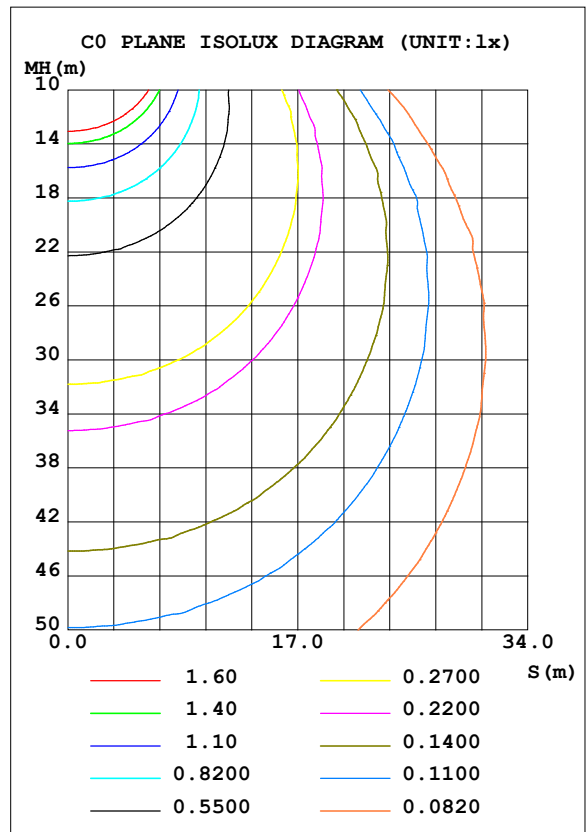
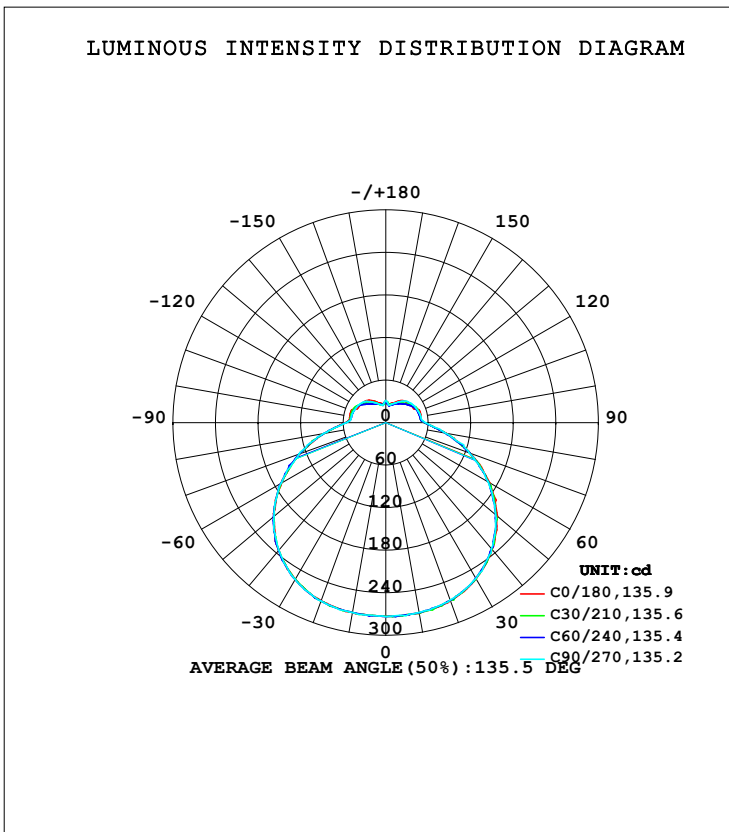


**LUMINAIRE PHOTOMETRIC TEST REPORT**

|  |                |                  |
|--|----------------|------------------|
| Test:U:120.08V I:0.2590A P:28.408W PF:0.9127 Freq:60.00Hz Lamp Flux:1325.38x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-2700K   | DIM.:          | SERIAL No.:      |
| MFR.: ASD lighting Corp  | SUR.:0.38*0.38 | Shielding Angle: |

| DATA OF LAMP                |         | PHOTOMETRIC DATA                  |         |  |           |
|-----------------------------|---------|-----------------------------------|---------|--|-----------|
| MODEIASD-LFC-LF-16D28-AC-BK |         | Imax (cd)                         | 273.9   | S/MH (C0/180)                              | 1.39      |
| NOMINAL POWER (W)           | --      | LOR (%)                           | 100.0   | S/MH (C90/270)                             | 1.39      |
| RATED VOLTAGE (V)           | --      | TOTAL FLUX (lm)                   | 1325.4  | <input type="checkbox"/> UP, DN (C0-180)   | 10.3,39.5 |
| NOMINAL FLUX (lm)           | 1325.38 | CIE CLASS                         | SEMI-D. | <input type="checkbox"/> UP, DN (C180-360) | 10.3,39.9 |
| LAMPS INSIDE                | 1       | <input type="checkbox"/> up (%)   | 20.6    | CIBSE SHR NOM                              | 1.50      |
| TEST VOLTAGE (V)            | --      | <input type="checkbox"/> down (%) | 79.4    | CIBSE SHR MAX                              | 1.55      |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: admin  
 Test Date: 2022-03-16

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  | 273.3                 | 272.7 | 271.7 | 272.5 | 271.8 | 271.9 | 272.0 | 272.3 | 0- 10   | 26.02   | 26.02   | 1.96,1.96  |
| 20  | 267.1                 | 266.6 | 266.4 | 266.9 | 267.1 | 267.7 | 267.7 | 268.0 | 10- 20  | 76.53   | 102.5   | 7.74,7.74  |
| 30  | 254.7                 | 254.1 | 253.7 | 255.0 | 255.8 | 255.2 | 255.5 | 255.5 | 20- 30  | 121.0   | 223.5   | 16.9,16.9  |
| 40  | 233.7                 | 232.6 | 231.9 | 233.1 | 234.8 | 235.3 | 234.8 | 234.7 | 30- 40  | 153.7   | 377.2   | 28.5,28.5  |
| 50  | 205.9                 | 202.7 | 202.2 | 203.9 | 205.6 | 206.3 | 206.1 | 207.2 | 40- 50  | 170.1   | 547.4   | 41.3,41.3  |
| 60  | 169.7                 | 167.1 | 167.1 | 168.3 | 169.5 | 170.3 | 170.0 | 171.9 | 50- 60  | 167.9   | 715.2   | 54,54      |
| 70  | 126.8                 | 126.5 | 125.2 | 129.9 | 129.3 | 130.2 | 130.3 | 129.3 | 60- 70  | 147.3   | 862.5   | 65.1,65.1  |
| 80  | 86.90                 | 84.87 | 85.97 | 87.85 | 88.05 | 87.78 | 89.75 | 87.14 | 70- 80  | 113.6   | 976.1   | 73.6,73.6  |
| 90  | 54.72                 | 54.63 | 56.07 | 57.13 | 57.30 | 56.19 | 55.73 | 55.23 | 80- 90  | 75.79   | 1052    | 79.4,79.4  |
| 100 | 50.30                 | 49.21 | 50.30 | 51.52 | 51.70 | 49.92 | 49.45 | 49.18 | 90-100  | 56.11   | 1108    | 83.6,83.6  |
| 110 | 50.78                 | 48.41 | 48.78 | 50.49 | 51.75 | 49.22 | 48.35 | 48.65 | 100-110 | 52.76   | 1161    | 87.6,87.6  |
| 120 | 44.23                 | 45.96 | 46.97 | 47.88 | 44.59 | 46.90 | 46.58 | 46.61 | 110-120 | 47.60   | 1208    | 91.2,91.2  |
| 130 | 42.67                 | 40.46 | 44.15 | 42.06 | 43.26 | 40.93 | 44.07 | 40.82 | 120-130 | 39.74   | 1248    | 94.2,94.2  |
| 140 | 40.41                 | 35.41 | 39.64 | 36.73 | 40.98 | 35.59 | 39.32 | 35.93 | 130-140 | 30.79   | 1279    | 96.5,96.5  |
| 150 | 34.94                 | 31.72 | 33.39 | 32.68 | 35.63 | 31.79 | 32.85 | 31.97 | 140-150 | 22.00   | 1301    | 98.2,98.2  |
| 160 | 29.78                 | 27.85 | 28.40 | 28.95 | 30.05 | 27.94 | 28.11 | 28.18 | 150-160 | 14.21   | 1315    | 99.2,99.2  |
| 170 | 27.22                 | 25.07 | 25.67 | 25.24 | 27.27 | 24.99 | 25.19 | 24.24 | 160-170 | 7.662   | 1323    | 99.8,99.8  |
| 180 | 31.07                 | 28.93 | 31.38 | 29.06 | 31.07 | 28.92 | 31.40 | 29.10 | 170-180 | 2.598   | 1325    | 100,100    |
| DEG | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |         | UNIT:lm |         |            |

Conical surface Flux(90deg): 461.38 lm

%lum = 34.8%

%lamp = 34.8%

Conical surface Flux(120deg): 715.2 lm

%lum = 54.0%

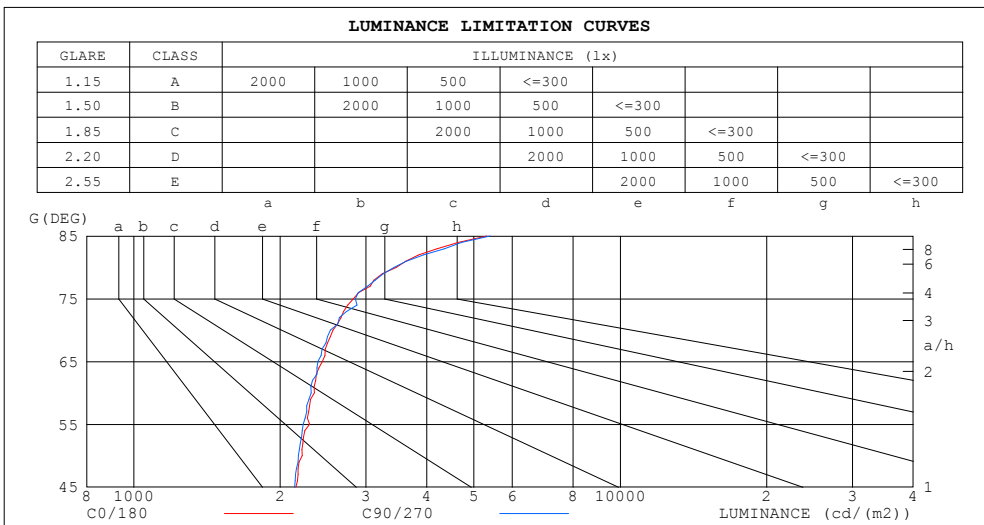
%lamp = 54.0%

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-16

□ 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:120.08V I:0.2590A P:28.408W PF:0.9127 Freq:60.00Hz Lamp Flux:1325.38x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-2700K   | DIM.:          | SERIAL No.:      |
| MFR.: ASD lighting Corp  | SUR.:0.38*0.38 | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 5318   | 5399    |
| 80                | 3466   | 3429    |
| 75                | 2827   | 2853    |
| 70                | 2568   | 2536    |
| 65                | 2442   | 2392    |
| 60                | 2350   | 2315    |
| 55                | 2299   | 2231    |
| 50                | 2218   | 2178    |
| 45                | 2154   | 2139    |

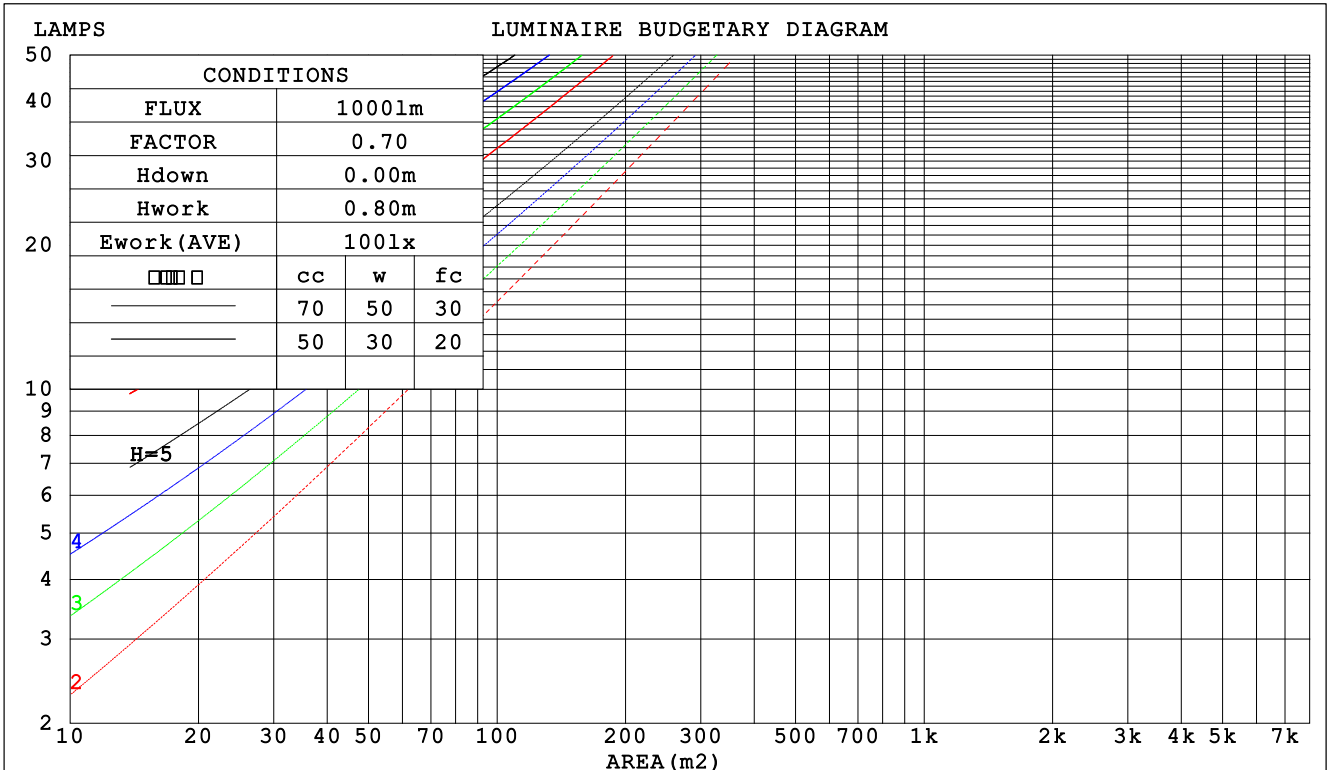
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-16

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:120.08V I:0.2590A P:28.408W PF:0.9127 Freq:60.00Hz Lamp Flux:1325.38x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-2700K   | DIM.:          | SERIAL No.:      |
| MFR.: ASD lighting Corp  | SUR.:0.38*0.38 | 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  | 1.14                  | 1.14 | 1.14 | 1.09 | 1.09 | 1.09 | .00                             | .00 | .00 | .91 | .91 | .91 | .83 | .83 | .83 | .79 |
| 1.0  | .96                   | .91  | .87  | .92  | .87  | .83  | .84                             | .80 | .77 | .76 | .73 | .71 | .69 | .67 | .65 | .62 |
| 2.0  | .82                   | .75  | .69  | .79  | .72  | .66  | .72                             | .66 | .61 | .65 | .61 | .57 | .59 | .56 | .53 | .49 |
| 3.0  | .72                   | .63  | .56  | .68  | .60  | .54  | .62                             | .56 | .50 | .57 | .51 | .47 | .52 | .47 | .44 | .40 |
| 4.0  | .63                   | .54  | .46  | .60  | .52  | .45  | .55                             | .48 | .42 | .50 | .44 | .39 | .46 | .41 | .37 | .34 |
| 5.0  | .56                   | .46  | .39  | .53  | .45  | .38  | .49                             | .42 | .36 | .45 | .39 | .34 | .41 | .36 | .32 | .29 |
| 6.0  | .50                   | .41  | .34  | .48  | .39  | .33  | .44                             | .37 | .31 | .40 | .34 | .29 | .37 | .32 | .27 | .25 |
| 7.0  | .45                   | .36  | .30  | .43  | .35  | .29  | .40                             | .32 | .27 | .36 | .30 | .26 | .33 | .28 | .24 | .22 |
| 8.0  | .41                   | .32  | .26  | .39  | .31  | .25  | .36                             | .29 | .24 | .33 | .27 | .23 | .31 | .25 | .21 | .19 |
| 9.0  | .37                   | .29  | .23  | .36  | .28  | .23  | .33                             | .26 | .22 | .31 | .25 | .20 | .28 | .23 | .19 | .17 |
| 10.0 | .34                   | .26  | .21  | .33  | .25  | .20  | .31                             | .24 | .19 | .28 | .22 | .18 | .26 | .21 | .17 | .15 |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-16

□ 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:120.08V I:0.2590A P:28.408W PF:0.9127 Freq:60.00Hz Lamp Flux:1325.38x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-2700K   | DIM.:          | SERIAL No.:      |
| MFR.: ASD lighting Corp  | SUR.:0.38*0.38 | 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                         | .363                  | .207 | .065 | .350 | .200 | .063 | .325                             | .186 | .059 | .302 | .174 | .056 | .280 | .162 | .052 |   |
| 2.0                         | .321                  | .176 | .054 | .309 | .170 | .052 | .286                             | .159 | .049 | .265 | .149 | .047 | .245 | .139 | .044 |   |
| 3.0                         | .288                  | .153 | .046 | .277 | .148 | .045 | .256                             | .139 | .042 | .237 | .130 | .040 | .219 | .121 | .038 |   |
| 4.0                         | .261                  | .135 | .040 | .251 | .131 | .039 | .232                             | .123 | .037 | .215 | .115 | .035 | .198 | .108 | .033 |   |
| 5.0                         | .238                  | .121 | .035 | .229 | .118 | .034 | .212                             | .110 | .032 | .196 | .103 | .031 | .181 | .097 | .029 |   |
| 6.0                         | .219                  | .110 | .031 | .210 | .106 | .031 | .195                             | .100 | .029 | .180 | .094 | .028 | .167 | .088 | .026 |   |
| 7.0                         | .202                  | .100 | .028 | .195 | .097 | .028 | .180                             | .091 | .026 | .167 | .086 | .025 | .154 | .080 | .024 |   |
| 8.0                         | .188                  | .092 | .026 | .181 | .089 | .025 | .168                             | .084 | .024 | .155 | .079 | .023 | .144 | .074 | .021 |   |
| 9.0                         | .175                  | .085 | .024 | .169 | .082 | .023 | .157                             | .077 | .022 | .145 | .073 | .021 | .134 | .068 | .020 |   |
| 10.0                        | .164                  | .079 | .022 | .158 | .076 | .021 | .147                             | .072 | .020 | .136 | .068 | .019 | .126 | .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                         | .348                  | .348 | .348 | .297 | .297 | .297 | .203  | .203 | .203 | .117 | .117 | .117 | .037 | .037 | .037 |   |
| 1.0                         | .343                  | .314 | .289 | .293 | .270 | .248 | .200  | .186 | .172 | .115 | .107 | .100 | .037 | .035 | .032 |   |
| 2.0                         | .336                  | .291 | .254 | .288 | .251 | .220 | .197  | .174 | .153 | .114 | .101 | .090 | .036 | .033 | .029 |   |
| 3.0                         | .328                  | .275 | .232 | .282 | .237 | .201 | .193  | .165 | .141 | .112 | .096 | .083 | .036 | .031 | .027 |   |
| 4.0                         | .321                  | .262 | .218 | .275 | .227 | .189 | .189  | .158 | .133 | .110 | .093 | .079 | .035 | .030 | .026 |   |
| 5.0                         | .313                  | .253 | .208 | .269 | .219 | .181 | .185  | .153 | .128 | .107 | .090 | .076 | .035 | .029 | .025 |   |
| 6.0                         | .306                  | .245 | .201 | .263 | .212 | .175 | .182  | .148 | .124 | .105 | .087 | .073 | .034 | .029 | .024 |   |
| 7.0                         | .299                  | .238 | .195 | .257 | .206 | .170 | .178  | .145 | .121 | .103 | .085 | .072 | .033 | .028 | .024 |   |
| 8.0                         | .293                  | .233 | .191 | .252 | .202 | .167 | .174  | .142 | .118 | .101 | .084 | .071 | .033 | .027 | .023 |   |
| 9.0                         | .287                  | .228 | .188 | .247 | .198 | .164 | .171  | .139 | .117 | .100 | .082 | .070 | .032 | .027 | .023 |   |
| 10.0                        | .281                  | .224 | .186 | .242 | .194 | .162 | .168  | .137 | .115 | .098 | .081 | .069 | .032 | .027 | .023 |   |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-16

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:120.08V I:0.2590A P:28.408W PF:0.9127 Freq:60.00Hz Lamp Flux:1325.38x1 lm |                  |      |      |      |                |                |      |                  |      |      |
| NAME: ASD lighting Corp  |                  |      |      |      | TYPE:          |                |      | WEIGHT:          |      |      |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-2700K   |                  |      |      |      | DIM.:          |                |      | SERIAL No.:      |      |      |
| MFR.: ASD lighting Corp  |                  |      |      |      | SUR.:0.38*0.38 |                |      | 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  | 14.6             | 15.9 | 15.1 | 16.4 | 17.0           | 14.5           | 15.8 | 15.0             | 16.3 | 17.0 |
| 3H   | 16.6             | 17.8 | 17.2 | 18.4 | 19.1           | 16.5           | 17.8 | 17.1             | 18.3 | 19.0 |
| 4H   | 17.6             | 18.8 | 18.2 | 19.4 | 20.1           | 17.6           | 18.8 | 18.2             | 19.4 | 20.0 |
| 6H   | 18.7             | 19.8 | 19.3 | 20.4 | 21.1           | 18.7           | 19.7 | 19.3             | 20.4 | 21.0 |
| 8H   | 19.2             | 20.3 | 19.8 | 20.9 | 21.6           | 19.2           | 20.3 | 19.8             | 20.9 | 21.6 |
| 12H  | 19.8             | 20.8 | 20.4 | 21.4 | 22.2           | 19.8           | 20.8 | 20.5             | 21.5 | 22.2 |
| 4H 2H  | 15.2             | 16.4 | 15.8 | 17.0 | 17.7           | 15.2           | 16.3 | 15.8             | 16.9 | 17.6 |
| 3H   | 17.5             | 18.5 | 18.1 | 19.1 | 19.9           | 17.4           | 18.5 | 18.1             | 19.1 | 19.8 |
| 4H   | 18.7             | 19.6 | 19.3 | 20.2 | 21.0           | 18.6           | 19.6 | 19.3             | 20.2 | 21.0 |
| 6H   | 19.9             | 20.7 | 20.6 | 21.4 | 22.2           | 19.9           | 20.7 | 20.5             | 21.4 | 22.2 |
| 8H   | 20.5             | 21.3 | 21.2 | 22.0 | 22.8           | 20.5           | 21.3 | 21.2             | 22.0 | 22.8 |
| 12H  | 21.2             | 21.9 | 21.9 | 22.6 | 23.5           | 21.2           | 21.9 | 21.9             | 22.7 | 23.5 |
| 8H 4H  | 19.1             | 19.9 | 19.8 | 20.6 | 21.4           | 19.1           | 19.8 | 19.8             | 20.5 | 21.3 |
| 6H   | 20.6             | 21.2 | 21.3 | 21.9 | 22.8           | 20.5           | 21.2 | 21.3             | 21.9 | 22.8 |
| 8H   | 21.4             | 22.0 | 22.1 | 22.7 | 23.6           | 21.4           | 21.9 | 22.1             | 22.7 | 23.6 |
| 12H  | 22.3             | 22.8 | 23.0 | 23.5 | 24.4           | 22.3           | 22.8 | 23.0             | 23.5 | 24.4 |
| 12H 4H   | 19.2             | 19.9 | 19.9 | 20.6 | 21.4           | 19.2           | 19.9 | 19.9             | 20.6 | 21.4 |
| 6H   | 20.7             | 21.3 | 21.5 | 22.1 | 22.9           | 20.7           | 21.3 | 21.5             | 22.0 | 22.9 |
| 8H   | 21.6             | 22.1 | 22.4 | 22.9 | 23.8           | 21.6           | 22.1 | 22.4             | 22.9 | 23.8 |
| 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 / - 0.4  |      |                  |      |      |

CIE Pub.117, 1325 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.0)  
 Area: 0.1444 m2

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-16

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:120.08V I:0.2590A P:28.408W PF:0.9127 Freq:60.00Hz Lamp Flux:1325.38x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-2700K   | DIM.:          | SERIAL No.:      |
| MFR.: ASD lighting Corp  | SUR.:0.38*0.38 | Shielding Angle: |

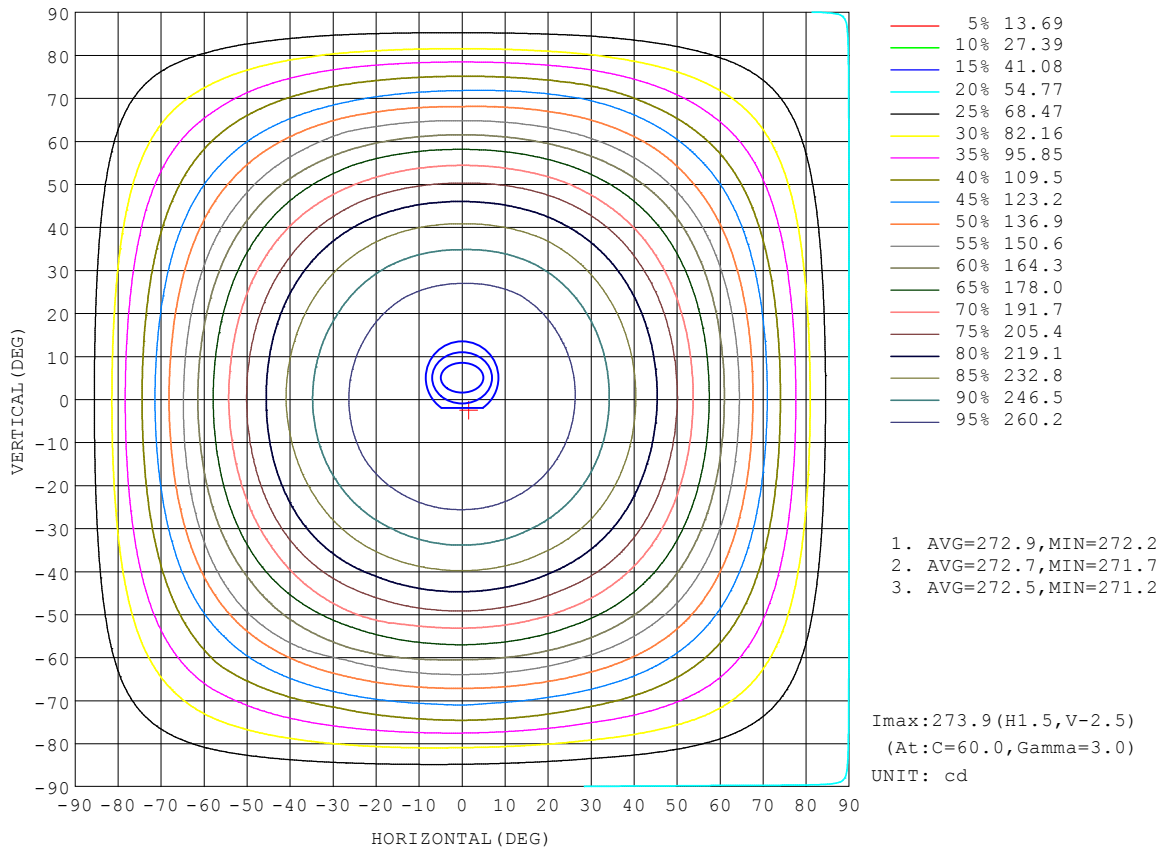
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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                         | 48   | 35  | 28        | 46  | 35  | 28  | 44            | 34  | 27  | 20     |
| 0.80                             | 57   | 44  | 36        | 55  | 43  | 36  | 52            | 42  | 35  | 27     |
| 1.00                             | 65   | 52  | 44        | 63  | 51  | 43  | 59            | 51  | 42  | 33     |
| 1.25                             | 72   | 60  | 51        | 69  | 58  | 50  | 65            | 55  | 48  | 38     |
| 1.50                             | 77   | 65  | 57        | 74  | 63  | 56  | 69            | 60  | 53  | 42     |
| 2.00                             | 84   | 74  | 66        | 81  | 71  | 64  | 75            | 67  | 61  | 49     |
| 2.50                             | 89   | 79  | 71        | 85  | 76  | 69  | 78            | 71  | 66  | 52     |
| 3.00                             | 93   | 84  | 77        | 89  | 81  | 74  | 82            | 75  | 70  | 56     |
| 4.00                             | 97   | 90  | 84        | 93  | 86  | 81  | 85            | 80  | 75  | 60     |
| 5.00                             | 100  | 94  | 88        | 96  | 90  | 85  | 88            | 83  | 79  | 63     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-16

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:120.08V I:0.2590A P:28.408W PF:0.9127 Freq:60.00Hz Lamp Flux:1325.38x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-2700K   | DIM.:          | SERIAL No.:      |
| MFR.: ASD lighting Corp  | SUR.:0.38*0.38 | Shielding Angle: |



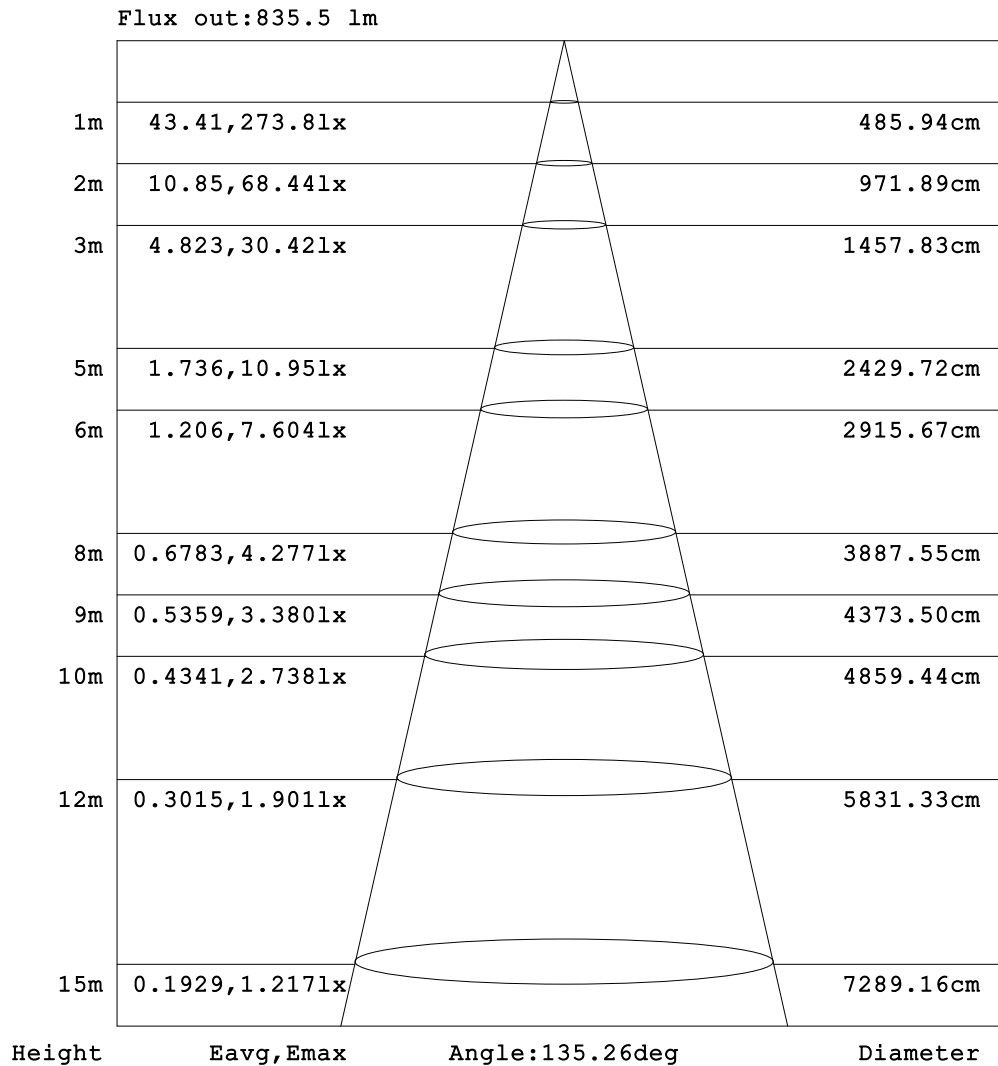
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-16

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:120.08V I:0.2590A P:28.408W PF:0.9127 Freq:60.00Hz Lamp Flux:1325.38x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-2700K   | DIM.:          | SERIAL No.:      |
| MFR.: ASD lighting Corp  | SUR.:0.38*0.38 | Shielding Angle: |



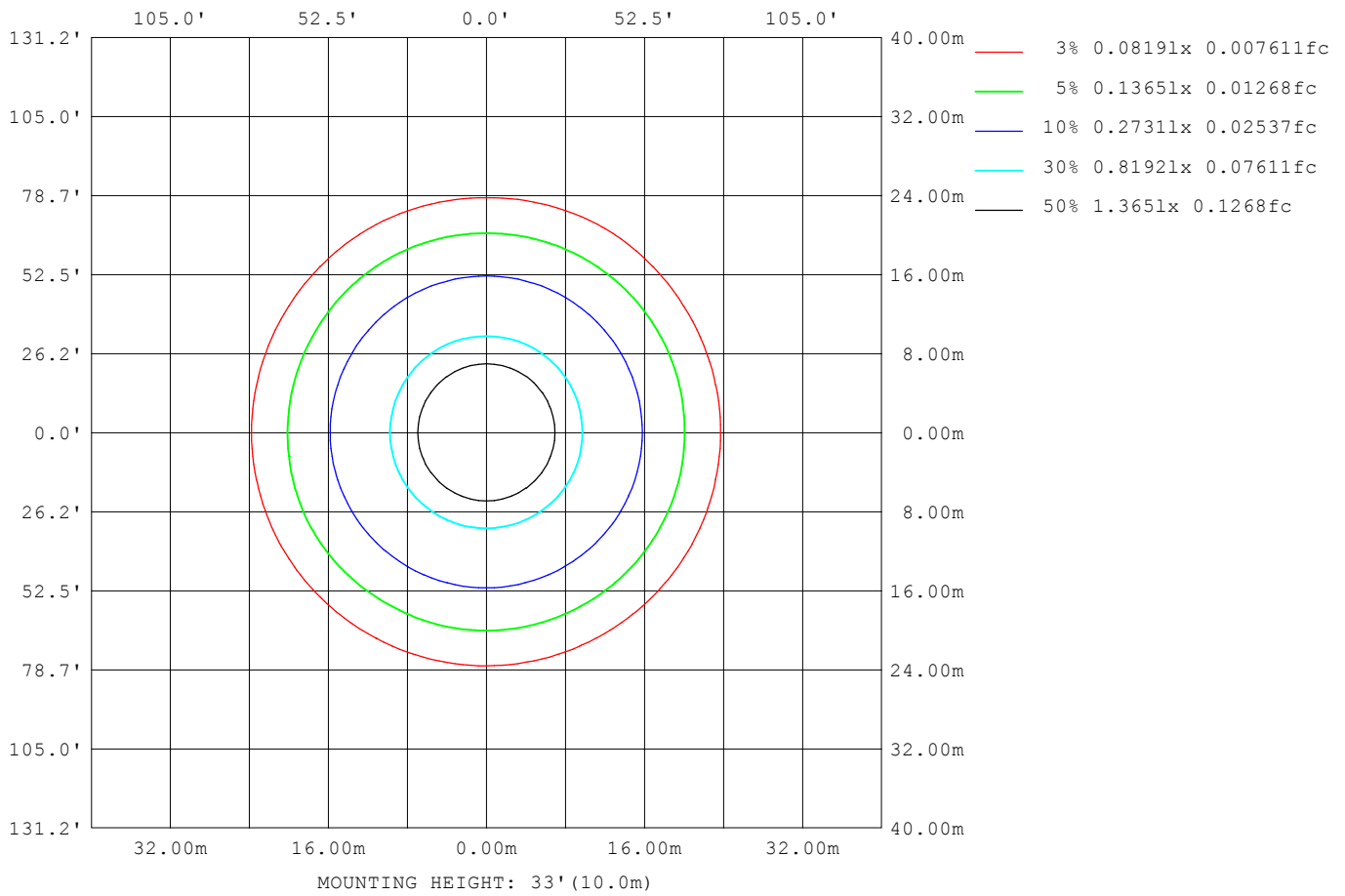
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-16

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:120.08V I:0.2590A P:28.408W PF:0.9127 Freq:60.00Hz Lamp Flux:1325.38x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-2700K   | DIM.:          | SERIAL No.:      |
| MFR.: ASD lighting Corp  | SUR.:0.38*0.38 | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-16

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:120.08V I:0.2590A P:28.408W PF:0.9127 Freq:60.00Hz Lamp Flux:1325.38x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-2700K   | DIM.:          | SERIAL No.:      |
| MFR.: ASD lighting Corp  | SUR.:0.38*0.38 | Shielding Angle: |

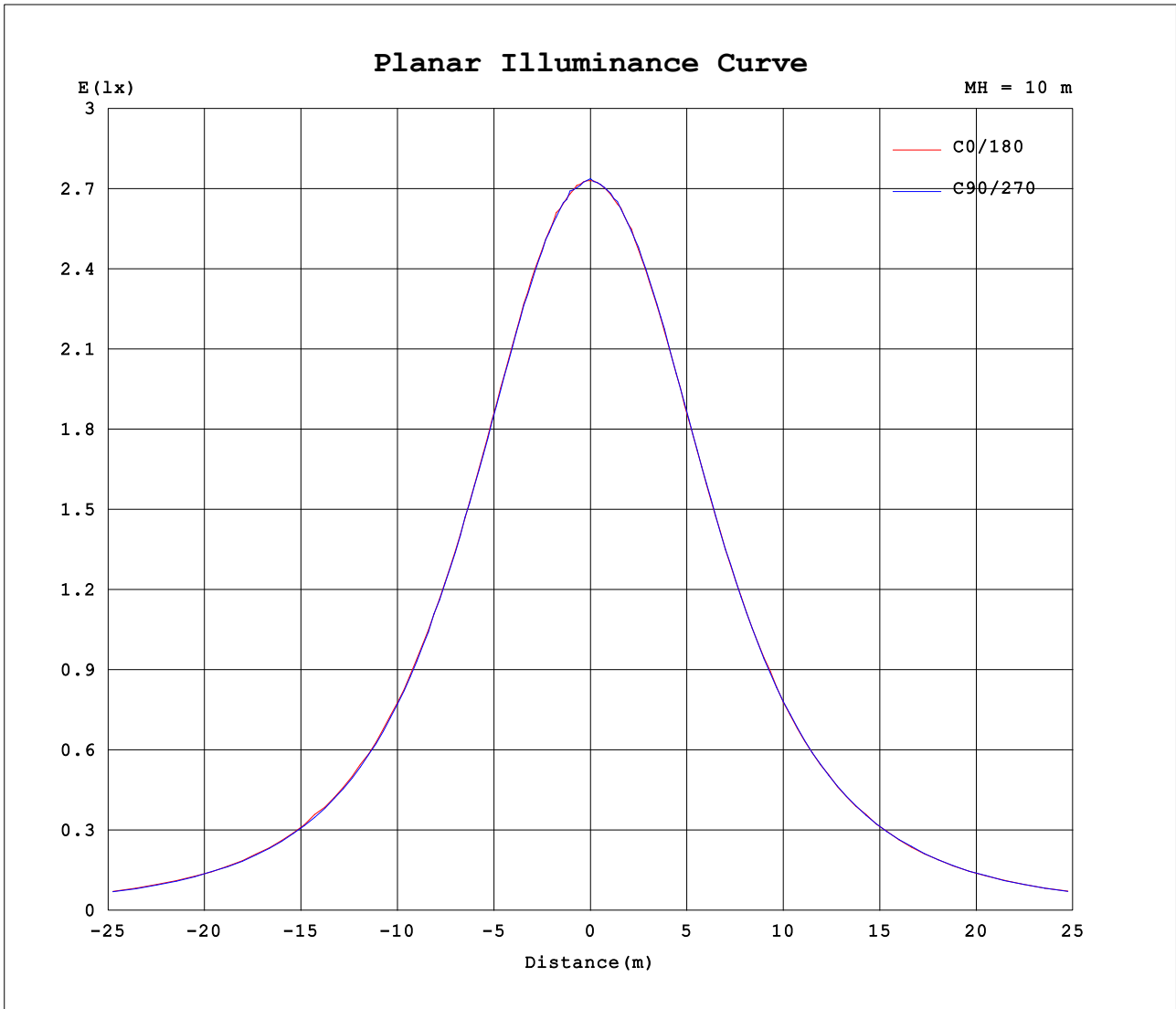
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 2449  |
| L_0~180 (75) av  | 2847  |
| L_0~180 (85) av  | 5441  |
| L_90~270 (65) av | 2419  |
| L_90~270 (75) av | 2897  |
| L_90~270 (85) av | 5447  |
| L_45 (65) av     | 2449  |
| L_45 (75) av     | 2876  |
| L_45 (85) av     | 5433  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-16

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: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:admin  
Test Date:2022-03-16

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:120.08V I:0.2590A P:28.408W PF:0.9127 Freq:60.00Hz Lamp Flux:1325.38x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-2700K   | DIM.:          | SERIAL No.:      |
| MFR.: ASD lighting Corp  | SUR.:0.38*0.38 | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG)<br>□ (DEG) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|
| 0                  | 273  | 273  | 274  | 274  | 274  | 274  | 273  | 273  | 274  | 274  | 274  | 274  |  |  |  |  |  |  |  |
| 5                  | 273  | 274  | 273  | 273  | 272  | 273  | 272  | 273  | 274  | 273  | 274  | 273  |  |  |  |  |  |  |  |
| 10                 | 273  | 273  | 272  | 272  | 273  | 272  | 272  | 272  | 272  | 272  | 273  | 272  |  |  |  |  |  |  |  |
| 15                 | 271  | 271  | 270  | 270  | 270  | 270  | 270  | 270  | 271  | 271  | 271  | 271  |  |  |  |  |  |  |  |
| 20                 | 267  | 267  | 266  | 266  | 267  | 267  | 267  | 268  | 267  | 268  | 268  | 267  |  |  |  |  |  |  |  |
| 25                 | 262  | 261  | 261  | 261  | 261  | 262  | 263  | 262  | 263  | 263  | 263  | 264  |  |  |  |  |  |  |  |
| 30                 | 255  | 255  | 254  | 254  | 254  | 256  | 256  | 255  | 256  | 256  | 256  | 255  |  |  |  |  |  |  |  |
| 35                 | 245  | 245  | 244  | 244  | 244  | 245  | 246  | 246  | 246  | 246  | 247  | 246  |  |  |  |  |  |  |  |
| 40                 | 234  | 233  | 232  | 232  | 233  | 233  | 235  | 236  | 235  | 235  | 235  | 234  |  |  |  |  |  |  |  |
| 45                 | 220  | 219  | 218  | 218  | 219  | 222  | 221  | 221  | 222  | 221  | 223  | 221  |  |  |  |  |  |  |  |
| 50                 | 206  | 203  | 202  | 202  | 203  | 205  | 206  | 206  | 207  | 206  | 208  | 206  |  |  |  |  |  |  |  |
| 55                 | 190  | 187  | 184  | 185  | 187  | 187  | 190  | 188  | 189  | 189  | 190  | 188  |  |  |  |  |  |  |  |
| 60                 | 170  | 167  | 167  | 167  | 168  | 169  | 169  | 170  | 170  | 170  | 174  | 170  |  |  |  |  |  |  |  |
| 65                 | 149  | 148  | 146  | 146  | 149  | 154  | 150  | 149  | 152  | 149  | 150  | 149  |  |  |  |  |  |  |  |
| 70                 | 127  | 126  | 127  | 125  | 130  | 130  | 129  | 130  | 131  | 130  | 130  | 129  |  |  |  |  |  |  |  |
| 75                 | 106  | 105  | 104  | 107  | 106  | 109  | 107  | 109  | 110  | 110  | 111  | 106  |  |  |  |  |  |  |  |
| 80                 | 86.9 | 84.8 | 84.9 | 86.0 | 87.6 | 88.1 | 88.1 | 87.2 | 88.3 | 89.8 | 88.1 | 86.2 |  |  |  |  |  |  |  |
| 85                 | 66.9 | 66.8 | 66.4 | 68.0 | 68.9 | 69.8 | 70.0 | 69.1 | 69.6 | 69.2 | 69.0 | 67.6 |  |  |  |  |  |  |  |
| 90                 | 54.7 | 54.5 | 54.7 | 56.1 | 56.9 | 57.4 | 57.3 | 56.2 | 56.2 | 55.7 | 55.6 | 54.9 |  |  |  |  |  |  |  |
| 95                 | 49.9 | 49.5 | 49.5 | 51.1 | 51.7 | 52.3 | 51.6 | 50.9 | 50.1 | 50.0 | 49.6 | 49.6 |  |  |  |  |  |  |  |
| 100                | 50.3 | 49.4 | 49.0 | 50.3 | 51.0 | 52.1 | 51.7 | 50.6 | 49.3 | 49.4 | 48.9 | 49.5 |  |  |  |  |  |  |  |
| 105                | 50.7 | 49.4 | 48.3 | 49.6 | 50.4 | 51.7 | 51.9 | 50.5 | 48.8 | 49.2 | 48.5 | 49.7 |  |  |  |  |  |  |  |
| 110                | 50.8 | 49.2 | 47.7 | 48.8 | 49.7 | 51.3 | 51.8 | 50.2 | 48.2 | 48.3 | 47.9 | 49.4 |  |  |  |  |  |  |  |
| 115                | 45.8 | 48.5 | 46.6 | 47.8 | 48.7 | 50.5 | 46.4 | 49.3 | 47.3 | 47.3 | 47.1 | 48.7 |  |  |  |  |  |  |  |
| 120                | 44.2 | 46.9 | 45.0 | 47.0 | 47.1 | 48.6 | 44.6 | 47.4 | 46.4 | 46.6 | 46.1 | 47.2 |  |  |  |  |  |  |  |
| 125                | 43.6 | 44.2 | 42.4 | 45.6 | 44.4 | 45.8 | 44.0 | 44.7 | 43.6 | 45.5 | 43.3 | 44.4 |  |  |  |  |  |  |  |
| 130                | 42.7 | 41.3 | 39.7 | 44.2 | 41.3 | 42.8 | 43.3 | 41.7 | 40.2 | 44.1 | 39.9 | 41.7 |  |  |  |  |  |  |  |
| 135                | 41.6 | 38.8 | 37.3 | 42.6 | 38.7 | 40.0 | 42.3 | 39.2 | 37.4 | 42.2 | 37.4 | 39.3 |  |  |  |  |  |  |  |
| 140                | 40.4 | 36.1 | 34.8 | 39.6 | 36.0 | 37.5 | 41.0 | 36.5 | 34.7 | 39.3 | 35.1 | 36.8 |  |  |  |  |  |  |  |
| 145                | 38.1 | 33.8 | 32.5 | 36.7 | 33.4 | 35.4 | 38.5 | 34.1 | 32.3 | 36.3 | 32.7 | 34.4 |  |  |  |  |  |  |  |
| 150                | 34.9 | 32.4 | 31.0 | 33.4 | 31.4 | 33.9 | 35.6 | 32.9 | 30.6 | 32.8 | 31.1 | 32.8 |  |  |  |  |  |  |  |
| 155                | 31.8 | 29.7 | 29.1 | 30.5 | 30.0 | 31.4 | 32.7 | 30.7 | 29.4 | 30.5 | 29.5 | 30.6 |  |  |  |  |  |  |  |
| 160                | 29.8 | 28.7 | 27.0 | 28.4 | 28.9 | 29.0 | 30.1 | 27.7 | 28.2 | 28.1 | 27.4 | 29.0 |  |  |  |  |  |  |  |
| 165                | 28.2 | 27.4 | 25.6 | 26.4 | 27.0 | 26.9 | 28.7 | 26.2 | 27.1 | 26.2 | 25.2 | 27.4 |  |  |  |  |  |  |  |
| 170                | 27.2 | 25.6 | 24.6 | 25.7 | 24.9 | 25.6 | 27.3 | 25.2 | 24.8 | 25.2 | 23.7 | 24.7 |  |  |  |  |  |  |  |
| 175                | 29.1 | 29.2 | 26.4 | 29.0 | 29.6 | 27.0 | 28.9 | 26.7 | 28.7 | 28.3 | 26.0 | 28.4 |  |  |  |  |  |  |  |
| 180                | 31.1 | 29.0 | 28.9 | 31.4 | 29.4 | 28.8 | 31.1 | 29.0 | 28.9 | 31.4 | 29.4 | 28.8 |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-16

□ 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: