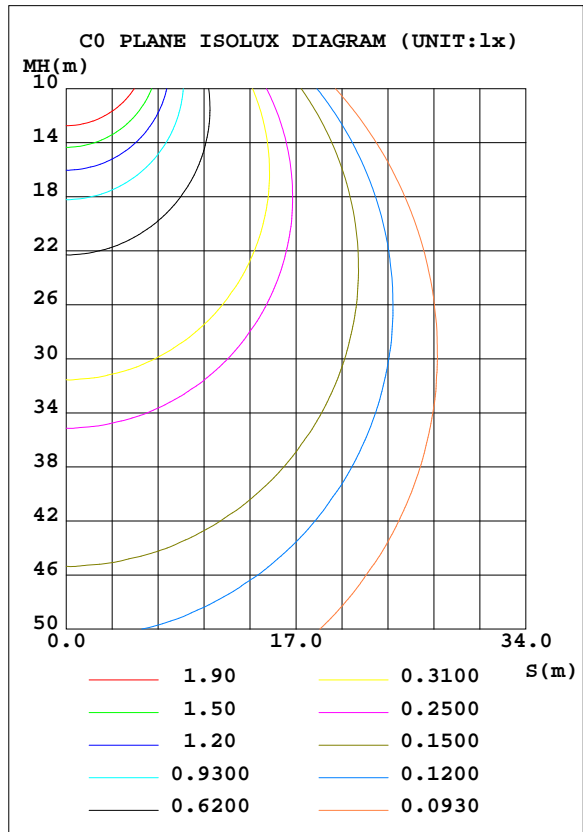
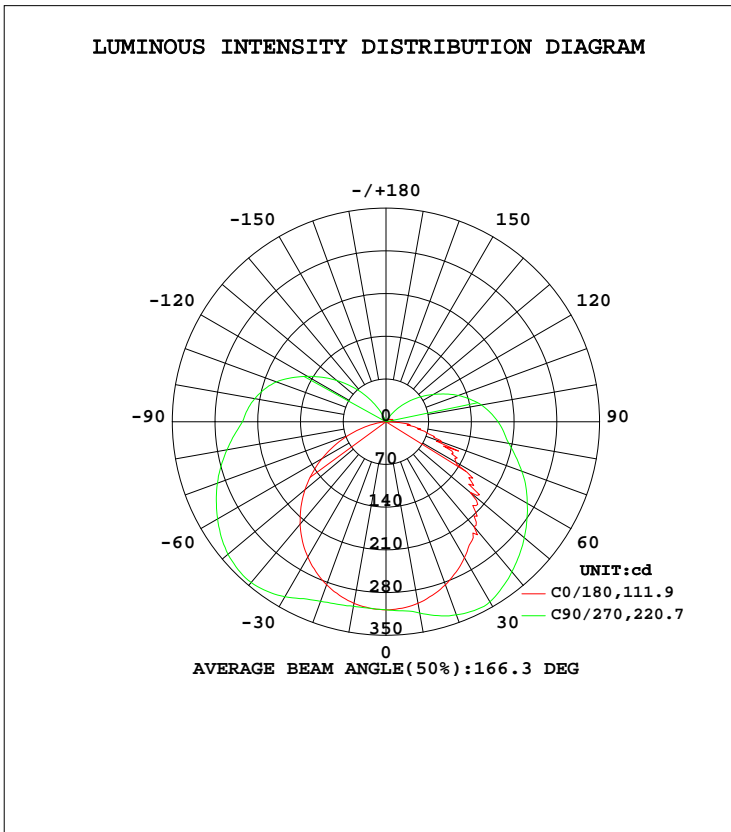


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.1946A P:23.18W PF:0.9924 Lamp Flux:1775.53x1 lm | | |
| NAME: ASD-OLWS-22-MV-24N23CC-BZ 5000K | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 76.60 lm/W | | | |
|---------------------------------------|---------|----------------------------------|--------------|-------------------------|-----------|
| MODEL ASD-OLWS-22-MV-24N23CC-BZ 5000K | | 344.2 | S/MH(C0/180) | 1.24 | |
| NOMINAL POWER(W) | | LOR(%) | 100.0 | S/MH(C90/270) | 1.60 |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 1775.5 | η UP, DN(C0-180) | 12.7,41.0 |
| NOMINAL FLUX(lm) | 1775.53 | CIE CLASS | SEMI-D. | η UP, DN(C180-360) | 8.3,38.1 |
| LAMPS INSIDE | 1 | η up(%) | 21.0 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE(V) | 120 | η down(%) | 79.0 | CIBSE SHR MAX | 1.55 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [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 | 302.3 | 303.5 | 307.1 | 304.4 | 302.0 | 309.7 | 318.3 | 309.0 | 0- 10 | 29.35 | 29.35 | 1.65,1.65 |
| 20 | 284.3 | 296.7 | 313.3 | 298.3 | 284.5 | 315.1 | 336.6 | 314.8 | 10- 20 | 86.84 | 116.2 | 6.54,6.54 |
| 30 | 256.3 | 288.7 | 330.9 | 291.5 | 257.2 | 311.1 | 340.8 | 310.8 | 20- 30 | 139.8 | 256.0 | 14.4,14.4 |
| 40 | 219.1 | 285.8 | 343.8 | 290.3 | 224.4 | 295.2 | 320.8 | 291.9 | 30- 40 | 183.4 | 439.4 | 24.8,24.8 |
| 50 | 173.3 | 274.6 | 337.8 | 283.8 | 180.2 | 260.1 | 295.8 | 256.0 | 40- 50 | 211.0 | 650.4 | 36.6,36.6 |
| 60 | 121.3 | 248.0 | 318.7 | 257.5 | 132.5 | 226.6 | 267.3 | 216.6 | 50- 60 | 218.7 | 869.2 | 49,49 |
| 70 | 66.45 | 213.2 | 293.8 | 224.6 | 97.13 | 183.1 | 236.8 | 178.0 | 60- 70 | 205.8 | 1075 | 60.5,60.5 |
| 80 | 18.23 | 178.5 | 264.5 | 189.3 | 47.64 | 145.8 | 204.5 | 140.2 | 70- 80 | 179.2 | 1254 | 70.6,70.6 |
| 90 | 0.1265 | 149.6 | 235.2 | 159.0 | 3.471 | 121.6 | 183.5 | 117.1 | 80- 90 | 148.8 | 1403 | 79,79 |
| 100 | 0.1559 | 133.5 | 218.5 | 142.9 | 10.09 | 97.50 | 158.9 | 93.40 | 90-100 | 126.1 | 1529 | 86.1,86.1 |
| 110 | 0.1902 | 105.9 | 191.2 | 114.9 | 11.52 | 70.24 | 126.3 | 66.10 | 100-110 | 101.6 | 1631 | 91.8,91.8 |
| 120 | 0.2499 | 76.27 | 149.2 | 83.38 | 7.756 | 44.09 | 89.78 | 41.48 | 110-120 | 71.59 | 1702 | 95.9,95.9 |
| 130 | 0.3123 | 46.90 | 105.5 | 52.14 | 5.718 | 21.49 | 55.97 | 19.75 | 120-130 | 43.40 | 1746 | 98.3,98.3 |
| 140 | 0.4768 | 19.44 | 62.99 | 23.54 | 3.557 | 3.922 | 25.94 | 3.300 | 130-140 | 21.45 | 1767 | 99.5,99.5 |
| 150 | 0.6914 | 1.277 | 23.39 | 1.605 | 2.098 | 2.240 | 2.668 | 1.141 | 140-150 | 6.978 | 1774 | 99.9,99.9 |
| 160 | 0.7350 | 0.9164 | 1.287 | 1.128 | 0.9386 | 1.224 | 1.627 | 1.391 | 150-160 | 1.093 | 1775 | 100,100 |
| 170 | 0.7175 | 0.9419 | 1.018 | 0.9245 | 0.7354 | 0.6881 | 0.9024 | 0.9434 | 160-170 | 0.2888 | 1775 | 100,100 |
| 180 | 0.9134 | 0.9153 | 0.7742 | 0.9198 | 0.9193 | 0.9164 | 0.9102 | 0.9003 | 170-180 | 0.0815 | 1776 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 542.62 lm

%lum = 30.6%

%lamp = 30.6%

Conical surface Flux(120deg): 869.18 lm

%lum = 49.0%

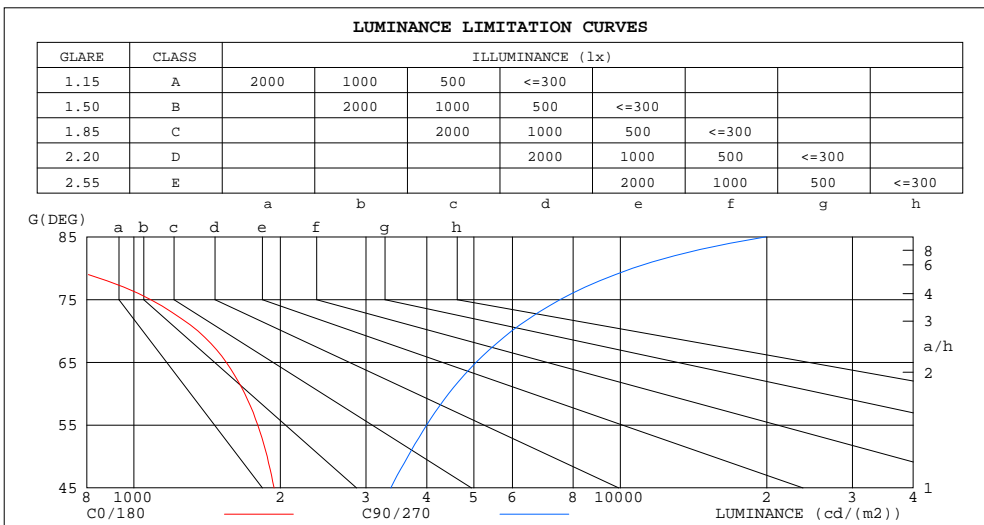
%lamp = 49.0%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.1946A P:23.18W PF:0.9924 Lamp Flux:1775.53x1 lm | | |
| NAME: ASD-OLWS-22-MV-24N23CC-BZ 5000K | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 315 | 19924 |
| 80 | 732 | 10601 |
| 75 | 1082 | 7523 |
| 70 | 1354 | 5980 |
| 65 | 1549 | 5053 |
| 60 | 1691 | 4436 |
| 55 | 1797 | 3999 |
| 50 | 1879 | 3658 |
| 45 | 1943 | 3374 |

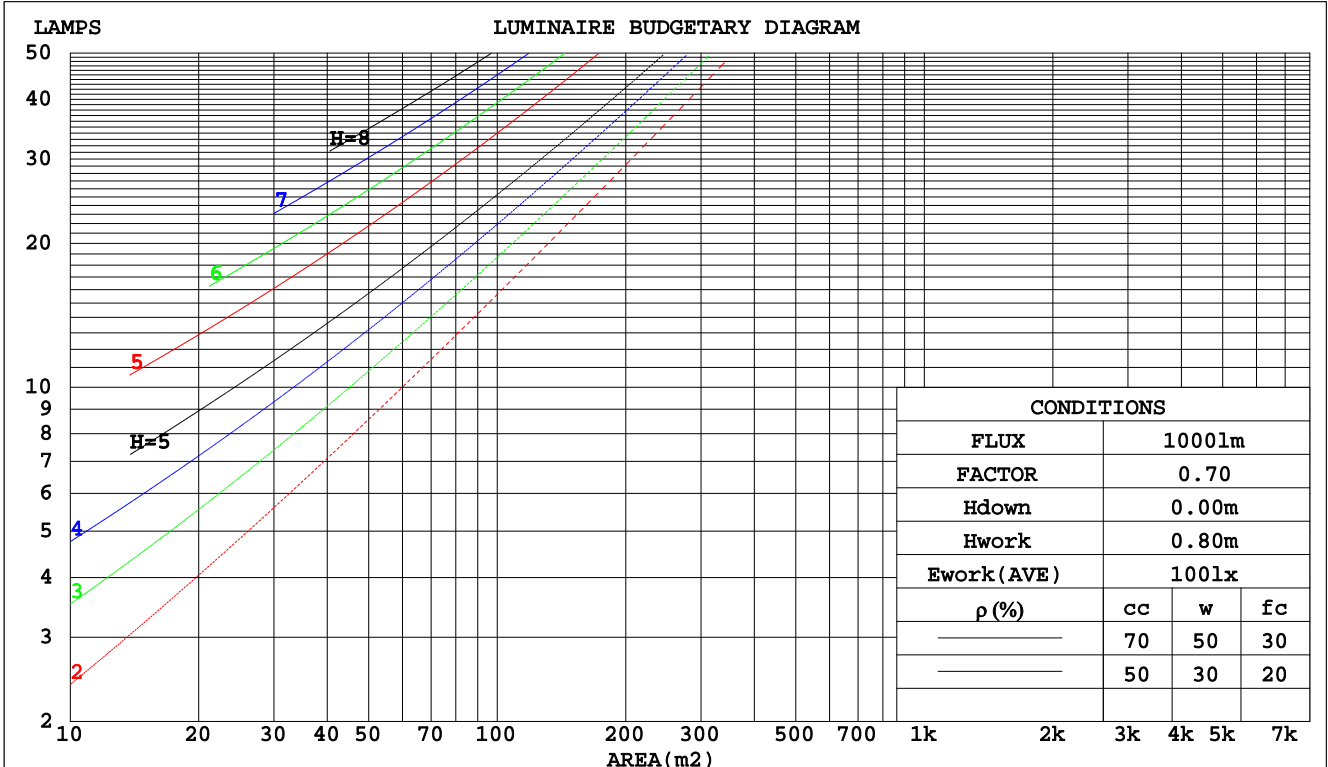
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.4DEG
 Operators: Carl
 Test Date: 2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 39%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.1946A P:23.18W PF:0.9924 Lamp Flux:1775.53x1 lm | | |
| NAME: ASD-OLWS-22-MV-24N23CC-BZ 5000K | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|--|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pw | | | | | | | | | | | | | | | | 0 |
| pfc | 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 | .99 | .99 | .99 | .91 | .91 | .91 | .83 | .83 | .83 | .79 |
| 1.0 | .94 | .89 | .84 | .90 | .85 | .80 | .81 | .77 | .74 | .74 | .71 | .68 | .67 | .64 | .62 | .58 |
| 2.0 | .80 | .72 | .65 | .76 | .69 | .63 | .69 | .63 | .58 | .63 | .58 | .54 | .57 | .53 | .49 | .46 |
| 3.0 | .69 | .60 | .52 | .66 | .57 | .51 | .60 | .53 | .47 | .54 | .48 | .44 | .49 | .44 | .40 | .37 |
| 4.0 | .60 | .51 | .43 | .58 | .49 | .42 | .52 | .45 | .39 | .48 | .41 | .36 | .43 | .38 | .34 | .31 |
| 5.0 | .53 | .44 | .37 | .51 | .42 | .35 | .46 | .39 | .33 | .42 | .36 | .31 | .38 | .33 | .29 | .26 |
| 6.0 | .48 | .38 | .31 | .46 | .37 | .30 | .42 | .34 | .28 | .38 | .31 | .27 | .34 | .29 | .25 | .22 |
| 7.0 | .43 | .34 | .27 | .41 | .33 | .26 | .38 | .30 | .25 | .34 | .28 | .23 | .31 | .26 | .22 | .19 |
| 8.0 | .39 | .30 | .24 | .37 | .29 | .23 | .34 | .27 | .22 | .31 | .25 | .20 | .29 | .23 | .19 | .17 |
| 9.0 | .35 | .27 | .21 | .34 | .26 | .21 | .31 | .24 | .19 | .29 | .23 | .18 | .26 | .21 | .17 | .15 |
| 10.0 | .33 | .24 | .19 | .31 | .24 | .19 | .29 | .22 | .17 | .27 | .21 | .16 | .24 | .19 | .15 | .13 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.1946A P:23.18W PF:0.9924 Lamp Flux:1775.53x1 lm | | |
| NAME: ASD-OLWS-22-MV-24N23CC-BZ 5000K | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |

| 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 | .401 | .228 | .072 | .387 | .221 | .070 | .361 | .207 | .066 | .338 | .195 | .063 | .316 | .183 | .059 | |
| 2.0 | .343 | .188 | .058 | .331 | .182 | .056 | .308 | .171 | .053 | .286 | .161 | .050 | .267 | .151 | .048 | |
| 3.0 | .303 | .161 | .048 | .292 | .156 | .047 | .271 | .147 | .045 | .252 | .138 | .042 | .234 | .129 | .040 | |
| 4.0 | .272 | .141 | .042 | .262 | .137 | .040 | .243 | .129 | .038 | .225 | .121 | .036 | .209 | .113 | .035 | |
| 5.0 | .246 | .126 | .036 | .237 | .122 | .035 | .220 | .114 | .034 | .204 | .107 | .032 | .189 | .101 | .030 | |
| 6.0 | .225 | .113 | .032 | .217 | .110 | .032 | .201 | .103 | .030 | .186 | .097 | .028 | .172 | .091 | .027 | |
| 7.0 | .207 | .103 | .029 | .200 | .100 | .028 | .185 | .094 | .027 | .172 | .088 | .026 | .159 | .083 | .024 | |
| 8.0 | .192 | .094 | .026 | .185 | .091 | .026 | .172 | .086 | .024 | .159 | .081 | .023 | .147 | .076 | .022 | |
| 9.0 | .179 | .086 | .024 | .172 | .084 | .024 | .160 | .079 | .022 | .148 | .074 | .021 | .137 | .070 | .020 | |
| 10.0 | .167 | .080 | .022 | .161 | .078 | .022 | .150 | .073 | .021 | .139 | .069 | .020 | .129 | .065 | .019 | |

| 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 | .350 | .350 | .350 | .299 | .299 | .299 | .204 | .204 | .204 | .117 | .117 | .117 | .038 | .038 | .038 | |
| 1.0 | .348 | .317 | .288 | .298 | .272 | .248 | .204 | .187 | .172 | .117 | .108 | .100 | .038 | .035 | .032 | |
| 2.0 | .341 | .294 | .254 | .292 | .253 | .220 | .200 | .175 | .153 | .116 | .102 | .090 | .037 | .033 | .029 | |
| 3.0 | .334 | .278 | .233 | .286 | .240 | .202 | .197 | .166 | .142 | .114 | .097 | .083 | .036 | .032 | .027 | |
| 4.0 | .326 | .265 | .219 | .280 | .229 | .190 | .193 | .160 | .134 | .111 | .094 | .079 | .036 | .030 | .026 | |
| 5.0 | .319 | .256 | .209 | .274 | .221 | .182 | .188 | .155 | .129 | .109 | .091 | .076 | .035 | .030 | .025 | |
| 6.0 | .311 | .248 | .202 | .267 | .215 | .176 | .184 | .150 | .125 | .107 | .088 | .074 | .035 | .029 | .024 | |
| 7.0 | .304 | .241 | .197 | .261 | .209 | .172 | .181 | .147 | .122 | .105 | .086 | .073 | .034 | .028 | .024 | |
| 8.0 | .297 | .236 | .194 | .256 | .204 | .169 | .177 | .144 | .120 | .103 | .085 | .071 | .033 | .028 | .024 | |
| 9.0 | .291 | .231 | .191 | .251 | .200 | .166 | .174 | .141 | .118 | .101 | .083 | .070 | .033 | .027 | .023 | |
| 10.0 | .285 | .227 | .188 | .246 | .197 | .164 | .170 | .139 | .117 | .099 | .082 | .070 | .032 | .027 | .023 | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.1946A P:23.18W PF:0.9924 Lamp Flux:1775.53x1 lm | | |
| NAME: ASD-OLWS-22-MV-24N23CC-BZ 5000K | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |

| | | | | | | | | | | |
|--|------------------|------|------|------|------|----------------|------|------|------|------|
| 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 | 13.5 | 14.9 | 14.1 | 15.5 | 16.1 | 17.3 | 18.6 | 17.8 | 19.2 | 19.8 |
| 3H | 14.9 | 16.2 | 15.5 | 16.8 | 17.4 | 20.2 | 21.5 | 20.8 | 22.0 | 22.7 |
| 4H | 15.4 | 16.6 | 16.0 | 17.2 | 17.9 | 21.8 | 23.0 | 22.4 | 23.6 | 24.3 |
| 6H | 15.7 | 16.8 | 16.3 | 17.5 | 18.2 | 23.6 | 24.8 | 24.2 | 25.4 | 26.1 |
| 8H | 15.8 | 16.8 | 16.4 | 17.5 | 18.2 | 24.6 | 25.7 | 25.3 | 26.3 | 27.1 |
| 12H | 15.8 | 16.8 | 16.4 | 17.4 | 18.2 | 25.8 | 26.8 | 26.4 | 27.5 | 28.2 |
| 4H 2H | 15.3 | 16.5 | 15.9 | 17.1 | 17.8 | 17.8 | 19.0 | 18.4 | 19.6 | 20.3 |
| 3H | 17.0 | 18.0 | 17.6 | 18.7 | 19.4 | 21.0 | 22.0 | 21.6 | 22.7 | 23.4 |
| 4H | 17.7 | 18.7 | 18.4 | 19.3 | 20.1 | 22.8 | 23.8 | 23.5 | 24.4 | 25.2 |
| 6H | 18.2 | 19.1 | 18.9 | 19.8 | 20.6 | 24.8 | 25.7 | 25.5 | 26.4 | 27.2 |
| 8H | 18.4 | 19.2 | 19.1 | 19.9 | 20.7 | 26.0 | 26.8 | 26.7 | 27.5 | 28.3 |
| 12H | 18.5 | 19.2 | 19.2 | 19.9 | 20.8 | 27.3 | 28.0 | 28.0 | 28.7 | 29.6 |
| 8H 4H | 19.3 | 20.1 | 20.0 | 20.8 | 21.6 | 23.1 | 23.9 | 23.8 | 24.6 | 25.5 |
| 6H | 20.3 | 21.0 | 21.0 | 21.7 | 22.6 | 25.5 | 26.2 | 26.2 | 26.9 | 27.8 |
| 8H | 20.7 | 21.3 | 21.4 | 22.0 | 22.9 | 26.8 | 27.5 | 27.6 | 28.2 | 29.1 |
| 12H | 21.0 | 21.5 | 21.7 | 22.3 | 23.2 | 28.4 | 29.0 | 29.2 | 29.7 | 30.6 |
| 12H 4H | 19.8 | 20.6 | 20.5 | 21.3 | 22.1 | 23.1 | 23.9 | 23.9 | 24.6 | 25.4 |
| 6H | 21.1 | 21.8 | 21.9 | 22.5 | 23.4 | 25.6 | 26.2 | 26.3 | 27.0 | 27.8 |
| 8H | 21.8 | 22.3 | 22.5 | 23.1 | 24.0 | 27.1 | 27.6 | 27.8 | 28.4 | 29.3 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.1 | | | | | + 0.1 / - 0.1 | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |
| 2.0H | + 0.3 / - 0.4 | | | | | + 0.3 / - 0.4 | | | | |

CIE Pub.117 Corrected 1776 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.0)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.1946A P:23.18W PF:0.9924 Lamp Flux:1775.53x1 lm | | |
| NAME: ASD-OLWS-22-MV-24N23CC-BZ 5000K | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |

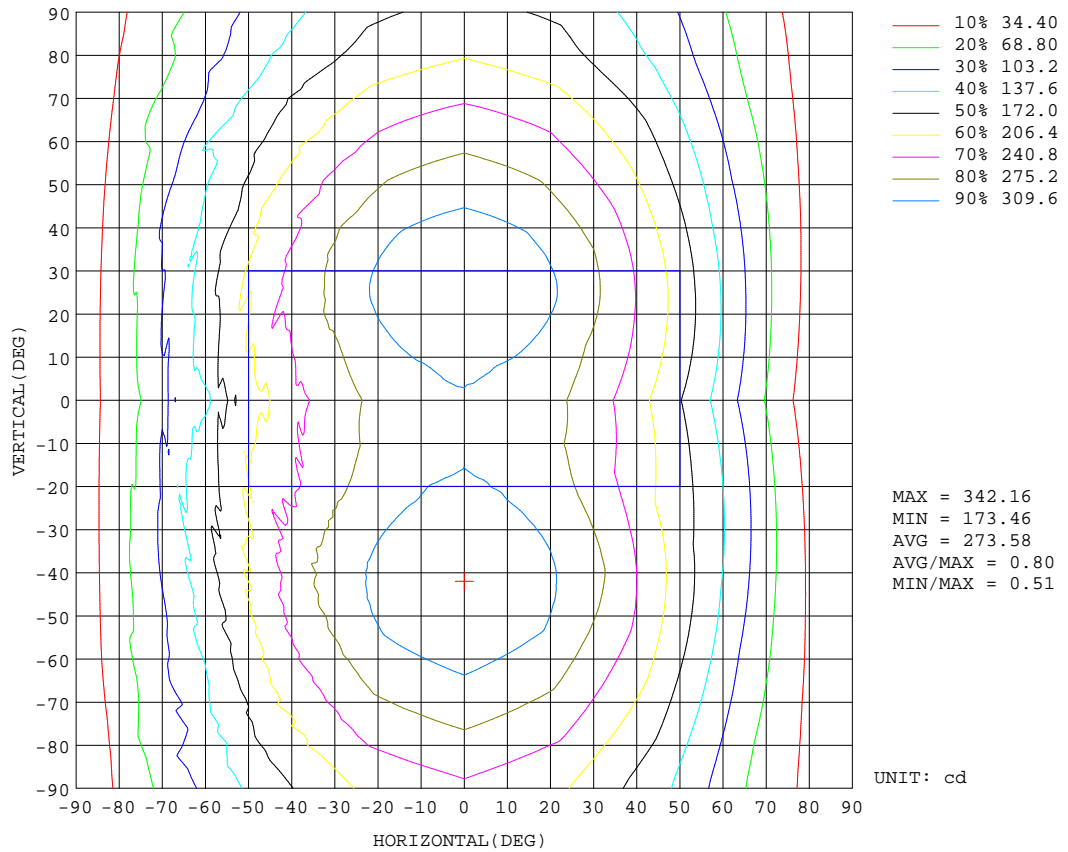
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 45 | 33 | 25 | 44 | 32 | 25 | 42 | 31 | 24 | 18 |
| 0.80 | 54 | 41 | 33 | 53 | 40 | 32 | 50 | 39 | 31 | 23 |
| 1.00 | 62 | 49 | 40 | 60 | 47 | 39 | 56 | 48 | 38 | 29 |
| 1.25 | 69 | 56 | 47 | 67 | 54 | 46 | 62 | 52 | 44 | 34 |
| 1.50 | 74 | 61 | 52 | 71 | 60 | 51 | 66 | 56 | 49 | 38 |
| 2.00 | 82 | 70 | 61 | 78 | 68 | 60 | 72 | 64 | 57 | 45 |
| 2.50 | 86 | 75 | 67 | 83 | 73 | 65 | 76 | 68 | 62 | 48 |
| 3.00 | 90 | 80 | 72 | 86 | 77 | 70 | 79 | 72 | 66 | 52 |
| 4.00 | 95 | 87 | 80 | 91 | 83 | 77 | 83 | 77 | 72 | 57 |
| 5.00 | 98 | 91 | 85 | 94 | 87 | 82 | 86 | 81 | 76 | 60 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNOM = 1.25 | | | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.1946A P:23.18W PF:0.9924 Lamp Flux:1775.53x1 lm | | |
| NAME: ASD-OLWS-22-MV-24N23CC-BZ 5000K | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |

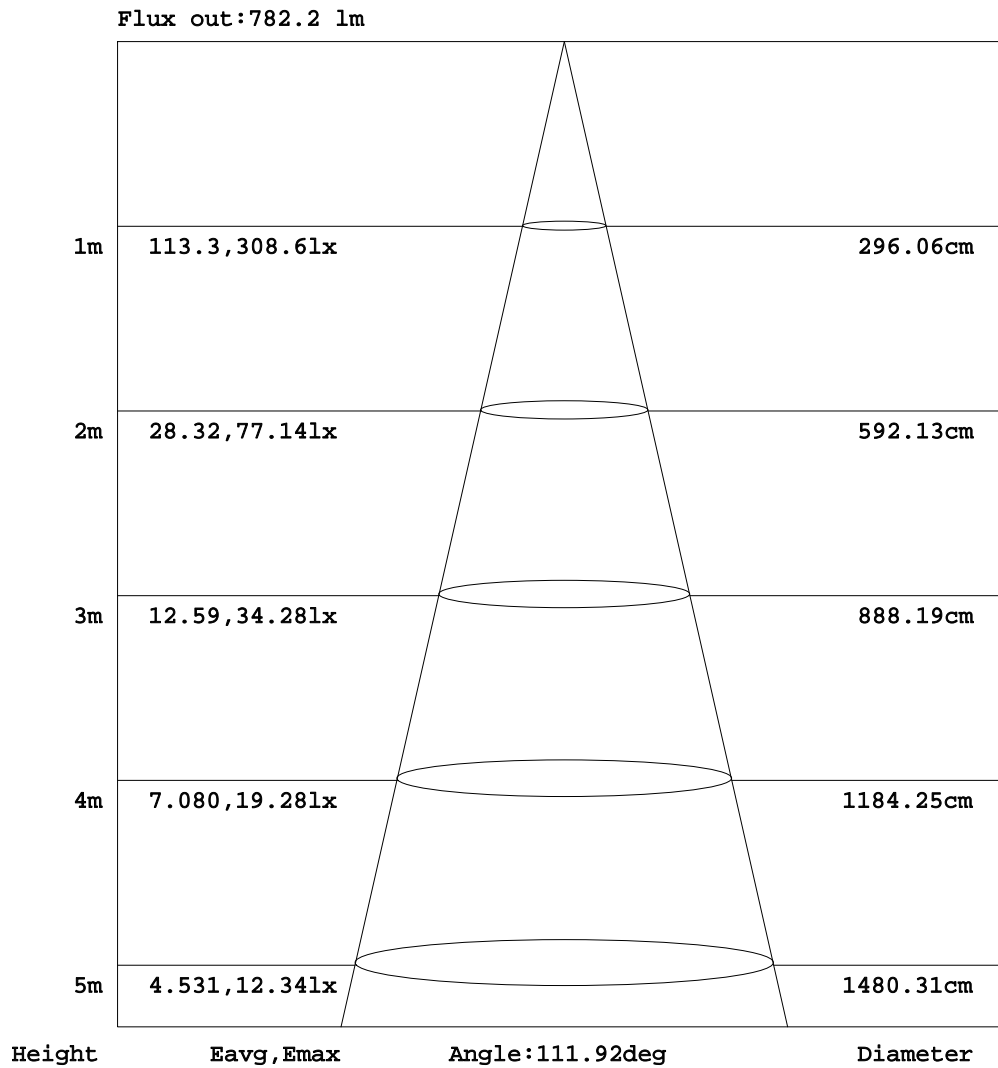


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

AAI Figure

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.1946A P:23.18W PF:0.9924 Lamp Flux:1775.53x1 lm | | |
| NAME: ASD-OLWS-22-MV-24N23CC-BZ 5000K | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |



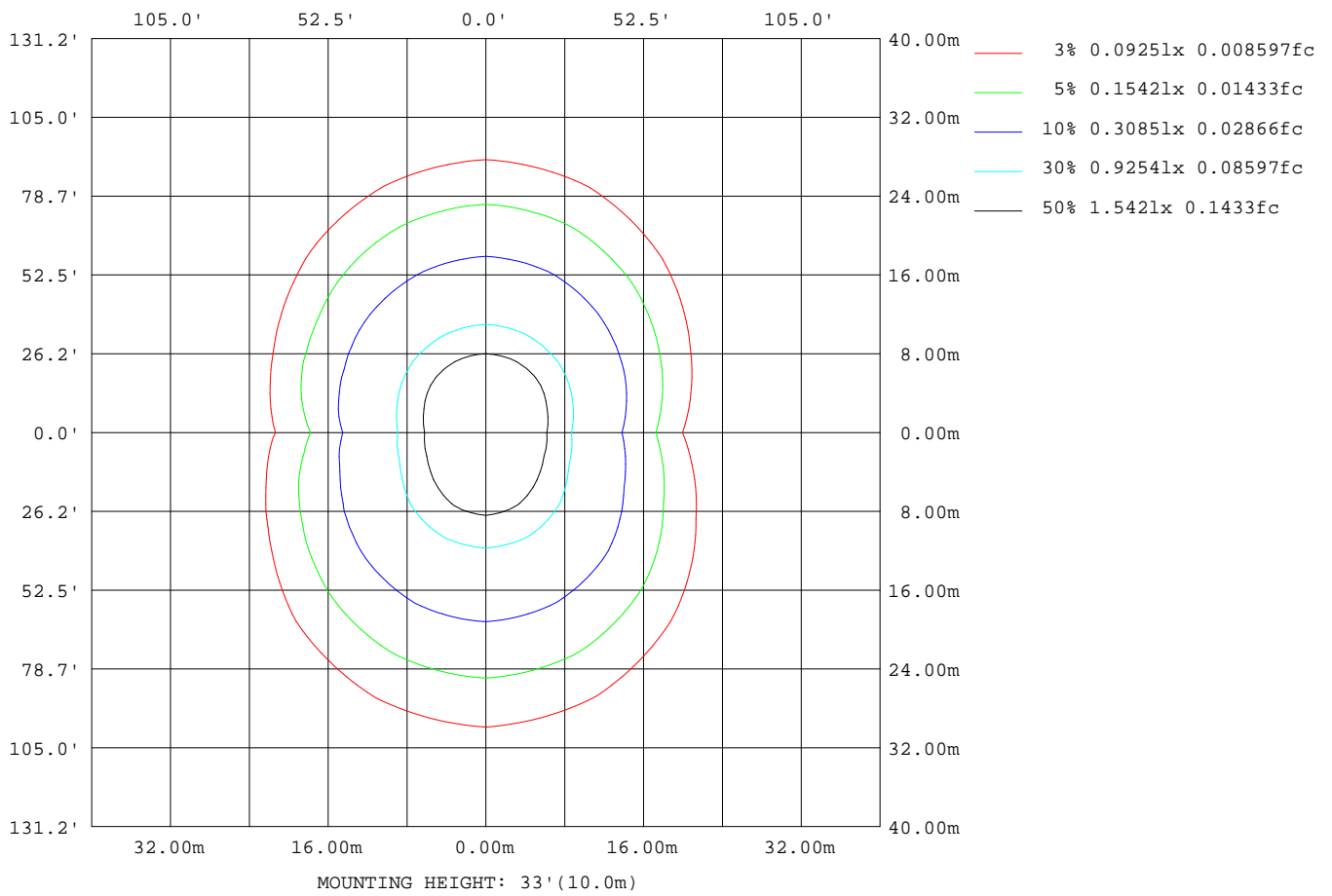
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.1946A P:23.18W PF:0.9924 Lamp Flux:1775.53x1 lm | | |
| NAME: ASD-OLWS-22-MV-24N23CC-BZ 5000K | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

LED Avg.L Report

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.1946A P:23.18W PF:0.9924 Lamp Flux:1775.53x1 lm | | |
| NAME: ASD-OLWS-22-MV-24N23CC-BZ 5000K | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |

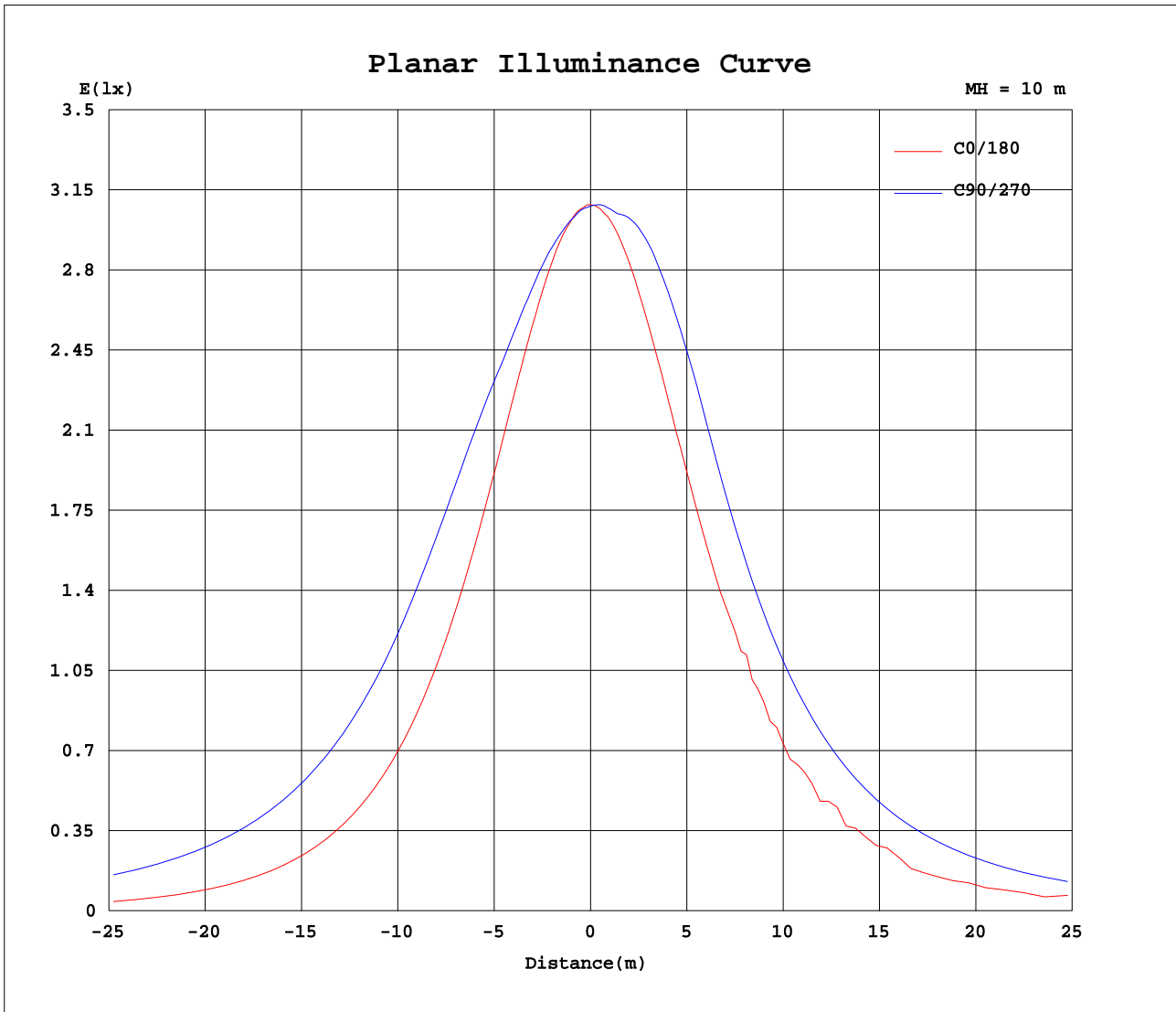
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 1777 |
| L_0~180(75)av | 1460 |
| L_0~180(85)av | 1307 |
| L_90~270(65)av | 4614 |
| L_90~270(75)av | 6725 |
| L_90~270(85)av | 17712 |
| L_45(65)av | 3588 |
| L_45(75)av | 4898 |
| L_45(85)av | 11898 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:Carl
Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:39%
Test Distance:2.526m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.4DEG
 Operators: Carl
 Test Date: 2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 39%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.1946A P:23.18W PF:0.9924 Lamp Flux:1775.53x1 lm | | |
| NAME: ASD-OLWS-22-MV-24N23CC-BZ 5000K | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |

Table--1

UNIT: cd

| C(DEG) γ (DEG) | 0 | 22.5 | 45 | 67.5 | 90 | 112.5 | 135 | 157.5 | 180 | 202.5 | 225 | 247.5 | 270 | 292.5 | 315 | 337.5 | | | |
|-------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0 | 308 | 308 | 308 | 308 | 308 | 308 | 308 | 308 | 308 | 308 | 308 | 308 | 308 | 308 | 308 | 308 | | | |
| 5 | 307 | 306 | 306 | 306 | 307 | 307 | 306 | 307 | 307 | 308 | 309 | 310 | 311 | 310 | 309 | 308 | | | |
| 10 | 302 | 302 | 303 | 306 | 307 | 306 | 304 | 303 | 302 | 305 | 310 | 315 | 318 | 315 | 309 | 305 | | | |
| 15 | 295 | 295 | 300 | 306 | 310 | 307 | 301 | 296 | 294 | 300 | 313 | 325 | 329 | 324 | 312 | 299 | | | |
| 20 | 284 | 286 | 297 | 308 | 313 | 309 | 298 | 288 | 284 | 293 | 315 | 331 | 337 | 331 | 315 | 292 | | | |
| 25 | 271 | 275 | 293 | 311 | 320 | 312 | 295 | 278 | 272 | 286 | 315 | 334 | 341 | 334 | 314 | 286 | | | |
| 30 | 256 | 263 | 289 | 318 | 331 | 320 | 291 | 267 | 257 | 278 | 311 | 334 | 341 | 334 | 311 | 277 | | | |
| 35 | 239 | 250 | 287 | 325 | 339 | 327 | 291 | 255 | 242 | 271 | 305 | 325 | 332 | 325 | 304 | 266 | | | |
| 40 | 219 | 235 | 286 | 328 | 344 | 330 | 290 | 243 | 224 | 257 | 295 | 313 | 321 | 312 | 292 | 252 | | | |
| 45 | 197 | 219 | 282 | 326 | 343 | 329 | 289 | 227 | 207 | 244 | 280 | 299 | 309 | 299 | 275 | 236 | | | |
| 50 | 173 | 203 | 275 | 320 | 338 | 323 | 284 | 242 | 180 | 229 | 260 | 285 | 296 | 284 | 256 | 218 | | | |
| 55 | 148 | 189 | 263 | 311 | 330 | 313 | 271 | 214 | 171 | 225 | 246 | 269 | 282 | 269 | 237 | 196 | | | |
| 60 | 121 | 172 | 248 | 298 | 319 | 301 | 258 | 186 | 133 | 192 | 227 | 253 | 267 | 253 | 217 | 170 | | | |
| 65 | 93.9 | 153 | 231 | 285 | 307 | 288 | 240 | 178 | 122 | 157 | 203 | 238 | 253 | 238 | 197 | 143 | | | |
| 70 | 66.5 | 132 | 213 | 271 | 294 | 274 | 225 | 157 | 97.1 | 137 | 183 | 221 | 237 | 221 | 178 | 117 | | | |
| 75 | 40.2 | 109 | 195 | 256 | 280 | 259 | 205 | 133 | 68.3 | 134 | 168 | 204 | 220 | 203 | 159 | 94.0 | | | |
| 80 | 18.2 | 88.8 | 178 | 240 | 264 | 244 | 189 | 114 | 47.6 | 89.4 | 146 | 187 | 204 | 187 | 140 | 74.0 | | | |
| 85 | 3.93 | 71.6 | 162 | 225 | 249 | 228 | 174 | 94.8 | 28.8 | 71.1 | 132 | 175 | 194 | 176 | 127 | 57.8 | | | |
| 90 | 0.13 | 60.1 | 150 | 211 | 235 | 214 | 159 | 85.3 | 3.47 | 62.1 | 122 | 165 | 184 | 166 | 117 | 47.6 | | | |
| 95 | 0.14 | 53.4 | 142 | 204 | 228 | 207 | 152 | 71.8 | 7.87 | 53.6 | 110 | 153 | 172 | 155 | 106 | 37.8 | | | |
| 100 | 0.16 | 44.7 | 133 | 195 | 219 | 197 | 143 | 64.3 | 10.1 | 41.0 | 97.5 | 140 | 159 | 141 | 93.4 | 28.2 | | | |
| 105 | 0.17 | 36.1 | 121 | 183 | 206 | 186 | 131 | 52.9 | 11.9 | 32.2 | 84.0 | 126 | 143 | 126 | 79.9 | 20.4 | | | |
| 110 | 0.19 | 28.1 | 106 | 168 | 191 | 170 | 115 | 42.3 | 11.5 | 24.6 | 70.2 | 110 | 126 | 110 | 66.1 | 13.5 | | | |
| 115 | 0.22 | 20.6 | 91.0 | 148 | 171 | 151 | 99.5 | 33.9 | 9.14 | 15.9 | 56.7 | 92.3 | 108 | 92.4 | 53.5 | 7.78 | | | |
| 120 | 0.25 | 13.5 | 76.3 | 128 | 149 | 131 | 83.4 | 24.2 | 7.76 | 10.9 | 44.1 | 76.1 | 89.8 | 76.0 | 41.5 | 3.16 | | | |
| 125 | 0.28 | 6.63 | 61.2 | 108 | 127 | 111 | 68.0 | 15.8 | 6.59 | 7.16 | 32.0 | 60.4 | 72.6 | 60.3 | 30.0 | 1.02 | | | |
| 130 | 0.31 | 1.49 | 46.9 | 88.4 | 105 | 90.8 | 52.1 | 7.89 | 5.72 | 6.01 | 21.5 | 45.6 | 56.0 | 45.3 | 19.7 | 1.26 | | | |
| 135 | 0.42 | 0.99 | 32.9 | 68.9 | 84.0 | 71.2 | 37.6 | 4.20 | 4.70 | 4.55 | 12.0 | 31.6 | 40.3 | 31.5 | 10.5 | 1.35 | | | |
| 140 | 0.48 | 0.82 | 19.4 | 49.6 | 63.0 | 51.8 | 23.5 | 3.30 | 3.56 | 3.57 | 3.92 | 18.7 | 25.9 | 19.4 | 3.30 | 1.14 | | | |
| 145 | 0.60 | 0.70 | 7.54 | 31.8 | 42.4 | 33.5 | 10.5 | 2.57 | 2.72 | 3.00 | 2.61 | 6.85 | 13.1 | 8.81 | 1.02 | 0.99 | | | |
| 150 | 0.69 | 0.74 | 1.28 | 15.1 | 23.4 | 16.4 | 1.60 | 2.01 | 2.10 | 2.15 | 2.24 | 1.67 | 2.67 | 1.62 | 1.14 | 0.84 | | | |
| 155 | 0.76 | 0.81 | 1.07 | 2.12 | 6.73 | 2.54 | 1.17 | 1.61 | 1.41 | 1.44 | 1.77 | 1.70 | 1.66 | 1.65 | 1.28 | 0.85 | | | |
| 160 | 0.73 | 0.86 | 0.92 | 1.15 | 1.29 | 1.09 | 1.13 | 1.28 | 0.94 | 0.91 | 1.22 | 1.53 | 1.63 | 1.73 | 1.39 | 0.87 | | | |
| 165 | 0.73 | 0.78 | 0.88 | 0.97 | 1.07 | 0.99 | 1.08 | 1.11 | 0.78 | 0.75 | 0.82 | 1.12 | 1.36 | 1.47 | 1.25 | 0.81 | | | |
| 170 | 0.72 | 0.76 | 0.94 | 1.01 | 1.02 | 0.97 | 0.92 | 1.02 | 0.74 | 0.73 | 0.69 | 0.71 | 0.90 | 1.03 | 0.94 | 0.74 | | | |
| 175 | 0.90 | 0.82 | 1.00 | 1.00 | 0.98 | 0.89 | 0.97 | 1.00 | 0.83 | 0.83 | 0.79 | 0.80 | 0.71 | 0.81 | 0.82 | 0.82 | | | |
| 180 | 0.91 | 0.92 | 0.92 | 0.91 | 0.77 | 0.93 | 0.92 | 0.93 | 0.92 | 0.92 | 0.92 | 0.91 | 0.91 | 0.78 | 0.90 | 0.92 | | | |

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 C Interval: 22.5DEG
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