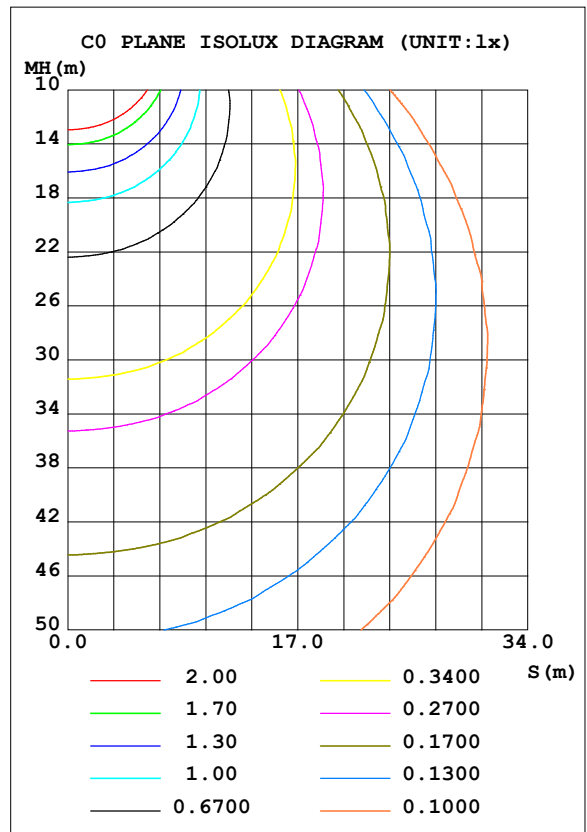
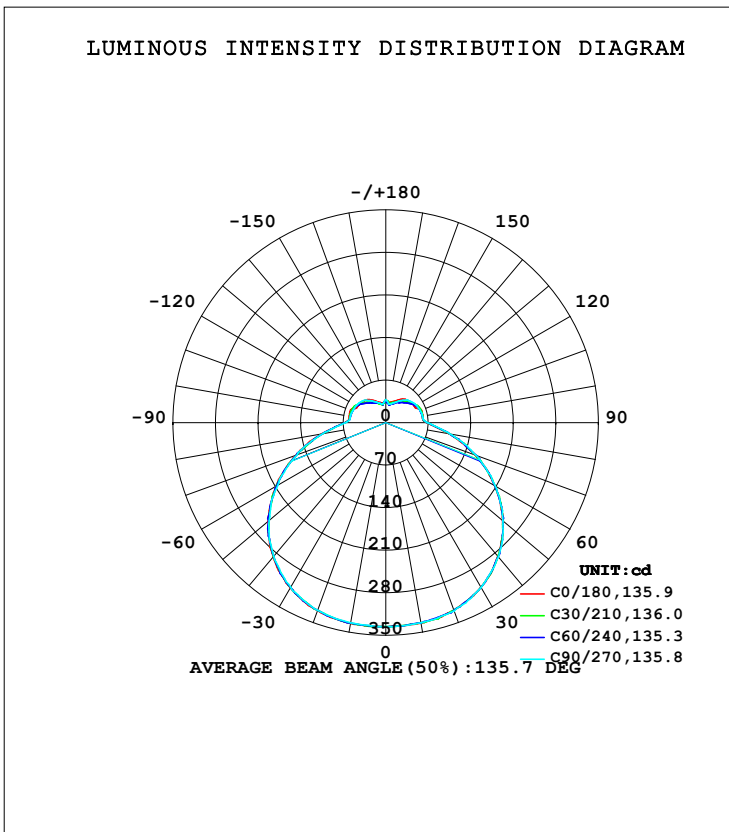


**LUMINAIRE PHOTOMETRIC TEST REPORT**

|  |                |                  |
|--|----------------|------------------|
| Test:U:120.33V I:0.2608A P:28.811W PF:0.9170 Freq:60.00Hz Lamp Flux:1623.05x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-4000K   | 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)        | 336.5   | S/MH (C0/180)       | 1.39       |
| NOMINAL POWER (W)           | --      | LOR (%)          | 100.0   | S/MH (C90/270)      | 1.38       |
| RATED VOLTAGE (V)           | --      | TOTAL FLUX (lm)  | 1623.0  | □ UP, DN (C0-180)   | 10.4, 39.8 |
| NOMINAL FLUX (lm)           | 1623.05 | CIE CLASS        | SEMI-D. | □ UP, DN (C180-360) | 10.1, 39.7 |
| LAMPS INSIDE                | 1       | □ up (%)         | 20.5    | CIBSE SHR NOM       | 1.50       |
| TEST VOLTAGE (V)            | --      | □ down (%)       | 79.5    | 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  | 334.8                 | 334.4 | 334.3 | 335.2 | 335.6 | 334.8 | 334.1 | 334.2 | 0- 10   | 31.99   | 31.99   | 1.97,1.97  |
| 20  | 328.3                 | 328.1 | 329.4 | 328.6 | 328.6 | 328.5 | 328.3 | 328.1 | 10- 20  | 94.08   | 126.1   | 7.77,7.77  |
| 30  | 312.8                 | 313.0 | 313.6 | 313.8 | 314.1 | 313.4 | 312.7 | 312.8 | 20- 30  | 148.7   | 274.8   | 16.9,16.9  |
| 40  | 287.0                 | 287.5 | 288.6 | 288.1 | 288.1 | 287.3 | 286.7 | 287.2 | 30- 40  | 188.9   | 463.7   | 28.6,28.6  |
| 50  | 251.1                 | 251.9 | 251.6 | 252.0 | 252.2 | 251.5 | 250.2 | 250.6 | 40- 50  | 209.1   | 672.7   | 41.4,41.4  |
| 60  | 206.7                 | 206.9 | 208.3 | 208.7 | 208.5 | 208.2 | 205.4 | 206.4 | 50- 60  | 206.1   | 878.8   | 54.1,54.1  |
| 70  | 156.7                 | 158.3 | 158.7 | 161.1 | 157.3 | 156.6 | 155.0 | 154.8 | 60- 70  | 180.9   | 1060    | 65.3,65.3  |
| 80  | 105.1                 | 106.0 | 106.9 | 107.5 | 107.9 | 105.6 | 105.0 | 104.1 | 70- 80  | 138.9   | 1199    | 73.9,73.9  |
| 90  | 67.22                 | 68.19 | 68.78 | 68.19 | 67.45 | 67.21 | 66.31 | 65.90 | 80- 90  | 91.90   | 1291    | 79.5,79.5  |
| 100 | 61.94                 | 61.53 | 61.67 | 61.10 | 61.05 | 59.81 | 59.33 | 59.03 | 90-100  | 67.72   | 1358    | 83.7,83.7  |
| 110 | 62.43                 | 60.83 | 60.14 | 60.62 | 61.76 | 59.10 | 58.18 | 58.44 | 100-110 | 63.93   | 1422    | 87.6,87.6  |
| 120 | 54.67                 | 57.72 | 58.18 | 57.63 | 53.86 | 56.36 | 56.41 | 56.04 | 110-120 | 57.95   | 1480    | 91.2,91.2  |
| 130 | 52.95                 | 50.80 | 54.16 | 50.21 | 52.01 | 49.62 | 53.71 | 49.55 | 120-130 | 48.43   | 1529    | 94.2,94.2  |
| 140 | 50.30                 | 44.45 | 48.29 | 43.95 | 49.34 | 43.31 | 48.37 | 43.93 | 130-140 | 37.63   | 1566    | 96.5,96.5  |
| 150 | 43.58                 | 39.54 | 40.71 | 39.18 | 42.55 | 38.65 | 40.59 | 39.40 | 140-150 | 26.91   | 1593    | 98.2,98.2  |
| 160 | 37.21                 | 34.27 | 34.45 | 34.81 | 36.01 | 33.82 | 34.93 | 35.24 | 150-160 | 17.39   | 1610    | 99.2,99.2  |
| 170 | 33.80                 | 30.71 | 31.16 | 30.30 | 32.79 | 30.07 | 31.29 | 30.38 | 160-170 | 9.379   | 1620    | 99.8,99.8  |
| 180 | 37.95                 | 35.35 | 38.27 | 35.60 | 37.97 | 35.32 | 38.23 | 35.60 | 170-180 | 3.174   | 1623    | 100,100    |
| DEG | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |         | UNIT:lm |         |            |

Conical surface Flux(90deg): 567.1 lm

%lum = 34.9%

%lamp = 34.9%

Conical surface Flux(120deg): 878.8 lm

%lum = 54.1%

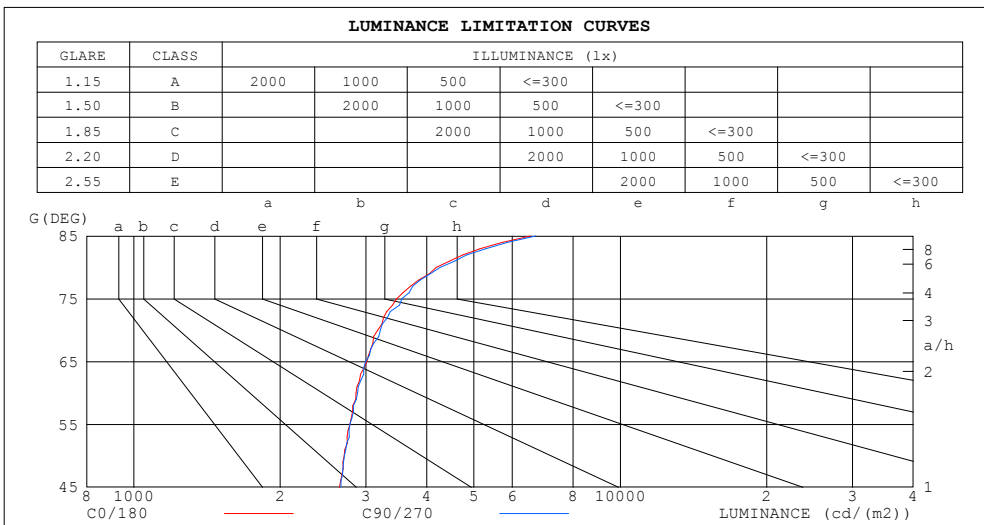
%lamp = 54.1%

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:120.33V I:0.2608A P:28.811W PF:0.9170 Freq:60.00Hz Lamp Flux:1623.05x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-4000K   | DIM.:          | SERIAL No.:      |
| MFR.: ASD lighting Corp  | SUR.:0.38*0.38 | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 6546   | 6698    |
| 80                | 4190   | 4263    |
| 75                | 3471   | 3557    |
| 70                | 3173   | 3212    |
| 65                | 3013   | 2998    |
| 60                | 2863   | 2884    |
| 55                | 2783   | 2782    |
| 50                | 2705   | 2711    |
| 45                | 2646   | 2665    |

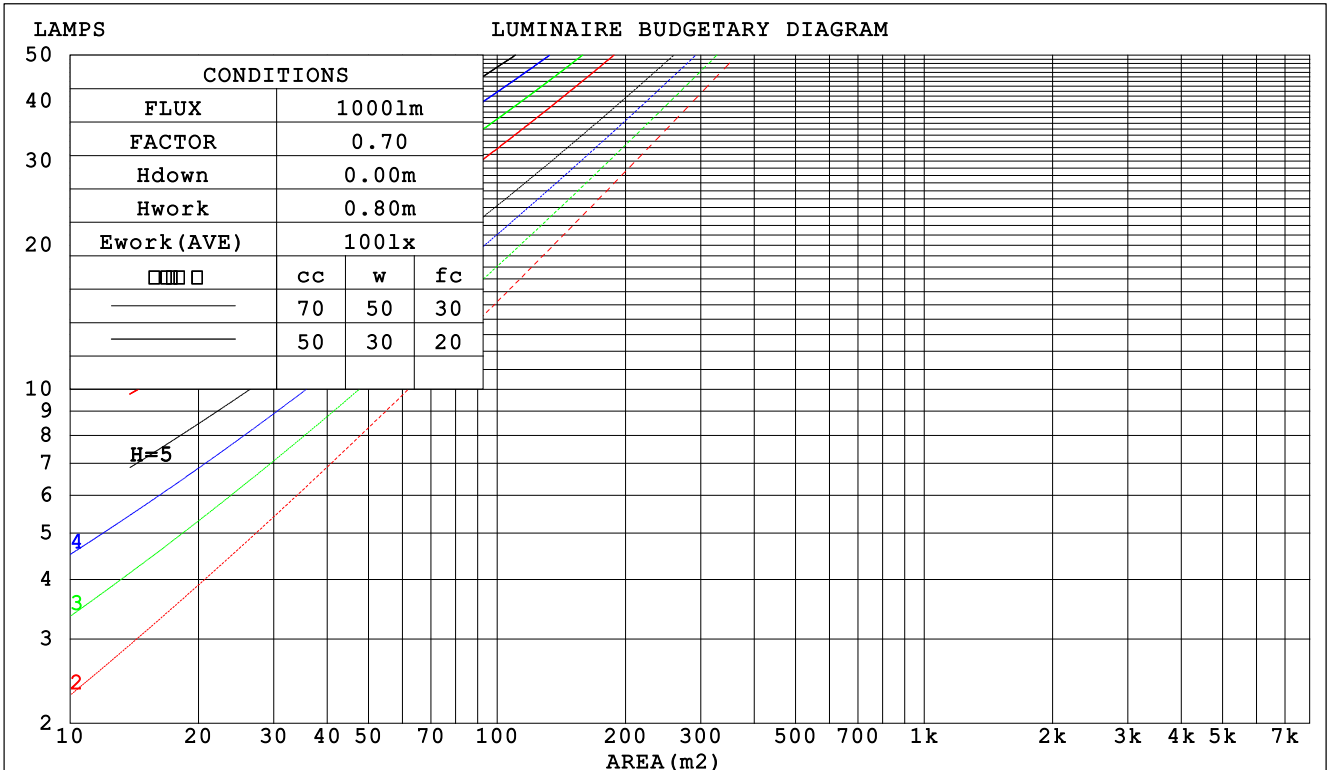
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-16

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:120.33V I:0.2608A P:28.811W PF:0.9170 Freq:60.00Hz Lamp Flux:1623.05x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-4000K   | 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 | .80 |
| 1.0  | .96                   | .91  | .87  | .92  | .87  | .83  | .84                             | .80 | .77 | .76 | .74 | .71 | .70 | .67 | .65 | .62 |
| 2.0  | .82                   | .75  | .69  | .79  | .72  | .66  | .72                             | .66 | .62 | .66 | .61 | .57 | .60 | .56 | .53 | .49 |
| 3.0  | .72                   | .63  | .56  | .68  | .60  | .54  | .63                             | .56 | .50 | .57 | .52 | .47 | .52 | .47 | .44 | .41 |
| 4.0  | .63                   | .54  | .47  | .60  | .52  | .45  | .55                             | .48 | .42 | .50 | .44 | .40 | .46 | .41 | .37 | .34 |
| 5.0  | .56                   | .46  | .40  | .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                             | .33 | .27 | .37 | .30 | .26 | .34 | .28 | .24 | .22 |
| 8.0  | .41                   | .32  | .26  | .39  | .31  | .26  | .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:120.33V I:0.2608A P:28.811W PF:0.9170 Freq:60.00Hz Lamp Flux:1623.05x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-4000K   | 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 .206 .065        | .349 .199 .063 | .324 .186 .059                   | .301 .174 .056 | .280 .162 .052 |   |
| 2.0                         | .321 .176 .054        | .308 .170 .052 | .286 .159 .049                   | .265 .149 .046 | .245 .139 .044 |   |
| 3.0                         | .288 .153 .046        | .277 .148 .045 | .256 .139 .042                   | .237 .130 .040 | .219 .122 .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 .022 |   |
| 9.0                         | .175 .085 .024        | .169 .082 .023 | .157 .077 .022                   | .145 .073 .021 | .135 .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                         | .347 .347 .347        | .296 .296 .296 | .202 .202 .202                              | .116 .116 .116 | .037 .037 .037 |   |
| 1.0                         | .341 .313 .288        | .292 .269 .247 | .200 .185 .171                              | .115 .107 .100 | .037 .034 .032 |   |
| 2.0                         | .335 .290 .253        | .287 .250 .219 | .196 .173 .153                              | .113 .101 .089 | .036 .033 .029 |   |
| 3.0                         | .327 .274 .231        | .281 .236 .200 | .193 .164 .141                              | .111 .096 .083 | .036 .031 .027 |   |
| 4.0                         | .320 .261 .217        | .274 .226 .188 | .189 .157 .133                              | .109 .092 .078 | .035 .030 .026 |   |
| 5.0                         | .312 .251 .207        | .268 .218 .180 | .185 .152 .127                              | .107 .089 .075 | .034 .029 .025 |   |
| 6.0                         | .305 .244 .199        | .262 .211 .174 | .181 .148 .123                              | .105 .087 .073 | .034 .028 .024 |   |
| 7.0                         | .298 .237 .194        | .256 .205 .169 | .177 .144 .120                              | .103 .085 .071 | .033 .028 .024 |   |
| 8.0                         | .292 .231 .190        | .251 .201 .166 | .174 .141 .118                              | .101 .083 .070 | .033 .027 .023 |   |
| 9.0                         | .285 .227 .187        | .246 .197 .163 | .170 .138 .116                              | .099 .082 .069 | .032 .027 .023 |   |
| 10.0                        | .280 .223 .185        | .241 .193 .161 | .167 .136 .114                              | .098 .080 .068 | .032 .026 .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:120.33V I:0.2608A P:28.811W PF:0.9170 Freq:60.00Hz Lamp Flux:1623.05x1 lm |                  |      |      |      |                |                |      |                  |      |      |
| NAME: ASD lighting Corp  |                  |      |      |      | TYPE:          |                |      | WEIGHT:          |      |      |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-4000K   |                  |      |      |      | 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  | 15.3             | 16.6 | 15.8 | 17.2 | 17.8           | 15.3           | 16.6 | 15.8             | 17.2 | 17.8 |
| 3H   | 17.4             | 18.6 | 18.0 | 19.2 | 19.8           | 17.4           | 18.6 | 18.0             | 19.2 | 19.8 |
| 4H   | 18.4             | 19.6 | 19.0 | 20.1 | 20.8           | 18.4           | 19.6 | 19.0             | 20.2 | 20.9 |
| 6H   | 19.4             | 20.5 | 20.1 | 21.1 | 21.8           | 19.5           | 20.6 | 20.1             | 21.2 | 21.9 |
| 8H   | 20.0             | 21.0 | 20.6 | 21.6 | 22.4           | 20.0           | 21.1 | 20.7             | 21.7 | 22.4 |
| 12H  | 20.6             | 21.6 | 21.2 | 22.2 | 22.9           | 20.6           | 21.7 | 21.3             | 22.3 | 23.0 |
| 4H 2H  | 16.0             | 17.2 | 16.6 | 17.7 | 18.4           | 16.0           | 17.2 | 16.6             | 17.8 | 18.4 |
| 3H   | 18.3             | 19.3 | 18.9 | 19.9 | 20.6           | 18.3           | 19.3 | 18.9             | 19.9 | 20.6 |
| 4H   | 19.5             | 20.4 | 20.1 | 21.0 | 21.8           | 19.5           | 20.4 | 20.1             | 21.1 | 21.8 |
| 6H   | 20.7             | 21.5 | 21.4 | 22.2 | 23.0           | 20.7           | 21.5 | 21.4             | 22.2 | 23.0 |
| 8H   | 21.3             | 22.1 | 22.0 | 22.8 | 23.6           | 21.4           | 22.1 | 22.1             | 22.8 | 23.6 |
| 12H  | 22.0             | 22.7 | 22.7 | 23.4 | 24.2           | 22.1           | 22.8 | 22.8             | 23.5 | 24.3 |
| 8H 4H  | 19.9             | 20.7 | 20.6 | 21.4 | 22.2           | 19.9           | 20.7 | 20.6             | 21.4 | 22.2 |
| 6H   | 21.4             | 22.0 | 22.1 | 22.7 | 23.6           | 21.4           | 22.1 | 22.1             | 22.8 | 23.6 |
| 8H   | 22.2             | 22.7 | 22.9 | 23.5 | 24.3           | 22.2           | 22.8 | 23.0             | 23.5 | 24.4 |
| 12H  | 23.1             | 23.6 | 23.8 | 24.3 | 25.2           | 23.1           | 23.6 | 23.9             | 24.4 | 25.3 |
| 12H 4H   | 20.0             | 20.7 | 20.7 | 21.4 | 22.2           | 20.0           | 20.7 | 20.7             | 21.4 | 22.2 |
| 6H   | 21.6             | 22.1 | 22.3 | 22.9 | 23.7           | 21.6           | 22.2 | 22.3             | 22.9 | 23.8 |
| 8H   | 22.4             | 22.9 | 23.2 | 23.7 | 24.6           | 22.5           | 23.0 | 23.2             | 23.7 | 24.6 |
| 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 / - 0.2  |      |                  |      |      |
| 2.0H   | + 0.2 / - 0.3    |      |      |      |                | + 0.2 / - 0.4  |      |                  |      |      |

CIE Pub.117, 1623 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.7)  
 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:120.33V I:0.2608A P:28.811W PF:0.9170 Freq:60.00Hz Lamp Flux:1623.05x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-4000K   | DIM.:          | SERIAL No.:      |
| MFR.: ASD lighting Corp  | SUR.:0.38*0.38 | Shielding Angle: |

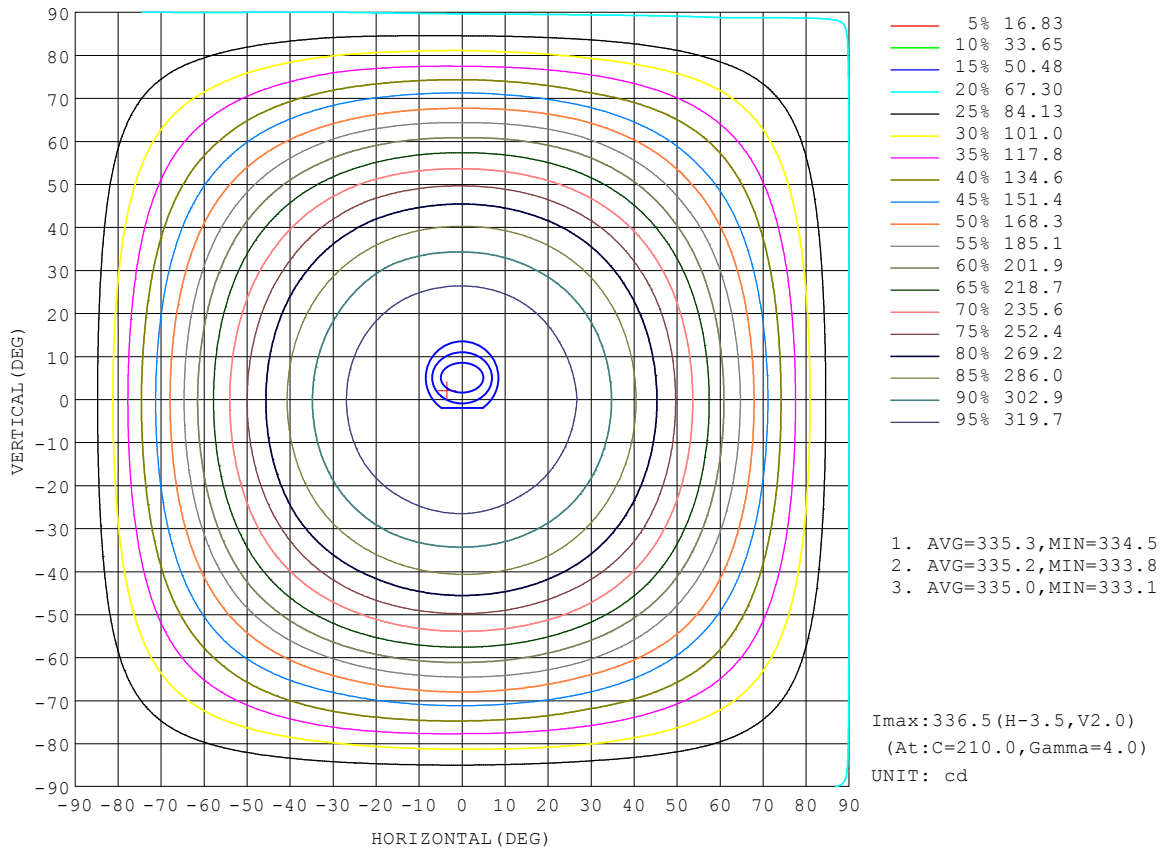
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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  | 72        | 85  | 77  | 70  | 79            | 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  | 76  | 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:120.33V I:0.2608A P:28.811W PF:0.9170 Freq:60.00Hz Lamp Flux:1623.05x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-4000K   | DIM.:          | SERIAL No.:      |
| MFR.: ASD lighting Corp  | SUR.:0.38*0.38 | Shielding Angle: |



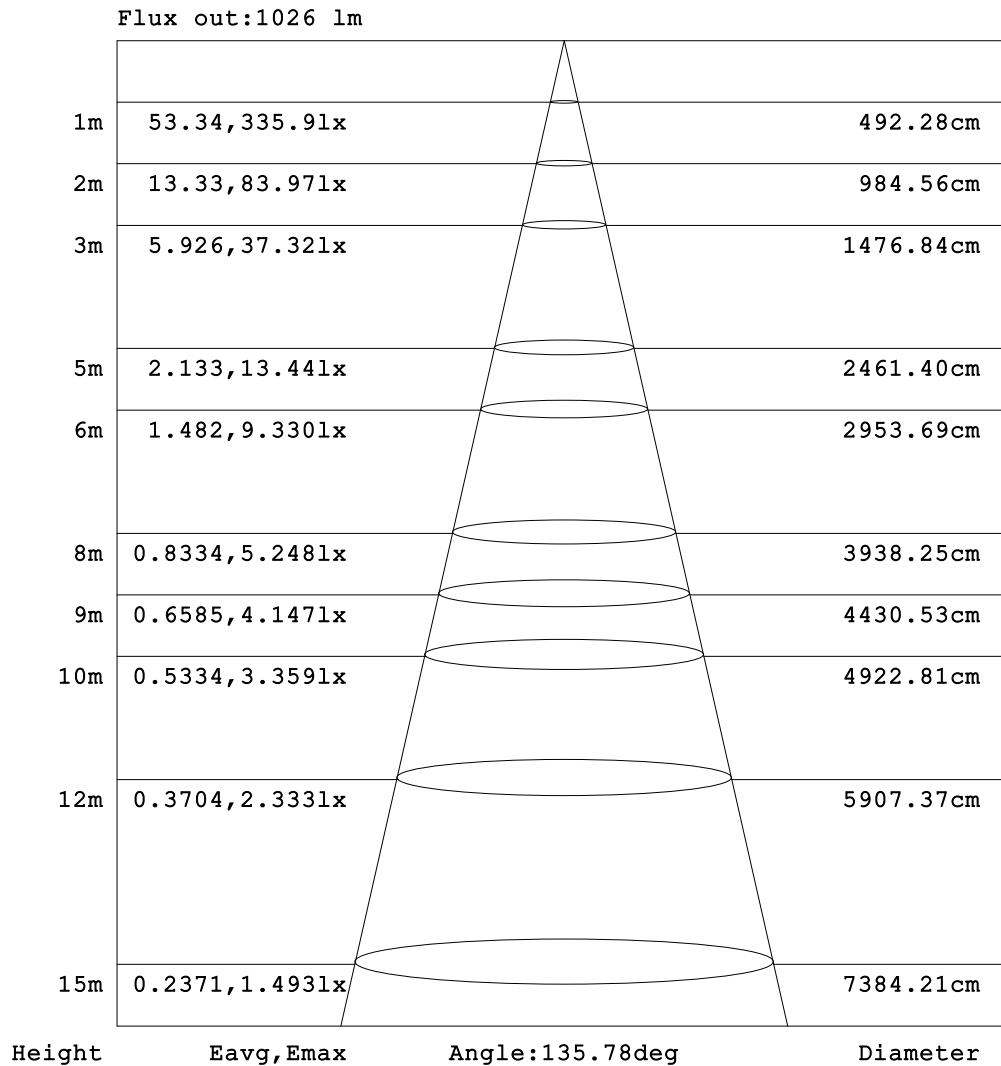
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:admin  
 Test Date:2022-03-16

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:120.33V I:0.2608A P:28.811W PF:0.9170 Freq:60.00Hz Lamp Flux:1623.05x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-4000K   | DIM.:          | SERIAL No.:      |
| MFR.: ASD lighting Corp  | SUR.:0.38*0.38 | Shielding Angle: |



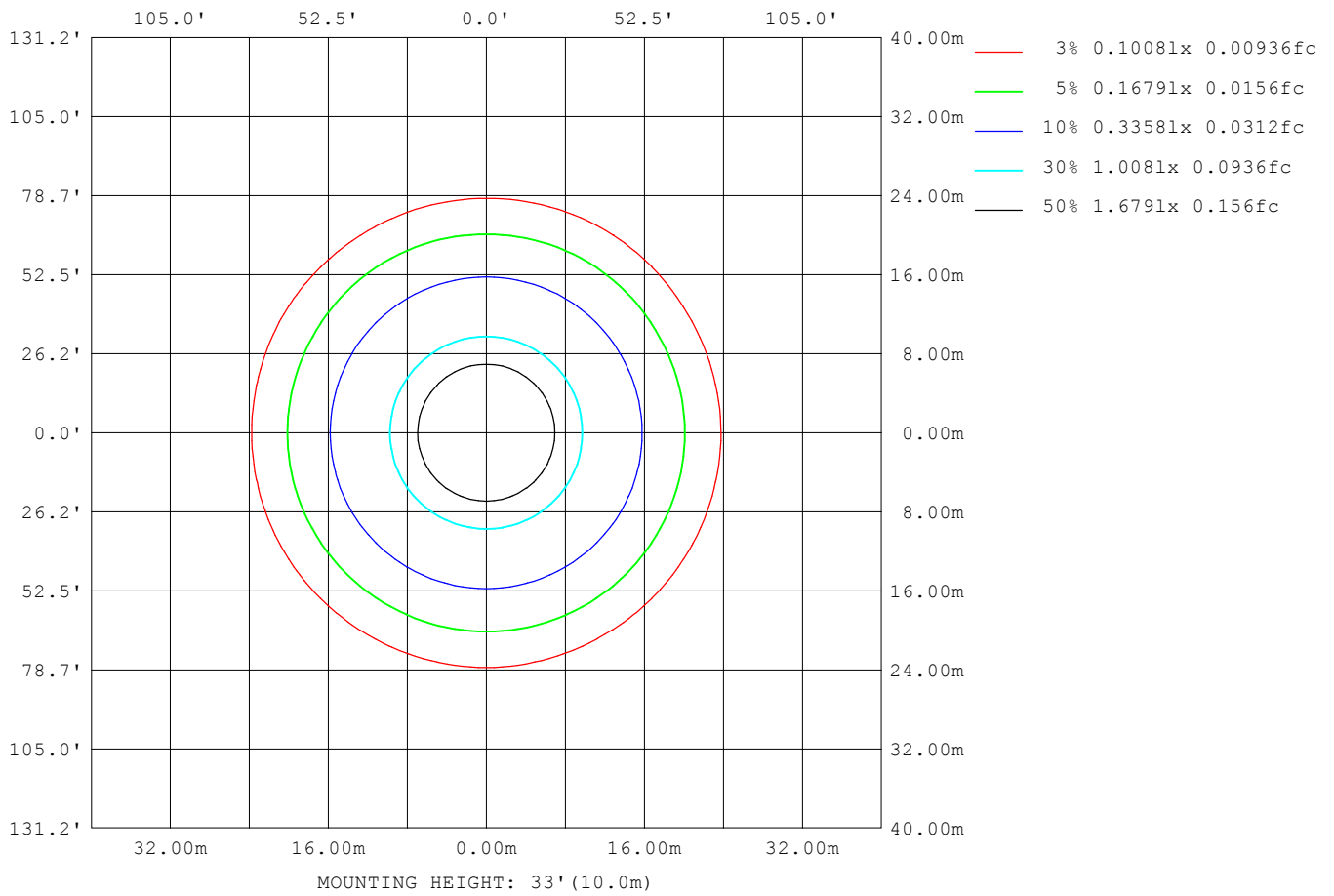
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.33V I:0.2608A P:28.811W PF:0.9170 Freq:60.00Hz Lamp Flux:1623.05x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-4000K   | 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:120.33V I:0.2608A P:28.811W PF:0.9170 Freq:60.00Hz Lamp Flux:1623.05x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-4000K   | DIM.:          | SERIAL No.:      |
| MFR.: ASD lighting Corp  | SUR.:0.38*0.38 | Shielding Angle: |

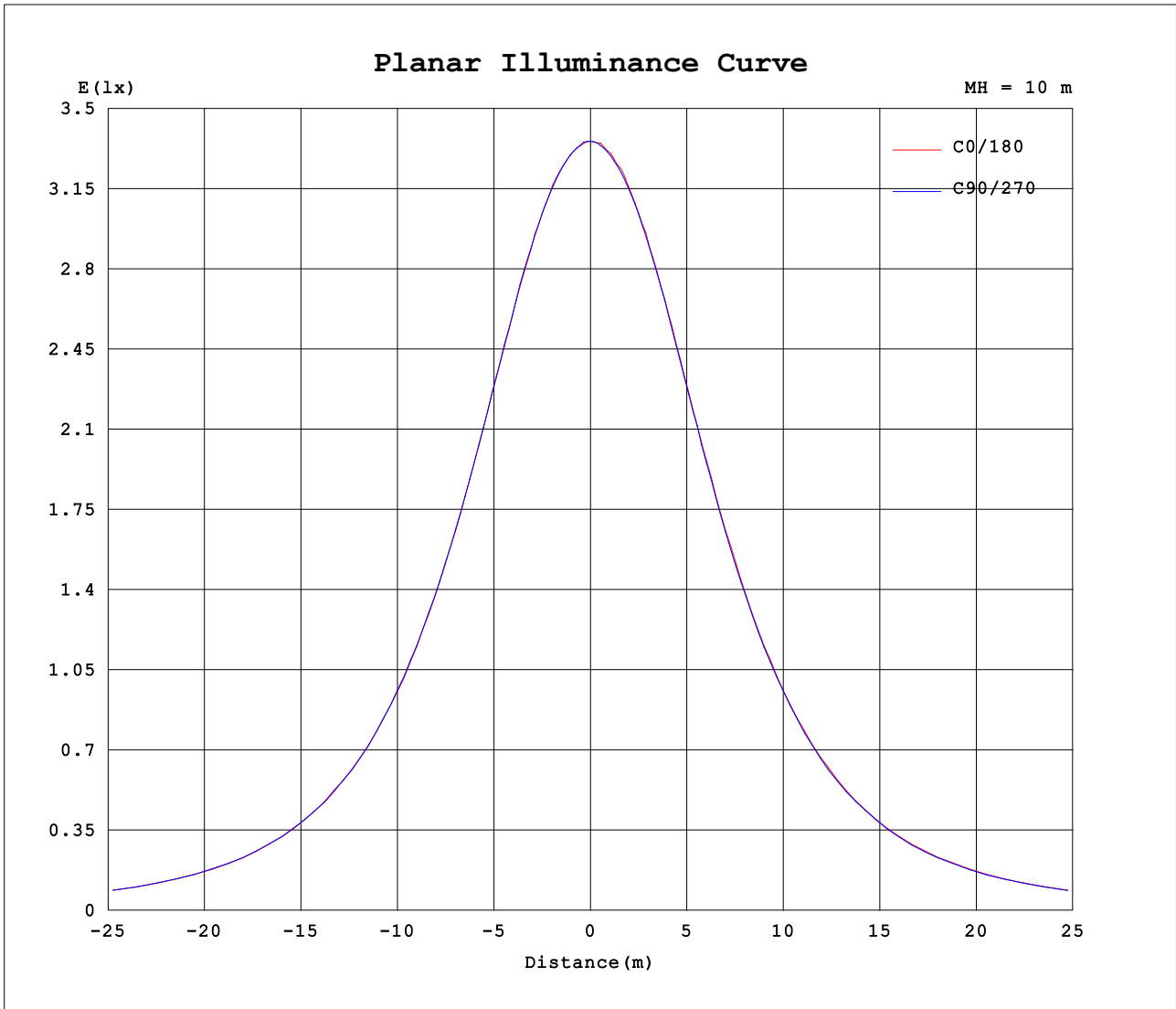
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 3007  |
| L_0~180 (75) av  | 3519  |
| L_0~180 (85) av  | 6578  |
| L_90~270 (65) av | 2992  |
| L_90~270 (75) av | 3514  |
| L_90~270 (85) av | 6611  |
| L_45 (65) av     | 2999  |
| L_45 (75) av     | 3510  |
| L_45 (85) av     | 6602  |

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:120.33V I:0.2608A P:28.811W PF:0.9170 Freq:60.00Hz Lamp Flux:1623.05x1 lm |                |                  |
| NAME: ASD lighting Corp  | TYPE:          | WEIGHT:          |
| SPEC.:ASD-LFC-LF-16D28-AC-BK-4000K   | 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                  | 336  | 336  | 336  | 336  | 336  | 336  | 336  | 336  | 336  | 336  | 336  | 336  |  |  |  |  |  |  |  |
| 5                  | 335  | 335  | 336  | 335  | 335  | 335  | 336  | 336  | 335  | 335  | 335  | 335  |  |  |  |  |  |  |  |
| 10                 | 335  | 334  | 335  | 334  | 336  | 334  | 336  | 335  | 335  | 334  | 334  | 334  |  |  |  |  |  |  |  |
| 15                 | 333  | 334  | 332  | 332  | 333  | 333  | 333  | 333  | 333  | 332  | 332  | 332  |  |  |  |  |  |  |  |
| 20                 | 328  | 328  | 328  | 329  | 329  | 329  | 329  | 328  | 329  | 328  | 328  | 328  |  |  |  |  |  |  |  |
| 25                 | 322  | 321  | 321  | 322  | 322  | 323  | 323  | 322  | 323  | 322  | 322  | 321  |  |  |  |  |  |  |  |
| 30                 | 313  | 313  | 313  | 314  | 314  | 314  | 314  | 313  | 313  | 313  | 313  | 313  |  |  |  |  |  |  |  |
| 35                 | 302  | 302  | 302  | 301  | 303  | 303  | 302  | 302  | 303  | 301  | 301  | 302  |  |  |  |  |  |  |  |
| 40                 | 287  | 287  | 288  | 289  | 288  | 288  | 288  | 288  | 287  | 287  | 287  | 287  |  |  |  |  |  |  |  |
| 45                 | 270  | 271  | 272  | 272  | 271  | 273  | 271  | 271  | 270  | 271  | 270  | 269  |  |  |  |  |  |  |  |
| 50                 | 251  | 253  | 251  | 252  | 252  | 252  | 252  | 251  | 252  | 250  | 250  | 251  |  |  |  |  |  |  |  |
| 55                 | 231  | 232  | 230  | 230  | 231  | 231  | 231  | 230  | 231  | 230  | 230  | 229  |  |  |  |  |  |  |  |
| 60                 | 207  | 207  | 207  | 208  | 208  | 209  | 209  | 209  | 208  | 205  | 208  | 205  |  |  |  |  |  |  |  |
| 65                 | 184  | 183  | 183  | 183  | 183  | 184  | 183  | 183  | 184  | 182  | 183  | 180  |  |  |  |  |  |  |  |
| 70                 | 157  | 157  | 159  | 159  | 160  | 162  | 157  | 157  | 157  | 155  | 156  | 154  |  |  |  |  |  |  |  |
| 75                 | 130  | 134  | 132  | 133  | 134  | 133  | 133  | 130  | 130  | 130  | 130  | 128  |  |  |  |  |  |  |  |
| 80                 | 105  | 106  | 106  | 107  | 108  | 107  | 108  | 105  | 106  | 105  | 104  | 104  |  |  |  |  |  |  |  |
| 85                 | 82.4 | 83.5 | 83.5 | 84.3 | 84.2 | 83.6 | 83.2 | 83.1 | 83.8 | 82.1 | 81.9 | 81.1 |  |  |  |  |  |  |  |
| 90                 | 67.2 | 68.0 | 68.4 | 68.8 | 68.3 | 68.1 | 67.4 | 67.2 | 67.2 | 66.3 | 65.9 | 65.8 |  |  |  |  |  |  |  |
| 95                 | 61.4 | 61.7 | 61.8 | 62.1 | 61.6 | 61.4 | 60.8 | 60.7 | 60.2 | 59.9 | 59.2 | 59.6 |  |  |  |  |  |  |  |
| 100                | 61.9 | 61.8 | 61.3 | 61.7 | 60.9 | 61.3 | 61.0 | 60.3 | 59.3 | 59.3 | 58.4 | 59.7 |  |  |  |  |  |  |  |
| 105                | 62.4 | 62.0 | 60.7 | 61.3 | 60.5 | 61.6 | 61.6 | 60.4 | 58.7 | 59.0 | 58.0 | 59.8 |  |  |  |  |  |  |  |
| 110                | 62.4 | 61.7 | 60.0 | 60.1 | 59.9 | 61.4 | 61.8 | 60.1 | 58.0 | 58.2 | 57.3 | 59.6 |  |  |  |  |  |  |  |
| 115                | 56.7 | 60.8 | 58.7 | 59.0 | 59.1 | 60.4 | 55.8 | 59.3 | 56.9 | 57.1 | 56.4 | 58.9 |  |  |  |  |  |  |  |
| 120                | 54.7 | 58.6 | 56.8 | 58.2 | 57.3 | 58.0 | 53.9 | 57.2 | 55.6 | 56.4 | 55.0 | 57.1 |  |  |  |  |  |  |  |
| 125                | 54.0 | 55.3 | 53.5 | 56.4 | 53.6 | 54.6 | 53.1 | 53.9 | 52.6 | 55.2 | 51.9 | 54.1 |  |  |  |  |  |  |  |
| 130                | 53.0 | 51.9 | 49.7 | 54.2 | 49.4 | 51.1 | 52.0 | 50.4 | 48.9 | 53.7 | 48.3 | 50.8 |  |  |  |  |  |  |  |
| 135                | 51.7 | 48.8 | 46.5 | 52.3 | 46.2 | 47.8 | 50.9 | 47.4 | 45.8 | 51.8 | 45.6 | 48.0 |  |  |  |  |  |  |  |
| 140                | 50.3 | 45.5 | 43.4 | 48.3 | 43.1 | 44.8 | 49.3 | 44.1 | 42.5 | 48.4 | 42.9 | 45.0 |  |  |  |  |  |  |  |
| 145                | 47.5 | 42.8 | 40.4 | 44.7 | 40.1 | 42.2 | 46.3 | 41.1 | 39.8 | 44.6 | 40.1 | 42.3 |  |  |  |  |  |  |  |
| 150                | 43.6 | 40.7 | 38.4 | 40.7 | 37.7 | 40.6 | 42.5 | 39.8 | 37.5 | 40.6 | 38.2 | 40.6 |  |  |  |  |  |  |  |
| 155                | 39.7 | 36.9 | 35.8 | 37.0 | 36.2 | 37.5 | 39.2 | 36.8 | 36.2 | 37.8 | 36.6 | 38.2 |  |  |  |  |  |  |  |
| 160                | 37.2 | 35.5 | 33.0 | 34.5 | 34.9 | 34.7 | 36.0 | 33.2 | 34.5 | 34.9 | 34.3 | 36.1 |  |  |  |  |  |  |  |
| 165                | 35.1 | 33.8 | 31.3 | 32.0 | 32.6 | 32.1 | 34.4 | 31.4 | 33.0 | 32.5 | 31.9 | 34.3 |  |  |  |  |  |  |  |
| 170                | 33.8 | 31.5 | 30.0 | 31.2 | 29.9 | 30.7 | 32.8 | 30.1 | 30.1 | 31.3 | 29.6 | 31.2 |  |  |  |  |  |  |  |
| 175                | 35.8 | 35.8 | 32.3 | 35.4 | 35.8 | 32.7 | 35.0 | 32.3 | 34.9 | 34.6 | 32.2 | 35.3 |  |  |  |  |  |  |  |
| 180                | 38.0 | 35.4 | 35.3 | 38.3 | 35.8 | 35.4 | 38.0 | 35.4 | 35.2 | 38.2 | 35.7 | 35.5 |  |  |  |  |  |  |  |

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: