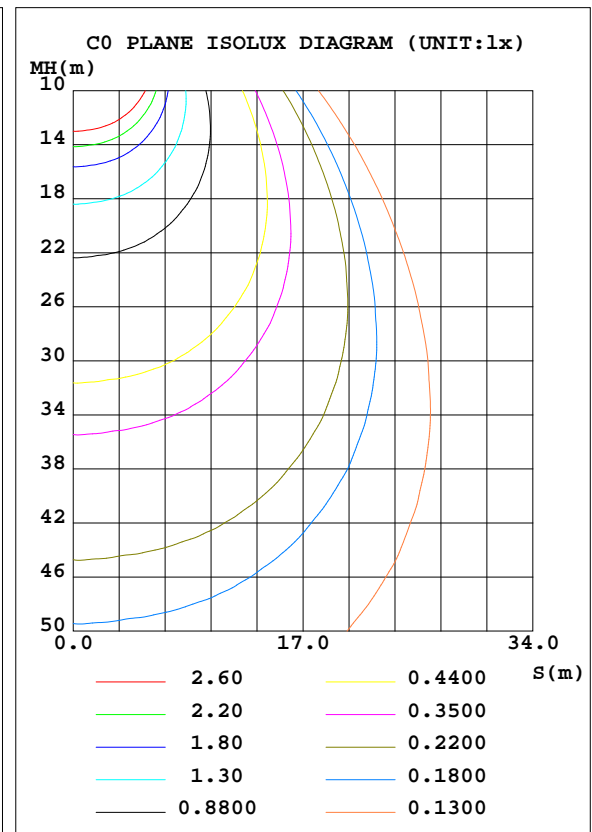
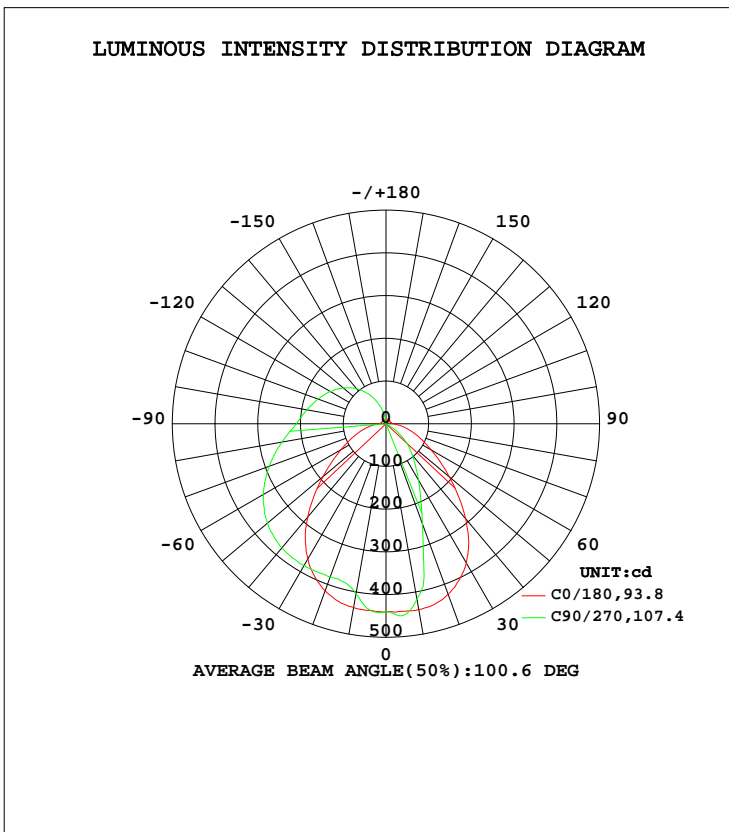


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.2386A P:27.96W PF:0.9763 Lamp Flux:1604.76x1 lm | | |
| NAME: LED luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:ASD-LVF24M-5D28CC-BK 4000K | DIM.: N/A | SERIAL No.:N/A |
| MFR.:ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | |
|------------------|--------------------|------------------|---------|-------------------------|-----------|
| MODEL | PSZ2GH221125004-10 | Imax(cd) | 452.3 | S/MH(C0/180) | 1.25 |
| NOMINAL POWER(W) | | LOR(%) | 100.0 | S/MH(C90/270) | 0.70 |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 1604.8 | η UP, DN(C0-180) | 21.6,56.7 |
| NOMINAL FLUX(lm) | 1604.76 | CIE CLASS | SEMI-D. | η UP, DN(C180-360) | 0.8,21.0 |
| LAMPS INSIDE | 1 | η up(%) | 22.4 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 120 | η down(%) | 77.6 | CIBSE SHR MAX | 1.25 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Carl
 Test Date:2022-11-30

Carl Deng

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:42%
 Test Distance:2.532m [K=1.0000]
 Remarks:

Reviewed by : Henry He

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|-----|-----------------------|-------|--------|-------|-------|--------|--------|--------|---------|---------|---------|------------|
| 10 | 436.9 | 425.7 | 404.7 | 426.6 | 441.8 | 443.9 | 417.1 | 442.0 | 0- 10 | 41.92 | 41.92 | 2.61,2.61 |
| 20 | 416.8 | 387.2 | 381.6 | 389.6 | 425.2 | 361.6 | 249.9 | 362.0 | 10- 20 | 113.6 | 155.6 | 9.69,9.69 |
| 30 | 365.8 | 376.9 | 383.2 | 380.8 | 376.1 | 224.3 | 152.7 | 223.2 | 20- 30 | 157.9 | 313.5 | 19.5,19.5 |
| 40 | 284.6 | 363.3 | 379.2 | 370.7 | 289.7 | 141.2 | 96.15 | 141.0 | 30- 40 | 181.8 | 495.3 | 30.9,30.9 |
| 50 | 192.6 | 345.0 | 362.3 | 353.0 | 193.8 | 86.33 | 53.20 | 86.56 | 40- 50 | 185.5 | 680.8 | 42.4,42.4 |
| 60 | 122.0 | 318.1 | 331.0 | 326.0 | 121.6 | 41.46 | 11.02 | 43.08 | 50- 60 | 173.8 | 854.6 | 53.3,53.3 |
| 70 | 75.06 | 284.1 | 290.7 | 291.0 | 75.06 | 1.709 | 0.3712 | 2.655 | 60- 70 | 152.2 | 1007 | 62.7,62.7 |
| 80 | 41.33 | 245.3 | 247.2 | 251.2 | 41.08 | 1.324 | 0.4275 | 1.394 | 70- 80 | 129.9 | 1137 | 70.8,70.8 |
| 90 | 16.77 | 209.6 | 210.1 | 212.8 | 16.36 | 1.385 | 0.4195 | 1.444 | 80- 90 | 108.7 | 1245 | 77.6,77.6 |
| 100 | 11.57 | 186.3 | 188.0 | 188.4 | 12.93 | 1.299 | 0.5736 | 1.369 | 90-100 | 92.78 | 1338 | 83.4,83.4 |
| 110 | 11.28 | 163.4 | 169.4 | 165.0 | 11.26 | 0.9972 | 0.4895 | 1.049 | 100-110 | 79.41 | 1418 | 88.3,88.3 |
| 120 | 10.11 | 140.5 | 150.8 | 142.3 | 10.32 | 0.6177 | 0.3213 | 0.6665 | 110-120 | 65.02 | 1483 | 92.4,92.4 |
| 130 | 11.22 | 116.6 | 130.8 | 117.7 | 11.87 | 0.2844 | 0.3129 | 0.3379 | 120-130 | 50.14 | 1533 | 95.5,95.5 |
| 140 | 12.82 | 90.45 | 106.7 | 92.06 | 12.78 | 0.2792 | 0.3066 | 0.3337 | 130-140 | 35.45 | 1568 | 97.7,97.7 |
| 150 | 13.30 | 62.76 | 79.18 | 64.32 | 14.51 | 0.3474 | 0.3368 | 0.3842 | 140-150 | 22.01 | 1590 | 99.1,99.1 |
| 160 | 7.131 | 35.21 | 48.37 | 36.09 | 8.121 | 1.757 | 0.4204 | 0.4956 | 150-160 | 11.00 | 1601 | 99.8,99.8 |
| 170 | 1.448 | 10.56 | 17.72 | 8.683 | 2.093 | 1.297 | 0.5989 | 0.9015 | 160-170 | 3.315 | 1604 | 100,100 |
| 180 | 1.375 | 1.409 | 0.7720 | 1.485 | 1.393 | 1.407 | 1.440 | 1.434 | 170-180 | 0.2703 | 1605 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 588.61 lm

%lum = 36.7%
%lamp = 36.7%

Conical surface Flux(120deg): 854.57 lm

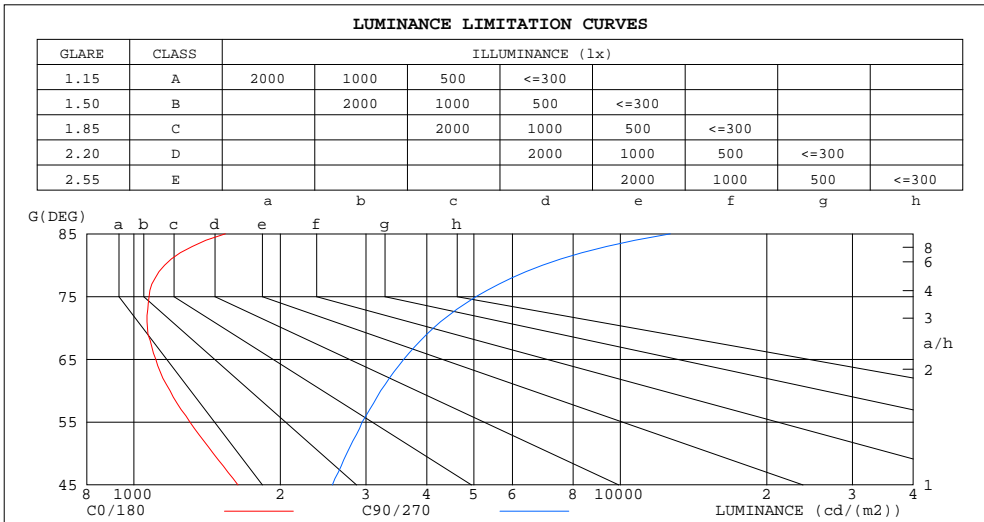
%lum = 53.3%
%lamp = 53.3%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Carl
Test Date:2022-11-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:42%
Test Distance:2.532m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.2386A P:27.96W PF:0.9763 Lamp Flux:1604.76x1 lm | | |
| NAME: LED luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:ASD-LVF24M-5D28CC-BK 4000K | 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 | 1542 | 12668 |
| 80 | 1157 | 6921 |
| 75 | 1074 | 5053 |
| 70 | 1067 | 4132 |
| 65 | 1109 | 3587 |
| 60 | 1186 | 3218 |
| 55 | 1304 | 2946 |
| 50 | 1456 | 2740 |
| 45 | 1636 | 2559 |

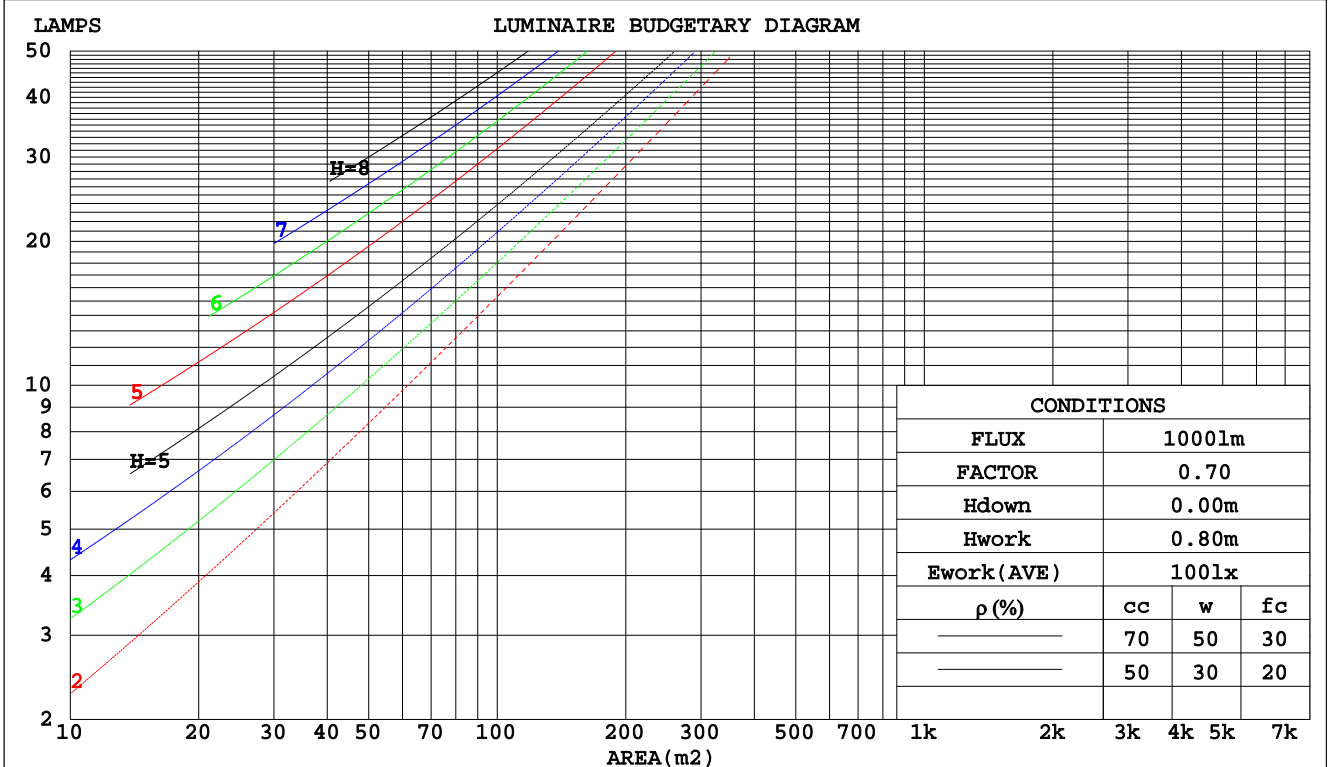
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Carl
 Test Date:2022-11-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:42%
 Test Distance:2.532m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.2386A P:27.96W PF:0.9763 Lamp Flux:1604.76x1 lm | | |
| NAME: LED luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:ASD-LVF24M-5D28CC-BK 4000K | 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 | | | | | | | | | | | | | | | | |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | | | | | | | | | | |
| | Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| 0.0 | 1.14 | 1.14 | 1.14 | 1.08 | 1.08 | 1.08 | .99 | .99 | .99 | .90 | .90 | .90 | .81 | .81 | .81 | .78 |
| 1.0 | .96 | .91 | .86 | .91 | .87 | .83 | .83 | .79 | .76 | .75 | .72 | .70 | .68 | .66 | .64 | .60 |
| 2.0 | .82 | .75 | .69 | .79 | .72 | .66 | .71 | .66 | .61 | .65 | .60 | .57 | .59 | .55 | .52 | .49 |
| 3.0 | .72 | .63 | .57 | .69 | .61 | .55 | .63 | .56 | .51 | .57 | .52 | .47 | .52 | .47 | .44 | .40 |
| 4.0 | .64 | .55 | .48 | .61 | .53 | .46 | .55 | .49 | .43 | .51 | .45 | .40 | .46 | .41 | .37 | .34 |
| 5.0 | .57 | .48 | .41 | .54 | .46 | .40 | .50 | .43 | .37 | .45 | .39 | .35 | .41 | .36 | .32 | .30 |
| 6.0 | .51 | .42 | .36 | .49 | .41 | .35 | .45 | .38 | .33 | .41 | .35 | .31 | .38 | .32 | .29 | .26 |
| 7.0 | .46 | .38 | .31 | .44 | .36 | .31 | .41 | .34 | .29 | .37 | .32 | .27 | .34 | .29 | .25 | .23 |
| 8.0 | .42 | .34 | .28 | .41 | .33 | .27 | .37 | .31 | .26 | .34 | .29 | .24 | .32 | .27 | .23 | .21 |
| 9.0 | .39 | .31 | .25 | .37 | .30 | .24 | .34 | .28 | .23 | .32 | .26 | .22 | .29 | .24 | .21 | .19 |
| 10.0 | .36 | .28 | .23 | .34 | .27 | .22 | .32 | .25 | .21 | .29 | .24 | .20 | .27 | .22 | .19 | .17 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Carl
 Test Date:2022-11-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:42%
 Test Distance:2.532m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.2386A P:27.96W PF:0.9763 Lamp Flux:1604.76x1 lm | | |
| NAME: LED luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:ASD-LVF24M-5D28CC-BK 4000K | 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 | .364 | .207 | .066 | .350 | .200 | .063 | .324 | .186 | .059 | .300 | .173 | .056 | .278 | .161 | .052 | |
| 2.0 | .316 | .173 | .053 | .304 | .167 | .052 | .280 | .156 | .048 | .258 | .145 | .045 | .238 | .135 | .042 | |
| 3.0 | .282 | .150 | .045 | .270 | .145 | .044 | .249 | .135 | .041 | .229 | .126 | .039 | .211 | .117 | .036 | |
| 4.0 | .255 | .132 | .039 | .244 | .128 | .038 | .225 | .119 | .036 | .207 | .111 | .033 | .190 | .103 | .031 | |
| 5.0 | .232 | .118 | .034 | .223 | .114 | .033 | .205 | .107 | .031 | .188 | .099 | .030 | .173 | .092 | .028 | |
| 6.0 | .213 | .107 | .031 | .205 | .103 | .030 | .188 | .097 | .028 | .173 | .090 | .026 | .159 | .084 | .025 | |
| 7.0 | .197 | .097 | .028 | .189 | .094 | .027 | .174 | .088 | .025 | .160 | .082 | .024 | .147 | .077 | .023 | |
| 8.0 | .183 | .090 | .025 | .176 | .087 | .024 | .162 | .081 | .023 | .149 | .076 | .022 | .137 | .071 | .021 | |
| 9.0 | .171 | .083 | .023 | .164 | .080 | .022 | .152 | .075 | .021 | .140 | .070 | .020 | .129 | .065 | .019 | |
| 10.0 | .160 | .077 | .021 | .154 | .074 | .021 | .142 | .070 | .020 | .131 | .065 | .019 | .121 | .061 | .017 | |

| 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 | .361 | .361 | .361 | .309 | .309 | .309 | .211 | .211 | .211 | .121 | .121 | .121 | .039 | .039 | .039 | |
| 1.0 | .356 | .328 | .302 | .305 | .281 | .260 | .208 | .193 | .180 | .120 | .112 | .105 | .038 | .036 | .034 | |
| 2.0 | .349 | .305 | .268 | .299 | .263 | .232 | .205 | .182 | .162 | .118 | .106 | .095 | .038 | .034 | .031 | |
| 3.0 | .341 | .289 | .247 | .292 | .249 | .214 | .201 | .173 | .150 | .116 | .101 | .088 | .037 | .033 | .029 | |
| 4.0 | .333 | .276 | .232 | .286 | .238 | .202 | .197 | .166 | .142 | .114 | .097 | .084 | .037 | .032 | .028 | |
| 5.0 | .325 | .266 | .222 | .280 | .230 | .193 | .193 | .161 | .137 | .112 | .094 | .081 | .036 | .031 | .027 | |
| 6.0 | .318 | .258 | .215 | .273 | .224 | .187 | .189 | .157 | .133 | .109 | .092 | .079 | .035 | .030 | .026 | |
| 7.0 | .311 | .252 | .210 | .268 | .218 | .183 | .185 | .153 | .130 | .107 | .090 | .077 | .035 | .030 | .026 | |
| 8.0 | .305 | .246 | .206 | .262 | .213 | .179 | .182 | .150 | .127 | .106 | .088 | .076 | .034 | .029 | .025 | |
| 9.0 | .299 | .241 | .203 | .257 | .209 | .177 | .178 | .147 | .126 | .104 | .087 | .075 | .034 | .029 | .025 | |
| 10.0 | .293 | .237 | .200 | .253 | .206 | .175 | .175 | .145 | .124 | .102 | .086 | .074 | .033 | .028 | .025 | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Carl
 Test Date:2022-11-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:42%
 Test Distance:2.532m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|------------------|------|------|------|-----------|----------------|------|---------------------|------|------|
| Test:U:120.0V I:0.2386A P:27.96W PF:0.9763 Lamp Flux:1604.76x1 lm | | | | | | | | | | |
| NAME: LED luminaires | | | | | TYPE:N/A | | | WEIGHT:N/A | | |
| SPEC.:ASD-LVF24M-5D28CC-BK 4000K | | | | | 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 | 14.8 | 16.0 | 15.3 | 16.6 | 17.2 | 17.1 | 18.4 | 17.7 | 18.9 | 19.6 |
| 3H | 16.4 | 17.6 | 17.0 | 18.2 | 18.8 | 19.8 | 21.0 | 20.4 | 21.6 | 22.2 |
| 4H | 17.1 | 18.2 | 17.7 | 18.8 | 19.5 | 21.3 | 22.4 | 21.9 | 23.0 | 23.7 |
| 6H | 17.7 | 18.7 | 18.3 | 19.4 | 20.1 | 22.8 | 23.9 | 23.5 | 24.5 | 25.2 |
| 8H | 18.0 | 19.0 | 18.6 | 19.6 | 20.3 | 23.7 | 24.7 | 24.4 | 25.4 | 26.1 |
| 12H | 18.2 | 19.1 | 18.8 | 19.8 | 20.5 | 24.7 | 25.7 | 25.4 | 26.3 | 27.1 |
| 4H 2H | 16.4 | 17.5 | 17.0 | 18.1 | 18.8 | 17.9 | 19.0 | 18.5 | 19.6 | 20.3 |
| 3H | 18.5 | 19.5 | 19.2 | 20.1 | 20.9 | 20.8 | 21.8 | 21.5 | 22.4 | 23.2 |
| 4H | 19.6 | 20.5 | 20.3 | 21.1 | 21.9 | 22.5 | 23.4 | 23.1 | 24.0 | 24.8 |
| 6H | 20.5 | 21.3 | 21.2 | 22.0 | 22.8 | 24.3 | 25.0 | 25.0 | 25.7 | 26.6 |
| 8H | 20.9 | 21.7 | 21.6 | 22.4 | 23.2 | 25.2 | 26.0 | 25.9 | 26.7 | 27.5 |
| 12H | 21.3 | 21.9 | 22.0 | 22.7 | 23.5 | 26.4 | 27.0 | 27.1 | 27.8 | 28.6 |
| 8H 4H | 20.9 | 21.6 | 21.6 | 22.4 | 23.2 | 23.0 | 23.8 | 23.7 | 24.5 | 25.3 |
| 6H | 22.4 | 23.0 | 23.2 | 23.8 | 24.7 | 25.1 | 25.7 | 25.9 | 26.5 | 27.4 |
| 8H | 23.2 | 23.7 | 23.9 | 24.5 | 25.4 | 26.3 | 26.9 | 27.1 | 27.6 | 28.5 |
| 12H | 23.8 | 24.3 | 24.6 | 25.1 | 26.0 | 27.7 | 28.2 | 28.5 | 28.9 | 29.9 |
| 12H 4H | 21.2 | 21.9 | 22.0 | 22.6 | 23.5 | 23.1 | 23.8 | 23.8 | 24.5 | 25.4 |
| 6H | 23.0 | 23.6 | 23.8 | 24.3 | 25.2 | 25.3 | 25.9 | 26.1 | 26.7 | 27.6 |
| 8H | 24.0 | 24.5 | 24.8 | 25.2 | 26.2 | 26.7 | 27.2 | 27.4 | 27.9 | 28.8 |
| 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 / - 0.5 | | | | | + 0.3 / - 0.4 | | | | |

CIE Pub.117 Corrected 1605 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.6)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Carl
 Test Date:2022-11-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:42%
 Test Distance:2.532m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.2386A P:27.96W PF:0.9763 Lamp Flux:1604.76x1 lm | | |
| NAME: LED luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:ASD-LVF24M-5D28CC-BK 4000K | DIM.: N/A | SERIAL No.:N/A |
| MFR.:ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |

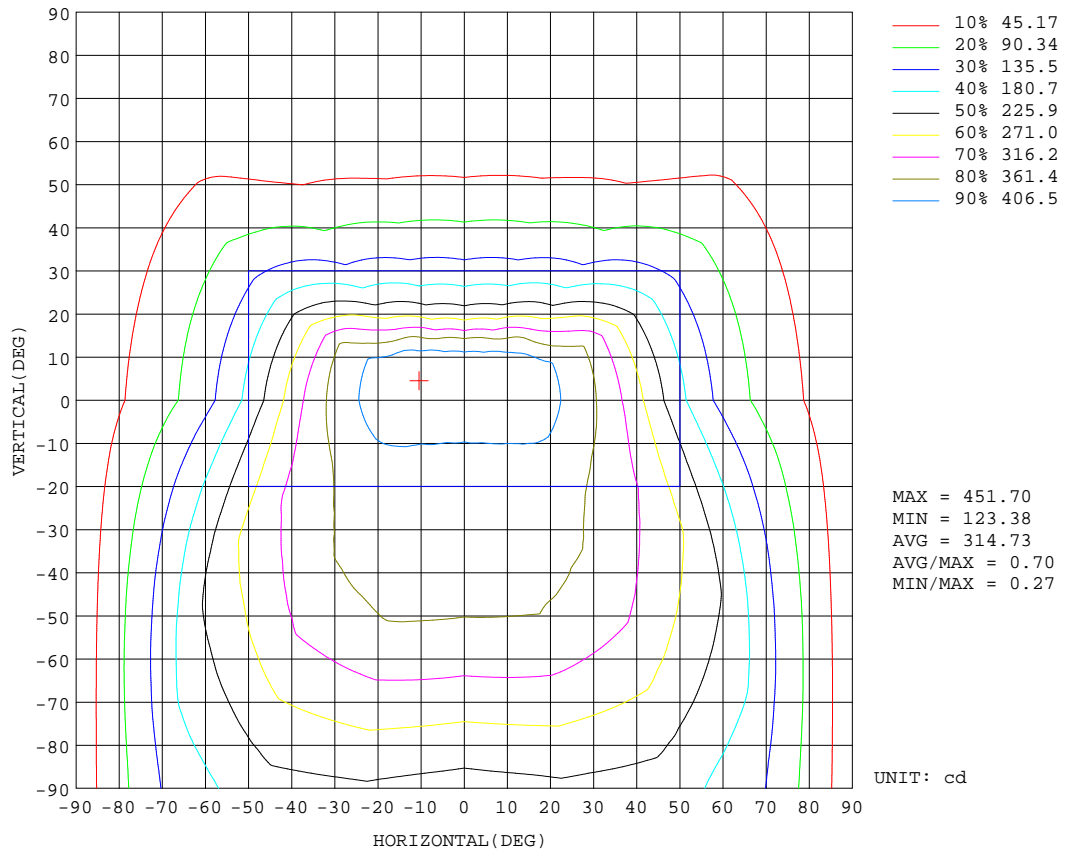
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 49 | 37 | 30 | 48 | 36 | 30 | 46 | 35 | 29 | 23 |
| 0.80 | 58 | 45 | 38 | 56 | 45 | 37 | 53 | 43 | 36 | 28 |
| 1.00 | 65 | 53 | 45 | 63 | 52 | 44 | 59 | 52 | 43 | 34 |
| 1.25 | 72 | 60 | 52 | 70 | 59 | 51 | 65 | 56 | 49 | 39 |
| 1.50 | 77 | 65 | 57 | 74 | 64 | 56 | 69 | 60 | 53 | 43 |
| 2.00 | 84 | 73 | 65 | 81 | 71 | 64 | 75 | 67 | 61 | 48 |
| 2.50 | 88 | 79 | 71 | 85 | 76 | 69 | 78 | 71 | 65 | 52 |
| 3.00 | 92 | 83 | 76 | 88 | 80 | 74 | 81 | 74 | 69 | 55 |
| 4.00 | 97 | 89 | 83 | 92 | 85 | 80 | 85 | 79 | 74 | 59 |
| 5.00 | 99 | 93 | 87 | 95 | 89 | 84 | 87 | 82 | 78 | 62 |
| 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:25.1DEG
 Operators:Carl
 Test Date:2022-11-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:42%
 Test Distance:2.532m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.2386A P:27.96W PF:0.9763 Lamp Flux:1604.76x1 lm | | |
| NAME: LED luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:ASD-LVF24M-5D28CC-BK 4000K | DIM.: N/A | SERIAL No.:N/A |
| MFR.:ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |

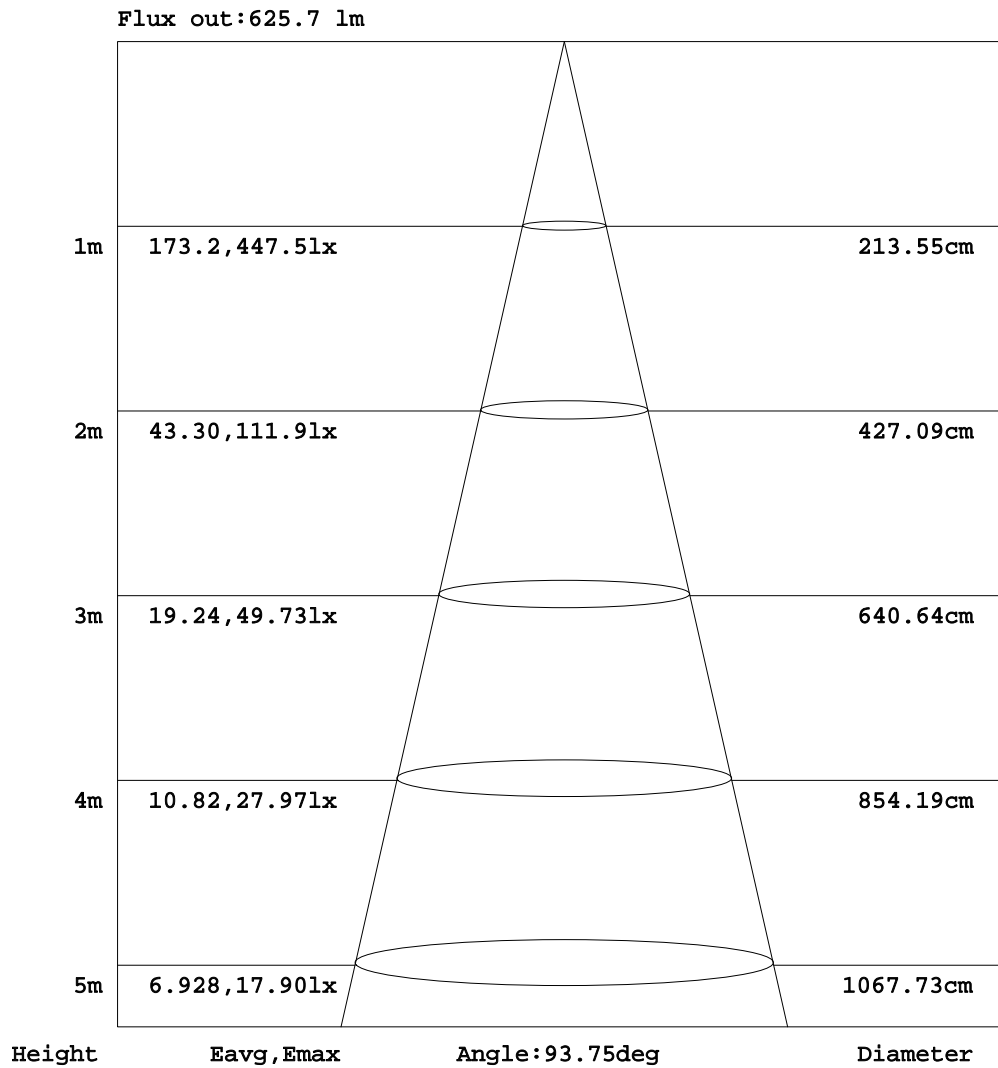


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Carl
 Test Date:2022-11-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:42%
 Test Distance:2.532m [K=1.0000]
 Remarks:

AAI Figure

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.2386A P:27.96W PF:0.9763 Lamp Flux:1604.76x1 lm | | |
| NAME: LED luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:ASD-LVF24M-5D28CC-BK 4000K | DIM.: N/A | SERIAL No.:N/A |
| MFR.:ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |



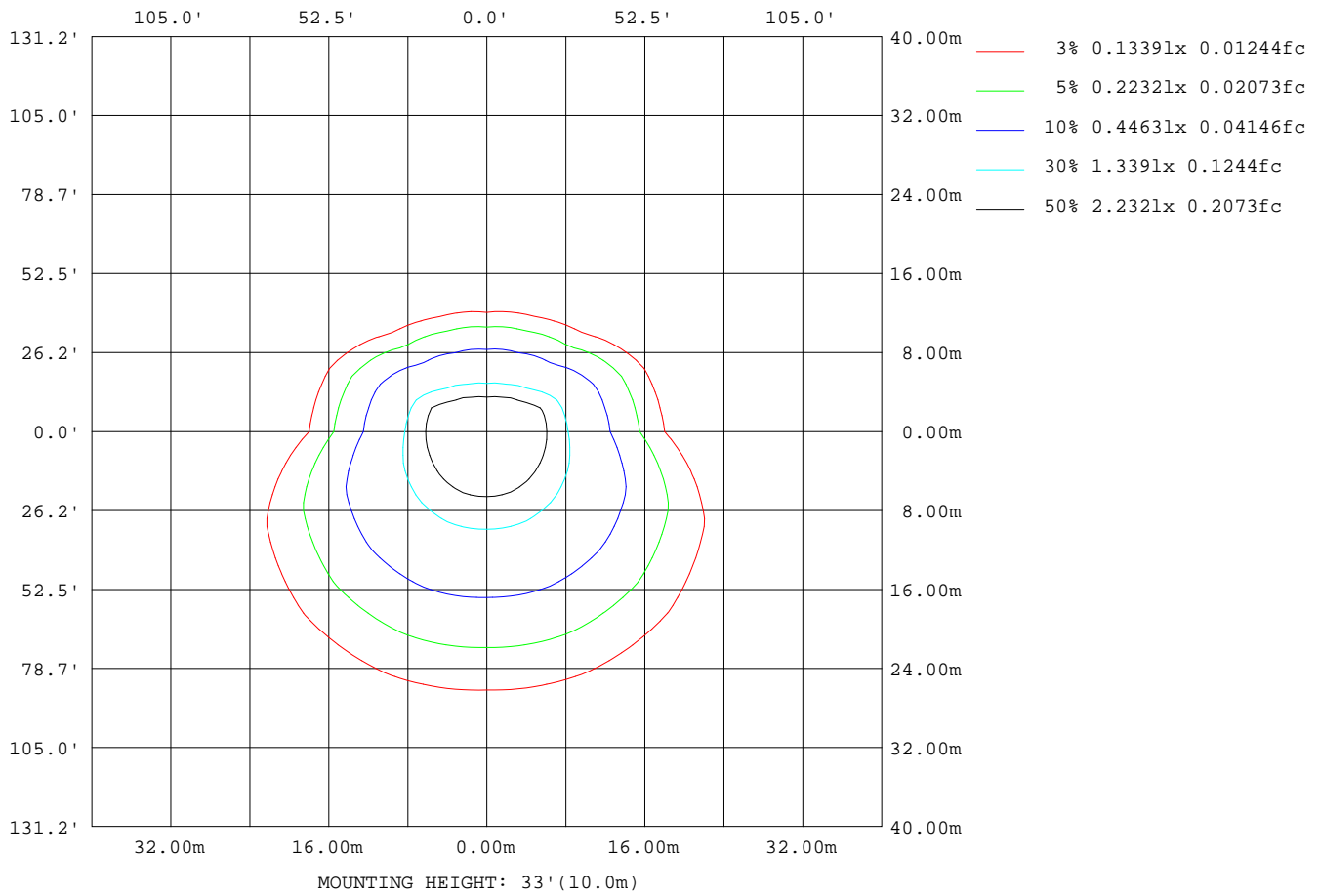
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Carl
 Test Date:2022-11-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:42%
 Test Distance:2.532m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.2386A P:27.96W PF:0.9763 Lamp Flux:1604.76x1 lm | | |
| NAME: LED luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:ASD-LVF24M-5D28CC-BK 4000K | 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:25.1DEG
 Operators:Carl
 Test Date:2022-11-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:42%
 Test Distance:2.532m [K=1.0000]
 Remarks:

LED Avg.L Report

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.2386A P:27.96W PF:0.9763 Lamp Flux:1604.76x1 lm | | |
| NAME: LED luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:ASD-LVF24M-5D28CC-BK 4000K | DIM.: N/A | SERIAL No.:N/A |
| MFR.:ASD Lighting corp | SUR.:N/A | Shielding Angle:N/A |

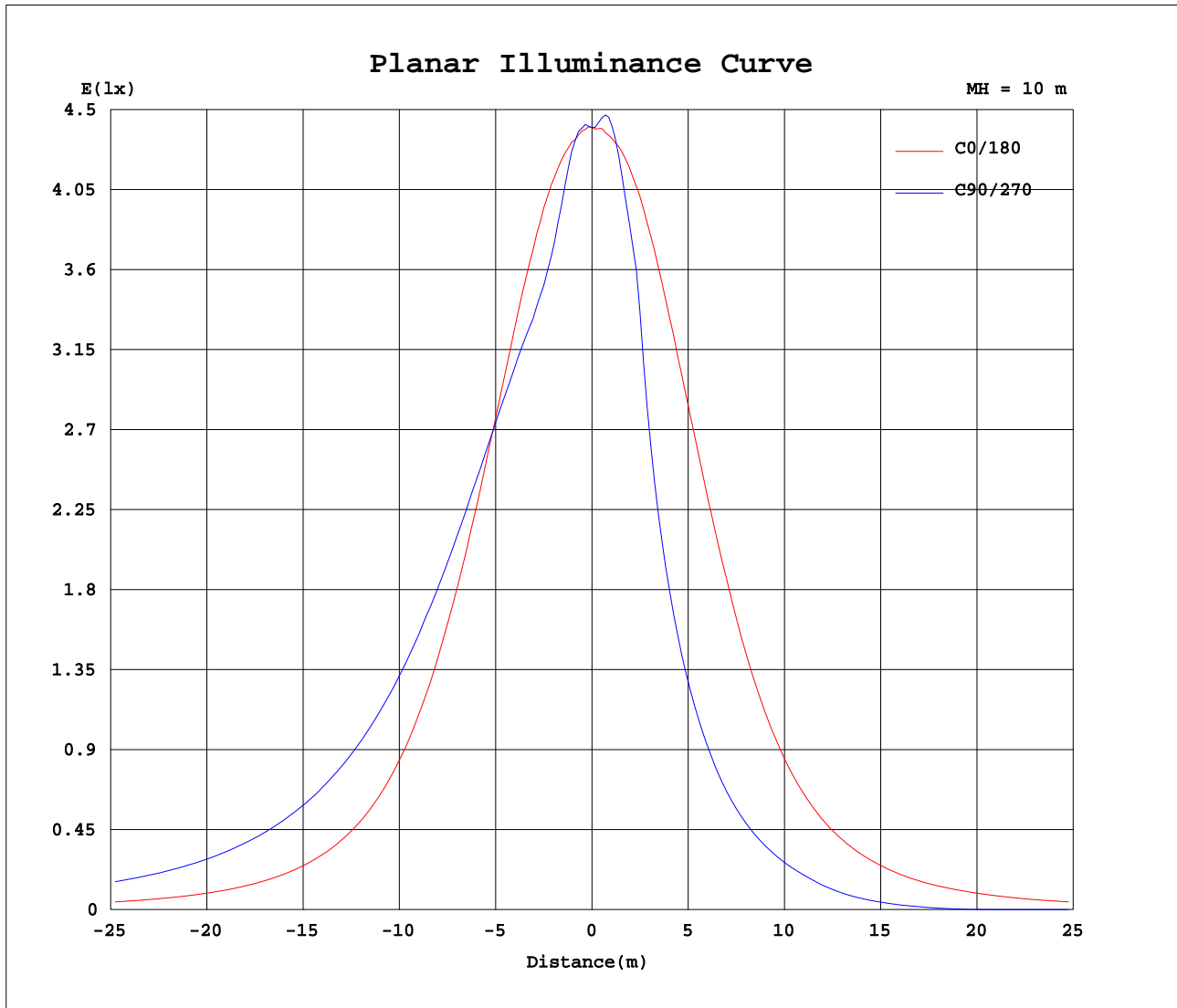
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 1110 |
| L_0~180(75)av | 1072 |
| L_0~180(85)av | 1524 |
| L_90~270(65)av | 1797 |
| L_90~270(75)av | 2531 |
| L_90~270(85)av | 6350 |
| L_45(65)av | 1872 |
| L_45(75)av | 2532 |
| L_45(85)av | 6414 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Carl
 Test Date:2022-11-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:42%
 Test Distance:2.532m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Carl
 Test Date: 2022-11-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 42%
 Test Distance: 2.532m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-----------|---------------------|
| Test:U:120.0V I:0.2386A P:27.96W PF:0.9763 Lamp Flux:1604.76x1 lm | | |
| NAME: LED luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:ASD-LVF24M-5D28CC-BK 4000K | 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 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | | | |
| 5 | 438 | 441 | 442 | 439 | 438 | 440 | 444 | 442 | 441 | 443 | 450 | 451 | 451 | 449 | 450 | 442 | | | |
| 10 | 437 | 438 | 426 | 410 | 405 | 409 | 427 | 443 | 442 | 451 | 444 | 424 | 417 | 423 | 442 | 446 | | | |
| 15 | 430 | 431 | 402 | 386 | 384 | 385 | 404 | 435 | 438 | 447 | 415 | 372 | 343 | 371 | 411 | 438 | | | |
| 20 | 417 | 412 | 387 | 382 | 382 | 382 | 390 | 417 | 425 | 429 | 362 | 273 | 250 | 273 | 362 | 418 | | | |
| 25 | 395 | 391 | 381 | 382 | 383 | 383 | 385 | 396 | 405 | 402 | 283 | 211 | 193 | 211 | 282 | 391 | | | |
| 30 | 366 | 369 | 377 | 383 | 383 | 386 | 381 | 374 | 376 | 373 | 224 | 167 | 153 | 167 | 223 | 363 | | | |
| 35 | 329 | 350 | 371 | 382 | 383 | 385 | 377 | 356 | 338 | 318 | 178 | 133 | 121 | 132 | 178 | 316 | | | |
| 40 | 285 | 333 | 363 | 378 | 379 | 381 | 371 | 340 | 290 | 261 | 141 | 106 | 96.1 | 106 | 141 | 260 | | | |
| 45 | 238 | 314 | 354 | 373 | 372 | 377 | 362 | 322 | 240 | 211 | 111 | 82.9 | 75.2 | 83.0 | 111 | 211 | | | |
| 50 | 193 | 296 | 345 | 363 | 362 | 366 | 353 | 304 | 194 | 168 | 86.3 | 62.7 | 53.2 | 63.0 | 86.6 | 168 | | | |
| 55 | 154 | 278 | 333 | 350 | 348 | 355 | 340 | 286 | 155 | 131 | 65.1 | 37.9 | 30.1 | 38.7 | 65.5 | 132 | | | |
| 60 | 122 | 260 | 318 | 336 | 331 | 340 | 326 | 267 | 122 | 103 | 41.5 | 17.0 | 11.0 | 17.7 | 43.1 | 103 | | | |
| 65 | 96.4 | 241 | 303 | 318 | 312 | 322 | 309 | 248 | 96.4 | 79.5 | 18.6 | 1.09 | 0.36 | 1.51 | 20.4 | 79.5 | | | |
| 70 | 75.1 | 222 | 284 | 298 | 291 | 301 | 291 | 230 | 75.1 | 58.2 | 1.71 | 0.35 | 0.37 | 0.39 | 2.65 | 58.6 | | | |
| 75 | 57.2 | 203 | 265 | 277 | 269 | 281 | 271 | 210 | 56.9 | 33.1 | 1.22 | 0.35 | 0.38 | 0.39 | 1.31 | 35.0 | | | |
| 80 | 41.3 | 183 | 245 | 257 | 247 | 259 | 251 | 190 | 41.1 | 20.6 | 1.32 | 0.37 | 0.43 | 0.40 | 1.39 | 20.8 | | | |
| 85 | 27.6 | 165 | 226 | 236 | 227 | 239 | 231 | 170 | 27.0 | 18.9 | 1.38 | 0.40 | 0.44 | 0.42 | 1.44 | 19.0 | | | |
| 90 | 16.8 | 149 | 210 | 220 | 210 | 221 | 213 | 153 | 16.4 | 17.3 | 1.38 | 0.41 | 0.42 | 0.43 | 1.44 | 17.4 | | | |
| 95 | 14.3 | 139 | 198 | 208 | 198 | 209 | 200 | 142 | 14.1 | 16.1 | 1.37 | 0.45 | 0.50 | 0.47 | 1.44 | 16.3 | | | |
| 100 | 11.6 | 130 | 186 | 196 | 188 | 197 | 188 | 132 | 12.9 | 15.0 | 1.30 | 0.49 | 0.57 | 0.48 | 1.37 | 15.2 | | | |
| 105 | 11.6 | 121 | 175 | 186 | 178 | 187 | 176 | 123 | 12.1 | 13.9 | 1.16 | 0.46 | 0.55 | 0.46 | 1.22 | 14.0 | | | |
| 110 | 11.3 | 111 | 163 | 175 | 169 | 176 | 165 | 113 | 11.3 | 12.2 | 1.00 | 0.41 | 0.49 | 0.42 | 1.05 | 12.5 | | | |
| 115 | 10.7 | 102 | 152 | 165 | 160 | 165 | 154 | 104 | 10.4 | 10.2 | 0.82 | 0.35 | 0.40 | 0.37 | 0.86 | 10.5 | | | |
| 120 | 10.1 | 93.4 | 141 | 154 | 151 | 154 | 142 | 95.4 | 10.3 | 8.07 | 0.62 | 0.30 | 0.32 | 0.32 | 0.67 | 8.48 | | | |
| 125 | 10.4 | 84.6 | 128 | 142 | 141 | 143 | 130 | 86.7 | 11.3 | 6.13 | 0.41 | 0.30 | 0.32 | 0.32 | 0.47 | 6.56 | | | |
| 130 | 11.2 | 75.3 | 117 | 131 | 131 | 131 | 118 | 77.4 | 11.9 | 4.26 | 0.28 | 0.30 | 0.31 | 0.32 | 0.34 | 4.75 | | | |
| 135 | 11.9 | 65.7 | 104 | 118 | 119 | 119 | 105 | 67.6 | 12.4 | 2.54 | 0.28 | 0.30 | 0.31 | 0.32 | 0.33 | 3.03 | | | |
| 140 | 12.8 | 55.7 | 90.4 | 105 | 107 | 106 | 92.1 | 56.7 | 12.8 | 1.80 | 0.28 | 0.29 | 0.31 | 0.32 | 0.33 | 1.83 | | | |
| 145 | 12.6 | 46.2 | 77.0 | 90.7 | 93.4 | 91.7 | 78.4 | 47.7 | 13.2 | 2.10 | 0.29 | 0.30 | 0.32 | 0.33 | 0.36 | 1.36 | | | |
| 150 | 13.3 | 37.1 | 62.8 | 75.8 | 79.2 | 77.1 | 64.3 | 39.0 | 14.5 | 4.12 | 0.35 | 0.32 | 0.34 | 0.35 | 0.38 | 1.09 | | | |
| 155 | 11.8 | 28.2 | 48.7 | 60.6 | 64.1 | 61.4 | 45.2 | 30.0 | 13.0 | 6.51 | 0.84 | 0.37 | 0.38 | 0.40 | 0.43 | 0.79 | | | |
| 160 | 7.13 | 19.3 | 35.2 | 44.9 | 48.4 | 45.7 | 36.1 | 21.2 | 8.12 | 5.24 | 1.76 | 0.46 | 0.42 | 0.43 | 0.50 | 1.04 | | | |
| 165 | 3.85 | 10.9 | 22.4 | 29.9 | 32.8 | 30.6 | 22.5 | 9.35 | 3.96 | 3.48 | 1.35 | 0.80 | 0.46 | 0.48 | 0.63 | 1.45 | | | |
| 170 | 1.45 | 2.36 | 10.6 | 15.7 | 17.7 | 14.5 | 8.68 | 2.77 | 2.09 | 2.05 | 1.30 | 0.65 | 0.60 | 0.64 | 0.90 | 1.43 | | | |
| 175 | 0.80 | 0.78 | 1.91 | 4.02 | 4.67 | 3.34 | 1.19 | 0.91 | 0.71 | 0.72 | 0.60 | 0.57 | 0.70 | 1.08 | 1.16 | 1.32 | | | |
| 180 | 1.37 | 1.39 | 1.41 | 1.42 | 0.77 | 1.05 | 1.49 | 1.41 | 1.39 | 1.39 | 1.41 | 1.42 | 1.44 | 1.05 | 1.43 | 1.43 | | | |

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 C Interval: 22.5DEG
 Test Speed: HIGH
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 Operators:Carl
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