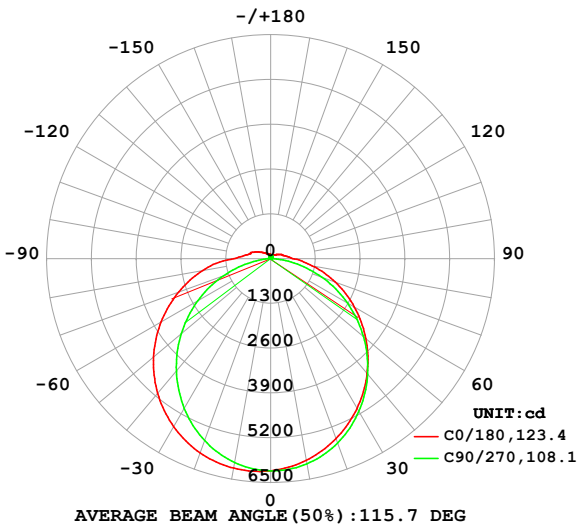
# LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|---|---|
| Test:U:120.01V I:1.2294A P:147.14W PF:0.9973 Freq:60.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20262.6x1 lm | | |
| NAME: ASD-LSF8-8A150WH | TYPE: | WEIGHT: |
| SPEC.: 150W-5000K | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting Corp. | SUR.: 1.22*0.14m | Shielding Angle: |

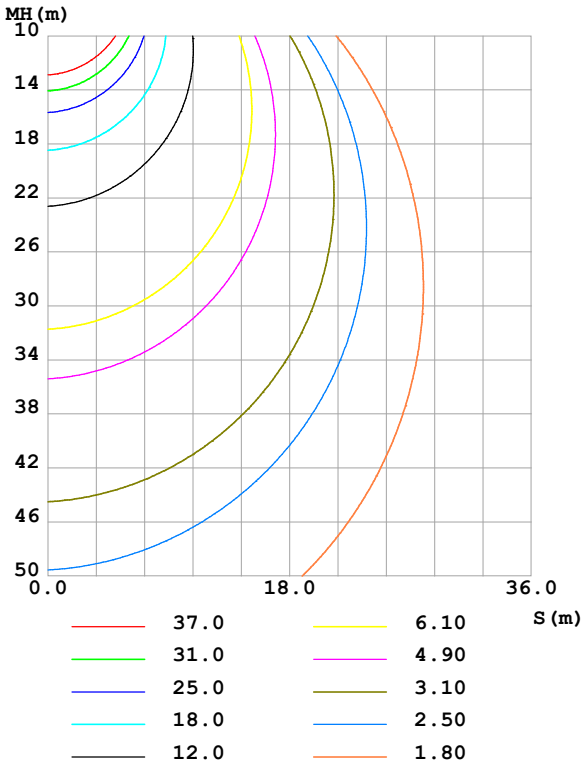
| DATA OF LAMP | | PHOTOMETRIC DATA | | Eff: 137.71 lm/W | |
|---|---|---|---|---|---|
| MODEL | ASD-LSF8-8A150WH | Imax(cd) | 6192 | S/MH(C0/180) | 1.36 |
| NOMINAL POWER(W) | 150 | LOR(%) | 100.0 | S/MH(C90/270) | 1.22 |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 20263 | η UP,DN(C0-180) | 2.9,46.0 |
| NOMINAL FLUX(lm) | 20262.6 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 3.5,47.6 |
| LAMPS INSIDE | 1 | η up(%) | 6.4 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 120 | η down(%) | 93.6 | CIBSE SHR MAX | 1.35 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM




AVERAGE BEAM ANGLE(50%):115.7 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)




C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-03-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:9.770m [K=1.0000]
Remarks:

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 5945 | 5988 | 6050 | 6136 | 6176 | 6103 | 6010 | 5957 | 0- 10 | 582.5 | 582.5 | 2.87,2.87 |
| 20 | 5556 | 5602 | 5693 | 5887 | 5999 | 5824 | 5617 | 5544 | 10- 20 | 1667 | 2249 | 11.1,11.1 |
| 30 | 5020 | 5036 | 5122 | 5435 | 5633 | 5345 | 5018 | 4956 | 20- 30 | 2524 | 4773 | 23.6,23.6 |
| 40 | 4359 | 4327 | 4383 | 4811 | 5105 | 4700 | 4260 | 4231 | 30- 40 | 3050 | 7824 | 38.6,38.6 |
| 50 | 3609 | 3518 | 3520 | 4062 | 4443 | 3937 | 3389 | 3418 | 40- 50 | 3195 | 11019 | 54.4,54.4 |
| 60 | 2808 | 2661 | 2577 | 3232 | 3669 | 3102 | 2442 | 2572 | 50- 60 | 2965 | 13983 | 69,69 |
| 70 | 2003 | 1815 | 1582 | 2376 | 2843 | 2250 | 1452 | 1745 | 60- 70 | 2421 | 16404 | 81,81 |
| 80 | 1233 | 1032 | 616.2 | 1546 | 2008 | 1423 | 509.8 | 987.6 | 70- 80 | 1670 | 18074 | 89.2,89.2 |
| 90 | 645.6 | 434.0 | 18.92 | 713.7 | 1072 | 604.3 | 16.27 | 410.5 | 80- 90 | 884.3 | 18958 | 93.6,93.6 |
| 100 | 457.1 | 247.5 | 20.85 | 400.9 | 692.5 | 365.5 | 24.42 | 247.7 | 90-100 | 416.3 | 19375 | 95.6,95.6 |
| 110 | 353.0 | 180.7 | 31.49 | 280.7 | 555.4 | 264.3 | 35.47 | 173.5 | 100-110 | 282.1 | 19657 | 97,97 |
| 120 | 248.4 | 136.5 | 43.62 | 201.9 | 391.2 | 194.6 | 47.73 | 137.1 | 110-120 | 201.2 | 19858 | 98,98 |
| 130 | 184.2 | 112.0 | 55.34 | 159.4 | 275.0 | 157.8 | 58.60 | 111.8 | 120-130 | 139.8 | 19998 | 98.7,98.7 |
| 140 | 147.2 | 97.00 | 66.17 | 141.5 | 202.3 | 142.4 | 68.06 | 102.7 | 130-140 | 99.75 | 20098 | 99.2,99.2 |
| 150 | 119.3 | 90.18 | 78.03 | 134.2 | 164.2 | 135.5 | 79.74 | 94.60 | 140-150 | 73.03 | 20171 | 99.5,99.5 |
| 160 | 107.8 | 88.30 | 91.17 | 126.5 | 144.4 | 127.4 | 91.75 | 89.74 | 150-160 | 50.86 | 20222 | 99.8,99.8 |
| 170 | 106.6 | 106.1 | 101.8 | 116.6 | 119.9 | 116.7 | 101.5 | 105.8 | 160-170 | 30.67 | 20252 | 99.9,99.9 |
| 180 | 90.64 | 102.5 | 106.7 | 106.2 | 90.68 | 102.8 | 106.6 | 106.3 | 170-180 | 10.37 | 20263 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 9427.4 lm

%lum = 46.5%
%lamp = 46.5%

Conical surface Flux(130deg): 15277 lm

%lum = 75.4%
%lamp = 75.4%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-03-10

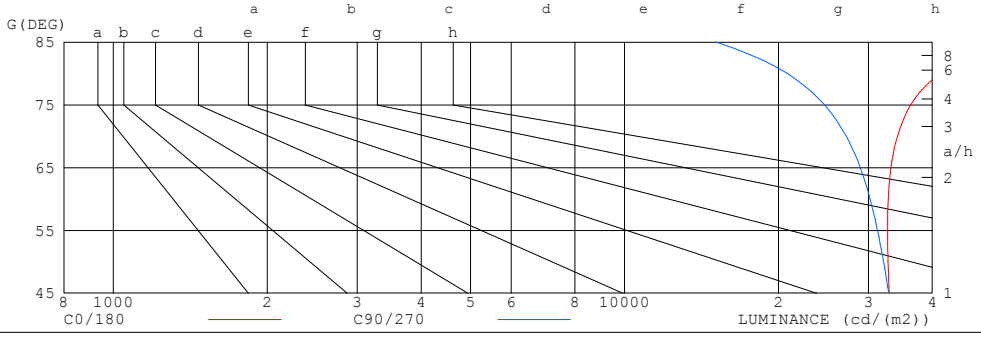
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:9.770m [K=1.0000]
Remarks:

# LUMINANCE LIMITATION CURVES

| | | |
|---|---|---|
| **Test:U:120.01V I:1.2294A P:147.14W PF:0.9973 Freq:60.01Hz**<br>**UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20262.6x1 lm** | | |
| **NAME: ASD-LSF8-8A150WH** | **TYPE:** | **WEIGHT:** |
| **SPEC.: 150W-5000K** | **DIM.:** | **SERIAL No.:** |
| **MFR.: ASD Lighting Corp.** | **SUR.: 1.22*0.14m** | **Shielding Angle:** |

**LUMINANCE LIMITATION CURVES**

| GLARE | CLASS | ILLUMINANCE (lx) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.50 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <=300 | | |
| 2.20 | D | | | | 2000 | 1000 | 500 | <=300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | <=300 |
| | | a | b | c | d | e | f | g | h |



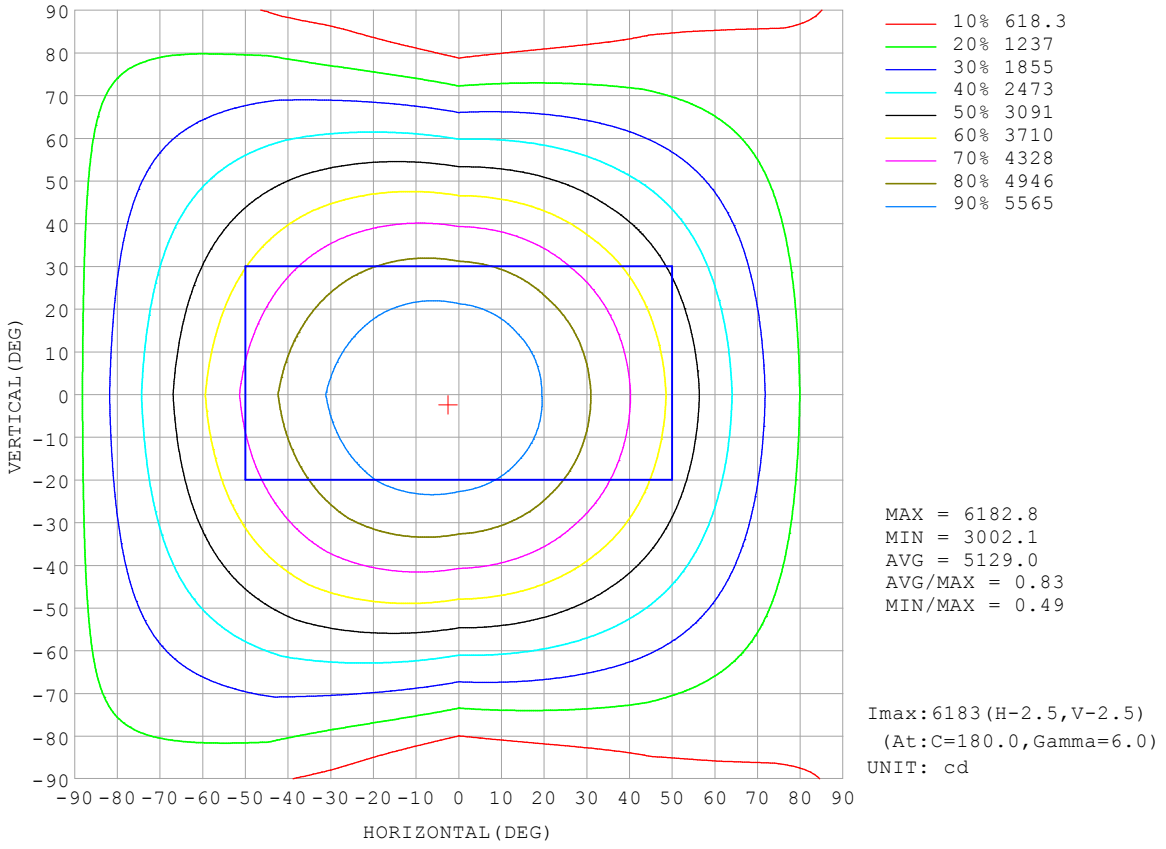

| LUMINANCE cd/(m2) | | |
|---|---|---|
| G(DEG) | C0/180 | C90/270 |
| 85 | 62174 | 15099 |
| 80 | 41449 | 20817 |
| 75 | 36297 | 24622 |
| 70 | 34191 | 27141 |
| 65 | 33202 | 28906 |
| 60 | 32783 | 30235 |
| 55 | 32698 | 31253 |
| 50 | 32777 | 32122 |
| 45 | 32965 | 32878 |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-03-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:9.770m [K=1.0000]
Remarks:

## ISOCANDELA DIAGRAM

| | | |
|---|---|---|
| Test:U:120.01V I:1.2294A P:147.14W PF:0.9973 Freq:60.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20262.6x1 lm | | |
| NAME: ASD-LSF8-8A150WH | TYPE: | WEIGHT: |
| SPEC.: 150W-5000K | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting Corp. | SUR.: 1.22*0.14m | Shielding Angle: |

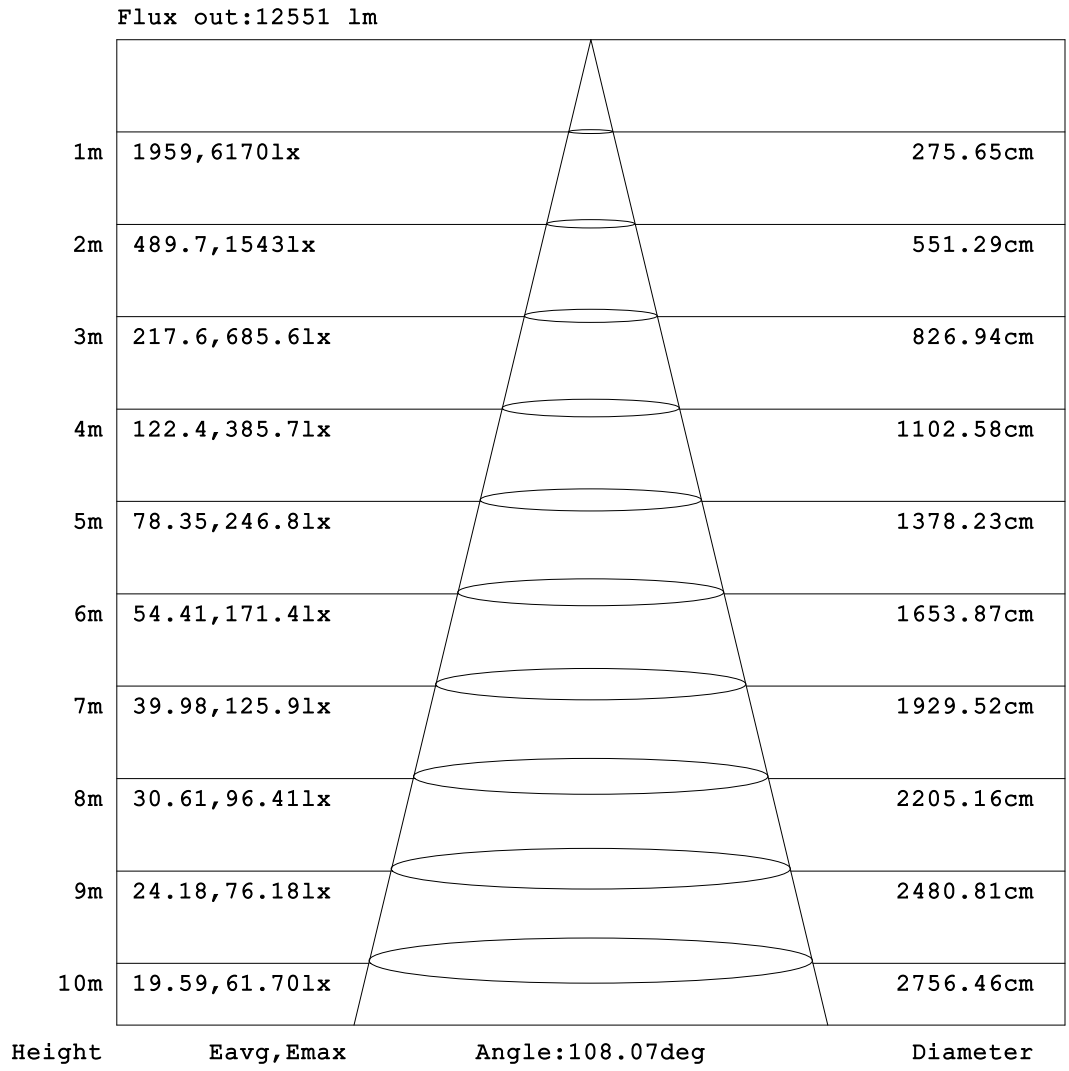



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-03-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:9.770m [K=1.0000]
Remarks:

## AAI Figure

| | | |
|---|---|---|
| Test:U:120.01V I:1.2294A P:147.14W PF:0.9973 Freq:60.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20262.6x1 lm | | |
| NAME: ASD-LSF8-8A150WH | TYPE: | WEIGHT: |
| SPEC.: 150W-5000K | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting Corp. | SUR.: 1.22*0.14m | Shielding Angle: |



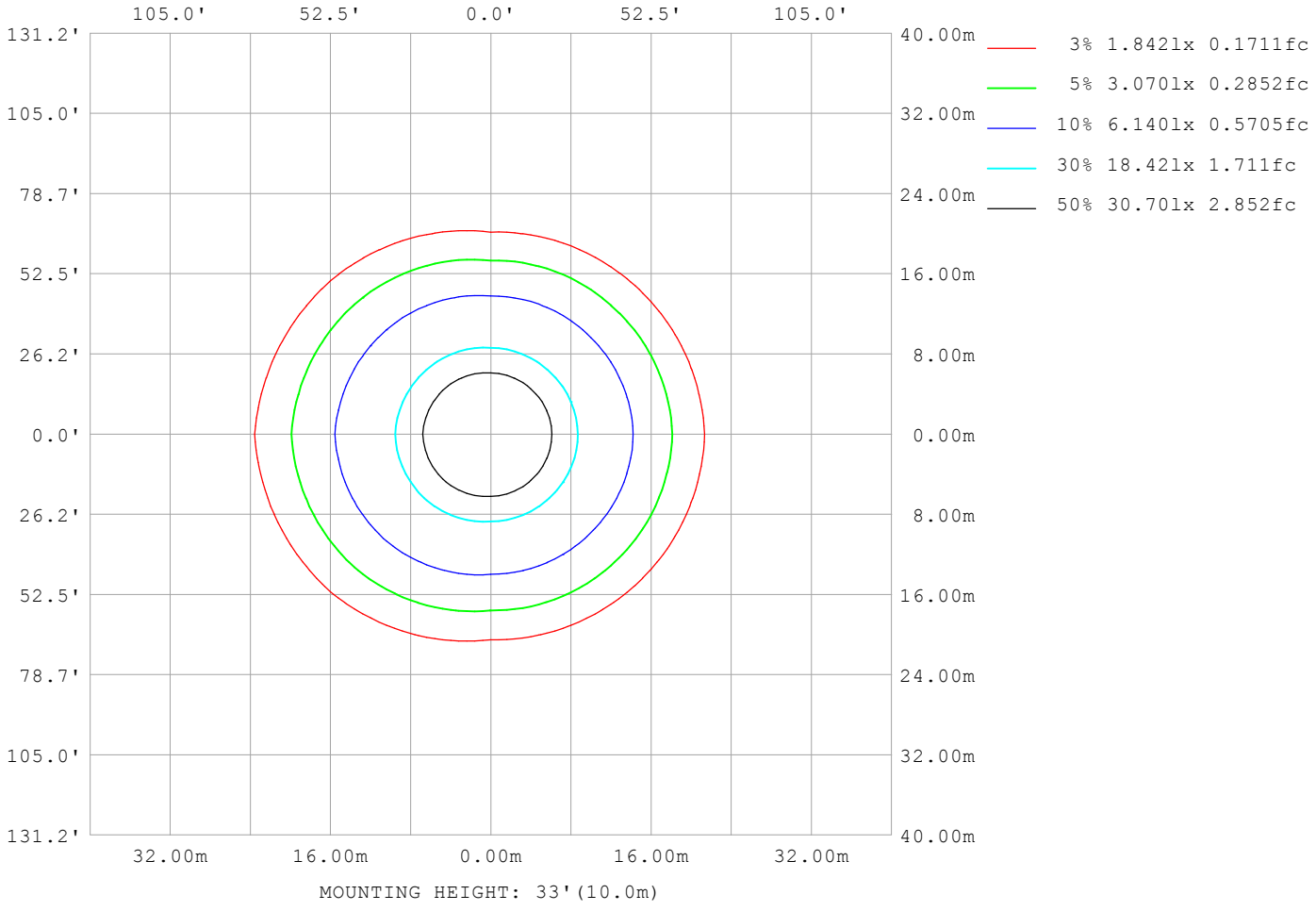

**Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.**

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-03-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:9.770m [K=1.0000]
Remarks:

## ISOLUX DIAGRAM

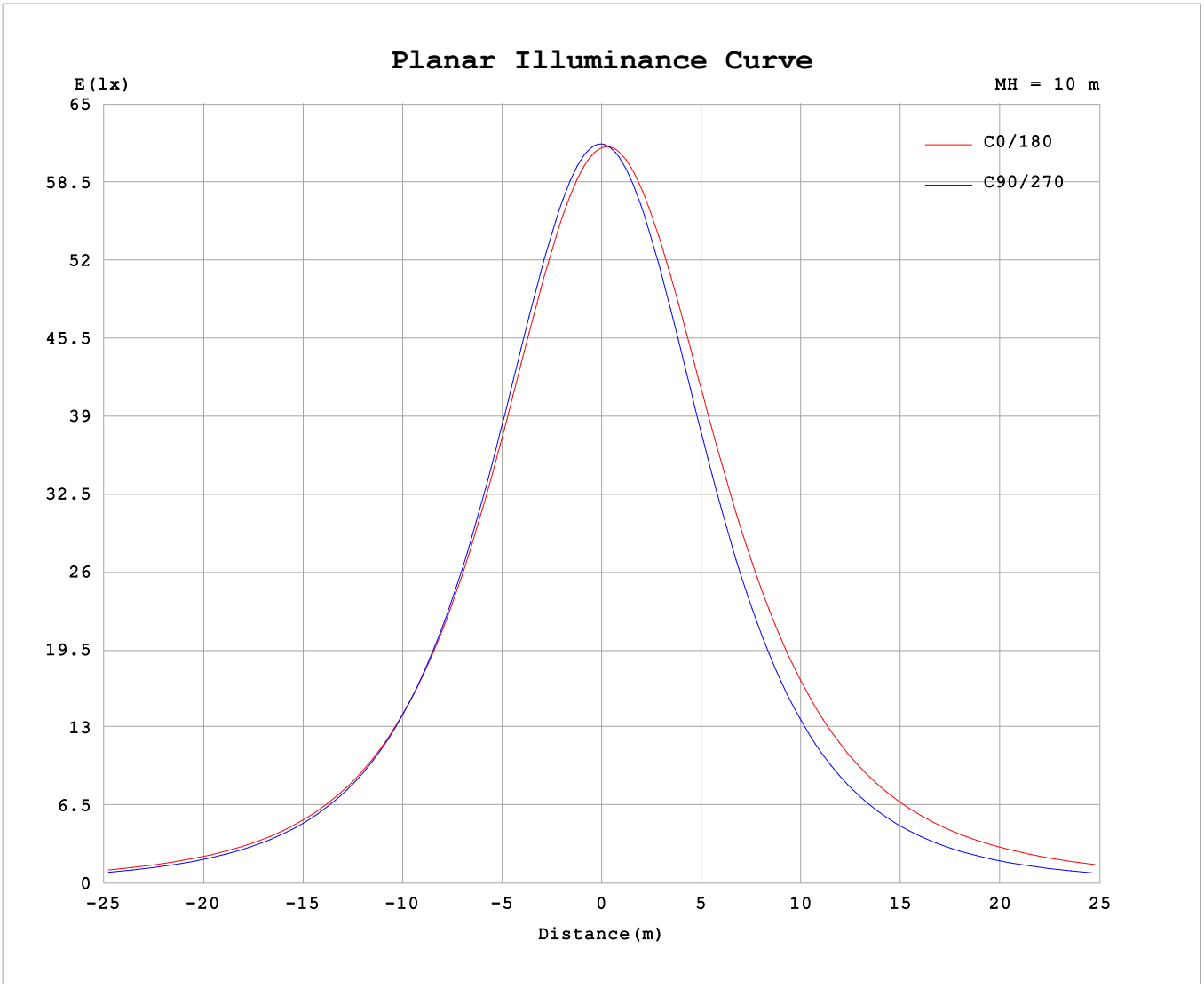
| | | |
|---|---|---|
| Test:U:120.01V I:1.2294A P:147.14W PF:0.9973 Freq:60.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20262.6x1 lm | | |
| NAME: ASD-LSF8-8A150WH | TYPE: | WEIGHT: |
| SPEC.: 150W-5000K | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting Corp. | SUR.: 1.22*0.14m | Shielding Angle: |




C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-03-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:9.770m [K=1.0000]
Remarks:

## Planar Illuminance Curve




C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-03-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:9.770m [K=1.0000]
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|---|---|
| Test:U:120.01V I:1.2294A P:147.14W PF:0.9973 Freq:60.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20262.6x1 lm | | |
| NAME: ASD-LSF8-8A150WH | TYPE: | WEIGHT: |
| SPEC.: 150W-5000K | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting Corp. | SUR.: 1.22*0.14m | Shielding Angle: |

Table--1 UNIT: cd

| γ (DEG) \ C(DEG) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| 0 | 6159 | 6159 | 6159 | 6159 | 6159 | 6159 | 6159 | 6159 |
| 5 | 6075 | 6101 | 6137 | 6175 | 6191 | 6159 | 6117 | 6086 |
| 10 | 5945 | 5988 | 6050 | 6136 | 6176 | 6103 | 6010 | 5957 |
| 15 | 5771 | 5820 | 5900 | 6038 | 6112 | 5990 | 5841 | 5775 |
| 20 | 5556 | 5602 | 5693 | 5887 | 5999 | 5824 | 5617 | 5544 |
| 25 | 5306 | 5339 | 5432 | 5685 | 5838 | 5607 | 5340 | 5270 |
| 30 | 5020 | 5036 | 5122 | 5435 | 5633 | 5345 | 5018 | 4956 |
| 35 | 4703 | 4697 | 4771 | 5142 | 5388 | 5041 | 4656 | 4608 |
| 40 | 4359 | 4327 | 4383 | 4811 | 5105 | 4700 | 4260 | 4231 |
| 45 | 3993 | 3932 | 3963 | 4452 | 4786 | 4331 | 3836 | 3831 |
| 50 | 3609 | 3518 | 3520 | 4062 | 4443 | 3937 | 3389 | 3418 |
| 55 | 3213 | 3092 | 3056 | 3653 | 4065 | 3525 | 2923 | 2995 |
| 60 | 2808 | 2661 | 2577 | 3232 | 3669 | 3102 | 2442 | 2572 |
| 65 | 2404 | 2233 | 2083 | 2803 | 3260 | 2676 | 1950 | 2152 |
| 70 | 2003 | 1815 | 1582 | 2376 | 2843 | 2250 | 1452 | 1745 |
| 75 | 1609 | 1413 | 1086 | 1956 | 2423 | 1829 | 963 | 1355 |
| 80 | 1233 | 1032 | 616 | 1546 | 2008 | 1423 | 510 | 988 |
| 85 | 928 | 690 | 224 | 1154 | 1601 | 1037 | 153 | 662 |
| 90 | 646 | 434 | 18.9 | 714 | 1072 | 604 | 16.3 | 410 |
| 95 | 543 | 320 | 16.1 | 494 | 838 | 444 | 19.3 | 320 |
| 100 | 457 | 247 | 20.8 | 401 | 693 | 366 | 24.4 | 248 |
| 105 | 382 | 207 | 25.9 | 333 | 601 | 313 | 29.3 | 214 |
| 110 | 353 | 181 | 31.5 | 281 | 555 | 264 | 35.5 | 174 |
| 115 | 295 | 155 | 37.8 | 237 | 467 | 225 | 42.0 | 152 |
| 120 | 248 | 137 | 43.6 | 202 | 391 | 195 | 47.7 | 137 |
| 125 | 212 | 121 | 49.4 | 177 | 327 | 173 | 53.4 | 126 |
| 130 | 184 | 112 | 55.3 | 159 | 275 | 158 | 58.6 | 112 |
| 135 | 160 | 102 | 60.9 | 148 | 234 | 148 | 63.5 | 105 |
| 140 | 147 | 97.0 | 66.2 | 141 | 202 | 142 | 68.1 | 103 |
| 145 | 134 | 93.3 | 71.3 | 138 | 180 | 139 | 73.4 | 98.9 |
| 150 | 119 | 90.2 | 78.0 | 134 | 164 | 136 | 79.7 | 94.6 |
| 155 | 112 | 87.4 | 84.9 | 130 | 154 | 132 | 85.9 | 90.9 |
| 160 | 108 | 88.3 | 91.2 | 127 | 144 | 127 | 91.8 | 89.7 |
| 165 | 104 | 91.0 | 96.9 | 121 | 135 | 121 | 97.0 | 92.1 |
| 170 | 107 | 106 | 102 | 117 | 120 | 117 | 102 | 106 |
| 175 | 105 | 111 | 105 | 111 | 113 | 110 | 105 | 113 |
| 180 | 90.6 | 103 | 107 | 106 | 90.7 | 103 | 107 | 106 |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-03-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:9.770m [K=1.0000]
Remarks: