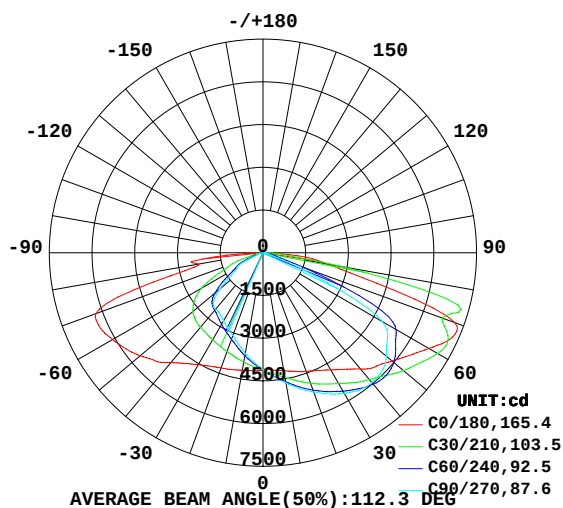


## LUMINAIRE PHOTOMETRIC TEST REPORT

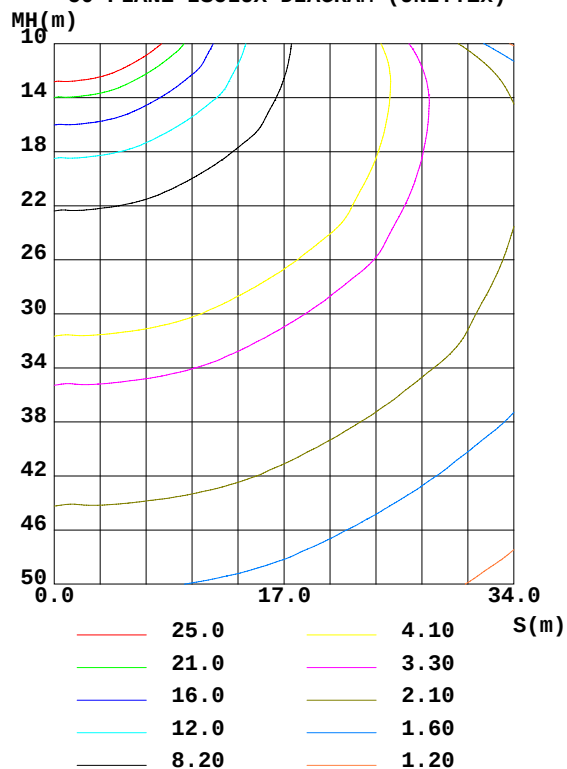
|                                                                              |           |                  |
|------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.00V I:1.2568A P:150.63W PF:0.9988 Freq:60.00Hz Lamp Flux:19800 lm |           |                  |
| NAME: ASD Lighting Corp                                                      | TYPE: LED | WEIGHT:          |
| SPEC.: ASD-LSB2-150D50-BK                                                    | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                      | SUR.:     | Shielding Angle: |

| DATA OF LAMP     |                    | PHOTOMETRIC DATA Eff: 134.87 lm/W |        |                    |           |
|------------------|--------------------|-----------------------------------|--------|--------------------|-----------|
| MODEL            | ASD-LSB2-150D50-BK | I <sub>max</sub> (cd)             | 8769   | S/MH(C0/180)       | 1.87      |
| NOMINAL POWER(W) | 150                | LOR(%)                            | 100.0  | S/MH(C90/270)      | 1.00      |
| RATED VOLTAGE(V) | 120-277            | TOTAL FLUX(lm)                    | 19800  | η UP, DN(C0-180)   | 0.1, 65.9 |
| NOMINAL FLUX(lm) | 19800              | CIE CLASS                         | DIRECT | η UP, DN(C180-360) | 0.1, 34.0 |
| LAMPS INSIDE     | 1                  | η up(%)                           | 0.2    | CIBSE SHR NOM      | 1.75      |
| TEST VOLTAGE(V)  | 120                | η down(%)                         | 99.8   | CIBSE SHR MAX      | 1.75      |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 17 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 52.3%  
 Test Distance: 2.500m [K=1.0469]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45    | C90    | C135  | C180  | C225  | C270   | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|-------|-------|-------|--------|-------|----------|-------------|--------------|------------|
| 10       | 4205                  | 4534   | 4642   | 4475  | 4195  | 3773  | 3590   | 3761  | 0- 10    | 393.9       | 393.9        | 1.94, 1.94 |
| 20       | 4441                  | 5024   | 5204   | 4898  | 4308  | 3427  | 3096   | 3446  | 10- 20   | 1186        | 1580         | 7.78, 7.78 |
| 30       | 4749                  | 5500   | 5699   | 5316  | 4537  | 3133  | 2769   | 3177  | 20- 30   | 1984        | 3564         | 17.5, 17.5 |
| 40       | 5331                  | 5953   | 5947   | 5779  | 5038  | 2880  | 2593   | 2976  | 30- 40   | 2795        | 6359         | 31.3, 31.3 |
| 50       | 5915                  | 6335   | 5649   | 6281  | 5632  | 2492  | 1969   | 2591  | 40- 50   | 3572        | 9931         | 48.9, 48.9 |
| 60       | 6724                  | 6111   | 4838   | 6156  | 6096  | 1490  | 1062   | 1633  | 50- 60   | 3999        | 13930        | 68.6, 68.6 |
| 70       | 7159                  | 4447   | 717.4  | 4814  | 6245  | 615.9 | 245.4  | 709.7 | 60- 70   | 3790        | 17721        | 87.2, 87.2 |
| 80       | 2300                  | 481.1  | 188.9  | 551.1 | 2307  | 151.2 | 120.3  | 148.8 | 70- 80   | 2138        | 19858        | 97.7, 97.7 |
| 90       | 90.45                 | 39.90  | 32.01  | 38.13 | 57.57 | 5.361 | 0.8533 | 5.933 | 80- 90   | 424.3       | 20283        | 99.8, 99.8 |
| 100      | 2.650                 | 0.7722 | 0.4638 | 1.202 | 5.786 | 4.178 | 2.275  | 4.673 | 90-100   | 12.04       | 20295        | 99.9, 99.9 |
| 110      | 3.273                 | 1.074  | 0.6896 | 1.847 | 5.723 | 4.845 | 3.423  | 4.870 | 100-110  | 3.184       | 20298        | 99.9, 99.9 |
| 120      | 3.925                 | 1.507  | 1.156  | 2.326 | 5.373 | 5.206 | 4.431  | 5.136 | 110-120  | 3.358       | 20301        | 99.9, 99.9 |
| 130      | 4.682                 | 2.050  | 1.761  | 2.661 | 5.809 | 6.407 | 5.889  | 6.299 | 120-130  | 3.637       | 20305        | 99.9, 99.9 |
| 140      | 4.451                 | 2.690  | 2.517  | 3.228 | 5.857 | 6.776 | 6.893  | 6.545 | 130-140  | 3.649       | 20308        | 100, 100   |
| 150      | 4.026                 | 3.283  | 3.359  | 3.577 | 5.922 | 6.913 | 7.410  | 6.682 | 140-150  | 3.143       | 20312        | 100, 100   |
| 160      | 4.320                 | 4.000  | 4.376  | 4.267 | 6.212 | 6.823 | 7.590  | 7.072 | 150-160  | 2.483       | 20314        | 100, 100   |
| 170      | 4.804                 | 4.835  | 5.332  | 5.057 | 6.098 | 6.215 | 6.667  | 6.671 | 160-170  | 1.602       | 20316        | 100, 100   |
| 180      | 5.836                 | 5.836  | 5.836  | 5.836 | 5.902 | 5.902 | 5.902  | 5.902 | 170-180  | 0.5502      | 20316        | 100, 100   |
| DEG      | LUMINOUS INTENSITY:cd |        |        |       |       |       |        |       |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 8063.3 lm

%lum = 39.7%

%lamp = 39.7%

Conical surface Flux(120deg): 13930 lm

%lum = 68.6%

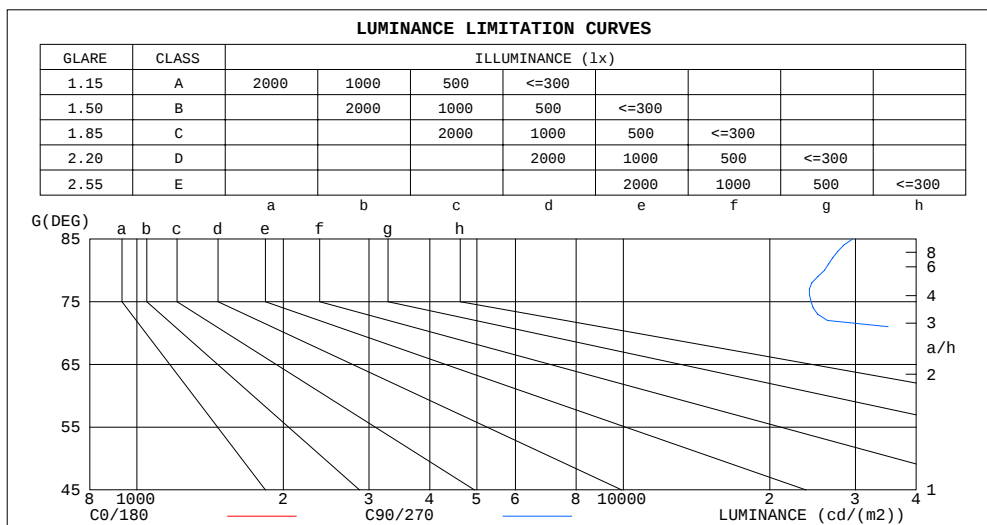
%lamp = 68.6%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 17 July 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 52.3%  
 Test Distance: 2.500m [K=1.0469]  
 Remarks:

## LUMINANCE LIMITATION CURVES

|                                                                              |           |                  |
|------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.00V I:1.2568A P:150.63W PF:0.9988 Freq:60.00Hz Lamp Flux:19800 lm |           |                  |
| NAME: ASD Lighting Corp                                                      | TYPE: LED | WEIGHT:          |
| SPEC.: ASD-LSB2-150D50-BK                                                    | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                      | SUR.:     | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 335778 | 29590   |
| 80                | 315303 | 25907   |
| 75                | 379658 | 24332   |
| 70                | 498348 | 49942   |
| 65                | 406872 | 141879  |
| 60                | 320176 | 230361  |
| 55                | 260803 | 221366  |
| 50                | 219091 | 209261  |
| 45                | 189617 | 198490  |

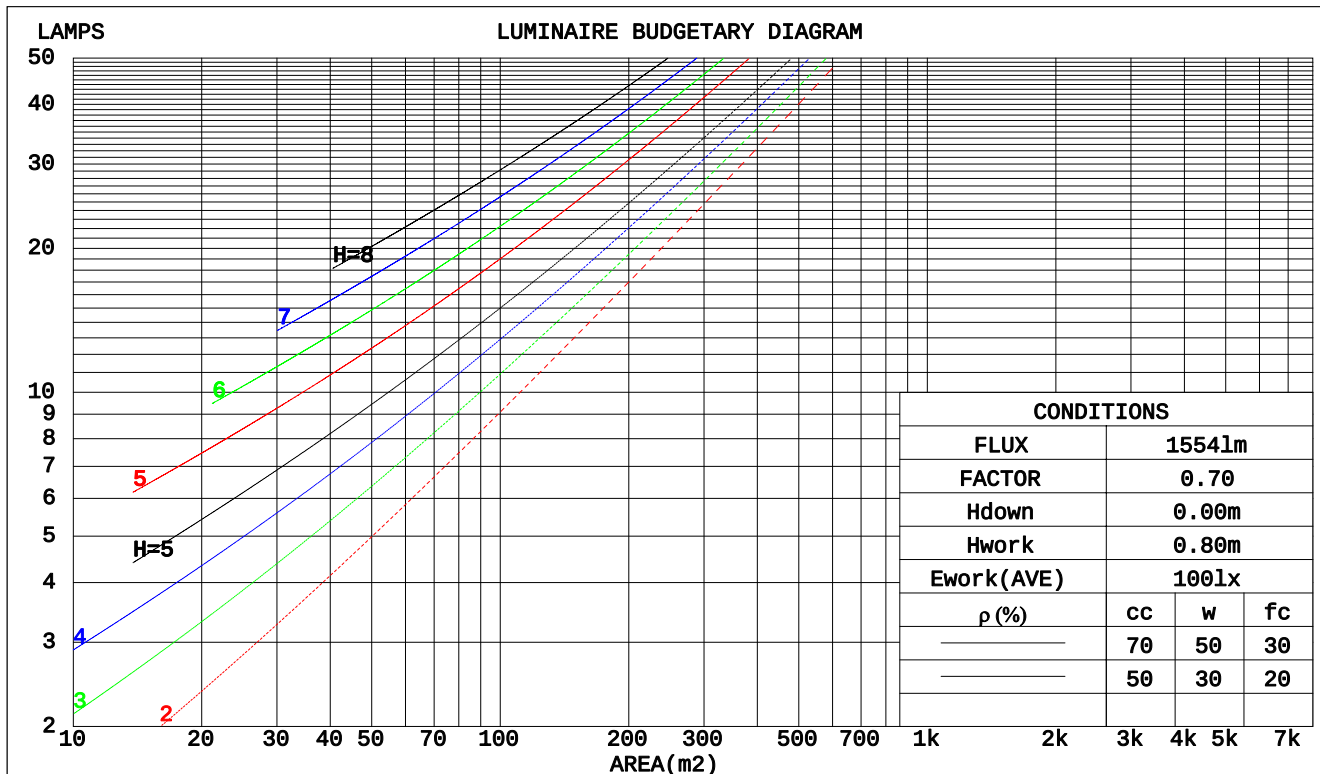
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 17 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 52.3%  
 Test Distance: 2.500m [K=1.0469]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                              |           |                  |
|------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.00V I:1.2568A P:150.63W PF:0.9988 Freq:60.00Hz Lamp Flux:19800 lm |           |                  |
| NAME: ASD Lighting Corp                                                      | TYPE: LED | WEIGHT:          |
| SPEC.: ASD-LSB2-150D50-BK                                                    | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                      | SUR.:     | Shielding Angle: |

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0   |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|-----|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0   |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |     |
| 0.0         | 1.19                  | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11                            | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0         | 1.02                  | .97  | .92  | .99  | .95  | .91  | .95                             | .91  | .88  | .91  | .88  | .85  | .87  | .85  | .82  | .80 |
| 2.0         | .86                   | .78  | .72  | .84  | .77  | .71  | .80                             | .74  | .69  | .77  | .72  | .67  | .74  | .70  | .66  | .64 |
| 3.0         | .74                   | .65  | .57  | .72  | .64  | .57  | .69                             | .62  | .56  | .66  | .60  | .54  | .63  | .58  | .53  | .51 |
| 4.0         | .64                   | .54  | .47  | .63  | .53  | .46  | .60                             | .52  | .46  | .58  | .51  | .45  | .55  | .49  | .44  | .42 |
| 5.0         | .56                   | .46  | .39  | .55  | .46  | .39  | .53                             | .45  | .38  | .51  | .43  | .38  | .49  | .42  | .37  | .35 |
| 6.0         | .50                   | .40  | .33  | .49  | .40  | .33  | .47                             | .39  | .32  | .45  | .38  | .32  | .44  | .37  | .32  | .29 |
| 7.0         | .45                   | .35  | .28  | .44  | .35  | .28  | .42                             | .34  | .28  | .41  | .33  | .28  | .39  | .33  | .27  | .25 |
| 8.0         | .40                   | .31  | .25  | .40  | .31  | .25  | .38                             | .30  | .24  | .37  | .30  | .24  | .36  | .29  | .24  | .22 |
| 9.0         | .37                   | .28  | .22  | .36  | .28  | .22  | .35                             | .27  | .22  | .34  | .27  | .22  | .33  | .26  | .21  | .19 |
| 10.0        | .34                   | .25  | .20  | .33  | .25  | .19  | .32                             | .25  | .19  | .31  | .24  | .19  | .30  | .24  | .19  | .17 |



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 17 July 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 52.3%  
 Test Distance: 2.500m [K=1.0469]  
 Remarks:

## WEC AND CCEC

|                                                                              |  |  |  |  |           |  |  |                  |  |
|------------------------------------------------------------------------------|--|--|--|--|-----------|--|--|------------------|--|
| Test:U:120.00V I:1.2568A P:150.63W PF:0.9988 Freq:60.00Hz Lamp Flux:19800 lm |  |  |  |  |           |  |  |                  |  |
| NAME: ASD Lighting Corp                                                      |  |  |  |  | TYPE: LED |  |  | WEIGHT:          |  |
| SPEC.: ASD-LSB2-150D50-BK                                                    |  |  |  |  | DIM.:     |  |  | SERIAL No.:      |  |
| MFR.: ASD Lighting Corp                                                      |  |  |  |  | SUR.:     |  |  | Shielding Angle: |  |

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%                            |      |      | 30%  |      |      | 10%  |      |      | 0 |
|-------------|-----------------------|------|------|------|------|------|--------------------------------|------|------|------|------|------|------|------|------|---|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                            | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                            |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coeffcients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0         |                       |      |      |      |      |      |                                |      |      |      |      |      |      |      |      |   |
| 1.0         | .354                  | .201 | .064 | .347 | .198 | .063 | .333                           | .191 | .061 | .321 | .185 | .059 | .309 | .179 | .058 |   |
| 2.0         | .332                  | .182 | .056 | .326 | .180 | .055 | .314                           | .174 | .054 | .303 | .170 | .053 | .292 | .165 | .052 |   |
| 3.0         | .305                  | .162 | .049 | .299 | .160 | .048 | .288                           | .156 | .047 | .278 | .152 | .047 | .269 | .149 | .046 |   |
| 4.0         | .279                  | .145 | .043 | .273 | .143 | .042 | .264                           | .140 | .042 | .255 | .137 | .041 | .246 | .134 | .041 |   |
| 5.0         | .255                  | .130 | .038 | .251 | .129 | .037 | .242                           | .126 | .037 | .234 | .123 | .037 | .226 | .121 | .036 |   |
| 6.0         | .234                  | .118 | .034 | .230 | .116 | .034 | .223                           | .114 | .033 | .216 | .112 | .033 | .209 | .110 | .033 |   |
| 7.0         | .217                  | .107 | .030 | .213 | .106 | .030 | .206                           | .104 | .030 | .200 | .102 | .030 | .194 | .101 | .030 |   |
| 8.0         | .201                  | .098 | .028 | .198 | .097 | .027 | .191                           | .096 | .027 | .186 | .094 | .027 | .180 | .093 | .027 |   |
| 9.0         | .187                  | .090 | .025 | .184 | .090 | .025 | .179                           | .088 | .025 | .173 | .087 | .025 | .169 | .086 | .025 |   |
| 10.0        | .175                  | .084 | .023 | .172 | .083 | .023 | .167                           | .082 | .023 | .163 | .081 | .023 | .158 | .080 | .023 |   |

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%                                        |      |      | 30%  |      |      | 10%  |      |      | 0 |
|-------------|-----------------------|------|------|------|------|------|--------------------------------------------|------|------|------|------|------|------|------|------|---|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                                        | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                                        |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0         | .192                  | .192 | .192 | .164 | .164 | .164 | .112                                       | .112 | .112 | .064 | .064 | .064 | .021 | .021 | .021 |   |
| 1.0         | .185                  | .157 | .132 | .158 | .135 | .114 | .108                                       | .093 | .079 | .062 | .054 | .046 | .020 | .017 | .015 |   |
| 2.0         | .179                  | .133 | .094 | .153 | .114 | .082 | .105                                       | .079 | .057 | .061 | .046 | .033 | .019 | .015 | .011 |   |
| 3.0         | .172                  | .116 | .071 | .148 | .100 | .061 | .102                                       | .069 | .043 | .059 | .041 | .025 | .019 | .013 | .008 |   |
| 4.0         | .165                  | .103 | .055 | .142 | .089 | .048 | .098                                       | .062 | .034 | .056 | .036 | .020 | .018 | .012 | .007 |   |
| 5.0         | .158                  | .093 | .045 | .136 | .080 | .039 | .093                                       | .056 | .028 | .054 | .033 | .016 | .017 | .011 | .005 |   |
| 6.0         | .151                  | .085 | .037 | .129 | .073 | .033 | .089                                       | .051 | .023 | .052 | .030 | .014 | .017 | .010 | .005 |   |
| 7.0         | .143                  | .078 | .032 | .123 | .068 | .028 | .085                                       | .047 | .020 | .050 | .028 | .012 | .016 | .009 | .004 |   |
| 8.0         | .137                  | .072 | .028 | .118 | .063 | .024 | .081                                       | .044 | .017 | .047 | .026 | .010 | .015 | .009 | .003 |   |
| 9.0         | .130                  | .067 | .025 | .112 | .058 | .022 | .078                                       | .041 | .015 | .045 | .024 | .009 | .015 | .008 | .003 |   |
| 10.0        | .124                  | .063 | .023 | .107 | .055 | .020 | .074                                       | .038 | .014 | .043 | .023 | .008 | .014 | .007 | .003 |   |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 17 July 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 52.3%  
 Test Distance: 2.500m [K=1.0469]  
 Remarks:

## UGR(Unified Glare Rating) Table

|                                                                              |                  |      |      |      |           |                |      |                  |      |      |
|------------------------------------------------------------------------------|------------------|------|------|------|-----------|----------------|------|------------------|------|------|
| Test:U:120.00V I:1.2568A P:150.63W PF:0.9988 Freq:60.00Hz Lamp Flux:19800 lm |                  |      |      |      |           |                |      |                  |      |      |
| NAME: ASD Lighting Corp                                                      |                  |      |      |      | TYPE: LED |                |      | WEIGHT:          |      |      |
| SPEC.: ASD-LSB2-150D50-BK                                                    |                  |      |      |      | DIM.:     |                |      | SERIAL No.:      |      |      |
| MFR.: ASD Lighting Corp                                                      |                  |      |      |      | SUR.:     |                |      | Shielding Angle: |      |      |
| ceiling/cavity                                                               | 0.7              | 0.7  | 0.5  | 0.5  | 0.3       | 0.7            | 0.7  | 0.5              | 0.5  | 0.3  |
| walls                                                                        | 0.5              | 0.3  | 0.5  | 0.3  | 0.3       | 0.5            | 0.3  | 0.5              | 0.3  | 0.3  |
| working plane                                                                | 0.2              | 0.2  | 0.2  | 0.2  | 0.2       | 0.2            | 0.2  | 0.2              | 0.2  | 0.2  |
| Room dimensions                                                              | Viewed crosswise |      |      |      |           | Viewed endwise |      |                  |      |      |
| x = 2H y = 2H                                                                | 34.7             | 36.5 | 35.1 | 36.8 | 37.1      | 32.5           | 34.3 | 32.9             | 34.6 | 35.0 |
| 3H                                                                           | 39.2             | 40.9 | 39.6 | 41.2 | 41.6      | 32.7           | 34.4 | 33.1             | 34.7 | 35.1 |
| 4H                                                                           | 40.3             | 41.9 | 40.7 | 42.3 | 42.6      | 32.7           | 34.3 | 33.1             | 34.6 | 35.0 |
| 6H                                                                           | 40.7             | 42.2 | 41.1 | 42.5 | 42.9      | 32.7           | 34.1 | 33.1             | 34.5 | 34.9 |
| 8H                                                                           | 40.9             | 42.3 | 41.3 | 42.7 | 43.1      | 32.7           | 34.1 | 33.1             | 34.4 | 34.8 |
| 12H                                                                          | 41.0             | 42.4 | 41.5 | 42.8 | 43.2      | 32.7           | 34.0 | 33.1             | 34.4 | 34.8 |
| 4H 2H                                                                        | 35.5             | 37.0 | 35.9 | 37.4 | 37.7      | 34.0           | 35.6 | 34.4             | 35.9 | 36.3 |
| 3H                                                                           | 40.1             | 41.4 | 40.5 | 41.8 | 42.2      | 34.3           | 35.6 | 34.7             | 36.0 | 36.4 |
| 4H                                                                           | 41.7             | 42.9 | 42.1 | 43.3 | 43.7      | 34.3           | 35.5 | 34.7             | 35.9 | 36.3 |
| 6H                                                                           | 42.2             | 43.2 | 42.6 | 43.7 | 44.1      | 34.3           | 35.3 | 34.7             | 35.8 | 36.2 |
| 8H                                                                           | 42.4             | 43.4 | 42.9 | 43.8 | 44.3      | 34.3           | 35.3 | 34.7             | 35.7 | 36.2 |
| 12H                                                                          | 42.6             | 43.5 | 43.1 | 44.0 | 44.5      | 34.3           | 35.2 | 34.7             | 35.6 | 36.1 |
| 8H 4H                                                                        | 41.7             | 42.7 | 42.2 | 43.2 | 43.6      | 35.6           | 36.6 | 36.0             | 37.0 | 37.5 |
| 6H                                                                           | 42.4             | 43.3 | 42.9 | 43.7 | 44.2      | 35.6           | 36.4 | 36.1             | 36.9 | 37.4 |
| 8H                                                                           | 42.7             | 43.4 | 43.2 | 43.9 | 44.4      | 35.6           | 36.3 | 36.1             | 36.8 | 37.3 |
| 12H                                                                          | 43.1             | 43.7 | 43.6 | 44.2 | 44.8      | 35.6           | 36.2 | 36.1             | 36.7 | 37.3 |
| 12H 4H                                                                       | 41.7             | 42.6 | 42.2 | 43.1 | 43.6      | 36.0           | 36.9 | 36.5             | 37.4 | 37.8 |
| 6H                                                                           | 42.4             | 43.2 | 42.9 | 43.6 | 44.2      | 36.0           | 36.7 | 36.5             | 37.2 | 37.7 |
| 8H                                                                           | 42.7             | 43.4 | 43.2 | 43.9 | 44.4      | 36.0           | 36.6 | 36.5             | 37.1 | 37.7 |
| CIE190: 2010                                                                 |                  |      |      |      |           |                |      |                  |      |      |
|                                                                              |                  |      |      |      |           |                |      |                  |      |      |

CIE190: 2010  
Area: 0.042 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: Alan Wang  
Test Date: 17 July 2021

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.442T2  
Humidity: 52.3%  
Test Distance: 2.500m [K=1.0469]  
Remarks:

## UTILIZATION FACTORS TABLE

|                                                                              |           |                  |
|------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.00V I:1.2568A P:150.63W PF:0.9988 Freq:60.00Hz Lamp Flux:19800 lm |           |                  |
| NAME: ASD Lighting Corp                                                      | TYPE: LED | WEIGHT:          |
| SPEC.: ASD-LSB2-150D50-BK                                                    | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                      | SUR.:     | Shielding Angle: |

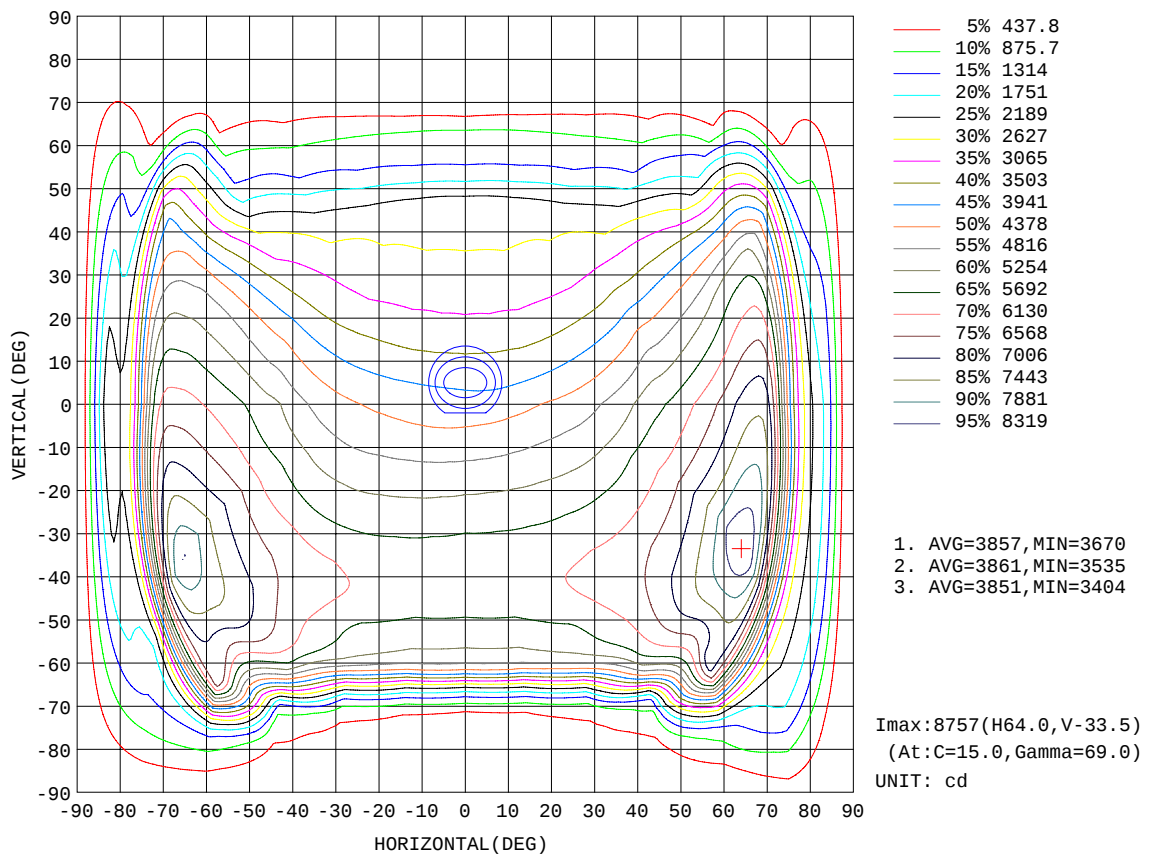
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8                                                 | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5 | 0.5           | 0.5 | 0      |
| Walls                            | 0.7                                                 | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7 | 0.5           | 0.3 | 0      |
| Working plane                    | 0.2                                                 | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 50                                                  | 37  | 29        | 49  | 37  | 29  | 48  | 36            | 29  | 22     |
| 0.80                             | 60                                                  | 47  | 38        | 59  | 46  | 38  | 57  | 46            | 38  | 30     |
| 1.00                             | 69                                                  | 56  | 48        | 68  | 55  | 47  | 65  | 57            | 47  | 39     |
| 1.25                             | 77                                                  | 64  | 56        | 75  | 64  | 56  | 72  | 62            | 55  | 46     |
| 1.50                             | 82                                                  | 71  | 62        | 80  | 70  | 62  | 77  | 68            | 61  | 52     |
| 2.00                             | 90                                                  | 80  | 73        | 88  | 79  | 72  | 84  | 77            | 70  | 62     |
| 2.50                             | 95                                                  | 86  | 79        | 93  | 84  | 78  | 89  | 82            | 76  | 67     |
| 3.00                             | 99                                                  | 91  | 85        | 97  | 89  | 83  | 92  | 86            | 81  | 72     |
| 4.00                             | 104                                                 | 97  | 92        | 101 | 95  | 90  | 97  | 92            | 88  | 78     |
| 5.00                             | 107                                                 | 101 | 97        | 104 | 99  | 95  | 100 | 96            | 92  | 82     |
| ROOM INDEX                       | UF(total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                     |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 17 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 52.3%  
 Test Distance: 2.500m [K=1.0469]  
 Remarks:

## ISOCANDELA DIAGRAM

|                                                                              |           |                  |
|------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.00V I:1.2568A P:150.63W PF:0.9988 Freq:60.00Hz Lamp Flux:19800 lm |           |                  |
| NAME: ASD Lighting Corp                                                      | TYPE: LED | WEIGHT:          |
| SPEC.: ASD-LSB2-150D50-BK                                                    | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                      | SUR.:     | Shielding Angle: |

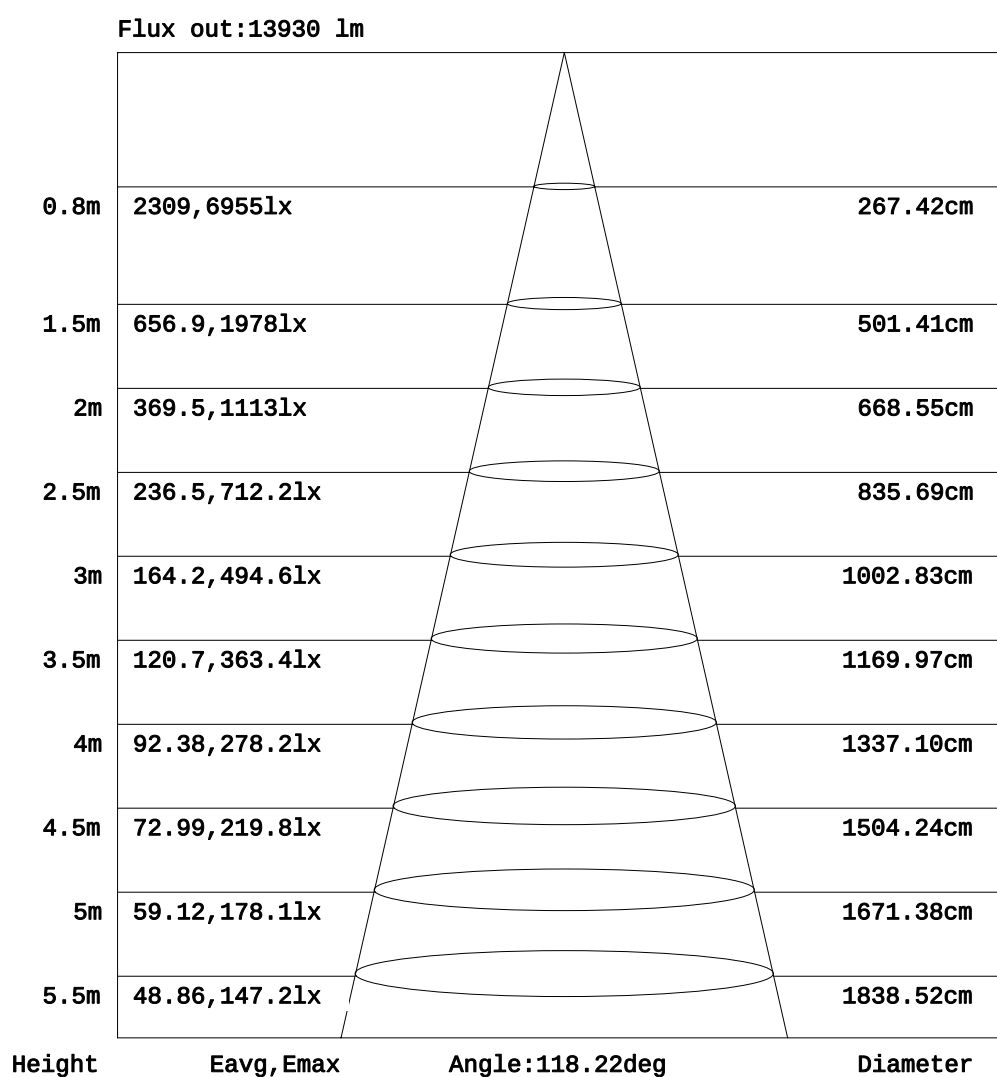


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 17 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 52.3%  
 Test Distance: 2.500m [K=1.0469]  
 Remarks:

## AAI Figure

|                                                                              |           |                  |
|------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.00V I:1.2568A P:150.63W PF:0.9988 Freq:60.00Hz Lamp Flux:19800 lm |           |                  |
| NAME: ASD Lighting Corp                                                      | TYPE: LED | WEIGHT:          |
| SPEC.: ASD-LSB2-150D50-BK                                                    | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                      | SUR.:     | Shielding Angle: |



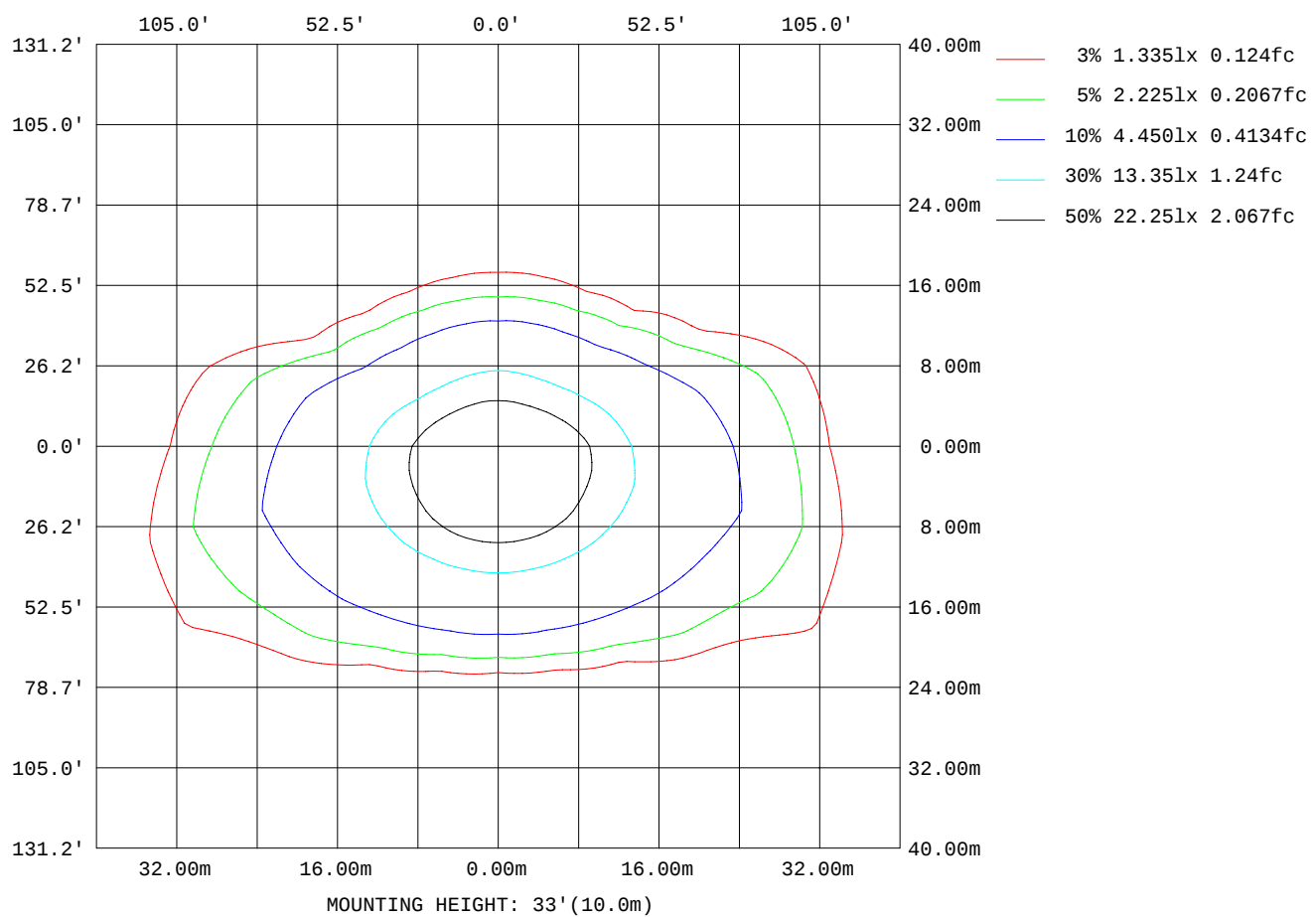
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 17 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 52.3%  
 Test Distance: 2.500m [K=1.0469]  
 Remarks:

## ISOLUX DIAGRAM

|                                                                              |           |                  |
|------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.00V I:1.2568A P:150.63W PF:0.9988 Freq:60.00Hz Lamp Flux:19800 lm |           |                  |
| NAME: ASD Lighting Corp                                                      | TYPE: LED | WEIGHT:          |
| SPEC.: ASD-LSB2-150D50-BK                                                    | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                      | SUR.:     | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: Alan Wang  
Test Date: 17 July 2021

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.442T2  
Humidity: 52.3%  
Test Distance: 2.500m [K=1.0469]  
Remarks:

## LED Avg.L Report

|                                                                              |           |                  |
|------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.00V I:1.2568A P:150.63W PF:0.9988 Freq:60.00Hz Lamp Flux:19800 lm |           |                  |
| NAME: ASD Lighting Corp                                                      | TYPE: LED | WEIGHT:          |
| SPEC.: ASD-LSB2-150D50-BK                                                    | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                      | SUR.:     | Shielding Angle: |

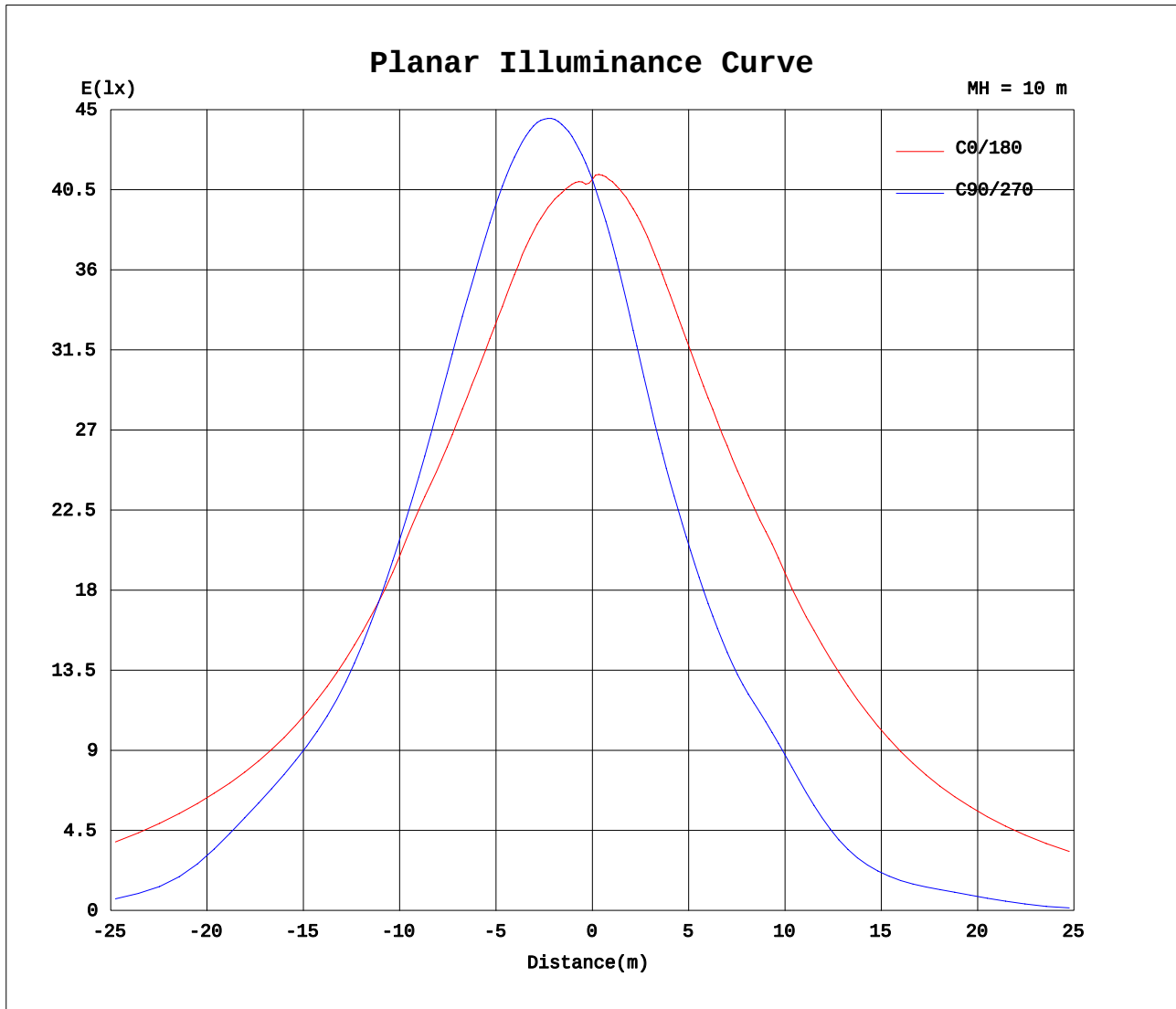
| AvgL           | cd/m2  |
|----------------|--------|
| L_0~180(65)av  | 380706 |
| L_0~180(75)av  | 373518 |
| L_0~180(85)av  | 399277 |
| L_90~270(65)av | 90691  |
| L_90~270(75)av | 21349  |
| L_90~270(85)av | 14847  |
| L_45(65)av     | 197913 |
| L_45(75)av     | 70259  |
| L_45(85)av     | 38087  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 17 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 52.3%  
 Test Distance: 2.500m [K=1.0469]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: Alan Wang  
Test Date: 17 July 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.442T2  
Humidity: 52.3%  
Test Distance: 2.500m [K=1.0469]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                              |           |                  |
|------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.00V I:1.2568A P:150.63W PF:0.9988 Freq:60.00Hz Lamp Flux:19800 lm |           |                  |
| NAME: ASD Lighting Corp                                                      | TYPE: LED | WEIGHT:          |
| SPEC.: ASD-LSB2-150D50-BK                                                    | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                      | SUR.:     | Shielding Angle: |

Table--1

UNIT: cd

| C(DEG)<br>γ (DEG) | 0    | 15   | 30   | 45   | 60   | 75   | 90   | 105  | 120  | 135  | 150  | 165  | 180  | 195  | 210  | 225  | 240  | 255  | 270  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                 | 4108 | 4108 | 4108 | 4108 | 4108 | 4108 | 4108 | 4108 | 4108 | 4108 | 4108 | 4108 | 4108 | 4108 | 4108 | 4108 | 4108 | 4108 | 4108 |
| 5                 | 4138 | 4224 | 4274 | 4315 | 4348 | 4364 | 4366 | 4350 | 4316 | 4273 | 4216 | 4181 | 4154 | 4081 | 4008 | 3946 | 3899 | 3868 | 3853 |
| 10                | 4205 | 4342 | 4447 | 4534 | 4599 | 4637 | 4642 | 4613 | 4555 | 4475 | 4373 | 4267 | 4195 | 4045 | 3898 | 3773 | 3678 | 3618 | 3590 |
| 15                | 4315 | 4508 | 4659 | 4781 | 4868 | 4915 | 4928 | 4880 | 4796 | 4684 | 4544 | 4384 | 4250 | 4021 | 3792 | 3593 | 3445 | 3362 | 3329 |
| 20                | 4441 | 4684 | 4877 | 5024 | 5133 | 5196 | 5204 | 5144 | 5035 | 4898 | 4714 | 4496 | 4308 | 4006 | 3697 | 3427 | 3238 | 3134 | 3096 |
| 25                | 4560 | 4857 | 5088 | 5263 | 5381 | 5450 | 5470 | 5394 | 5273 | 5112 | 4894 | 4634 | 4396 | 4015 | 3612 | 3276 | 3064 | 2959 | 2922 |
| 30                | 4749 | 5067 | 5306 | 5500 | 5612 | 5678 | 5699 | 5624 | 5483 | 5316 | 5090 | 4822 | 4537 | 4053 | 3535 | 3133 | 2908 | 2801 | 2769 |
| 35                | 5000 | 5338 | 5571 | 5733 | 5836 | 5879 | 5890 | 5841 | 5716 | 5536 | 5326 | 5063 | 4751 | 4146 | 3467 | 3010 | 2759 | 2662 | 2639 |
| 40                | 5331 | 5690 | 5814 | 5953 | 6025 | 5975 | 5947 | 5963 | 5950 | 5779 | 5585 | 5398 | 5038 | 4290 | 3418 | 2880 | 2642 | 2590 | 2593 |
| 45                | 5631 | 6016 | 6093 | 6202 | 6102 | 5929 | 5895 | 5937 | 6058 | 6073 | 5911 | 5739 | 5366 | 4456 | 3347 | 2722 | 2529 | 2486 | 2474 |
| 50                | 5915 | 6388 | 6439 | 6335 | 5996 | 5715 | 5649 | 5720 | 5982 | 6281 | 6281 | 6119 | 5632 | 4571 | 3208 | 2492 | 2206 | 2031 | 1969 |
| 55                | 6283 | 6915 | 6740 | 6286 | 5685 | 5382 | 5333 | 5385 | 5669 | 6274 | 6598 | 6609 | 5882 | 4697 | 2945 | 2101 | 1636 | 1429 | 1357 |
| 60                | 6724 | 7548 | 7078 | 6111 | 5397 | 4962 | 4838 | 5003 | 5453 | 6156 | 6940 | 7123 | 6096 | 4747 | 2502 | 1490 | 1162 | 1081 | 1062 |
| 65                | 7222 | 8425 | 7177 | 5828 | 4204 | 2873 | 2518 | 2959 | 4444 | 6080 | 7230 | 7736 | 6293 | 4683 | 1722 | 1035 | 885  | 761  | 701  |
| 70                | 7159 | 8660 | 6708 | 4447 | 1526 | 840  | 717  | 911  | 1717 | 4814 | 6783 | 8335 | 6245 | 4369 | 1144 | 616  | 401  | 254  | 245  |
| 75                | 4127 | 6054 | 7081 | 1078 | 468  | 284  | 265  | 298  | 492  | 1393 | 6971 | 6512 | 3994 | 3873 | 501  | 289  | 218  | 196  | 200  |
| 80                | 2300 | 2544 | 2807 | 481  | 252  | 193  | 189  | 195  | 262  | 551  | 3907 | 1822 | 2307 | 878  | 178  | 151  | 129  | 135  | 120  |
| 85                | 1229 | 1681 | 718  | 218  | 123  | 110  | 108  | 108  | 130  | 258  | 922  | 1131 | 1694 | 164  | 64.3 | 42.0 | 22.1 | 4.45 | 0.38 |
| 90                | 90.5 | 230  | 106  | 39.9 | 36.8 | 37.4 | 32.0 | 36.9 | 37.0 | 38.1 | 135  | 195  | 57.6 | 26.7 | 10.4 | 5.36 | 2.43 | 0.96 | 0.85 |
| 95                | 2.41 | 24.9 | 3.00 | 0.69 | 0.52 | 0.52 | 0.38 | 0.54 | 0.70 | 1.29 | 8.43 | 23.3 | 6.16 | 5.64 | 4.55 | 3.53 | 2.35 | 1.64 | 1.49 |
| 100               | 2.65 | 2.00 | 1.36 | 0.77 | 0.52 | 0.48 | 0.46 | 0.51 | 0.74 | 1.20 | 1.74 | 2.41 | 5.79 | 5.78 | 5.10 | 4.18 | 3.29 | 2.47 | 2.28 |
| 105               | 2.96 | 2.27 | 1.58 | 0.93 | 0.63 | 0.58 | 0.57 | 0.63 | 0.97 | 1.52 | 2.18 | 2.82 | 5.97 | 5.87 | 5.31 | 4.65 | 4.07 | 3.22 | 3.01 |
| 110               | 3.27 | 2.53 | 1.75 | 1.07 | 0.75 | 0.69 | 0.69 | 0.80 | 1.26 | 1.85 | 2.57 | 3.24 | 5.72 | 5.66 | 5.27 | 4.84 | 4.42 | 3.73 | 3.42 |
| 115               | 3.63 | 2.76 | 1.88 | 1.22 | 0.93 | 0.89 | 0.90 | 1.05 | 1.52 | 2.13 | 2.89 | 3.60 | 5.51 | 5.62 | 5.33 | 4.98 | 4.67 | 4.19 | 3.81 |
| 120               | 3.92 | 3.04 | 2.17 | 1.51 | 1.17 | 1.14 | 1.16 | 1.32 | 1.77 | 2.33 | 3.18 | 3.97 | 5.37 | 5.71 | 5.47 | 5.21 | 5.20 | 4.73 | 4.43 |
| 125               | 4.42 | 3.37 | 2.49 | 1.78 | 1.46 | 1.41 | 1.43 | 1.63 | 2.04 | 2.45 | 3.49 | 4.37 | 5.48 | 6.04 | 5.82 | 5.85 | 5.79 | 5.39 | 5.16 |
| 130               | 4.68 | 3.62 | 2.72 | 2.05 | 1.75 | 1.70 | 1.76 | 1.96 | 2.31 | 2.66 | 3.68 | 4.65 | 5.81 | 6.43 | 6.31 | 6.41 | 6.26 | 6.09 | 5.89 |
| 135               | 4.66 | 3.77 | 2.97 | 2.38 | 2.10 | 2.06 | 2.13 | 2.31 | 2.58 | 2.96 | 3.69 | 4.72 | 5.95 | 6.44 | 6.62 | 6.66 | 6.56 | 6.51 | 6.45 |
| 140               | 4.45 | 3.80 | 3.18 | 2.69 | 2.45 | 2.44 | 2.52 | 2.69 | 2.93 | 3.23 | 3.65 | 4.53 | 5.86 | 6.29 | 6.60 | 6.78 | 6.81 | 6.85 | 6.89 |
| 145               | 4.20 | 3.78 | 3.35 | 2.99 | 2.80 | 2.81 | 2.92 | 3.07 | 3.28 | 3.42 | 3.60 | 4.28 | 5.85 | 6.20 | 6.61 | 6.86 | 6.98 | 7.10 | 7.21 |
| 150               | 4.03 | 3.77 | 3.51 | 3.28 | 3.15 | 3.22 | 3.36 | 3.49 | 3.63 | 3.58 | 3.68 | 4.07 | 5.92 | 6.24 | 6.67 | 6.91 | 7.04 | 7.27 | 7.41 |
| 155               | 4.15 | 3.98 | 3.79 | 3.64 | 3.59 | 3.72 | 3.87 | 3.98 | 4.05 | 3.95 | 3.94 | 4.16 | 6.07 | 6.29 | 6.65 | 6.94 | 7.11 | 7.36 | 7.57 |
| 160               | 4.32 | 4.20 | 4.07 | 4.00 | 4.05 | 4.21 | 4.38 | 4.46 | 4.46 | 4.27 | 4.12 | 4.28 | 6.21 | 6.30 | 6.52 | 6.82 | 7.03 | 7.30 | 7.59 |
| 165               | 4.52 | 4.47 | 4.41 | 4.44 | 4.54 | 4.73 | 4.87 | 4.95 | 4.89 | 4.67 | 4.51 | 4.44 | 6.17 | 6.21 | 6.30 | 6.48 | 6.64 | 6.89 | 7.22 |
| 170               | 4.80 | 4.80 | 4.81 | 4.84 | 4.97 | 5.18 | 5.33 | 5.37 | 5.28 | 5.06 | 4.88 | 4.71 | 6.10 | 6.09 | 6.12 | 6.21 | 6.23 | 6.37 | 6.67 |
| 175               | 5.34 | 5.33 | 5.28 | 5.32 | 5.45 | 5.63 | 5.76 | 5.80 | 5.74 | 5.56 | 5.40 | 5.26 | 6.06 | 6.05 | 6.10 | 6.12 | 6.09 | 6.16 | 6.37 |
| 180               | 5.84 | 5.84 | 5.84 | 5.84 | 5.84 | 5.84 | 5.84 | 5.84 | 5.84 | 5.84 | 5.84 | 5.84 | 5.90 | 5.90 | 5.90 | 5.90 | 5.90 | 5.90 | 5.90 |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: Alan Wang  
Test Date: 17 July 2021

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.442T2  
Humidity: 52.3%  
Test Distance: 2.500m [K=1.0469]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                              |           |                  |
|------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.00V I:1.2568A P:150.63W PF:0.9988 Freq:60.00Hz Lamp Flux:19800 lm |           |                  |
| NAME: ASD Lighting Corp                                                      | TYPE: LED | WEIGHT:          |
| SPEC.: ASD-LSB2-150D50-BK                                                    | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                      | SUR.:     | Shielding Angle: |

Table--2

UNIT: cd

| C(DEC)<br>γ (DEC) | 285  | 300  | 315  | 330  | 345  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 4108 | 4108 | 4108 | 4108 | 4108 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 3858 | 3880 | 3918 | 3972 | 4032 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 3612 | 3669 | 3761 | 3875 | 4012 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 3362 | 3450 | 3602 | 3801 | 4025 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 3132 | 3243 | 3446 | 3732 | 4058 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 2952 | 3061 | 3304 | 3684 | 4111 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 2794 | 2915 | 3177 | 3652 | 4194 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 2662 | 2784 | 3080 | 3623 | 4327 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 2591 | 2662 | 2976 | 3625 | 4523 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 2497 | 2554 | 2822 | 3612 | 4735 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 2063 | 2257 | 2591 | 3568 | 4829 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 1447 | 1689 | 2243 | 3437 | 4991 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 1089 | 1157 | 1633 | 3103 | 5201 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 794  | 912  | 1109 | 2373 | 5441 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 265  | 428  | 710  | 1632 | 5308 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 193  | 240  | 295  | 712  | 4010 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 138  | 129  | 149  | 214  | 1018 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 14.5 | 30.7 | 40.3 | 62.1 | 169  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 1.03 | 2.92 | 5.93 | 10.7 | 30.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 1.74 | 2.61 | 3.95 | 4.84 | 5.09 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 2.57 | 3.53 | 4.67 | 5.33 | 5.45 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 3.30 | 4.20 | 4.96 | 5.38 | 5.52 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 3.65 | 4.27 | 4.87 | 5.17 | 5.24 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 3.89 | 4.35 | 4.85 | 5.05 | 5.18 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 4.35 | 4.68 | 5.14 | 5.28 | 5.31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 5.10 | 5.31 | 5.68 | 5.80 | 5.70 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 5.79 | 5.98 | 6.30 | 6.50 | 6.20 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 6.24 | 6.31 | 6.55 | 6.71 | 6.36 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 6.65 | 6.53 | 6.55 | 6.59 | 6.21 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 6.96 | 6.70 | 6.56 | 6.50 | 6.10 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 7.22 | 6.92 | 6.68 | 6.54 | 6.12 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 7.47 | 7.21 | 6.88 | 6.68 | 6.22 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 7.59 | 7.43 | 7.07 | 6.81 | 6.31 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 7.30 | 7.27 | 7.00 | 6.71 | 6.23 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 6.78 | 6.81 | 6.67 | 6.47 | 6.05 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 6.47 | 6.51 | 6.41 | 6.21 | 5.80 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 5.90 | 5.90 | 5.90 | 5.90 | 5.90 |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 17 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE G0-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 52.3%  
 Test Distance: 2.500m [K=1.0469]  
 Remarks: