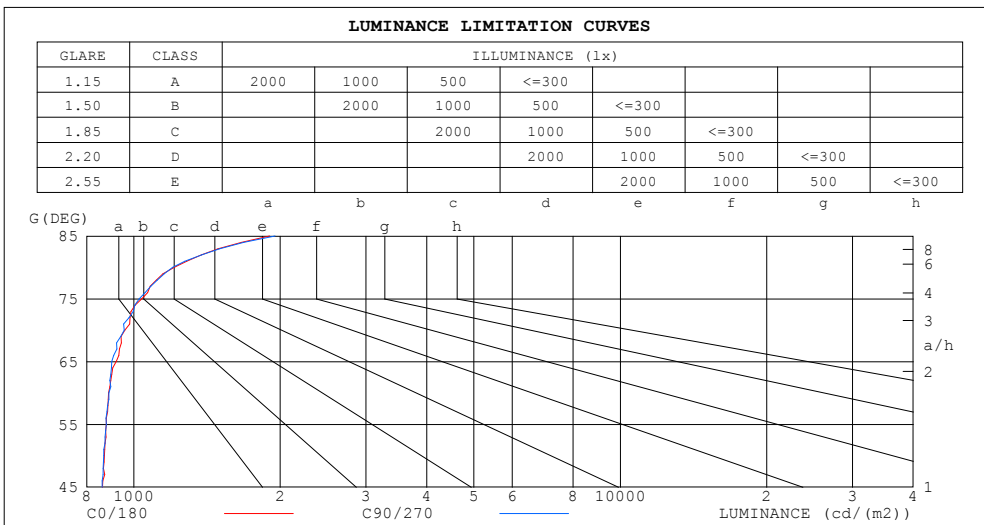
%lamp = 57.0%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-21

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.780m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

|  |                               |                  |
|--|-------------------------------|------------------|
| Test:U:120.20V I:0.3822A P:41.494W PF:0.9022 Freq:50.00Hz Lamp Flux:2818.09x1 lm |                               |                  |
| NAME:  | TYPE:ASD-LFC-SN-20D42-AC-2700 | WEIGHT:          |
| SPEC.:2700K  | DIM.:                         | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.5*0.5                  | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 1902   | 1951    |
| 80                | 1210   | 1201    |
| 75                | 1039   | 1026    |
| 70                | 959    | 956     |
| 65                | 921    | 901     |
| 60                | 887    | 889     |
| 55                | 878    | 878     |
| 50                | 870    | 868     |
| 45                | 862    | 861     |

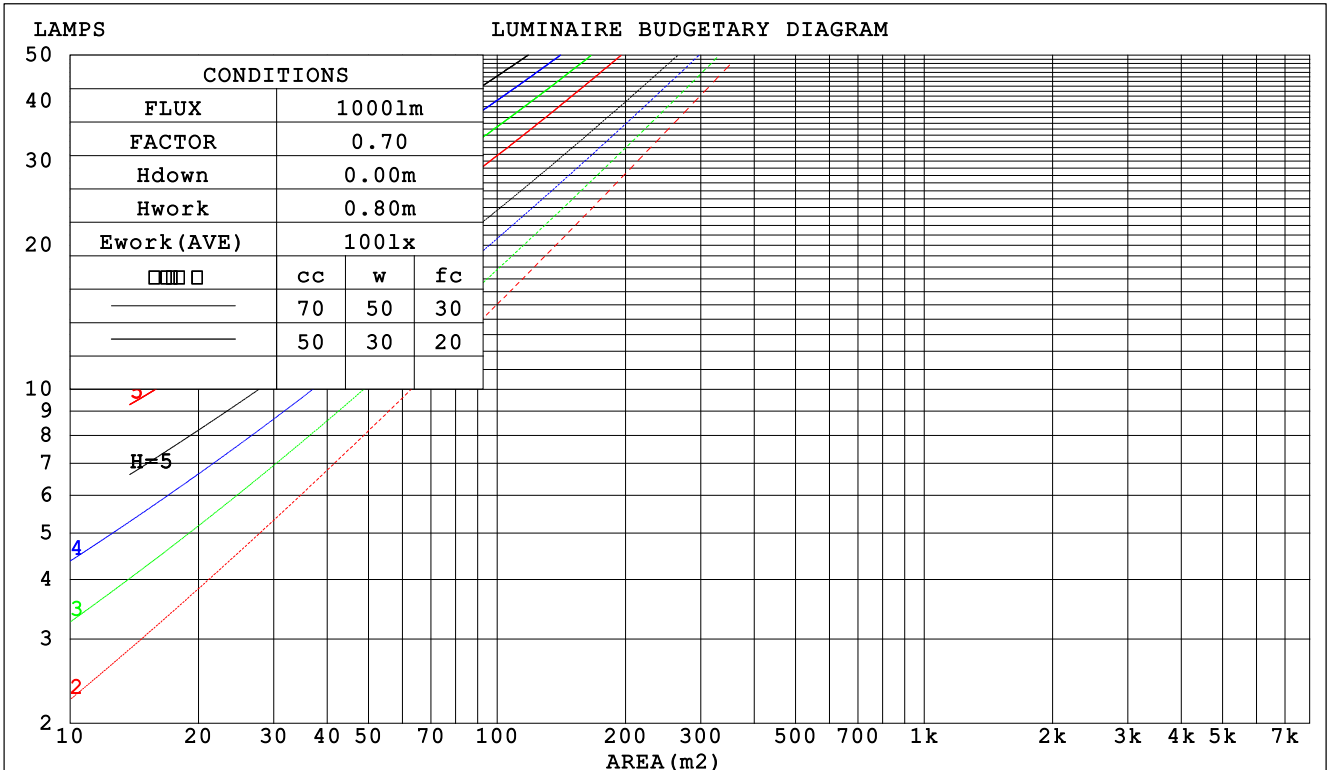
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-21

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.780m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|  |                               |                  |
|--|-------------------------------|------------------|
| Test:U:120.20V I:0.3822A P:41.494W PF:0.9022 Freq:50.00Hz Lamp Flux:2818.09x1 lm |                               |                  |
| NAME:  | TYPE:ASD-LFC-SN-20D42-AC-2700 | WEIGHT:          |
| SPEC.:2700K  | DIM.:                         | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.5*0.5                  | Shielding Angle: |

|      |                       |      |      |      |      |      |                                 |      |      |     |     |     |     |     |     |     |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|-----|-----|-----|-----|-----|-----|-----|
| □cc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30% |     |     | 10% |     |     | 0   |
| □w   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50% | 30% | 10% | 50% | 30% | 10% | 0   |
| □fc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20% |     |     | 20% |     |     | 0   |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |     |     |     |     |     |     |     |
| 0.0  | 1.15                  | 1.15 | 1.15 | 1.10 | 1.10 | 1.10 | 1.01                            | 1.01 | 1.01 | .92 | .92 | .92 | .85 | .85 | .85 | .81 |
| 1.0  | .97                   | .92  | .88  | .93  | .88  | .84  | .85                             | .82  | .78  | .78 | .75 | .73 | .71 | .69 | .67 | .64 |
| 2.0  | .84                   | .76  | .70  | .80  | .73  | .68  | .73                             | .68  | .63  | .67 | .63 | .59 | .62 | .58 | .55 | .52 |
| 3.0  | .73                   | .64  | .57  | .70  | .62  | .56  | .64                             | .58  | .52  | .59 | .53 | .49 | .54 | .49 | .46 | .43 |
| 4.0  | .64                   | .55  | .48  | .61  | .53  | .47  | .56                             | .49  | .44  | .52 | .46 | .41 | .48 | .43 | .39 | .36 |
| 5.0  | .57                   | .48  | .41  | .55  | .46  | .40  | .50                             | .43  | .38  | .46 | .40 | .35 | .43 | .38 | .33 | .31 |
| 6.0  | .51                   | .42  | .35  | .49  | .41  | .34  | .45                             | .38  | .33  | .42 | .36 | .31 | .39 | .33 | .29 | .27 |
| 7.0  | .46                   | .37  | .31  | .44  | .36  | .30  | .41                             | .34  | .29  | .38 | .32 | .27 | .35 | .30 | .26 | .23 |
| 8.0  | .42                   | .33  | .27  | .40  | .32  | .27  | .37                             | .30  | .25  | .35 | .29 | .24 | .32 | .27 | .23 | .21 |
| 9.0  | .38                   | .30  | .24  | .37  | .29  | .24  | .34                             | .28  | .23  | .32 | .26 | .22 | .30 | .24 | .21 | .19 |
| 10.0 | .35                   | .27  | .22  | .34  | .27  | .22  | .32                             | .25  | .21  | .30 | .24 | .20 | .28 | .22 | .19 | .17 |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-21

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.780m [K=1.0000]  
 Remarks:

**WEC AND CCEC**

|  |                                      |                  |
|--|--------------------------------------|------------------|
| Test:U:120.20V I:0.3822A P:41.494W PF:0.9022 Freq:50.00Hz Lamp Flux:2818.09x1 lm |                                      |                  |
| NAME:  | TYPE:ASD-LFC-SN-20D42-AC-2700WEIGHT: |                  |
| SPEC.:2700K  | DIM.:                                | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.5*0.5                         | Shielding Angle: |

| <input type="checkbox"/> cc | 80%                   |      |      | 70%  |      |      | 50%                              |      |      | 30%  |      |      | 10%  |      |      | 0 |
|-----------------------------|-----------------------|------|------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|---|
| <input type="checkbox"/> w  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                              | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| <input type="checkbox"/> fc | 20%                   |      |      | 20%  |      |      | 20%                              |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR                         | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients (WEC) |      |      |      |      |      |      |      |      |   |
| 0.0                         |                       |      |      |      |      |      |                                  |      |      |      |      |      |      |      |      |   |
| 1.0                         | .353                  | .201 | .064 | .340 | .194 | .062 | .316                             | .181 | .058 | .294 | .169 | .054 | .273 | .158 | .051 |   |
| 2.0                         | .314                  | .172 | .053 | .302 | .166 | .051 | .280                             | .156 | .048 | .260 | .146 | .046 | .241 | .137 | .043 |   |
| 3.0                         | .283                  | .150 | .045 | .272 | .146 | .044 | .252                             | .137 | .042 | .234 | .128 | .039 | .217 | .120 | .037 |   |
| 4.0                         | .257                  | .133 | .039 | .247 | .129 | .038 | .229                             | .122 | .036 | .213 | .114 | .034 | .197 | .107 | .033 |   |
| 5.0                         | .235                  | .120 | .035 | .226 | .116 | .034 | .210                             | .109 | .032 | .195 | .103 | .031 | .180 | .096 | .029 |   |
| 6.0                         | .216                  | .108 | .031 | .208 | .105 | .030 | .193                             | .099 | .029 | .179 | .093 | .027 | .166 | .088 | .026 |   |
| 7.0                         | .200                  | .099 | .028 | .193 | .096 | .027 | .179                             | .091 | .026 | .166 | .085 | .025 | .154 | .080 | .024 |   |
| 8.0                         | .186                  | .091 | .026 | .179 | .088 | .025 | .167                             | .083 | .024 | .155 | .079 | .023 | .144 | .074 | .022 |   |
| 9.0                         | .174                  | .084 | .023 | .168 | .082 | .023 | .156                             | .077 | .022 | .145 | .073 | .021 | .135 | .069 | .020 |   |
| 10.0                        | .163                  | .078 | .022 | .157 | .076 | .021 | .147                             | .072 | .020 | .136 | .068 | .019 | .127 | .064 | .018 |   |

| <input type="checkbox"/> cc | 80%                   |      |      | 70%  |      |      | 50%   |      |      | 30%  |      |      | 10%  |      |      | 0 |
|-----------------------------|-----------------------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|---|
| <input type="checkbox"/> w  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| <input type="checkbox"/> fc | 20%                   |      |      | 20%  |      |      | 20%   |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR                         | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients (CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0                         | .335                  | .335 | .335 | .287 | .287 | .287 | .196  | .196 | .196 | .112 | .112 | .112 | .036 | .036 | .036 |   |
| 1.0                         | .329                  | .302 | .277 | .282 | .259 | .238 | .193  | .178 | .165 | .111 | .103 | .096 | .036 | .033 | .031 |   |
| 2.0                         | .322                  | .279 | .242 | .276 | .240 | .209 | .189  | .166 | .146 | .109 | .097 | .086 | .035 | .031 | .028 |   |
| 3.0                         | .315                  | .262 | .220 | .270 | .226 | .191 | .185  | .157 | .134 | .107 | .092 | .079 | .034 | .030 | .026 |   |
| 4.0                         | .307                  | .250 | .206 | .264 | .216 | .179 | .181  | .150 | .126 | .105 | .088 | .074 | .034 | .029 | .024 |   |
| 5.0                         | .300                  | .240 | .195 | .257 | .207 | .170 | .177  | .145 | .120 | .103 | .085 | .071 | .033 | .028 | .023 |   |
| 6.0                         | .292                  | .232 | .188 | .251 | .201 | .164 | .173  | .140 | .116 | .101 | .083 | .069 | .032 | .027 | .023 |   |
| 7.0                         | .286                  | .225 | .183 | .246 | .195 | .159 | .170  | .137 | .113 | .099 | .081 | .067 | .032 | .026 | .022 |   |
| 8.0                         | .279                  | .220 | .179 | .240 | .190 | .156 | .166  | .134 | .111 | .097 | .079 | .066 | .031 | .026 | .022 |   |
| 9.0                         | .273                  | .215 | .176 | .235 | .186 | .153 | .163  | .131 | .109 | .095 | .077 | .065 | .031 | .025 | .021 |   |
| 10.0                        | .267                  | .211 | .173 | .230 | .183 | .151 | .160  | .129 | .107 | .093 | .076 | .064 | .030 | .025 | .021 |   |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-21

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.780m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

|  |                  |      |      |      |                                      |                |      |                  |      |      |
|--|------------------|------|------|------|--------------------------------------|----------------|------|------------------|------|------|
| Test:U:120.20V I:0.3822A P:41.494W PF:0.9022 Freq:50.00Hz Lamp Flux:2818.09x1 lm |                  |      |      |      |                                      |                |      |                  |      |      |
| NAME:  |                  |      |      |      | TYPE:ASD-LFC-SN-20D42-AC-2700WEIGHT: |                |      |                  |      |      |
| SPEC.:2700K  |                  |      |      |      | DIM.:                                |                |      | SERIAL No.:      |      |      |
| MFR.: ASD Lighting Corp  |                  |      |      |      | SUR.:0.5*0.5                         |                |      | 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  | 11.2             | 12.6 | 11.8 | 13.1 | 13.7                                 | 11.3           | 12.6 | 11.8             | 13.1 | 13.7 |
| 3H   | 13.2             | 14.4 | 13.7 | 14.9 | 15.6                                 | 13.1           | 14.4 | 13.7             | 14.9 | 15.5 |
| 4H   | 14.1             | 15.3 | 14.7 | 15.8 | 16.5                                 | 14.1           | 15.2 | 14.7             | 15.8 | 16.5 |
| 6H   | 15.1             | 16.1 | 15.6 | 16.7 | 17.4                                 | 15.0           | 16.1 | 15.6             | 16.7 | 17.4 |
| 8H   | 15.5             | 16.6 | 16.1 | 17.2 | 17.9                                 | 15.5           | 16.6 | 16.1             | 17.2 | 17.8 |
| 12H  | 16.1             | 17.1 | 16.7 | 17.7 | 18.4                                 | 16.1           | 17.1 | 16.7             | 17.7 | 18.4 |
| 4H 2H  | 11.9             | 13.0 | 12.5 | 13.6 | 14.2                                 | 11.9           | 13.0 | 12.5             | 13.6 | 14.2 |
| 3H   | 14.0             | 15.0 | 14.6 | 15.6 | 16.3                                 | 14.0           | 15.0 | 14.6             | 15.6 | 16.3 |
| 4H   | 15.1             | 16.0 | 15.7 | 16.7 | 17.4                                 | 15.1           | 16.0 | 15.7             | 16.6 | 17.3 |
| 6H   | 16.2             | 17.0 | 16.9 | 17.7 | 18.4                                 | 16.2           | 17.0 | 16.8             | 17.6 | 18.4 |
| 8H   | 16.8             | 17.6 | 17.5 | 18.2 | 19.0                                 | 16.8           | 17.5 | 17.4             | 18.2 | 19.0 |
| 12H  | 17.5             | 18.2 | 18.2 | 18.8 | 19.6                                 | 17.5           | 18.2 | 18.1             | 18.8 | 19.6 |
| 8H 4H  | 15.5             | 16.2 | 16.2 | 16.9 | 17.7                                 | 15.5           | 16.2 | 16.1             | 16.9 | 17.7 |
| 6H   | 16.8             | 17.5 | 17.5 | 18.2 | 19.0                                 | 16.8           | 17.4 | 17.5             | 18.1 | 18.9 |
| 8H   | 17.6             | 18.1 | 18.3 | 18.8 | 19.7                                 | 17.5           | 18.1 | 18.2             | 18.8 | 19.7 |
| 12H  | 18.4             | 18.9 | 19.2 | 19.7 | 20.5                                 | 18.4           | 18.9 | 19.2             | 19.7 | 20.5 |
| 12H 4H   | 15.5             | 16.2 | 16.2 | 16.9 | 17.7                                 | 15.5           | 16.2 | 16.2             | 16.9 | 17.7 |
| 6H   | 17.0             | 17.5 | 17.7 | 18.2 | 19.1                                 | 16.9           | 17.5 | 17.6             | 18.2 | 19.0 |
| 8H   | 17.8             | 18.3 | 18.5 | 19.0 | 19.9                                 | 17.8           | 18.3 | 18.5             | 19.0 | 19.9 |
| Variations with the observer position at spacings:                               |                  |      |      |      |                                      |                |      |                  |      |      |
| S = 1.0H   | + 0.1 / - 0.1    |      |      |      |                                      | + 0.1 / - 0.1  |      |                  |      |      |
| 1.5H   | + 0.2 / - 0.3    |      |      |      |                                      | + 0.2 / - 0.3  |      |                  |      |      |
| 2.0H   | + 0.2 / - 0.4    |      |      |      |                                      | + 0.2 / - 0.3  |      |                  |      |      |

CIE Pub.117, 2818 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.6)  
 Area: 0.7853 m2

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-21

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.780m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

|  |                               |                  |
|--|-------------------------------|------------------|
| Test:U:120.20V I:0.3822A P:41.494W PF:0.9022 Freq:50.00Hz Lamp Flux:2818.09x1 lm |                               |                  |
| NAME:  | TYPE:ASD-LFC-SN-20D42-AC-2700 | WEIGHT:          |
| SPEC.:2700K  | DIM.:                         | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.5*0.5                  | Shielding Angle: |

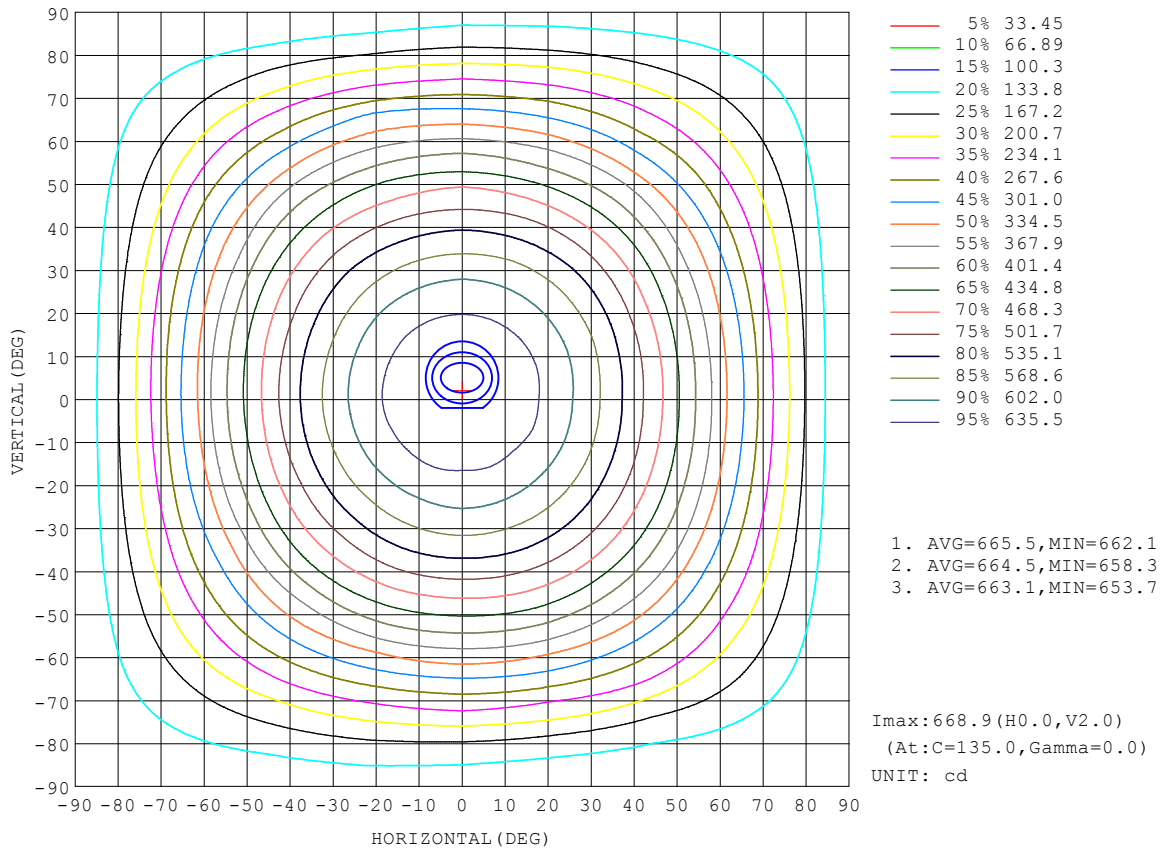
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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                         | 49   | 37  | 30        | 48  | 36  | 30  | 46            | 35  | 29  | 22     |
| 0.80                             | 59   | 46  | 38        | 57  | 45  | 38  | 54            | 43  | 37  | 29     |
| 1.00                             | 66   | 54  | 46        | 64  | 53  | 45  | 61            | 53  | 44  | 35     |
| 1.25                             | 73   | 61  | 53        | 71  | 60  | 52  | 66            | 57  | 50  | 41     |
| 1.50                             | 79   | 67  | 59        | 76  | 65  | 58  | 71            | 62  | 55  | 45     |
| 2.00                             | 86   | 75  | 68        | 83  | 73  | 66  | 77            | 69  | 63  | 51     |
| 2.50                             | 90   | 81  | 73        | 87  | 78  | 71  | 80            | 73  | 68  | 55     |
| 3.00                             | 94   | 85  | 78        | 90  | 82  | 76  | 83            | 77  | 72  | 58     |
| 4.00                             | 98   | 91  | 85        | 94  | 88  | 82  | 87            | 82  | 77  | 63     |
| 5.00                             | 101  | 95  | 89        | 97  | 91  | 87  | 89            | 85  | 81  | 65     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-21

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.780m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

|  |                               |                  |
|--|-------------------------------|------------------|
| Test:U:120.20V I:0.3822A P:41.494W PF:0.9022 Freq:50.00Hz Lamp Flux:2818.09x1 lm |                               |                  |
| NAME:  | TYPE:ASD-LFC-SN-20D42-AC-2700 | WEIGHT:          |
| SPEC.:2700K  | DIM.:                         | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.5*0.5                  | Shielding Angle: |



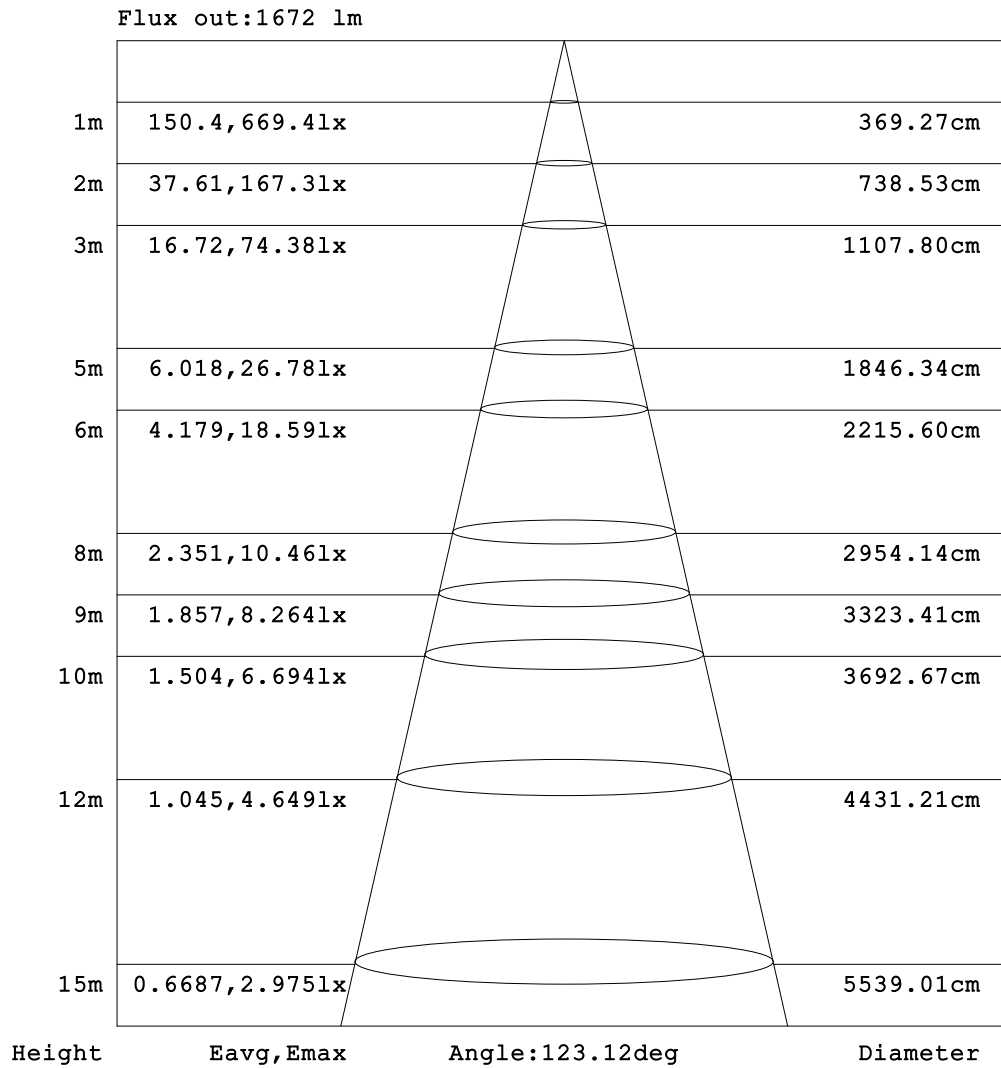
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-21

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.780m [K=1.0000]  
 Remarks:



**AAI Figure**

|  |                               |                  |
|--|-------------------------------|------------------|
| Test:U:120.20V I:0.3822A P:41.494W PF:0.9022 Freq:50.00Hz Lamp Flux:2818.09x1 lm |                               |                  |
| NAME:  | TYPE:ASD-LFC-SN-20D42-AC-2700 | WEIGHT:          |
| SPEC.:2700K  | DIM.:                         | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.5*0.5                  | Shielding Angle: |



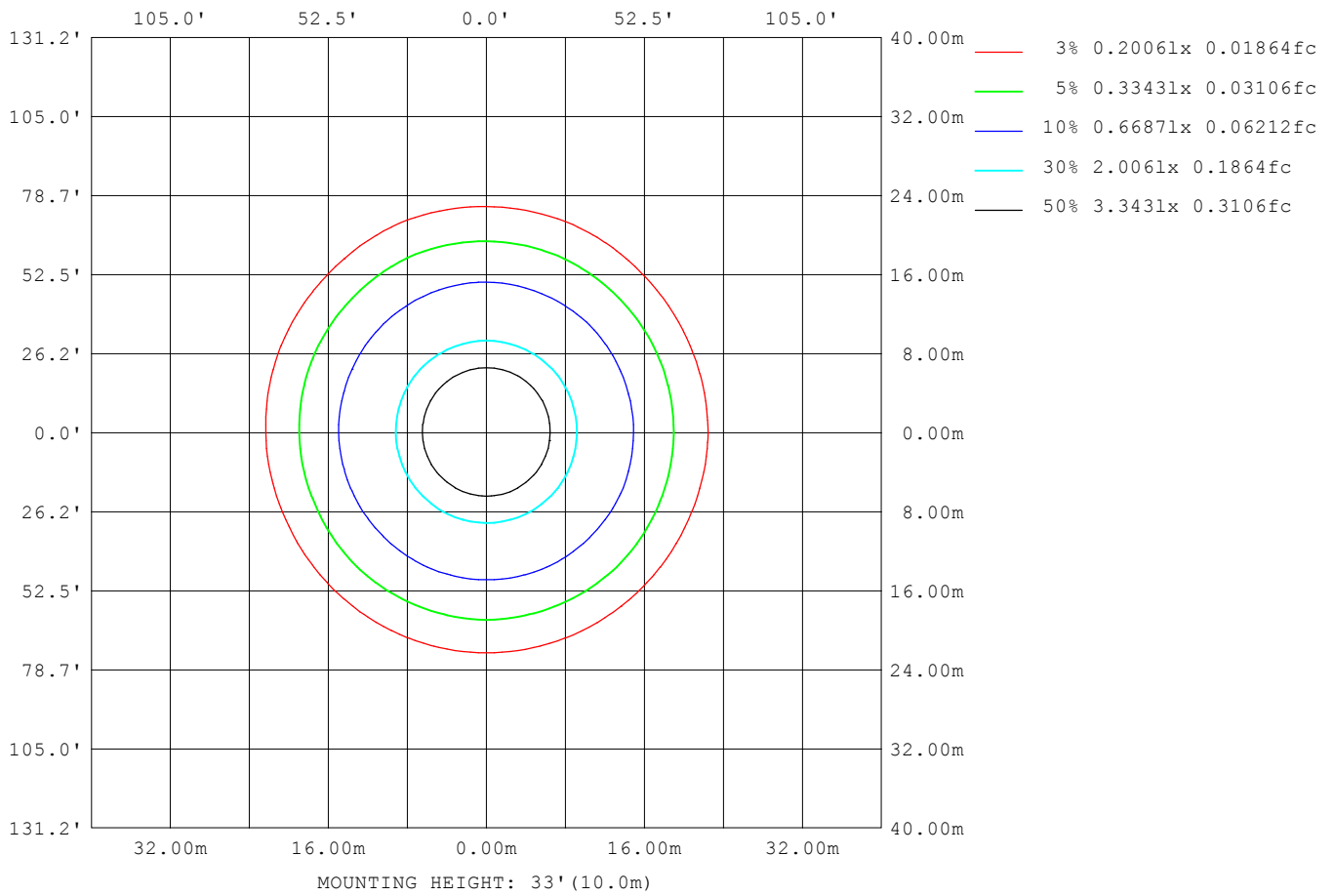
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-21

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.780m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

|  |                                      |                  |
|--|--------------------------------------|------------------|
| Test:U:120.20V I:0.3822A P:41.494W PF:0.9022 Freq:50.00Hz Lamp Flux:2818.09x1 lm |                                      |                  |
| NAME:  | TYPE:ASD-LFC-SN-20D42-AC-2700WEIGHT: |                  |
| SPEC.:2700K  | DIM.:                                | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.5*0.5                         | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-21

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.780m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

|  |                               |                  |
|--|-------------------------------|------------------|
| Test:U:120.20V I:0.3822A P:41.494W PF:0.9022 Freq:50.00Hz Lamp Flux:2818.09x1 lm |                               |                  |
| NAME:  | TYPE:ASD-LFC-SN-20D42-AC-2700 | WEIGHT:          |
| SPEC.:2700K  | DIM.:                         | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.5*0.5                  | Shielding Angle: |

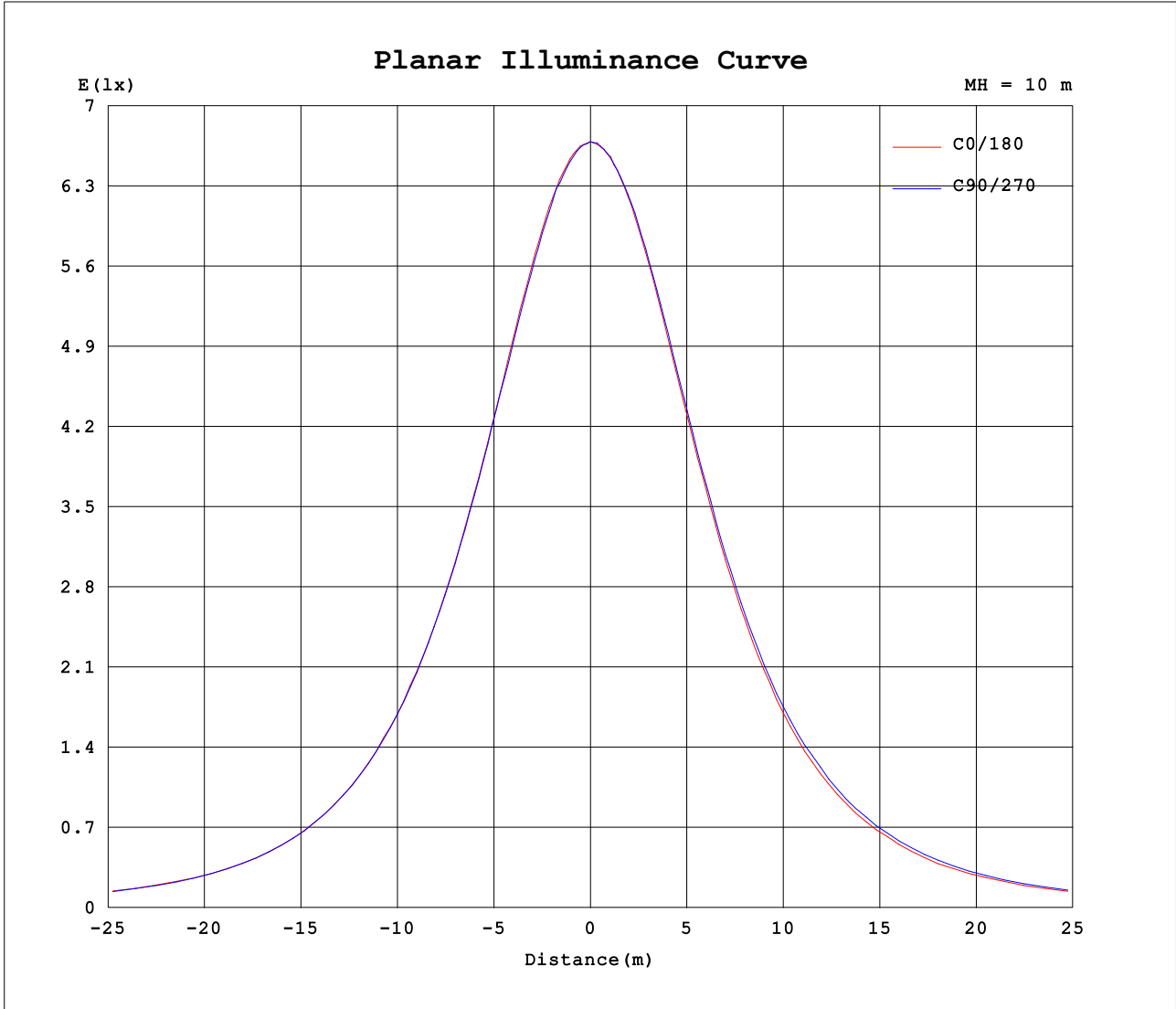
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 921   |
| L_0~180 (75) av  | 1026  |
| L_0~180 (85) av  | 1925  |
| L_90~270 (65) av | 935   |
| L_90~270 (75) av | 1083  |
| L_90~270 (85) av | 2035  |
| L_45 (65) av     | 920   |
| L_45 (75) av     | 1039  |
| L_45 (85) av     | 1919  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-21

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.780m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-21

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.780m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|  |                               |                  |
|--|-------------------------------|------------------|
| Test:U:120.20V I:0.3822A P:41.494W PF:0.9022 Freq:50.00Hz Lamp Flux:2818.09x1 lm |                               |                  |
| NAME:  | TYPE:ASD-LFC-SN-20D42-AC-2700 | WEIGHT:          |
| SPEC.:2700K  | DIM.:                         | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.5*0.5                  | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG)<br>□ (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                  | 669  | 669  | 669  | 669  | 669  | 668   | 669  | 669   | 669  | 669   | 669  | 669   | 669  | 668   | 669  | 669   |  |  |  |
| 5                  | 666  | 665  | 665  | 664  | 664  | 665   | 665  | 665   | 666  | 666   | 666  | 666   | 666  | 666   | 667  | 666   |  |  |  |
| 10                 | 657  | 657  | 656  | 656  | 657  | 656   | 656  | 656   | 659  | 659   | 660  | 660   | 660  | 659   | 660  | 658   |  |  |  |
| 15                 | 645  | 644  | 642  | 642  | 641  | 642   | 643  | 643   | 647  | 647   | 649  | 649   | 650  | 649   | 649  | 648   |  |  |  |
| 20                 | 629  | 627  | 624  | 625  | 624  | 625   | 625  | 627   | 630  | 632   | 634  | 634   | 635  | 634   | 633  | 631   |  |  |  |
| 25                 | 605  | 605  | 603  | 603  | 604  | 602   | 603  | 607   | 609  | 612   | 613  | 614   | 614  | 615   | 615  | 611   |  |  |  |
| 30                 | 580  | 579  | 578  | 578  | 577  | 576   | 576  | 579   | 585  | 585   | 588  | 589   | 590  | 590   | 588  | 585   |  |  |  |
| 35                 | 550  | 550  | 550  | 548  | 548  | 547   | 546  | 550   | 553  | 556   | 560  | 560   | 562  | 562   | 561  | 555   |  |  |  |
| 40                 | 516  | 518  | 516  | 516  | 515  | 515   | 513  | 513   | 519  | 523   | 527  | 528   | 531  | 529   | 527  | 522   |  |  |  |
| 45                 | 479  | 480  | 479  | 482  | 478  | 478   | 476  | 474   | 481  | 486   | 492  | 494   | 496  | 493   | 493  | 485   |  |  |  |
| 50                 | 439  | 440  | 439  | 441  | 438  | 437   | 436  | 436   | 441  | 446   | 454  | 458   | 463  | 457   | 452  | 444   |  |  |  |
| 55                 | 395  | 395  | 394  | 397  | 396  | 396   | 391  | 393   | 398  | 405   | 413  | 419   | 420  | 411   | 410  | 400   |  |  |  |
| 60                 | 348  | 346  | 350  | 349  | 349  | 343   | 345  | 341   | 350  | 363   | 369  | 375   | 373  | 370   | 363  | 352   |  |  |  |
| 65                 | 306  | 300  | 299  | 300  | 299  | 296   | 296  | 294   | 306  | 311   | 316  | 331   | 322  | 321   | 310  | 309   |  |  |  |
| 70                 | 258  | 251  | 250  | 250  | 257  | 250   | 252  | 254   | 254  | 262   | 266  | 276   | 277  | 274   | 263  | 265   |  |  |  |
| 75                 | 211  | 203  | 202  | 206  | 209  | 212   | 204  | 210   | 206  | 212   | 219  | 225   | 232  | 227   | 219  | 214   |  |  |  |
| 80                 | 165  | 159  | 156  | 159  | 164  | 167   | 164  | 164   | 166  | 165   | 170  | 176   | 182  | 182   | 175  | 169   |  |  |  |
| 85                 | 130  | 126  | 122  | 127  | 134  | 136   | 132  | 132   | 133  | 131   | 131  | 137   | 145  | 144   | 140  | 135   |  |  |  |
| 90                 | 107  | 104  | 104  | 109  | 114  | 115   | 110  | 110   | 110  | 109   | 108  | 111   | 119  | 119   | 115  | 110   |  |  |  |
| 95                 | 93.7 | 93.9 | 97.6 | 102  | 104  | 102   | 96.3 | 96.0  | 97.8 | 98.8  | 98.0 | 99.7  | 104  | 103   | 98.6 | 95.0  |  |  |  |
| 100                | 88.2 | 91.3 | 96.6 | 100  | 101  | 96.1  | 89.0 | 89.4  | 92.7 | 95.9  | 96.1 | 96.9  | 97.3 | 93.9  | 88.9 | 86.8  |  |  |  |
| 105                | 86.9 | 90.5 | 95.4 | 99.8 | 99.3 | 93.4  | 85.5 | 87.4  | 91.9 | 95.7  | 95.5 | 96.0  | 95.5 | 90.6  | 84.5 | 83.6  |  |  |  |
| 110                | 86.6 | 89.6 | 93.6 | 98.6 | 97.8 | 91.5  | 84.0 | 86.2  | 92.1 | 95.5  | 94.4 | 95.0  | 94.3 | 89.5  | 82.3 | 82.5  |  |  |  |
| 115                | 83.7 | 86.6 | 91.8 | 96.8 | 96.3 | 90.0  | 83.5 | 80.0  | 89.1 | 91.2  | 93.4 | 93.7  | 93.3 | 88.6  | 81.1 | 80.5  |  |  |  |
| 120                | 77.8 | 83.5 | 90.2 | 94.6 | 94.1 | 88.2  | 82.9 | 77.1  | 84.3 | 87.4  | 92.4 | 92.2  | 91.6 | 87.5  | 80.3 | 75.2  |  |  |  |
| 125                | 77.4 | 80.9 | 88.3 | 92.0 | 91.4 | 86.5  | 80.0 | 76.4  | 84.1 | 86.2  | 90.9 | 90.3  | 89.8 | 85.9  | 78.9 | 70.8  |  |  |  |
| 130                | 76.7 | 78.4 | 84.1 | 89.4 | 88.8 | 84.7  | 74.5 | 75.9  | 83.3 | 84.7  | 86.1 | 87.9  | 87.9 | 83.4  | 75.8 | 67.8  |  |  |  |
| 135                | 75.6 | 75.9 | 79.2 | 86.5 | 86.4 | 82.4  | 73.1 | 74.9  | 82.1 | 82.6  | 82.2 | 84.6  | 85.5 | 81.0  | 72.1 | 65.4  |  |  |  |
| 140                | 74.2 | 71.9 | 74.9 | 81.5 | 84.2 | 77.5  | 72.8 | 74.7  | 80.5 | 81.0  | 79.8 | 79.0  | 82.4 | 75.9  | 67.6 | 63.1  |  |  |  |
| 145                | 71.9 | 70.3 | 71.9 | 76.1 | 81.4 | 74.3  | 72.7 | 75.2  | 79.6 | 78.6  | 77.5 | 73.9  | 77.8 | 69.7  | 63.6 | 61.5  |  |  |  |
| 150                | 69.5 | 69.2 | 70.4 | 73.7 | 76.8 | 73.7  | 73.1 | 72.0  | 78.4 | 75.0  | 74.8 | 73.8  | 73.6 | 67.1  | 61.2 | 61.3  |  |  |  |
| 155                | 67.3 | 67.4 | 68.6 | 70.9 | 73.7 | 73.2  | 70.5 | 69.7  | 76.6 | 71.0  | 70.8 | 72.6  | 71.1 | 66.2  | 60.3 | 60.6  |  |  |  |
| 160                | 65.2 | 66.5 | 67.2 | 69.3 | 71.8 | 72.3  | 66.6 | 66.3  | 74.3 | 66.7  | 67.0 | 70.4  | 68.7 | 65.2  | 61.3 | 61.0  |  |  |  |
| 165                | 63.4 | 64.2 | 66.2 | 67.6 | 70.6 | 68.9  | 63.2 | 63.8  | 73.0 | 64.5  | 63.2 | 66.9  | 66.8 | 63.4  | 62.6 | 61.7  |  |  |  |
| 170                | 66.1 | 68.3 | 71.9 | 70.3 | 71.1 | 65.9  | 64.5 | 66.4  | 75.5 | 70.7  | 69.2 | 63.7  | 64.7 | 65.5  | 69.1 | 67.7  |  |  |  |
| 175                | 69.8 | 73.6 | 73.7 | 72.3 | 72.3 | 68.3  | 66.6 | 73.0  | 76.0 | 75.5  | 71.4 | 71.0  | 67.1 | 65.3  | 70.7 | 74.5  |  |  |  |
| 180                | 75.2 | 76.8 | 76.8 | 73.3 | 73.6 | 68.2  | 72.1 | 76.5  | 75.1 | 76.7  | 76.7 | 73.3  | 73.6 | 68.2  | 72.1 | 76.5  |  |  |  |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-21

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.780m [K=1.0000]  
 Remarks: