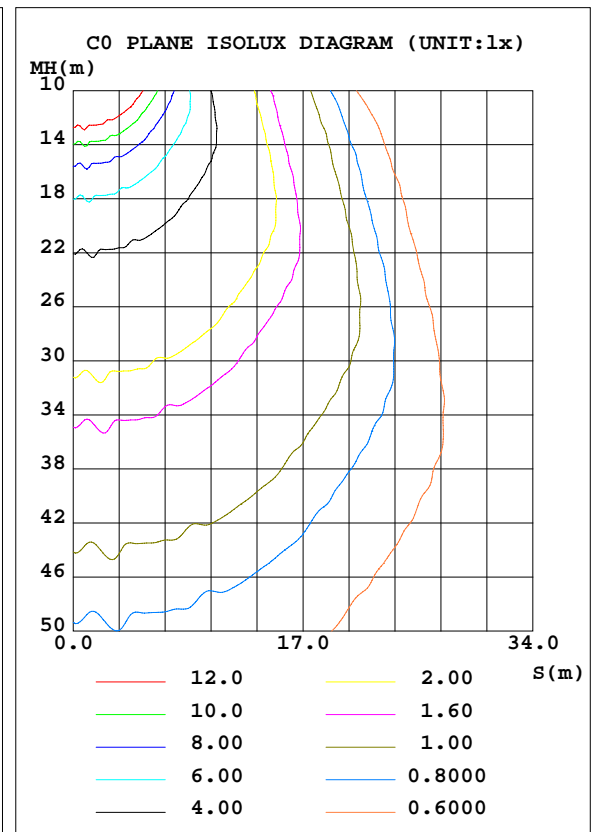
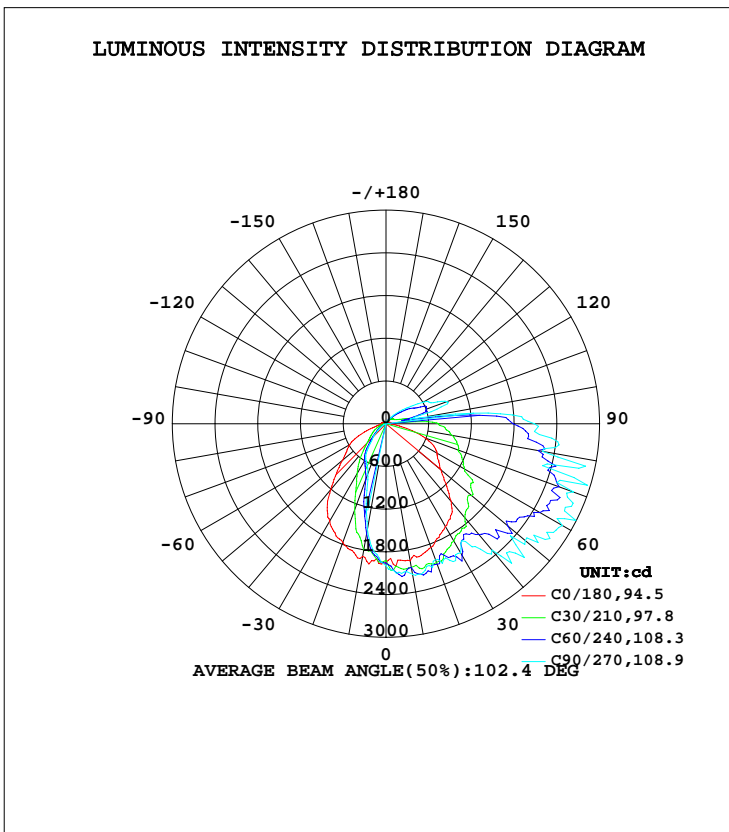


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|-----------|------------------|
| Test:U:120.00V I:0.4348A P:51.910W PF:0.9950 Freq:60.00Hz Lamp Flux:7250x1 lm | | |
| NAME: ASD Lighting Corp | TYPE: LED | WEIGHT: |
| SPEC.: ASD-WLP01-50DAC_3000K | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting Corp | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 139,67 lm/W | | | |
|------------------|-----------------|-----------------------------------|---------|--------------------|-----------|
| MODEL | ASD-WLP01-50DAC | I _{max} (cd) | 2993 | S/MH(C0/180) | 1.21 |
| NOMINAL POWER(W) | 50 | LOR(%) | 100.0 | S/MH(C90/270) | 0.52 |
| RATED VOLTAGE(V) | 120-277 | TOTAL FLUX(lm) | 7250 | η UP, DN(C0-180) | 11.9,72.3 |
| NOMINAL FLUX(lm) | 7250 | CIE CLASS | SEMI-D. | η UP, DN(C180-360) | 0.4,15.4 |
| LAMPS INSIDE | 1 | η up(%) | 12.3 | CIBSE SHR NOM | 1.00 |
| TEST VOLTAGE(V) | 120 | η down(%) | 87.7 | CIBSE SHR MAX | 1.15 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 49.8%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------|
| 10 | 1955 | 2077 | 2146 | 2058 | 1891 | 1685 | 1510 | 1792 | 0- 10 | 185.5 | 185.5 | 2.47,2.47 |
| 20 | 1848 | 2128 | 2034 | 2058 | 1773 | 1098 | 752.1 | 1196 | 10- 20 | 493.8 | 679.3 | 9.04,9.04 |
| 30 | 1667 | 2003 | 2096 | 1889 | 1579 | 665.8 | 567.5 | 718.4 | 20- 30 | 688.9 | 1368 | 18.2,18.2 |
| 40 | 1429 | 1726 | 2316 | 1814 | 1209 | 451.5 | 317.4 | 508.2 | 30- 40 | 813.4 | 2182 | 29,29 |
| 50 | 1007 | 1827 | 2554 | 1736 | 794.5 | 256.7 | 149.0 | 293.4 | 40- 50 | 894.4 | 3076 | 41,41 |
| 60 | 828.5 | 1691 | 2861 | 1546 | 588.9 | 120.3 | 60.73 | 160.0 | 50- 60 | 929.3 | 4005 | 53.3,53.3 |
| 70 | 581.3 | 1893 | 2804 | 1696 | 291.3 | 44.17 | 2.038 | 73.02 | 60- 70 | 963.7 | 4969 | 66.2,66.2 |
| 80 | 192.8 | 1715 | 2233 | 1487 | 96.04 | 11.89 | 2.899 | 21.56 | 70- 80 | 888.7 | 5858 | 78,78 |
| 90 | 69.78 | 1310 | 2084 | 1118 | 61.26 | 6.195 | 3.159 | 11.93 | 80- 90 | 728.7 | 6586 | 87.7,87.7 |
| 100 | 43.66 | 198.0 | 483.9 | 294.4 | 42.94 | 4.394 | 6.065 | 6.133 | 90-100 | 406.0 | 6992 | 93.1,93.1 |
| 110 | 62.76 | 326.9 | 912.3 | 275.3 | 55.06 | 4.482 | 7.309 | 4.229 | 100-110 | 181.7 | 7174 | 95.5,95.5 |
| 120 | 37.49 | 251.8 | 609.4 | 223.6 | 27.72 | 4.879 | 6.883 | 5.442 | 110-120 | 173.8 | 7348 | 97.8,97.8 |
| 130 | 10.69 | 157.8 | 301.4 | 122.6 | 7.915 | 3.149 | 5.934 | 3.226 | 120-130 | 97.97 | 7446 | 99.1,99.1 |
| 140 | 3.227 | 91.34 | 134.1 | 74.30 | 3.540 | 3.496 | 4.403 | 3.401 | 130-140 | 43.12 | 7489 | 99.7,99.7 |
| 150 | 3.456 | 29.28 | 59.66 | 22.21 | 3.891 | 3.188 | 3.057 | 4.028 | 140-150 | 15.71 | 7505 | 99.9,99.9 |
| 160 | 3.711 | 5.144 | 14.17 | 4.354 | 3.349 | 3.497 | 3.148 | 3.737 | 150-160 | 4.912 | 7510 | 100,100 |
| 170 | 2.859 | 3.702 | 4.257 | 4.764 | 4.179 | 3.702 | 2.030 | 2.204 | 160-170 | 1.149 | 7511 | 100,100 |
| 180 | 3.007 | 2.868 | 3.177 | 2.464 | 3.064 | 2.796 | 2.937 | 2.445 | 170-180 | 0.3231 | 7511 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 2624.4 lm

%lum = 34.9%

%lamp = 34.9%

Conical surface Flux(120deg): 4005.4 lm

%lum = 53.3%

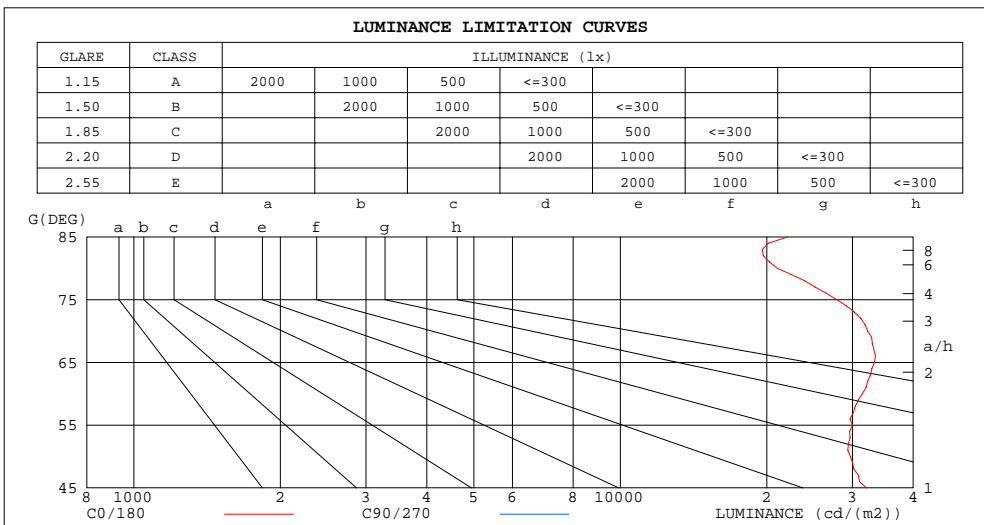
%lamp = 53.3%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 49.8%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|-----------|------------------|
| Test:U:120.00V I:0.4348A P:51.910W PF:0.9950 Freq:60.00Hz Lamp Flux:7250x1 lm | | |
| NAME: ASD Lighting Corp | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting Corp | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 22085 | 508649 |
| 80 | 21054 | 243897 |
| 75 | 27873 | 166965 |
| 70 | 32233 | 155519 |
| 65 | 33284 | 124660 |
| 60 | 31426 | 108515 |
| 55 | 30007 | 92952 |
| 50 | 29707 | 75362 |
| 45 | 32074 | 68886 |

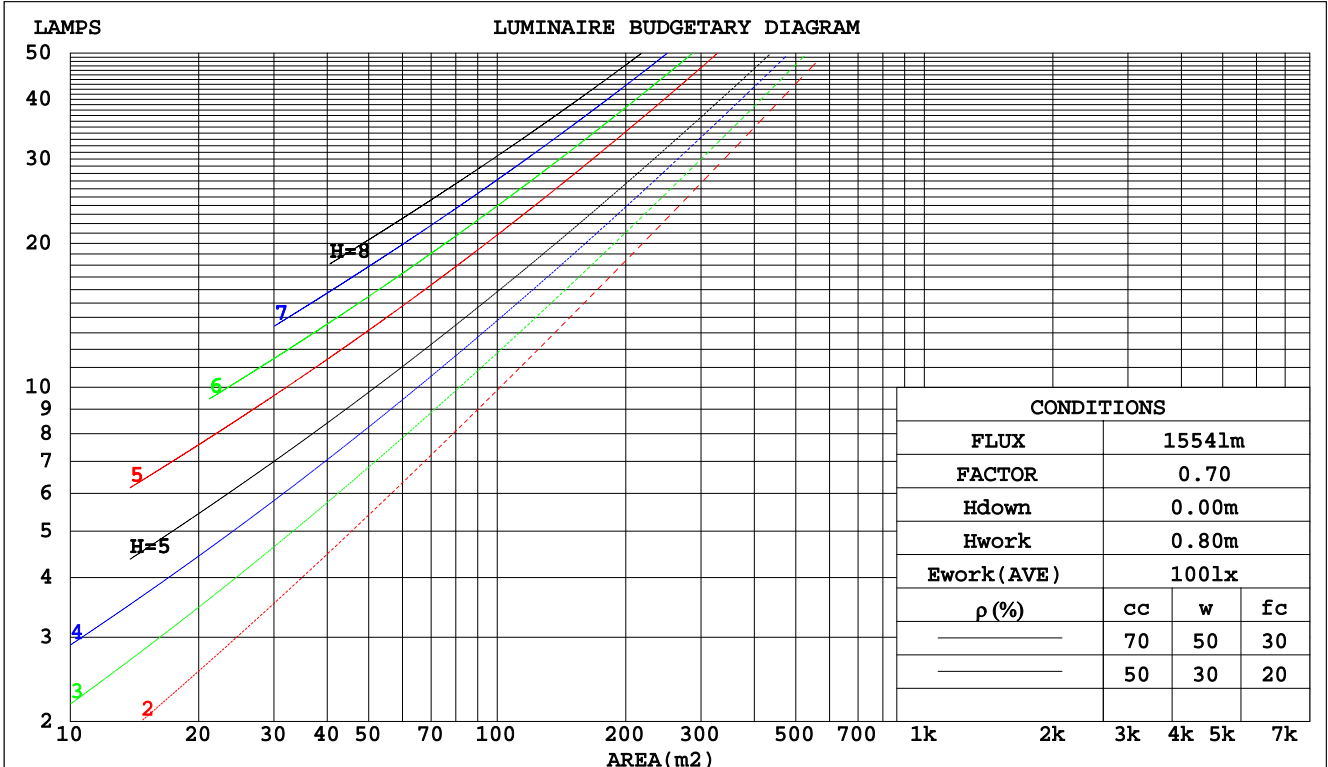
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 49.8%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|-----------|------------------|
| Test:U:120.00V I:0.4348A P:51.910W PF:0.9950 Freq:60.00Hz Lamp Flux:7250x1 lm | | |
| NAME: ASD Lighting Corp | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting Corp | SUR.: | Shielding Angle: |

| | | | | | | | | | | | | | | | | |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|-----|-----|-----|-----|-----|-----|-----|
| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 0.0 | 1.16 | 1.16 | 1.16 | 1.12 | 1.12 | 1.12 | 1.04 | 1.04 | 1.04 | .97 | .97 | .97 | .91 | .91 | .91 | .88 |
| 1.0 | .95 | .89 | .84 | .92 | .86 | .82 | .85 | .81 | .77 | .79 | .75 | .72 | .73 | .70 | .68 | .65 |
| 2.0 | .81 | .72 | .65 | .78 | .70 | .64 | .72 | .66 | .60 | .67 | .62 | .57 | .62 | .58 | .54 | .51 |
| 3.0 | .70 | .60 | .53 | .67 | .59 | .51 | .62 | .55 | .49 | .58 | .52 | .47 | .54 | .49 | .44 | .41 |
| 4.0 | .61 | .51 | .44 | .59 | .50 | .43 | .55 | .47 | .41 | .51 | .44 | .39 | .47 | .42 | .37 | .34 |
| 5.0 | .54 | .45 | .37 | .53 | .43 | .37 | .49 | .41 | .35 | .46 | .39 | .33 | .42 | .37 | .32 | .29 |
| 6.0 | .49 | .39 | .32 | .47 | .38 | .32 | .44 | .36 | .30 | .41 | .34 | .29 | .38 | .32 | .28 | .25 |
| 7.0 | .44 | .35 | .28 | .43 | .34 | .28 | .40 | .32 | .27 | .37 | .31 | .26 | .35 | .29 | .25 | .22 |
| 8.0 | .40 | .31 | .25 | .39 | .31 | .25 | .37 | .29 | .24 | .34 | .28 | .23 | .32 | .26 | .22 | .20 |
| 9.0 | .37 | .28 | .23 | .36 | .28 | .22 | .34 | .26 | .21 | .32 | .25 | .21 | .30 | .24 | .20 | .18 |
| 10.0 | .34 | .26 | .20 | .33 | .25 | .20 | .31 | .24 | .19 | .29 | .23 | .19 | .28 | .22 | .18 | .16 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 49.8%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

WEC AND CCEC

| | | |
|---|-----------|------------------|
| Test:U:120.00V I:0.4348A P:51.910W PF:0.9950 Freq:60.00Hz Lamp Flux:7250x1 lm | | |
| NAME: ASD Lighting Corp | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting Corp | SUR.: | Shielding Angle: |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .420 | .239 | .076 | .409 | .233 | .074 | .388 | .223 | .071 | .369 | .213 | .068 | .351 | .204 | .066 | |
| 2.0 | .356 | .195 | .060 | .346 | .190 | .059 | .327 | .182 | .056 | .310 | .174 | .054 | .294 | .166 | .052 | |
| 3.0 | .312 | .166 | .050 | .303 | .162 | .049 | .286 | .155 | .047 | .270 | .148 | .045 | .256 | .142 | .044 | |
| 4.0 | .278 | .144 | .042 | .270 | .141 | .042 | .255 | .135 | .040 | .240 | .129 | .039 | .227 | .124 | .038 | |
| 5.0 | .251 | .128 | .037 | .244 | .125 | .036 | .230 | .120 | .035 | .217 | .115 | .034 | .205 | .110 | .033 | |
| 6.0 | .229 | .115 | .033 | .222 | .112 | .032 | .210 | .107 | .031 | .198 | .103 | .030 | .187 | .098 | .029 | |
| 7.0 | .210 | .104 | .029 | .204 | .102 | .029 | .193 | .097 | .028 | .182 | .093 | .027 | .172 | .089 | .026 | |
| 8.0 | .194 | .095 | .027 | .189 | .093 | .026 | .178 | .089 | .025 | .169 | .085 | .025 | .160 | .082 | .024 | |
| 9.0 | .180 | .087 | .024 | .175 | .086 | .024 | .166 | .082 | .023 | .157 | .079 | .023 | .149 | .076 | .022 | |
| 10.0 | .169 | .081 | .022 | .164 | .079 | .022 | .155 | .076 | .021 | .147 | .073 | .021 | .139 | .070 | .020 | |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .284 | .284 | .284 | .243 | .243 | .243 | .166 | .166 | .166 | .095 | .095 | .095 | .030 | .030 | .030 | |
| 1.0 | .283 | .250 | .220 | .242 | .214 | .190 | .165 | .147 | .131 | .095 | .085 | .076 | .030 | .027 | .025 | |
| 2.0 | .276 | .227 | .185 | .236 | .195 | .160 | .162 | .135 | .112 | .093 | .079 | .066 | .030 | .025 | .021 | |
| 3.0 | .268 | .210 | .164 | .230 | .181 | .142 | .158 | .126 | .100 | .091 | .074 | .059 | .029 | .024 | .019 | |
| 4.0 | .260 | .198 | .150 | .223 | .171 | .130 | .153 | .119 | .092 | .089 | .070 | .054 | .029 | .023 | .018 | |
| 5.0 | .252 | .188 | .141 | .216 | .163 | .122 | .149 | .114 | .086 | .086 | .067 | .051 | .028 | .022 | .017 | |
| 6.0 | .244 | .180 | .134 | .210 | .156 | .116 | .145 | .109 | .082 | .084 | .064 | .049 | .027 | .021 | .016 | |
| 7.0 | .237 | .173 | .129 | .204 | .150 | .112 | .141 | .105 | .079 | .082 | .062 | .047 | .026 | .020 | .016 | |
| 8.0 | .230 | .167 | .125 | .198 | .145 | .109 | .137 | .102 | .077 | .080 | .060 | .046 | .026 | .020 | .015 | |
| 9.0 | .223 | .163 | .122 | .192 | .141 | .106 | .133 | .099 | .075 | .078 | .059 | .045 | .025 | .019 | .015 | |
| 10.0 | .217 | .158 | .119 | .187 | .138 | .104 | .130 | .097 | .074 | .076 | .057 | .044 | .025 | .019 | .015 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 49.8%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|------------------|------|------|------|-----------|----------------|------|------------------|------|------|
| Test:U:120.00V I:0.4348A P:51.910W PF:0.9950 Freq:60.00Hz Lamp Flux:7250x1 lm | | | | | | | | | | |
| NAME: ASD Lighting Corp | | | | | TYPE: LED | | | WEIGHT: | | |
| SPEC.: | | | | | 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 | 24.7 | 26.2 | 25.3 | 26.8 | 27.4 | 29.9 | 31.4 | 30.4 | 31.9 | 32.5 |
| 3H | 27.2 | 28.6 | 27.8 | 29.2 | 29.8 | 33.7 | 35.1 | 34.3 | 35.7 | 36.3 |
| 4H | 28.1 | 29.4 | 28.7 | 30.0 | 30.7 | 35.6 | 37.0 | 36.2 | 37.5 | 38.2 |
| 6H | 28.7 | 29.9 | 29.3 | 30.5 | 31.2 | 37.5 | 38.8 | 38.1 | 39.4 | 40.1 |
| 8H | 28.9 | 30.1 | 29.5 | 30.7 | 31.3 | 38.5 | 39.7 | 39.1 | 40.3 | 41.0 |
| 12H | 29.0 | 30.2 | 29.6 | 30.8 | 31.5 | 39.7 | 40.8 | 40.3 | 41.4 | 42.2 |
| 4H 2H | 27.0 | 28.3 | 27.6 | 28.9 | 29.5 | 30.2 | 31.5 | 30.8 | 32.1 | 32.7 |
| 3H | 29.3 | 30.4 | 29.9 | 31.1 | 31.7 | 34.6 | 35.7 | 35.2 | 36.4 | 37.0 |
| 4H | 30.3 | 31.4 | 30.9 | 32.0 | 32.7 | 36.8 | 37.8 | 37.4 | 38.5 | 39.2 |
| 6H | 31.2 | 32.2 | 31.8 | 32.8 | 33.5 | 38.9 | 39.9 | 39.6 | 40.5 | 41.3 |
| 8H | 31.6 | 32.5 | 32.2 | 33.1 | 33.8 | 40.0 | 40.9 | 40.6 | 41.6 | 42.3 |
| 12H | 31.8 | 32.7 | 32.5 | 33.3 | 34.0 | 41.4 | 42.2 | 42.0 | 42.9 | 43.6 |
| 8H 4H | 32.6 | 33.5 | 33.3 | 34.2 | 34.9 | 37.1 | 38.0 | 37.7 | 38.7 | 39.4 |
| 6H | 33.8 | 34.5 | 34.4 | 35.2 | 35.9 | 39.6 | 40.4 | 40.2 | 41.0 | 41.8 |
| 8H | 34.2 | 35.0 | 34.9 | 35.6 | 36.4 | 40.9 | 41.6 | 41.6 | 42.3 | 43.1 |
| 12H | 34.7 | 35.3 | 35.4 | 36.0 | 36.8 | 42.6 | 43.2 | 43.2 | 43.9 | 44.7 |
| 12H 4H | 33.4 | 34.3 | 34.1 | 34.9 | 35.7 | 37.1 | 38.0 | 37.8 | 38.6 | 39.3 |
| 6H | 34.9 | 35.6 | 35.5 | 36.2 | 37.0 | 39.7 | 40.4 | 40.4 | 41.1 | 41.8 |
| 8H | 35.5 | 36.2 | 36.2 | 36.8 | 37.6 | 41.1 | 41.8 | 41.8 | 42.5 | 43.3 |
| CIE190: 2010 | | | | | | | | | | |
| | | | | | | | | | | |

CIE190: 2010
Area: 0.052725 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 08 July 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
Humidity: 49.8%
Test Distance: 2.500m [K=1.0469]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|-----------|------------------|
| Test:U:120.00V I:0.4348A P:51.910W PF:0.9950 Freq:60.00Hz Lamp Flux:7250x1 lm | | |
| NAME: ASD Lighting Corp | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting Corp | SUR.: | Shielding Angle: |

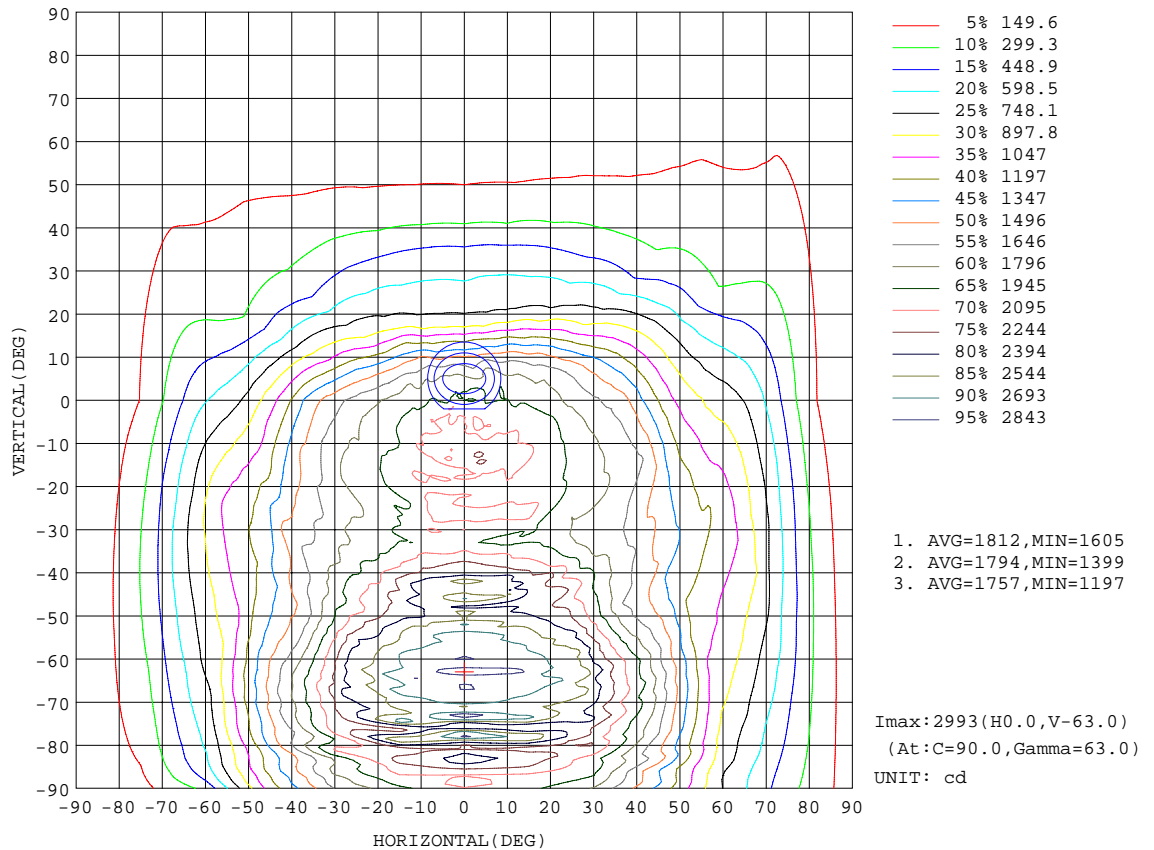
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 49 | 36 | 29 | 48 | 36 | 28 | 46 | 35 | 28 | 21 |
| 0.80 | 57 | 44 | 36 | 56 | 44 | 36 | 54 | 42 | 35 | 27 |
| 1.00 | 65 | 52 | 43 | 63 | 51 | 43 | 60 | 52 | 42 | 33 |
| 1.25 | 72 | 59 | 50 | 69 | 57 | 49 | 66 | 55 | 48 | 39 |
| 1.50 | 77 | 64 | 55 | 74 | 63 | 54 | 70 | 60 | 53 | 43 |
| 2.00 | 84 | 72 | 64 | 81 | 71 | 63 | 76 | 67 | 60 | 49 |
| 2.50 | 88 | 78 | 70 | 85 | 76 | 68 | 80 | 72 | 65 | 54 |
| 3.00 | 92 | 83 | 75 | 89 | 80 | 73 | 83 | 76 | 70 | 58 |
| 4.00 | 97 | 89 | 82 | 94 | 86 | 80 | 87 | 81 | 76 | 63 |
| 5.00 | 100 | 93 | 87 | 97 | 90 | 84 | 90 | 85 | 80 | 66 |
| 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: 08 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 49.8%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|-----------|------------------|
| Test:U:120.00V I:0.4348A P:51.910W PF:0.9950 Freq:60.00Hz Lamp Flux:7250x1 lm | | |
| NAME: ASD Lighting Corp | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting Corp | SUR.: | Shielding Angle: |

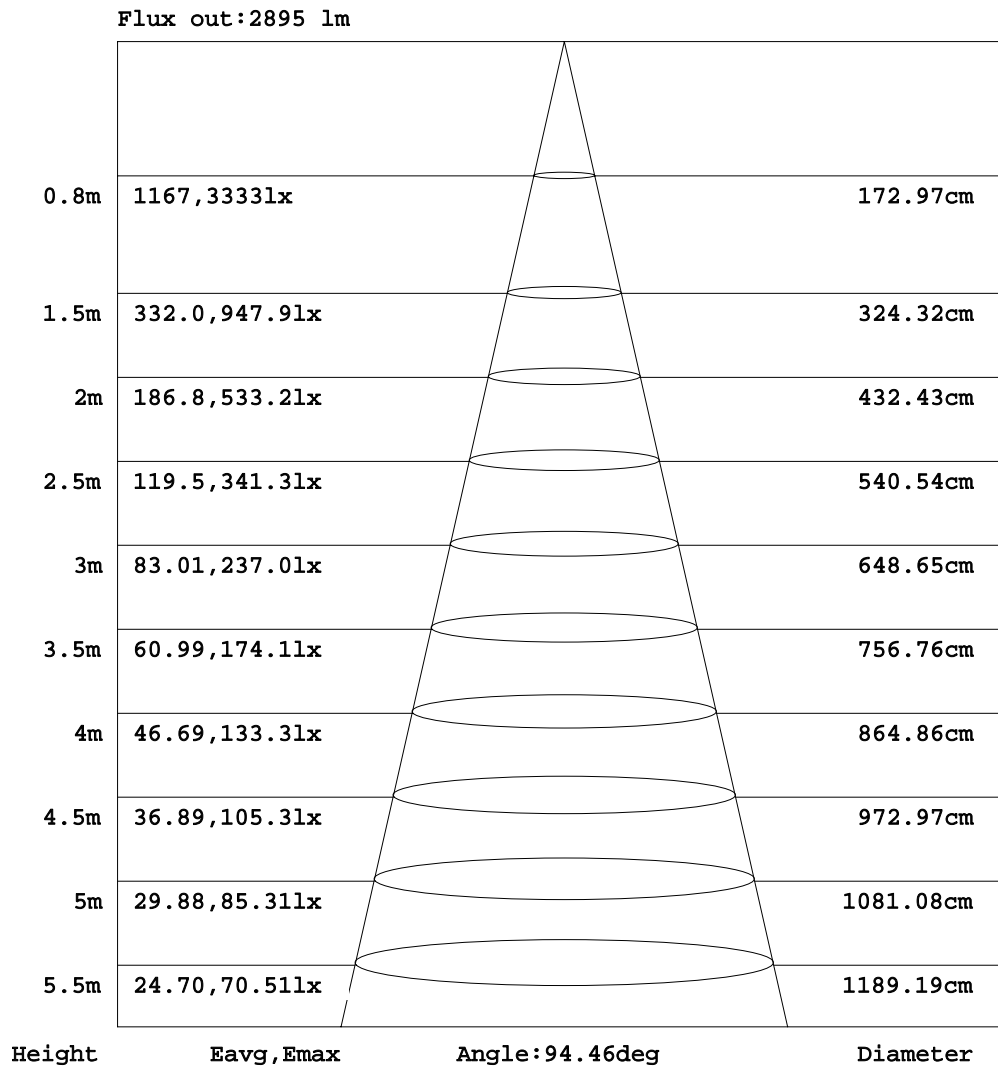


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 49.8%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

AAI Figure

| | | |
|---|-----------|------------------|
| Test:U:120.00V I:0.4348A P:51.910W PF:0.9950 Freq:60.00Hz Lamp Flux:7250x1 lm | | |
| NAME: ASD Lighting Corp | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting Corp | SUR.: | Shielding Angle: |



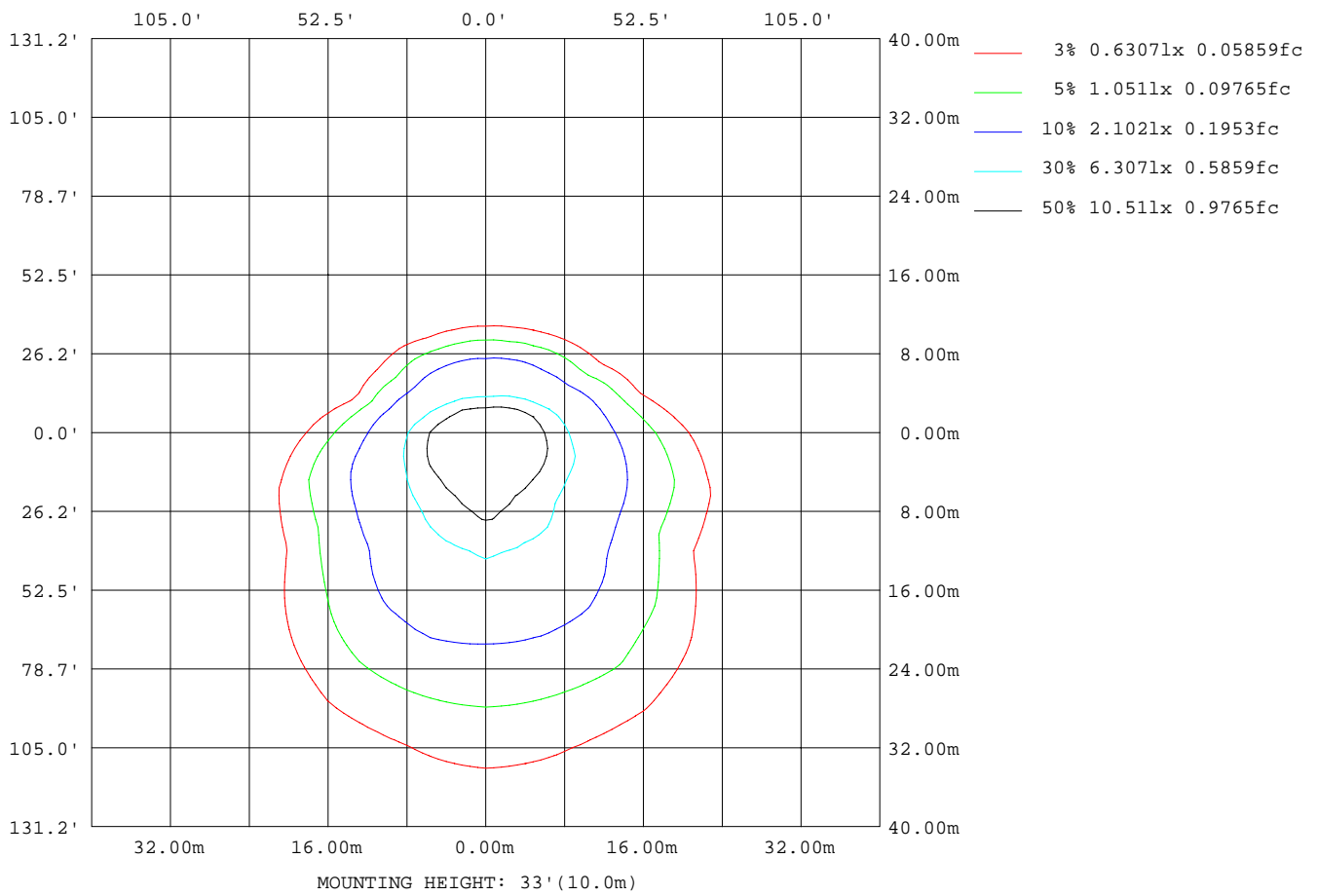
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators:Alan Wang
 Test Date:08 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 49.8%
 Test Distance:2.500m [K=1.0469]
 Remarks:

ISOLUX DIAGRAM

| | | |
|---|-----------|------------------|
| Test:U:120.00V I:0.4348A P:51.910W PF:0.9950 Freq:60.00Hz Lamp Flux:7250x1 lm | | |
| NAME: ASD Lighting Corp | TYPE: LED | WEIGHT: |
| SPEC.: | 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: 08 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 49.8%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

LED Avg.L Report

| | | |
|---|-----------|------------------|
| Test:U:120.00V I:0.4348A P:51.910W PF:0.9950 Freq:60.00Hz Lamp Flux:7250x1 lm | | |
| NAME: ASD Lighting Corp | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting Corp | SUR.: | Shielding Angle: |

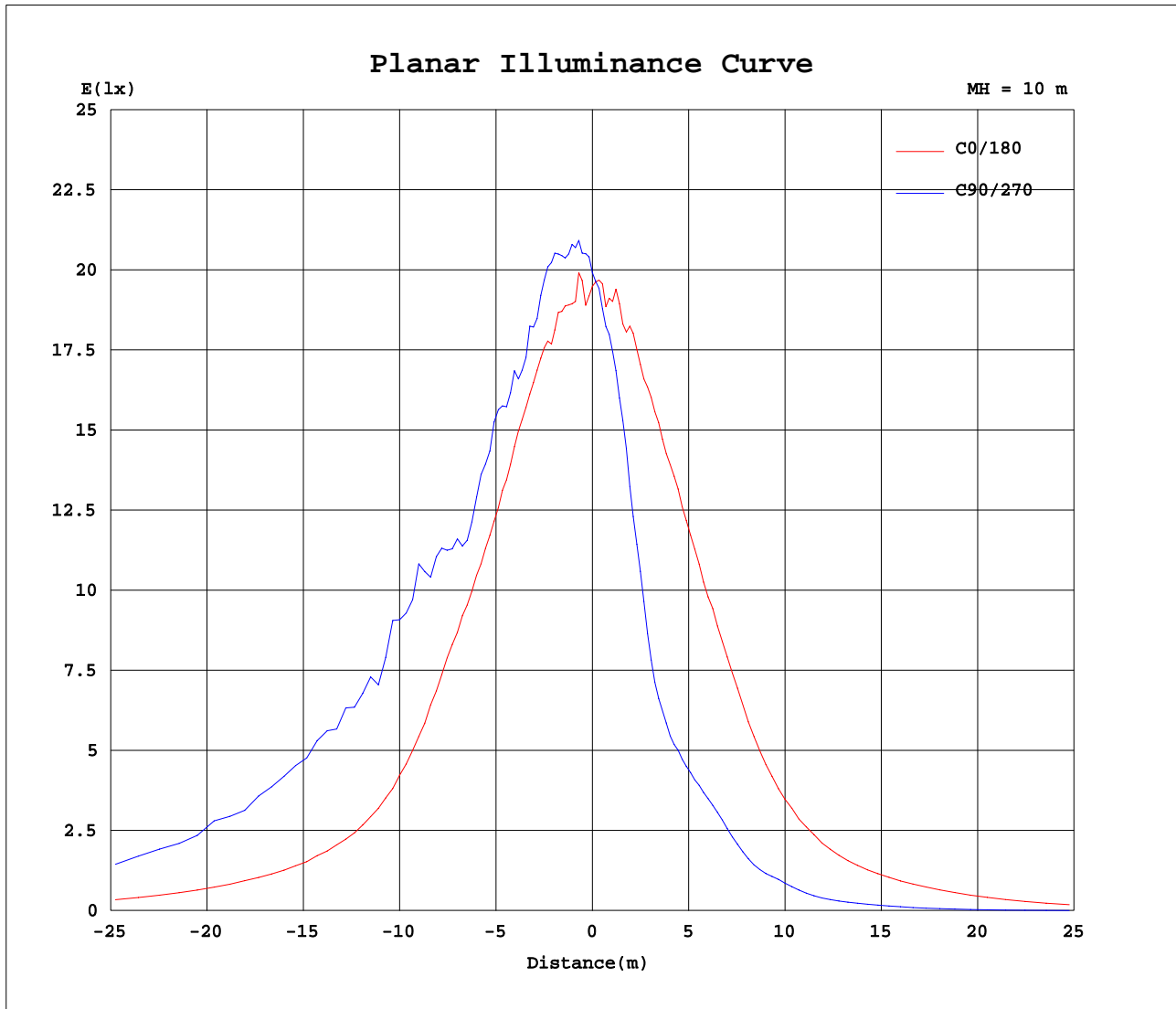
| AvgL | cd/m2 |
|----------------|--------|
| L_0~180(65)av | 26853 |
| L_0~180(75)av | 19597 |
| L_0~180(85)av | 18750 |
| L_90~270(65)av | 62840 |
| L_90~270(75)av | 83574 |
| L_90~270(85)av | 254665 |
| L_45(65)av | 40749 |
| L_45(75)av | 65196 |
| L_45(85)av | 157790 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 49.8%
 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: 08 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
Humidity: 49.8%
Test Distance: 2.500m [K=1.0469]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-----------|------------------|
| Test:U:120.00V I:0.4348A P:51.910W PF:0.9950 Freq:60.00Hz Lamp Flux:7250x1 lm | | |
| NAME: ASD Lighting Corp | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting Corp | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C(DEG) γ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 1949 | 1928 | 1917 | 1975 | 1957 | 1985 | 1991 | 2013 | 2046 | 2067 | 1941 | 1944 | 1949 | 1928 | 1917 | 1975 | 1957 | 1985 | 1991 |
| 5 | 1923 | 1962 | 2025 | 2061 | 2125 | 2033 | 2093 | 2151 | 2015 | 2110 | 2041 | 1967 | 1934 | 1842 | 1869 | 1866 | 1853 | 1853 | 1819 |
| 10 | 1955 | 2019 | 2048 | 2077 | 2051 | 2181 | 2146 | 2151 | 2166 | 2058 | 2059 | 1972 | 1891 | 1824 | 1799 | 1685 | 1568 | 1539 | 1510 |
| 15 | 1914 | 2021 | 2091 | 2129 | 2174 | 2290 | 2131 | 2118 | 2094 | 2118 | 2031 | 1944 | 1841 | 1730 | 1581 | 1422 | 1198 | 1119 | 1071 |
| 20 | 1848 | 2000 | 2072 | 2128 | 2101 | 1981 | 2034 | 2038 | 2123 | 2058 | 1905 | 1915 | 1773 | 1548 | 1288 | 1098 | 832 | 772 | 752 |
| 25 | 1763 | 1912 | 1984 | 2023 | 2074 | 2057 | 2117 | 2108 | 2071 | 1993 | 1895 | 1809 | 1693 | 1372 | 996 | 799 | 691 | 648 | 634 |
| 30 | 1667 | 1822 | 1907 | 2003 | 2136 | 2013 | 2096 | 2067 | 1941 | 1889 | 1872 | 1740 | 1579 | 1169 | 811 | 666 | 600 | 579 | 567 |
| 35 | 1580 | 1772 | 1838 | 1817 | 1899 | 1952 | 2112 | 1950 | 1931 | 1782 | 1766 | 1625 | 1440 | 959 | 656 | 560 | 516 | 490 | 466 |
| 40 | 1429 | 1691 | 1726 | 1726 | 2032 | 2260 | 2316 | 2251 | 1962 | 1814 | 1634 | 1484 | 1209 | 769 | 498 | 451 | 379 | 333 | 317 |
| 45 | 1196 | 1570 | 1646 | 1774 | 2250 | 2389 | 2568 | 2454 | 2035 | 1759 | 1557 | 1281 | 982 | 571 | 368 | 337 | 271 | 245 | 242 |
| 50 | 1007 | 1336 | 1571 | 1827 | 2233 | 2382 | 2554 | 2358 | 2149 | 1736 | 1545 | 1140 | 794 | 403 | 291 | 257 | 188 | 164 | 149 |
| 55 | 907 | 1230 | 1457 | 1741 | 2291 | 2655 | 2811 | 2622 | 2203 | 1680 | 1321 | 1087 | 674 | 269 | 235 | 184 | 131 | 107 | 106 |
| 60 | 828 | 1197 | 1276 | 1691 | 2496 | 2769 | 2861 | 2762 | 2346 | 1546 | 1184 | 1036 | 589 | 200 | 191 | 120 | 76.1 | 66.4 | 60.7 |
| 65 | 742 | 1126 | 1183 | 1846 | 2550 | 2749 | 2778 | 2861 | 2448 | 1594 | 1075 | 868 | 455 | 180 | 142 | 81.7 | 39.3 | 27.0 | 22.7 |
| 70 | 581 | 989 | 1078 | 1893 | 2586 | 2645 | 2804 | 2593 | 2417 | 1696 | 951 | 714 | 291 | 164 | 98.5 | 44.2 | 2.91 | 2.22 | 2.04 |
| 75 | 380 | 826 | 1029 | 1885 | 2382 | 2601 | 2278 | 2787 | 2241 | 1622 | 867 | 530 | 154 | 138 | 63.2 | 16.2 | 2.82 | 2.75 | 2.51 |
| 80 | 193 | 653 | 946 | 1715 | 2170 | 2361 | 2233 | 2462 | 1963 | 1487 | 752 | 364 | 96.0 | 108 | 42.5 | 11.9 | 3.33 | 3.19 | 2.90 |
| 85 | 101 | 493 | 841 | 1598 | 2012 | 2252 | 2337 | 2178 | 1795 | 1278 | 626 | 231 | 70.8 | 78.7 | 31.8 | 8.69 | 3.57 | 3.39 | 3.13 |
| 90 | 69.8 | 348 | 743 | 1310 | 1785 | 1984 | 2084 | 1911 | 1651 | 1118 | 335 | 103 | 61.3 | 61.1 | 23.9 | 6.19 | 3.31 | 3.33 | 3.16 |
| 95 | 56.8 | 160 | 232 | 704 | 1361 | 1556 | 1617 | 1497 | 1010 | 367 | 250 | 72.1 | 55.1 | 51.9 | 16.5 | 4.03 | 2.73 | 3.07 | 3.11 |
| 100 | 43.7 | 73.0 | 355 | 198 | 318 | 421 | 484 | 441 | 226 | 294 | 243 | 61.4 | 42.9 | 32.3 | 11.8 | 4.39 | 4.36 | 5.71 | 6.07 |
| 105 | 38.5 | 56.7 | 279 | 315 | 474 | 667 | 658 | 675 | 486 | 284 | 138 | 45.5 | 47.4 | 16.8 | 6.85 | 4.45 | 5.15 | 6.74 | 7.40 |
| 110 | 62.8 | 37.7 | 179 | 327 | 612 | 862 | 912 | 866 | 555 | 275 | 110 | 33.0 | 55.1 | 14.7 | 8.36 | 4.48 | 5.53 | 6.86 | 7.31 |
| 115 | 52.8 | 26.1 | 139 | 299 | 584 | 676 | 697 | 661 | 498 | 250 | 94.6 | 25.3 | 40.4 | 10.3 | 7.14 | 4.85 | 5.82 | 6.77 | 7.20 |
| 120 | 37.5 | 21.4 | 129 | 252 | 442 | 578 | 609 | 550 | 392 | 224 | 90.5 | 19.1 | 27.7 | 6.97 | 5.87 | 4.88 | 5.83 | 6.60 | 6.88 |
| 125 | 25.0 | 17.1 | 124 | 210 | 342 | 412 | 427 | 388 | 284 | 173 | 91.9 | 9.65 | 19.2 | 5.11 | 4.83 | 4.76 | 5.68 | 6.29 | 6.49 |
| 130 | 10.7 | 5.09 | 106 | 158 | 236 | 286 | 301 | 272 | 195 | 123 | 71.9 | 6.24 | 7.91 | 2.91 | 3.66 | 3.15 | 5.23 | 5.86 | 5.93 |
| 135 | 3.87 | 15.0 | 87.2 | 112 | 158 | 202 | 211 | 187 | 130 | 105 | 42.2 | 6.93 | 4.60 | 4.97 | 2.73 | 3.81 | 3.75 | 3.67 | 4.36 |
| 140 | 3.23 | 8.50 | 45.6 | 91.3 | 106 | 128 | 134 | 120 | 89.6 | 74.3 | 20.1 | 4.32 | 3.54 | 4.32 | 3.39 | 3.50 | 4.05 | 4.54 | 4.40 |
| 145 | 3.48 | 4.75 | 12.0 | 58.1 | 75.3 | 80.5 | 80.5 | 78.2 | 69.0 | 44.3 | 4.47 | 4.06 | 3.79 | 3.37 | 3.29 | 3.29 | 3.30 | 3.86 | 3.85 |
| 150 | 3.46 | 3.83 | 4.07 | 29.3 | 55.1 | 60.8 | 59.7 | 58.8 | 45.0 | 22.2 | 4.47 | 4.37 | 3.89 | 3.11 | 3.42 | 3.19 | 3.55 | 3.16 | 3.06 |
| 155 | 3.60 | 4.19 | 5.11 | 4.84 | 28.3 | 37.2 | 39.7 | 36.8 | 22.9 | 4.63 | 4.16 | 3.66 | 3.87 | 3.11 | 2.55 | 3.28 | 3.78 | 3.62 | 3.23 |
| 160 | 3.71 | 4.45 | 4.14 | 5.14 | 4.37 | 13.0 | 14.2 | 9.36 | 4.60 | 4.35 | 4.50 | 4.74 | 3.35 | 3.50 | 3.14 | 3.50 | 3.51 | 3.35 | 3.15 |
| 165 | 3.87 | 4.61 | 4.55 | 3.71 | 3.98 | 5.20 | 5.66 | 5.57 | 4.34 | 4.52 | 4.80 | 4.66 | 4.18 | 4.26 | 3.74 | 3.28 | 3.65 | 3.20 | 2.68 |
| 170 | 2.86 | 3.14 | 3.73 | 3.70 | 4.24 | 4.36 | 4.26 | 4.38 | 4.70 | 4.76 | 4.64 | 4.35 | 4.18 | 4.23 | 4.15 | 3.70 | 3.34 | 2.58 | 2.03 |
| 175 | 3.22 | 3.18 | 3.39 | 3.72 | 4.04 | 4.41 | 4.46 | 4.47 | 4.20 | 3.29 | 2.97 | 2.63 | 4.13 | 4.15 | 4.27 | 3.95 | 2.72 | 2.06 | 1.76 |
| 180 | 3.01 | 3.04 | 2.96 | 2.87 | 3.28 | 3.24 | 3.18 | 2.88 | 2.80 | 2.46 | 2.08 | 1.42 | 3.06 | 2.77 | 2.94 | 2.80 | 2.93 | 2.94 | 2.94 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 49.8%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-----------|------------------|
| Test:U:120.00V I:0.4348A P:51.910W PF:0.9950 Freq:60.00Hz Lamp Flux:7250x1 lm | | |
| NAME: ASD Lighting Corp | TYPE: LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting Corp | SUR.: | Shielding Angle: |

Table--2

UNIT: cd

| C(DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 2013 | 2046 | 2067 | 1941 | 1944 | | | | | | | | | | | | | | |
| 5 | 1818 | 1819 | 1907 | 1948 | 1949 | | | | | | | | | | | | | | |
| 10 | 1526 | 1709 | 1792 | 1848 | 1867 | | | | | | | | | | | | | | |
| 15 | 1166 | 1288 | 1540 | 1734 | 1836 | | | | | | | | | | | | | | |
| 20 | 779 | 931 | 1196 | 1544 | 1764 | | | | | | | | | | | | | | |
| 25 | 663 | 722 | 901 | 1274 | 1626 | | | | | | | | | | | | | | |
| 30 | 596 | 627 | 718 | 999 | 1446 | | | | | | | | | | | | | | |
| 35 | 507 | 554 | 621 | 818 | 1263 | | | | | | | | | | | | | | |
| 40 | 351 | 438 | 508 | 682 | 1074 | | | | | | | | | | | | | | |
| 45 | 256 | 305 | 401 | 522 | 890 | | | | | | | | | | | | | | |
| 50 | 170 | 221 | 293 | 370 | 707 | | | | | | | | | | | | | | |
| 55 | 111 | 156 | 224 | 290 | 524 | | | | | | | | | | | | | | |
| 60 | 72.2 | 101 | 160 | 237 | 363 | | | | | | | | | | | | | | |
| 65 | 30.7 | 55.6 | 110 | 197 | 253 | | | | | | | | | | | | | | |
| 70 | 2.23 | 19.7 | 73.0 | 160 | 195 | | | | | | | | | | | | | | |
| 75 | 2.71 | 4.73 | 35.4 | 120 | 170 | | | | | | | | | | | | | | |
| 80 | 3.12 | 4.03 | 21.6 | 85.5 | 151 | | | | | | | | | | | | | | |
| 85 | 3.33 | 3.83 | 16.2 | 61.1 | 126 | | | | | | | | | | | | | | |
| 90 | 3.18 | 3.29 | 11.9 | 46.9 | 96.0 | | | | | | | | | | | | | | |
| 95 | 2.96 | 2.50 | 8.07 | 36.5 | 73.7 | | | | | | | | | | | | | | |
| 100 | 5.52 | 3.68 | 6.13 | 27.0 | 63.1 | | | | | | | | | | | | | | |
| 105 | 6.66 | 4.77 | 5.77 | 10.8 | 31.8 | | | | | | | | | | | | | | |
| 110 | 6.42 | 5.29 | 4.23 | 14.3 | 6.07 | | | | | | | | | | | | | | |
| 115 | 6.70 | 5.71 | 5.68 | 12.2 | 6.58 | | | | | | | | | | | | | | |
| 120 | 6.51 | 5.80 | 5.44 | 10.0 | 5.54 | | | | | | | | | | | | | | |
| 125 | 6.10 | 5.69 | 5.07 | 7.41 | 4.71 | | | | | | | | | | | | | | |
| 130 | 5.67 | 5.30 | 3.23 | 5.94 | 4.15 | | | | | | | | | | | | | | |
| 135 | 3.62 | 3.44 | 3.94 | 4.64 | 3.95 | | | | | | | | | | | | | | |
| 140 | 4.17 | 4.25 | 3.40 | 3.61 | 8.08 | | | | | | | | | | | | | | |
| 145 | 3.26 | 3.56 | 3.46 | 4.02 | 5.70 | | | | | | | | | | | | | | |
| 150 | 2.39 | 3.62 | 4.03 | 3.61 | 4.40 | | | | | | | | | | | | | | |
| 155 | 3.31 | 3.87 | 3.92 | 3.93 | 3.54 | | | | | | | | | | | | | | |
| 160 | 2.99 | 2.84 | 3.74 | 4.05 | 3.86 | | | | | | | | | | | | | | |
| 165 | 2.40 | 3.47 | 3.07 | 3.82 | 4.18 | | | | | | | | | | | | | | |
| 170 | 1.89 | 2.11 | 2.20 | 2.60 | 4.24 | | | | | | | | | | | | | | |
| 175 | 1.73 | 1.73 | 1.93 | 2.42 | 2.89 | | | | | | | | | | | | | | |
| 180 | 2.91 | 2.83 | 2.44 | 2.28 | 2.61 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 08 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 49.8%
 Test Distance: 2.500m [K=1.0469]
 Remarks: