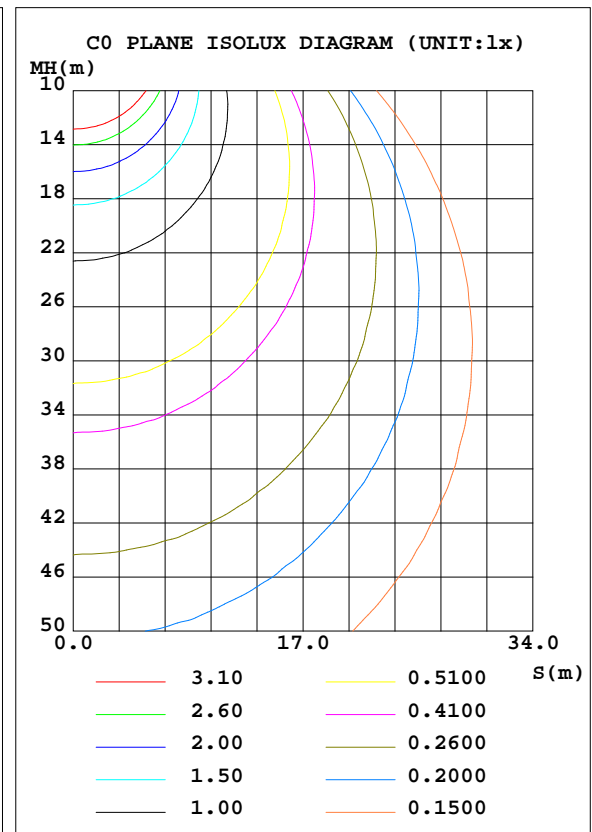
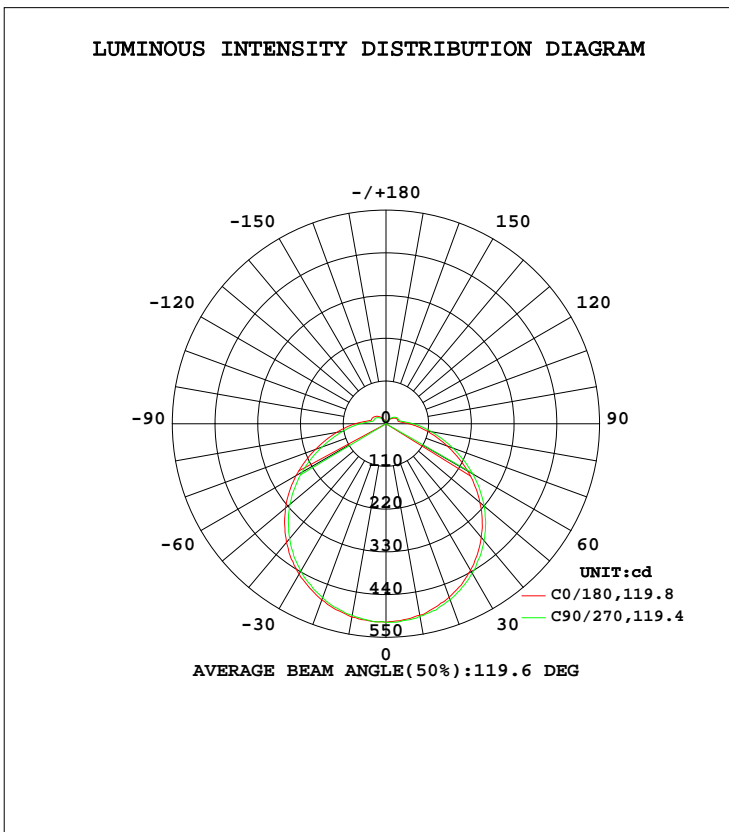


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|--|-----------|---------------------|
| Test:U:120.1V I:0.1662A P:19.50W PF:0.9769 Lamp Flux:1854.7x1 lm | | |
| NAME: ASD-LFMDR-MV-14D21CC-EM-NK 4000K | 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: 95.11 lm/W | | | |
|------------------|-------------------|----------------------------------|--------|--------------------|----------|
| MODEL | PSZ2S220523002-10 | I _{max} (cd) | 512.7 | S/MH(C0/180) | 1.27 |
| NOMINAL POWER(W) | | LOR(%) | 100.0 | S/MH(C90/270) | 1.29 |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 1854.7 | η UP, DN(C0-180) | 5.0,44.9 |
| NOMINAL FLUX(lm) | 1854.7 | CIE CLASS | DIRECT | η UP, DN(C180-360) | 5.0,45.1 |
| LAMPS INSIDE | 1 | η up(%) | 10.0 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE(V) | 120 | η down(%) | 90.0 | CIBSE SHR MAX | 1.50 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 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 | 505.7 | 501.3 | 501.1 | 500.0 | 500.7 | 503.8 | 503.1 | 504.1 | 0- 10 | 48.38 | 48.38 | 2.61,2.61 |
| 20 | 483.1 | 480.0 | 476.6 | 475.8 | 475.5 | 479.1 | 482.8 | 481.5 | 10- 20 | 139.2 | 187.6 | 10.1,10.1 |
| 30 | 446.9 | 442.6 | 438.5 | 435.6 | 435.5 | 439.9 | 443.6 | 446.8 | 20- 30 | 213.1 | 400.7 | 21.6,21.6 |
| 40 | 398.7 | 392.1 | 386.2 | 382.1 | 381.9 | 387.1 | 392.8 | 396.2 | 30- 40 | 261.2 | 661.9 | 35.7,35.7 |
| 50 | 338.3 | 330.7 | 322.9 | 317.3 | 315.5 | 323.2 | 330.3 | 335.0 | 40- 50 | 277.5 | 939.4 | 50.6,50.6 |
| 60 | 267.9 | 259.2 | 250.0 | 243.4 | 242.2 | 249.3 | 257.6 | 263.4 | 50- 60 | 260.4 | 1200 | 64.7,64.7 |
| 70 | 193.0 | 185.7 | 175.6 | 169.0 | 168.3 | 176.1 | 183.3 | 189.2 | 60- 70 | 214.7 | 1415 | 76.3,76.3 |
| 80 | 129.2 | 123.1 | 113.8 | 107.4 | 106.1 | 112.3 | 118.5 | 124.1 | 70- 80 | 155.5 | 1570 | 84.6,84.6 |
| 90 | 79.20 | 74.45 | 67.08 | 61.35 | 59.22 | 64.64 | 70.24 | 75.08 | 80- 90 | 99.92 | 1670 | 90,90 |
| 100 | 45.52 | 42.39 | 37.57 | 34.11 | 33.57 | 36.19 | 39.62 | 43.37 | 90-100 | 56.72 | 1727 | 93.1,93.1 |
| 110 | 38.90 | 36.58 | 32.57 | 30.49 | 31.71 | 33.53 | 34.35 | 36.37 | 100-110 | 37.32 | 1764 | 95.1,95.1 |
| 120 | 35.73 | 33.56 | 30.18 | 27.91 | 28.64 | 30.47 | 31.96 | 34.03 | 110-120 | 33.04 | 1797 | 96.9,96.9 |
| 130 | 30.15 | 28.08 | 24.74 | 22.23 | 22.18 | 24.40 | 26.25 | 28.70 | 120-130 | 25.94 | 1823 | 98.3,98.3 |
| 140 | 23.30 | 21.37 | 18.02 | 15.38 | 14.86 | 17.01 | 18.51 | 21.60 | 130-140 | 17.41 | 1840 | 99.2,99.2 |
| 150 | 15.90 | 14.57 | 11.29 | 8.325 | 6.803 | 9.097 | 11.00 | 13.10 | 140-150 | 9.439 | 1850 | 99.7,99.7 |
| 160 | 7.061 | 6.125 | 5.655 | 4.148 | 3.691 | 3.779 | 4.455 | 5.642 | 150-160 | 3.704 | 1853 | 99.9,99.9 |
| 170 | 3.265 | 3.145 | 3.083 | 2.320 | 2.366 | 2.318 | 2.300 | 2.212 | 160-170 | 1.042 | 1855 | 100,100 |
| 180 | 0.8317 | 0.8551 | 0.5001 | 0.3925 | 0.8627 | 0.8635 | 0.8623 | 0.8541 | 170-180 | 0.1799 | 1855 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 800.7 lm

%lum = 43.2%
%lamp = 43.2%

Conical surface Flux(120deg): 1199.8 lm

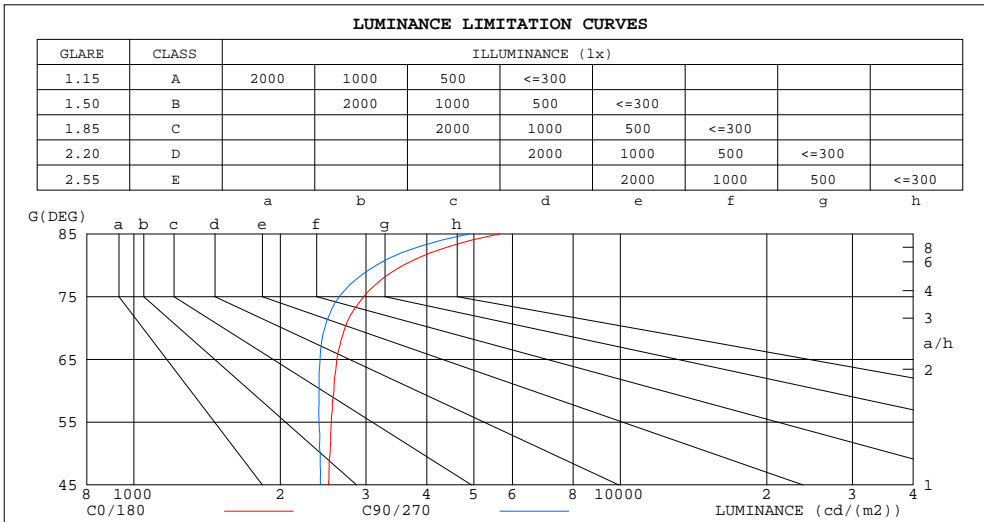
%lum = 64.7%
%lamp = 64.7%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:Carl
Test Date:2022-06-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:37%
Test Distance:2.526m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|-----------|---------------------|
| Test:U:120.1V I:0.1662A P:19.50W PF:0.9769 Lamp Flux:1854.7x1 lm | | |
| NAME: ASD-LFMDR-MV-14D21CC-EM-NK 4000K | 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 | 5648 | 4889 |
| 80 | 3581 | 3151 |
| 75 | 2968 | 2644 |
| 70 | 2715 | 2469 |
| 65 | 2614 | 2414 |
| 60 | 2578 | 2404 |
| 55 | 2545 | 2402 |
| 50 | 2533 | 2415 |
| 45 | 2510 | 2417 |

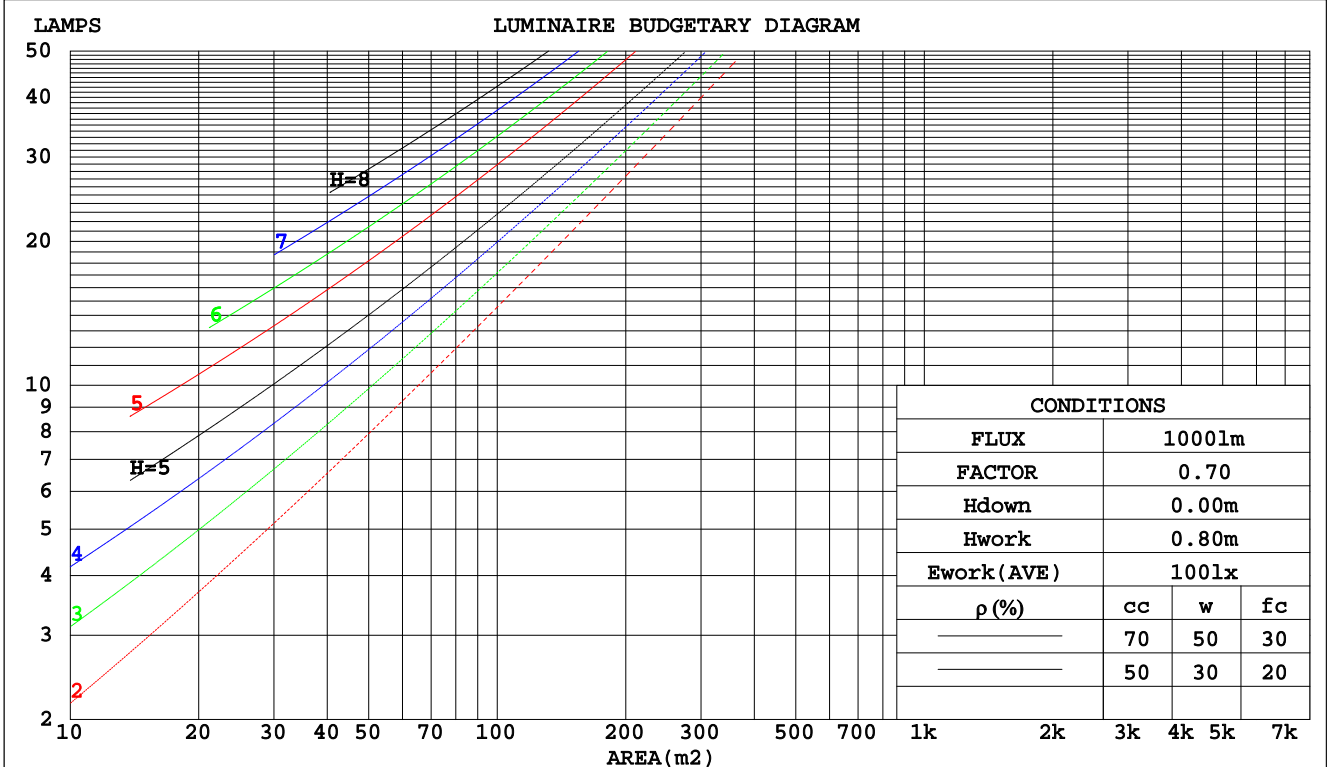
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|-----------|---------------------|
| Test:U:120.1V I:0.1662A P:19.50W PF:0.9769 Lamp Flux:1854.7x1 lm | | |
| NAME: ASD-LFMDR-MV-14D21CC-EM-NK 4000K | 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 | 1.17 | 1.17 | 1.17 | 1.13 | 1.13 | 1.13 | 1.06 | 1.06 | 1.06 | .99 | .99 | .99 | .93 | .93 | .93 | .90 |
| 1.0 | .99 | .94 | .90 | .96 | .91 | .87 | .90 | .86 | .83 | .84 | .81 | .78 | .79 | .77 | .74 | .71 |
| 2.0 | .85 | .78 | .72 | .83 | .76 | .70 | .77 | .72 | .67 | .73 | .68 | .64 | .68 | .64 | .61 | .58 |
| 3.0 | .75 | .66 | .59 | .72 | .64 | .58 | .68 | .61 | .55 | .64 | .58 | .53 | .60 | .55 | .51 | .48 |
| 4.0 | .66 | .57 | .49 | .64 | .55 | .49 | .60 | .53 | .47 | .56 | .50 | .45 | .53 | .48 | .43 | .41 |
| 5.0 | .58 | .49 | .42 | .57 | .48 | .42 | .53 | .46 | .40 | .50 | .44 | .39 | .48 | .42 | .38 | .35 |
| 6.0 | .52 | .43 | .37 | .51 | .42 | .36 | .48 | .41 | .35 | .46 | .39 | .34 | .43 | .37 | .33 | .31 |
| 7.0 | .47 | .38 | .32 | .46 | .38 | .32 | .44 | .36 | .31 | .41 | .35 | .30 | .39 | .33 | .29 | .27 |
| 8.0 | .43 | .35 | .29 | .42 | .34 | .28 | .40 | .33 | .27 | .38 | .31 | .27 | .36 | .30 | .26 | .24 |
| 9.0 | .40 | .31 | .26 | .39 | .31 | .25 | .37 | .30 | .25 | .35 | .29 | .24 | .33 | .28 | .23 | .21 |
| 10.0 | .36 | .28 | .23 | .36 | .28 | .23 | .34 | .27 | .22 | .32 | .26 | .22 | .31 | .25 | .21 | .19 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.4DEG
 Operators: Carl
 Test Date: 2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 37%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|--|-----------|---------------------|
| Test:U:120.1V I:0.1662A P:19.50W PF:0.9769 Lamp Flux:1854.7x1 lm | | |
| NAME: ASD-LFMDR-MV-14D21CC-EM-NK 4000K | 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 | .355 | .202 | .064 | .345 | .197 | .063 | .326 | .187 | .060 | .308 | .178 | .057 | .292 | .169 | .055 | |
| 2.0 | .316 | .173 | .053 | .307 | .169 | .052 | .290 | .161 | .050 | .274 | .154 | .048 | .260 | .147 | .046 | |
| 3.0 | .285 | .152 | .045 | .277 | .148 | .045 | .262 | .142 | .043 | .248 | .136 | .042 | .234 | .130 | .040 | |
| 4.0 | .259 | .135 | .040 | .252 | .132 | .039 | .238 | .126 | .038 | .225 | .121 | .036 | .213 | .116 | .035 | |
| 5.0 | .237 | .121 | .035 | .231 | .118 | .035 | .218 | .114 | .033 | .207 | .109 | .032 | .196 | .105 | .031 | |
| 6.0 | .219 | .110 | .031 | .213 | .107 | .031 | .201 | .103 | .030 | .191 | .099 | .029 | .181 | .095 | .028 | |
| 7.0 | .202 | .100 | .028 | .197 | .098 | .028 | .187 | .094 | .027 | .177 | .091 | .026 | .168 | .087 | .026 | |
| 8.0 | .188 | .092 | .026 | .183 | .090 | .026 | .174 | .087 | .025 | .165 | .084 | .024 | .157 | .080 | .023 | |
| 9.0 | .176 | .085 | .024 | .171 | .083 | .023 | .163 | .080 | .023 | .155 | .078 | .022 | .147 | .075 | .022 | |
| 10.0 | .165 | .079 | .022 | .161 | .078 | .022 | .153 | .075 | .021 | .145 | .072 | .021 | .138 | .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 | .266 | .266 | .266 | .228 | .228 | .228 | .155 | .155 | .155 | .089 | .089 | .089 | .029 | .029 | .029 | |
| 1.0 | .260 | .232 | .207 | .222 | .199 | .178 | .152 | .137 | .123 | .088 | .079 | .072 | .028 | .026 | .023 | |
| 2.0 | .253 | .209 | .172 | .216 | .180 | .149 | .148 | .124 | .104 | .085 | .072 | .061 | .027 | .023 | .020 | |
| 3.0 | .245 | .192 | .150 | .210 | .166 | .130 | .144 | .115 | .091 | .083 | .067 | .054 | .027 | .022 | .018 | |
| 4.0 | .237 | .179 | .135 | .204 | .155 | .117 | .140 | .108 | .082 | .081 | .063 | .049 | .026 | .021 | .016 | |
| 5.0 | .230 | .169 | .124 | .197 | .146 | .108 | .136 | .102 | .076 | .079 | .060 | .045 | .025 | .020 | .015 | |
| 6.0 | .222 | .161 | .117 | .191 | .139 | .102 | .132 | .097 | .072 | .076 | .057 | .043 | .025 | .019 | .014 | |
| 7.0 | .215 | .154 | .111 | .185 | .134 | .097 | .128 | .094 | .069 | .074 | .055 | .041 | .024 | .018 | .014 | |
| 8.0 | .209 | .148 | .107 | .180 | .129 | .093 | .124 | .090 | .066 | .072 | .053 | .039 | .023 | .017 | .013 | |
| 9.0 | .202 | .144 | .104 | .174 | .125 | .091 | .121 | .088 | .064 | .070 | .052 | .038 | .023 | .017 | .013 | |
| 10.0 | .197 | .139 | .101 | .170 | .121 | .088 | .118 | .085 | .063 | .069 | .050 | .037 | .022 | .017 | .012 | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|--|------------------|------|------|------|-----------|----------------|------|---------------------|------|------|
| Test:U:120.1V I:0.1662A P:19.50W PF:0.9769 Lamp Flux:1854.7x1 lm | | | | | | | | | | |
| NAME: ASD-LFMDR-MV-14D21CC-EM-NK 4000K | | | | | 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 | 15.6 | 17.0 | 16.0 | 17.4 | 17.8 | 15.3 | 16.8 | 15.7 | 17.1 | 17.6 |
| 3H | 17.5 | 18.8 | 17.9 | 19.2 | 19.7 | 17.1 | 18.5 | 17.6 | 18.9 | 19.3 |
| 4H | 18.5 | 19.7 | 18.9 | 20.2 | 20.6 | 18.0 | 19.3 | 18.5 | 19.7 | 20.2 |
| 6H | 19.5 | 20.7 | 19.9 | 21.1 | 21.6 | 18.9 | 20.1 | 19.4 | 20.6 | 21.1 |
| 8H | 20.0 | 21.1 | 20.5 | 21.6 | 22.1 | 19.4 | 20.6 | 19.9 | 21.0 | 21.5 |
| 12H | 20.6 | 21.7 | 21.1 | 22.2 | 22.7 | 20.0 | 21.1 | 20.5 | 21.5 | 22.1 |
| 4H 2H | 16.2 | 17.5 | 16.7 | 17.9 | 18.4 | 16.0 | 17.3 | 16.5 | 17.7 | 18.2 |
| 3H | 18.3 | 19.5 | 18.8 | 19.9 | 20.4 | 18.1 | 19.2 | 18.5 | 19.6 | 20.1 |
| 4H | 19.5 | 20.5 | 20.0 | 21.0 | 21.5 | 19.1 | 20.1 | 19.6 | 20.6 | 21.2 |
| 6H | 20.7 | 21.6 | 21.2 | 22.1 | 22.7 | 20.2 | 21.1 | 20.7 | 21.6 | 22.2 |
| 8H | 21.3 | 22.2 | 21.9 | 22.7 | 23.3 | 20.8 | 21.6 | 21.3 | 22.2 | 22.8 |
| 12H | 22.0 | 22.8 | 22.6 | 23.4 | 24.0 | 21.4 | 22.2 | 22.0 | 22.8 | 23.4 |
| 8H 4H | 19.9 | 20.7 | 20.4 | 21.3 | 21.9 | 19.6 | 20.4 | 20.1 | 21.0 | 21.6 |
| 6H | 21.3 | 22.0 | 21.9 | 22.6 | 23.3 | 20.9 | 21.6 | 21.5 | 22.2 | 22.9 |
| 8H | 22.1 | 22.8 | 22.8 | 23.4 | 24.0 | 21.7 | 22.3 | 22.3 | 22.9 | 23.6 |
| 12H | 23.1 | 23.6 | 23.7 | 24.2 | 24.9 | 22.5 | 23.1 | 23.2 | 23.7 | 24.4 |
| 12H 4H | 19.9 | 20.7 | 20.5 | 21.3 | 21.9 | 19.7 | 20.4 | 20.2 | 21.0 | 21.6 |
| 6H | 21.5 | 22.1 | 22.1 | 22.7 | 23.4 | 21.1 | 21.8 | 21.7 | 22.4 | 23.0 |
| 8H | 22.4 | 23.0 | 23.0 | 23.6 | 24.3 | 22.0 | 22.5 | 22.6 | 23.1 | 23.8 |
| 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 | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.4 | | | | |

CIE Pub.117 Corrected 1855 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.1)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|-----------|---------------------|
| Test:U:120.1V I:0.1662A P:19.50W PF:0.9769 Lamp Flux:1854.7x1 lm | | |
| NAME: ASD-LFMDR-MV-14D21CC-EM-NK 4000K | 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 |

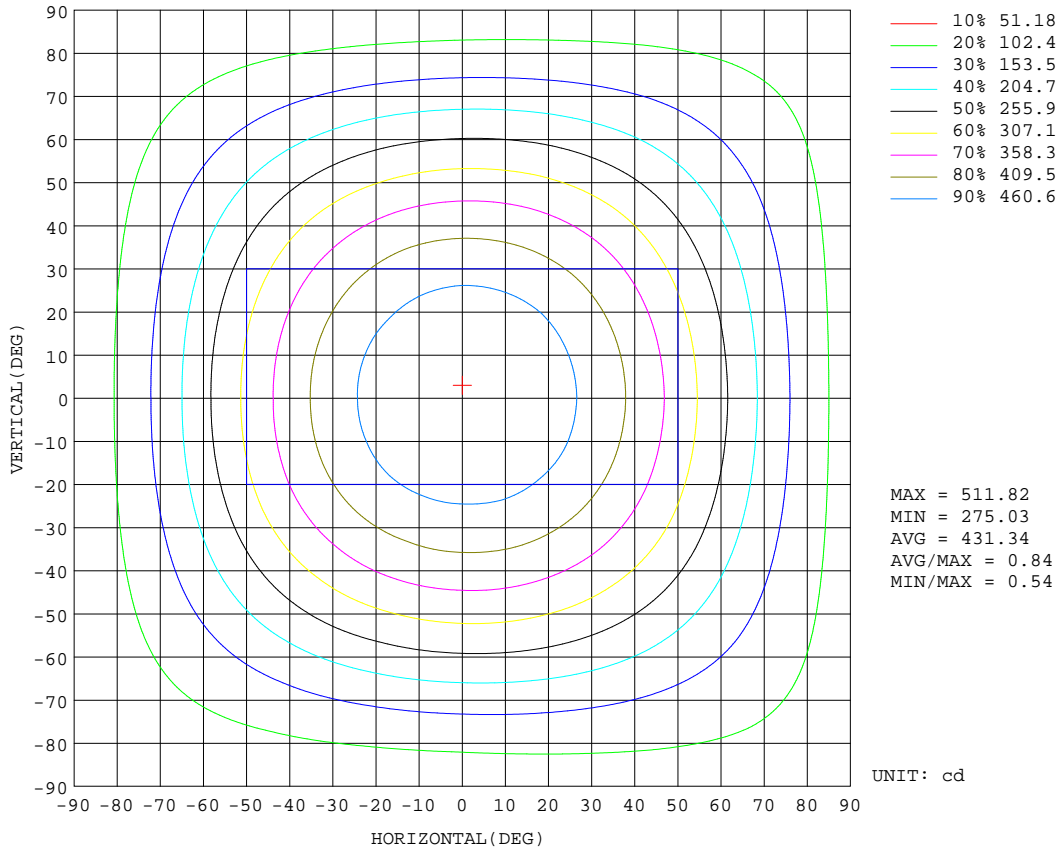
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 52 | 40 | 33 | 51 | 40 | 33 | 50 | 39 | 32 | 26 |
| 0.80 | 62 | 49 | 41 | 60 | 49 | 41 | 58 | 47 | 41 | 33 |
| 1.00 | 70 | 58 | 50 | 68 | 57 | 49 | 65 | 58 | 48 | 40 |
| 1.25 | 77 | 65 | 57 | 75 | 64 | 56 | 71 | 62 | 55 | 46 |
| 1.50 | 82 | 70 | 63 | 79 | 69 | 62 | 75 | 67 | 60 | 51 |
| 2.00 | 89 | 79 | 71 | 86 | 77 | 70 | 81 | 74 | 68 | 58 |
| 2.50 | 93 | 84 | 77 | 90 | 82 | 75 | 85 | 78 | 73 | 62 |
| 3.00 | 97 | 88 | 82 | 94 | 86 | 80 | 88 | 82 | 77 | 66 |
| 4.00 | 101 | 94 | 88 | 98 | 91 | 86 | 92 | 87 | 82 | 70 |
| 5.00 | 104 | 98 | 92 | 100 | 95 | 90 | 94 | 90 | 86 | 73 |
| 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:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|-----------|---------------------|
| Test:U:120.1V I:0.1662A P:19.50W PF:0.9769 Lamp Flux:1854.7x1 lm | | |
| NAME: ASD-LFMDR-MV-14D21CC-EM-NK 4000K | 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 |

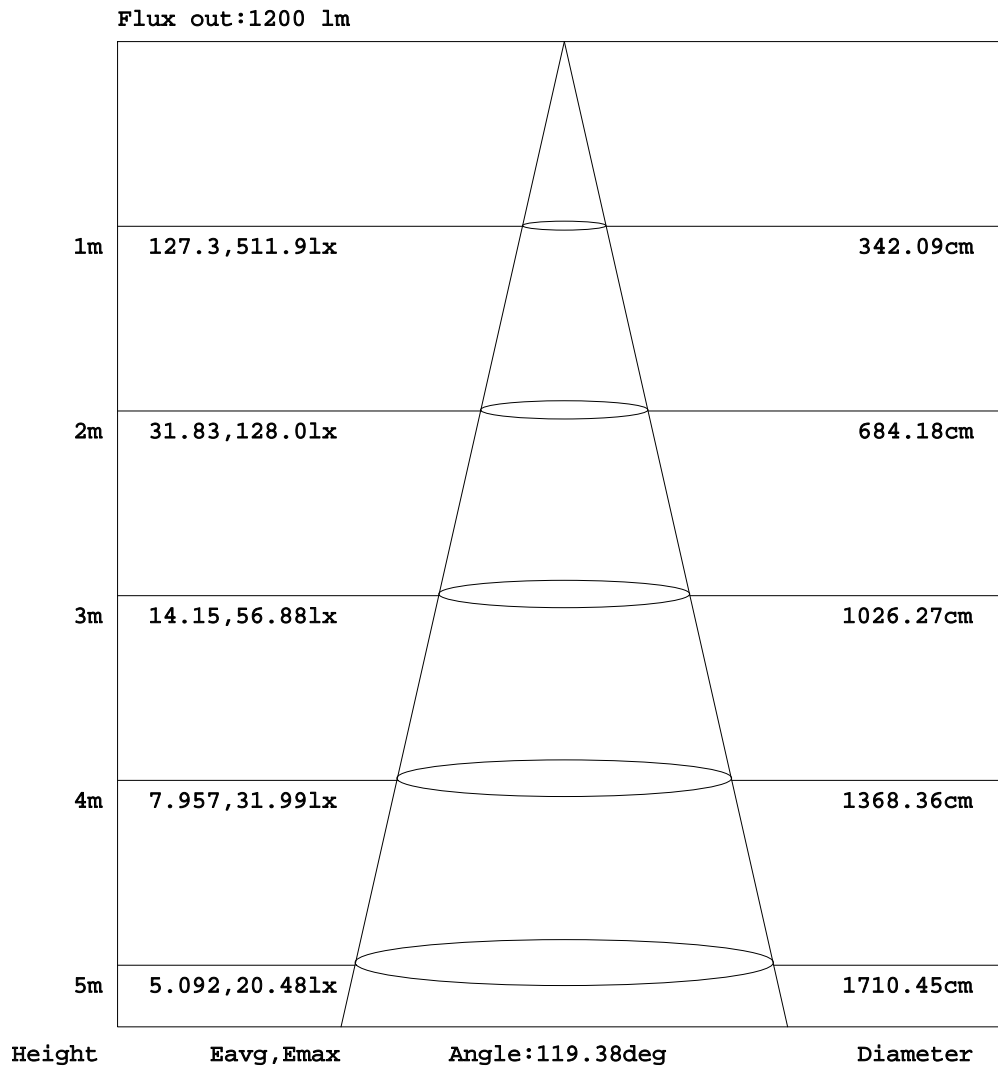


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [K=1.0000]
 Remarks:

AAI Figure

| | | |
|--|-----------|---------------------|
| Test:U:120.1V I:0.1662A P:19.50W PF:0.9769 Lamp Flux:1854.7x1 lm | | |
| NAME: ASD-LFMDR-MV-14D21CC-EM-NK 4000K | 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 |



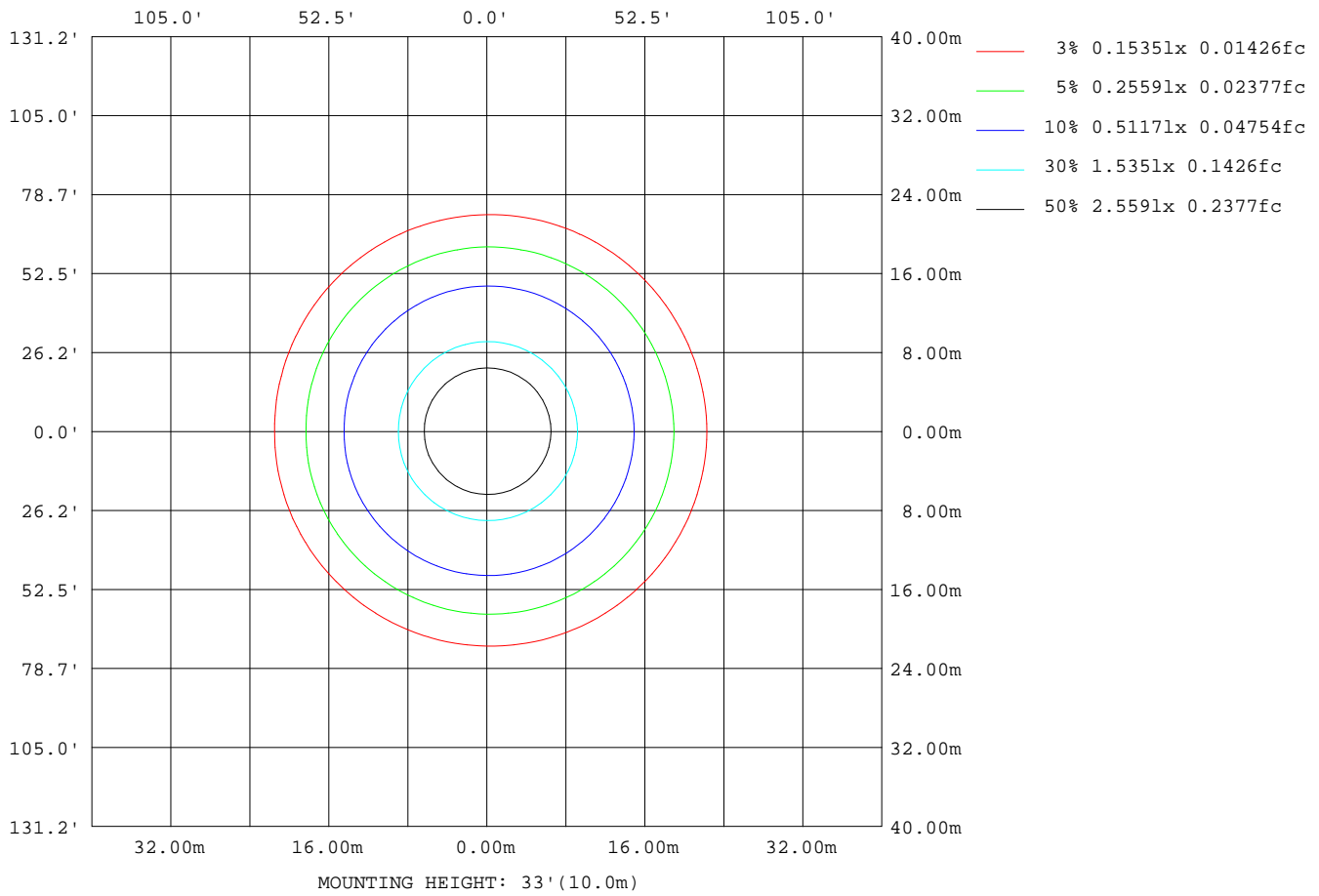
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

| | | |
|--|-----------|---------------------|
| Test:U:120.1V I:0.1662A P:19.50W PF:0.9769 Lamp Flux:1854.7x1 lm | | |
| NAME: ASD-LFMDR-MV-14D21CC-EM-NK 4000K | 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:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [K=1.0000]
 Remarks:

LED Avg.L Report

| | | |
|--|-----------|---------------------|
| Test:U:120.1V I:0.1662A P:19.50W PF:0.9769 Lamp Flux:1854.7x1 lm | | |
| NAME: ASD-LFMDR-MV-14D21CC-EM-NK 4000K | 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 |

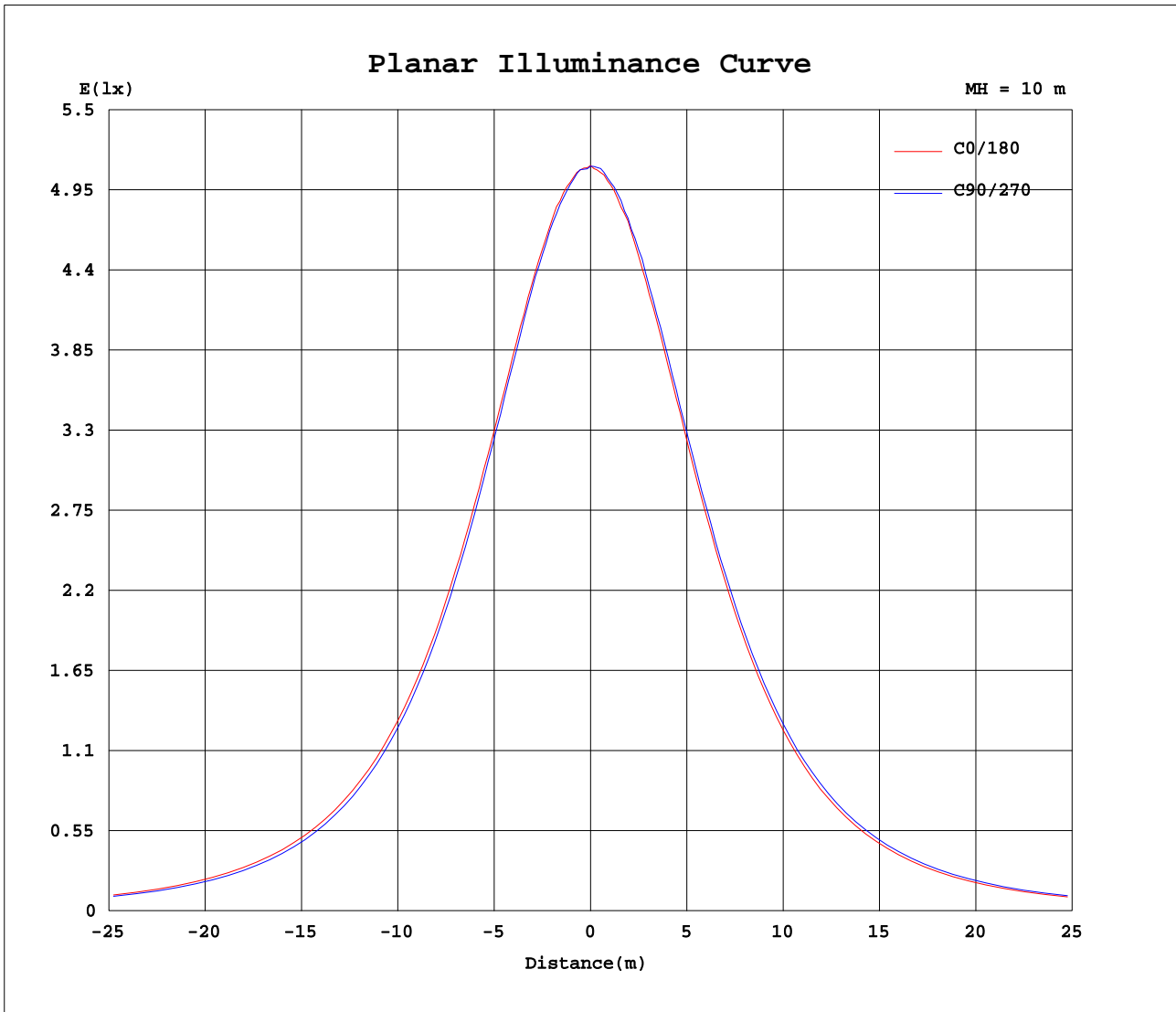
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 2469 |
| L_0~180(75)av | 2735 |
| L_0~180(85)av | 5056 |
| L_90~270(65)av | 2453 |
| L_90~270(75)av | 2706 |
| L_90~270(85)av | 4990 |
| L_45(65)av | 2462 |
| L_45(75)av | 2721 |
| L_45(85)av | 5016 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 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: 2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 37%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-----------|---------------------|
| Test:U:120.1V I:0.1662A P:19.50W PF:0.9769 Lamp Flux:1854.7x1 lm | | |
| NAME: ASD-LFMDR-MV-14D21CC-EM-NK 4000K | 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 | 511 | 511 | 511 | 511 | 511 | 511 | 511 | 511 | 511 | 511 | 511 | 511 | 511 | 511 | 511 | 511 | | | |
| 5 | 509 | 510 | 509 | 509 | 508 | 508 | 507 | 509 | 507 | 508 | 508 | 509 | 509 | 510 | 509 | 510 | | | |
| 10 | 506 | 505 | 501 | 502 | 501 | 502 | 500 | 502 | 501 | 502 | 504 | 504 | 503 | 504 | 504 | 505 | | | |
| 15 | 496 | 495 | 493 | 492 | 491 | 490 | 490 | 493 | 489 | 492 | 493 | 495 | 497 | 494 | 495 | 498 | | | |
| 20 | 483 | 482 | 480 | 479 | 477 | 477 | 476 | 478 | 476 | 478 | 479 | 480 | 483 | 482 | 482 | 484 | | | |
| 25 | 466 | 465 | 463 | 462 | 458 | 457 | 458 | 459 | 458 | 459 | 460 | 463 | 464 | 467 | 466 | 467 | | | |
| 30 | 447 | 445 | 443 | 441 | 438 | 437 | 436 | 437 | 435 | 438 | 440 | 442 | 444 | 445 | 447 | 447 | | | |
| 35 | 425 | 423 | 420 | 417 | 415 | 411 | 411 | 412 | 410 | 413 | 415 | 418 | 420 | 423 | 424 | 424 | | | |
| 40 | 399 | 396 | 392 | 390 | 386 | 383 | 382 | 384 | 382 | 384 | 387 | 391 | 393 | 395 | 396 | 398 | | | |
| 45 | 369 | 368 | 363 | 359 | 356 | 353 | 351 | 353 | 350 | 353 | 356 | 360 | 363 | 366 | 367 | 368 | | | |
| 50 | 338 | 334 | 331 | 326 | 323 | 319 | 317 | 319 | 315 | 320 | 323 | 326 | 330 | 333 | 335 | 337 | | | |
| 55 | 303 | 301 | 296 | 292 | 287 | 283 | 281 | 282 | 280 | 283 | 287 | 292 | 294 | 298 | 300 | 302 | | | |
| 60 | 268 | 264 | 259 | 255 | 250 | 246 | 243 | 244 | 242 | 246 | 249 | 254 | 258 | 262 | 263 | 266 | | | |
| 65 | 230 | 227 | 222 | 217 | 212 | 208 | 206 | 206 | 204 | 208 | 212 | 216 | 219 | 224 | 226 | 227 | | | |
| 70 | 193 | 190 | 186 | 180 | 176 | 171 | 169 | 170 | 168 | 172 | 176 | 180 | 183 | 187 | 189 | 191 | | | |
| 75 | 160 | 157 | 152 | 147 | 142 | 139 | 136 | 136 | 135 | 139 | 142 | 146 | 149 | 152 | 155 | 157 | | | |
| 80 | 129 | 127 | 123 | 119 | 114 | 110 | 107 | 107 | 106 | 109 | 112 | 116 | 118 | 121 | 124 | 126 | | | |
| 85 | 102 | 101 | 97.1 | 92.9 | 88.6 | 84.6 | 82.4 | 82.3 | 81.0 | 83.5 | 86.7 | 89.7 | 92.3 | 95.1 | 97.5 | 99.3 | | | |
| 90 | 79.2 | 77.5 | 74.4 | 71.1 | 67.1 | 64.0 | 61.4 | 60.3 | 59.2 | 61.7 | 64.6 | 67.7 | 70.2 | 72.8 | 75.1 | 76.7 | | | |
| 95 | 59.6 | 58.1 | 55.4 | 52.6 | 49.2 | 46.8 | 44.2 | 43.4 | 42.9 | 45.1 | 47.4 | 49.7 | 51.9 | 54.3 | 56.4 | 57.5 | | | |
| 100 | 45.5 | 44.4 | 42.4 | 40.3 | 37.6 | 35.7 | 34.1 | 33.4 | 33.6 | 34.8 | 36.2 | 38.3 | 39.6 | 41.2 | 43.4 | 44.0 | | | |
| 105 | 38.8 | 38.3 | 36.7 | 34.8 | 32.6 | 31.5 | 30.7 | 31.1 | 32.0 | 33.1 | 33.6 | 34.1 | 34.3 | 35.4 | 36.7 | 37.4 | | | |
| 110 | 38.9 | 38.3 | 36.6 | 34.6 | 32.6 | 31.3 | 30.5 | 30.9 | 31.7 | 33.0 | 33.5 | 34.1 | 34.4 | 35.3 | 36.4 | 37.5 | | | |
| 115 | 37.8 | 37.3 | 35.5 | 33.8 | 31.7 | 30.4 | 29.6 | 29.9 | 30.7 | 32.0 | 32.7 | 33.1 | 33.6 | 34.4 | 35.6 | 36.7 | | | |
| 120 | 35.7 | 35.0 | 33.6 | 32.1 | 30.2 | 28.9 | 27.9 | 28.0 | 28.6 | 29.7 | 30.5 | 31.4 | 32.0 | 32.9 | 34.0 | 34.8 | | | |
| 125 | 33.1 | 32.3 | 31.0 | 29.4 | 27.7 | 26.3 | 25.3 | 25.1 | 25.7 | 26.9 | 27.7 | 28.7 | 29.4 | 30.4 | 31.7 | 32.3 | | | |
| 130 | 30.2 | 29.5 | 28.1 | 26.4 | 24.7 | 23.3 | 22.2 | 21.9 | 22.2 | 23.4 | 24.4 | 25.6 | 26.3 | 27.3 | 28.7 | 29.3 | | | |
| 135 | 26.9 | 26.2 | 24.8 | 23.3 | 21.4 | 20.1 | 18.9 | 18.5 | 18.6 | 19.7 | 20.8 | 21.9 | 22.6 | 23.8 | 25.3 | 25.9 | | | |
| 140 | 23.3 | 22.5 | 21.4 | 19.8 | 18.0 | 16.5 | 15.4 | 14.8 | 14.9 | 16.0 | 17.0 | 17.8 | 18.5 | 19.7 | 21.6 | 22.1 | | | |
| 145 | 19.5 | 18.4 | 17.7 | 16.3 | 14.8 | 12.9 | 11.7 | 11.4 | 10.5 | 11.9 | 13.2 | 13.7 | 14.5 | 15.4 | 17.2 | 18.2 | | | |
| 150 | 15.9 | 14.1 | 14.6 | 12.7 | 11.3 | 9.85 | 8.33 | 8.29 | 6.80 | 7.92 | 9.10 | 9.79 | 11.0 | 11.4 | 13.1 | 14.0 | | | |
| 155 | 10.8 | 9.93 | 9.98 | 9.49 | 8.06 | 7.11 | 5.67 | 5.63 | 4.98 | 5.28 | 5.40 | 6.45 | 7.23 | 7.67 | 9.03 | 9.68 | | | |
| 160 | 7.06 | 6.36 | 6.12 | 6.25 | 5.65 | 5.03 | 4.15 | 4.32 | 3.69 | 3.61 | 3.78 | 4.17 | 4.46 | 4.96 | 5.64 | 6.11 | | | |
| 165 | 4.73 | 3.78 | 3.93 | 4.22 | 4.09 | 3.44 | 2.95 | 2.90 | 2.54 | 2.47 | 2.52 | 2.98 | 2.84 | 2.78 | 3.85 | 3.92 | | | |
| 170 | 3.27 | 2.65 | 3.15 | 2.57 | 3.08 | 2.78 | 2.32 | 2.42 | 2.37 | 2.38 | 2.32 | 2.03 | 2.30 | 1.87 | 2.21 | 2.21 | | | |
| 175 | 2.05 | 2.50 | 2.45 | 1.73 | 1.47 | 1.52 | 1.46 | 1.56 | 1.60 | 1.57 | 1.99 | 1.67 | 1.07 | 0.95 | 1.28 | 1.64 | | | |
| 180 | 0.83 | 0.84 | 0.86 | 0.83 | 0.50 | 0.36 | 0.39 | 0.32 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.85 | 0.86 | | | |

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