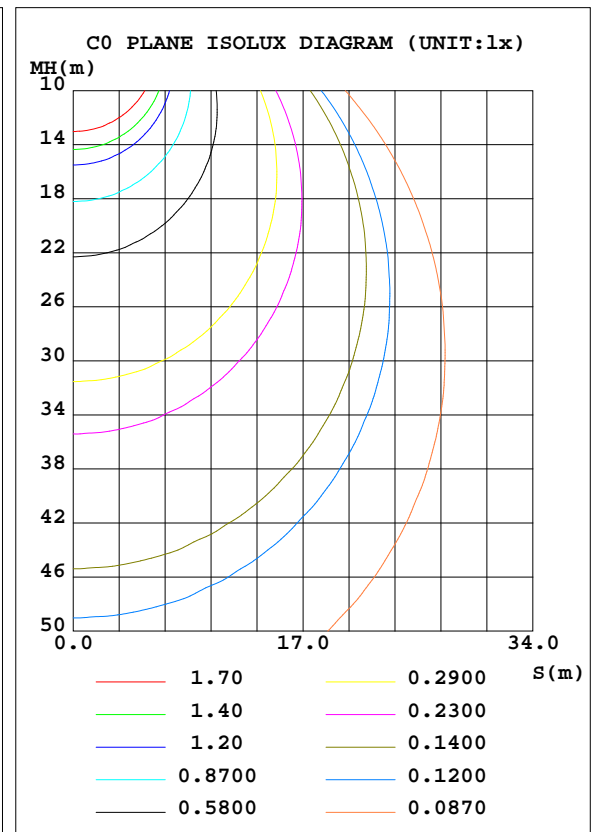
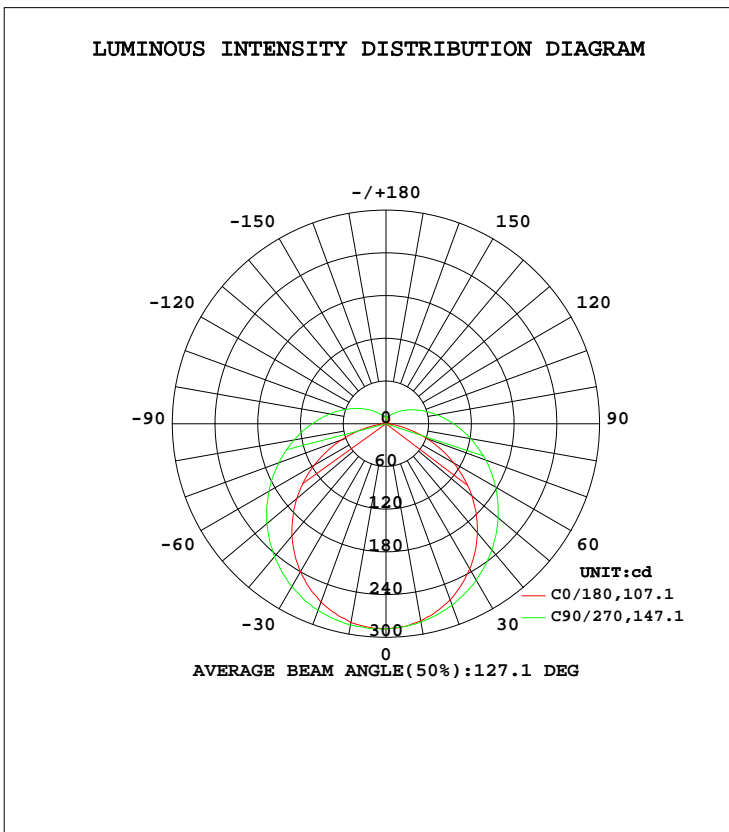


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|-----------|---------------------|
| Test:U:120.1V I:0.1339A P:15.43W PF:0.9595 Lamp Flux:1148.25x1 lm | | |
| NAME: LED Luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: RISING-SUN | SUR.:N/A | Shielding Angle:N/A |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 74.42 lm/W | | | |
|------------------|-------------------|----------------------------------|---------|--------------------|----------|
| MODEL | PSZ2S221111001-10 | I _{max} (cd) | 288.8 | S/MH(C0/180) | 1.22 |
| NOMINAL POWER(W) | | LOR(%) | 100.0 | S/MH(C90/270) | 1.31 |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 1148.3 | η UP, DN(C0-180) | 7.3,44.1 |
| NOMINAL FLUX(lm) | 1148.25 | CIE CLASS | SEMI-D. | η UP, DN(C180-360) | 6.7,42.0 |
| LAMPS INSIDE | 1 | η up(%) | 14.0 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE(V) | 120 | η down(%) | 86.0 | CIBSE SHR MAX | 1.50 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3DEG
 Operators:Carl
 Test Date:2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:48%
 Test Distance:2.532m [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 | 283.4 | 285.5 | 286.8 | 284.7 | 280.9 | 281.5 | 282.8 | 282.3 | 0- 10 | 27.27 | 27.27 | 2.38,2.38 |
| 20 | 266.6 | 273.7 | 279.0 | 272.1 | 263.4 | 266.0 | 271.1 | 267.6 | 10- 20 | 78.40 | 105.7 | 9.2,9.2 |
| 30 | 240.1 | 253.4 | 264.2 | 251.1 | 235.3 | 243.2 | 253.6 | 245.3 | 20- 30 | 119.9 | 225.6 | 19.6,19.6 |
| 40 | 205.6 | 225.9 | 243.5 | 223.5 | 199.6 | 214.2 | 231.3 | 216.9 | 30- 40 | 147.0 | 372.6 | 32.4,32.4 |
| 50 | 163.5 | 193.5 | 218.0 | 191.0 | 157.6 | 181.3 | 205.6 | 184.5 | 40- 50 | 157.4 | 530.0 | 46.2,46.2 |
| 60 | 116.6 | 158.3 | 189.8 | 156.0 | 109.8 | 147.0 | 177.8 | 149.8 | 50- 60 | 151.2 | 681.2 | 59.3,59.3 |
| 70 | 66.61 | 123.0 | 160.1 | 121.3 | 60.83 | 112.2 | 149.3 | 114.8 | 60- 70 | 131.0 | 812.2 | 70.7,70.7 |
| 80 | 21.16 | 90.84 | 131.0 | 90.03 | 17.31 | 82.27 | 120.6 | 84.25 | 70- 80 | 102.3 | 914.5 | 79.6,79.6 |
| 90 | 0.0955 | 64.58 | 103.8 | 64.31 | 0.0548 | 57.74 | 94.96 | 59.06 | 80- 90 | 73.53 | 988.0 | 86,86 |
| 100 | 0.5838 | 44.56 | 79.98 | 44.86 | 0.6929 | 40.17 | 72.86 | 40.89 | 90-100 | 52.04 | 1040 | 90.6,90.6 |
| 110 | 2.351 | 30.91 | 59.49 | 31.41 | 2.391 | 28.27 | 54.30 | 28.54 | 100-110 | 36.58 | 1077 | 93.8,93.8 |
| 120 | 4.410 | 22.00 | 43.04 | 22.49 | 4.339 | 20.66 | 39.53 | 20.71 | 110-120 | 25.35 | 1102 | 96,96 |
| 130 | 6.550 | 16.47 | 30.42 | 16.80 | 6.317 | 15.73 | 28.39 | 15.92 | 120-130 | 17.37 | 1119 | 97.5,97.5 |
| 140 | 8.509 | 13.15 | 21.27 | 13.35 | 8.136 | 12.53 | 20.37 | 13.42 | 130-140 | 11.80 | 1131 | 98.5,98.5 |
| 150 | 10.01 | 11.33 | 15.41 | 11.54 | 9.705 | 10.61 | 14.87 | 12.14 | 140-150 | 7.976 | 1139 | 99.2,99.2 |
| 160 | 11.23 | 10.79 | 12.12 | 10.69 | 10.42 | 10.02 | 11.71 | 11.29 | 150-160 | 5.274 | 1144 | 99.7,99.7 |
| 170 | 9.935 | 10.10 | 11.11 | 10.45 | 8.241 | 9.672 | 10.52 | 10.56 | 160-170 | 3.065 | 1147 | 99.9,99.9 |
| 180 | 4.557 | 3.183 | 6.472 | 3.156 | 4.971 | 4.329 | 2.688 | 2.633 | 170-180 | 0.8058 | 1148 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 451.09 lm

%lum = 39.3%
%lamp = 39.3%

Conical surface Flux(120deg): 681.25 lm

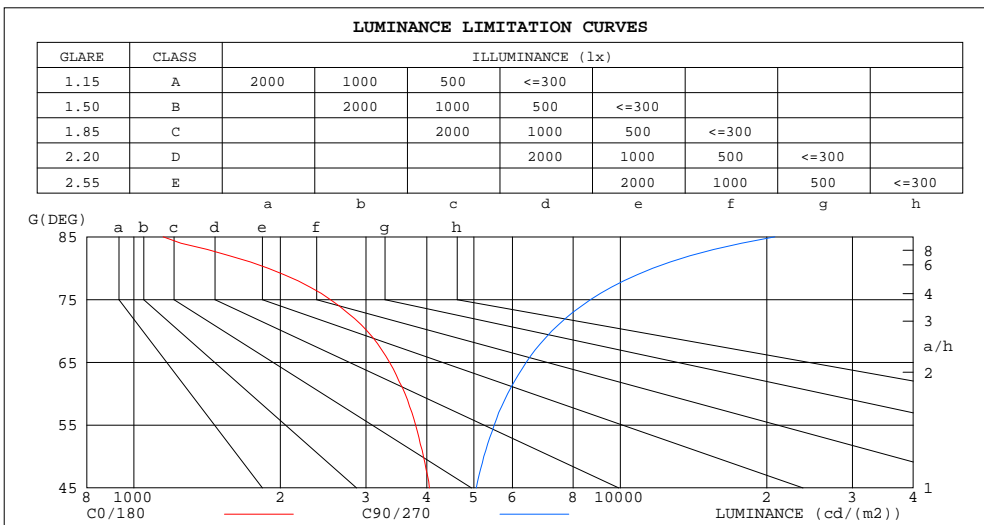
%lum = 59.3%
%lamp = 59.3%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.3DEG
Operators:Carl
Test Date:2022-12-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:48%
Test Distance:2.532m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|-----------|---------------------|
| Test:U:120.1V I:0.1339A P:15.43W PF:0.9595 Lamp Flux:1148.25x1 lm | | |
| NAME: LED Luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: RISING-SUN | SUR.:N/A | Shielding Angle:N/A |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 1149 | 20778 |
| 80 | 1887 | 11662 |
| 75 | 2533 | 8688 |
| 70 | 3016 | 7233 |
| 65 | 3353 | 6404 |
| 60 | 3610 | 5866 |
| 55 | 3795 | 5506 |
| 50 | 3938 | 5242 |
| 45 | 4049 | 5057 |

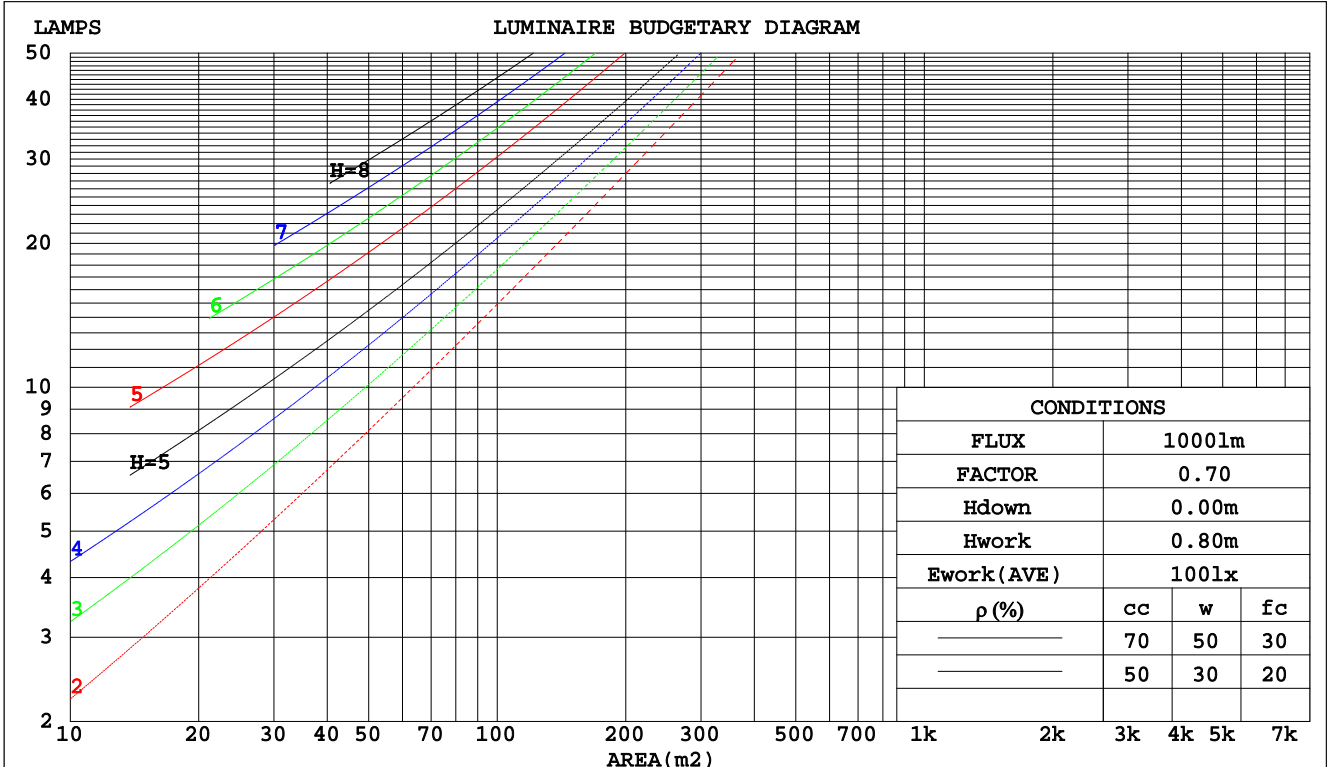
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3DEG
 Operators: Carl
 Test Date: 2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 48%
 Test Distance: 2.532m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|-----------|---------------------|
| Test:U:120.1V I:0.1339A P:15.43W PF:0.9595 Lamp Flux:1148.25x1 lm | | |
| NAME: LED Luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: RISING-SUN | 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 | | | | | | | | | | | | | | | | |
| RCR | RCR:Room Cavity Ratio | | | | | | | | | | | | | | | |
| | Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| 0.0 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.03 | 1.03 | 1.03 | .96 | .96 | .96 | .89 | .89 | .89 | .86 |
| 1.0 | .97 | .92 | .88 | .94 | .89 | .85 | .87 | .83 | .80 | .81 | .77 | .75 | .75 | .72 | .70 | .67 |
| 2.0 | .84 | .76 | .70 | .81 | .74 | .68 | .75 | .69 | .64 | .69 | .65 | .60 | .64 | .60 | .57 | .54 |
| 3.0 | .73 | .64 | .57 | .70 | .62 | .56 | .65 | .58 | .53 | .60 | .55 | .50 | .56 | .51 | .47 | .45 |
| 4.0 | .64 | .55 | .48 | .62 | .53 | .47 | .57 | .50 | .44 | .53 | .47 | .42 | .50 | .45 | .40 | .38 |
| 5.0 | .57 | .48 | .41 | .55 | .46 | .40 | .51 | .44 | .38 | .48 | .41 | .36 | .45 | .39 | .35 | .32 |
| 6.0 | .51 | .42 | .35 | .49 | .41 | .34 | .46 | .39 | .33 | .43 | .37 | .32 | .40 | .35 | .30 | .28 |
| 7.0 | .46 | .37 | .31 | .45 | .36 | .30 | .42 | .34 | .29 | .39 | .33 | .28 | .37 | .31 | .27 | .25 |
| 8.0 | .42 | .33 | .27 | .41 | .33 | .27 | .38 | .31 | .26 | .36 | .29 | .25 | .34 | .28 | .24 | .22 |
| 9.0 | .38 | .30 | .24 | .37 | .29 | .24 | .35 | .28 | .23 | .33 | .27 | .22 | .31 | .26 | .21 | .19 |
| 10.0 | .35 | .27 | .22 | .34 | .27 | .22 | .32 | .26 | .21 | .31 | .24 | .20 | .29 | .23 | .19 | .18 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3DEG
 Operators:Carl
 Test Date:2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:48%
 Test Distance:2.532m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|---|-----------|---------------------|
| Test:U:120.1V I:0.1339A P:15.43W PF:0.9595 Lamp Flux:1148.25x1 lm | | |
| NAME: LED Luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: RISING-SUN | 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 | .369 | .210 | .067 | .358 | .204 | .065 | .336 | .193 | .062 | .317 | .183 | .059 | .299 | .173 | .056 | |
| 2.0 | .324 | .178 | .055 | .314 | .173 | .053 | .295 | .164 | .051 | .277 | .155 | .049 | .260 | .147 | .046 | |
| 3.0 | .290 | .154 | .046 | .281 | .150 | .045 | .263 | .143 | .043 | .247 | .136 | .042 | .232 | .129 | .040 | |
| 4.0 | .262 | .136 | .040 | .254 | .133 | .039 | .238 | .126 | .038 | .224 | .120 | .036 | .210 | .114 | .035 | |
| 5.0 | .239 | .122 | .035 | .232 | .119 | .035 | .218 | .113 | .033 | .204 | .108 | .032 | .192 | .103 | .031 | |
| 6.0 | .220 | .110 | .032 | .213 | .108 | .031 | .200 | .103 | .030 | .188 | .098 | .029 | .177 | .093 | .028 | |
| 7.0 | .203 | .100 | .028 | .197 | .098 | .028 | .185 | .094 | .027 | .174 | .089 | .026 | .164 | .085 | .025 | |
| 8.0 | .189 | .092 | .026 | .183 | .090 | .025 | .172 | .086 | .025 | .162 | .082 | .024 | .153 | .078 | .023 | |
| 9.0 | .176 | .085 | .024 | .171 | .083 | .023 | .161 | .080 | .023 | .152 | .076 | .022 | .143 | .073 | .021 | |
| 10.0 | .165 | .079 | .022 | .160 | .077 | .022 | .151 | .074 | .021 | .142 | .071 | .020 | .134 | .068 | .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 | .297 | .297 | .297 | .254 | .254 | .254 | .173 | .173 | .173 | .099 | .099 | .099 | .032 | .032 | .032 | |
| 1.0 | .292 | .263 | .237 | .250 | .226 | .204 | .171 | .155 | .141 | .098 | .090 | .082 | .031 | .029 | .027 | |
| 2.0 | .285 | .240 | .202 | .244 | .206 | .175 | .167 | .143 | .122 | .096 | .083 | .071 | .031 | .027 | .023 | |
| 3.0 | .277 | .223 | .180 | .237 | .192 | .156 | .163 | .134 | .109 | .094 | .078 | .065 | .030 | .025 | .021 | |
| 4.0 | .269 | .210 | .165 | .231 | .182 | .144 | .159 | .127 | .101 | .092 | .074 | .060 | .030 | .024 | .020 | |
| 5.0 | .261 | .200 | .155 | .225 | .173 | .135 | .155 | .121 | .095 | .090 | .071 | .057 | .029 | .023 | .019 | |
| 6.0 | .254 | .192 | .148 | .218 | .167 | .129 | .151 | .117 | .091 | .087 | .069 | .054 | .028 | .022 | .018 | |
| 7.0 | .247 | .186 | .143 | .213 | .161 | .124 | .147 | .113 | .088 | .085 | .066 | .052 | .028 | .022 | .017 | |
| 8.0 | .240 | .180 | .139 | .207 | .156 | .121 | .143 | .110 | .086 | .083 | .065 | .051 | .027 | .021 | .017 | |
| 9.0 | .234 | .175 | .135 | .202 | .152 | .118 | .140 | .107 | .084 | .081 | .063 | .050 | .026 | .021 | .017 | |
| 10.0 | .228 | .171 | .133 | .197 | .148 | .116 | .137 | .104 | .082 | .080 | .062 | .049 | .026 | .020 | .016 | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3DEG
 Operators:Carl
 Test Date:2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:48%
 Test Distance:2.532m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|------------------|------|------|------|-----------|----------------|------|---------------------|------|------|
| Test:U:120.1V I:0.1339A P:15.43W PF:0.9595 Lamp Flux:1148.25x1 lm | | | | | | | | | | |
| NAME: LED Luminaires | | | | | TYPE:N/A | | | WEIGHT:N/A | | |
| SPEC.:N/A | | | | | DIM.: N/A | | | SERIAL No.:N/A | | |
| MFR.: RISING-SUN | | | | | 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 | 16.4 | 17.9 | 16.9 | 18.3 | 18.8 | 18.4 | 19.8 | 18.8 | 20.2 | 20.7 |
| 3H | 17.8 | 19.1 | 18.3 | 19.6 | 20.1 | 20.9 | 22.2 | 21.4 | 22.7 | 23.2 |
| 4H | 18.3 | 19.5 | 18.8 | 20.0 | 20.6 | 22.3 | 23.5 | 22.8 | 24.0 | 24.5 |
| 6H | 18.6 | 19.8 | 19.1 | 20.3 | 20.8 | 23.8 | 24.9 | 24.3 | 25.4 | 26.0 |
| 8H | 18.7 | 19.8 | 19.2 | 20.3 | 20.9 | 24.6 | 25.7 | 25.1 | 26.3 | 26.8 |
| 12H | 18.7 | 19.7 | 19.2 | 20.3 | 20.9 | 25.6 | 26.7 | 26.1 | 27.2 | 27.8 |
| 4H 2H | 17.5 | 18.7 | 18.0 | 19.2 | 19.8 | 18.9 | 20.2 | 19.4 | 20.6 | 21.2 |
| 3H | 19.1 | 20.2 | 19.7 | 20.7 | 21.3 | 21.7 | 22.8 | 22.2 | 23.3 | 23.9 |
| 4H | 19.8 | 20.8 | 20.4 | 21.3 | 22.0 | 23.2 | 24.2 | 23.8 | 24.8 | 25.4 |
| 6H | 20.3 | 21.2 | 20.9 | 21.7 | 22.4 | 25.0 | 25.9 | 25.6 | 26.5 | 27.1 |
| 8H | 20.4 | 21.2 | 21.0 | 21.8 | 22.5 | 25.9 | 26.8 | 26.6 | 27.4 | 28.1 |
| 12H | 20.5 | 21.2 | 21.1 | 21.9 | 22.6 | 27.0 | 27.8 | 27.7 | 28.4 | 29.1 |
| 8H 4H | 20.8 | 21.6 | 21.4 | 22.2 | 22.9 | 23.6 | 24.4 | 24.2 | 25.0 | 25.7 |
| 6H | 21.6 | 22.3 | 22.2 | 22.9 | 23.7 | 25.6 | 26.3 | 26.2 | 26.9 | 27.6 |
| 8H | 21.9 | 22.6 | 22.6 | 23.2 | 23.9 | 26.8 | 27.4 | 27.4 | 28.0 | 28.8 |
| 12H | 22.2 | 22.7 | 22.8 | 23.4 | 24.1 | 28.1 | 28.7 | 28.8 | 29.4 | 30.1 |
| 12H 4H | 21.1 | 21.8 | 21.7 | 22.5 | 23.2 | 23.6 | 24.3 | 24.2 | 24.9 | 25.6 |
| 6H | 22.1 | 22.8 | 22.8 | 23.4 | 24.2 | 25.7 | 26.3 | 26.3 | 27.0 | 27.7 |
| 8H | 22.6 | 23.2 | 23.3 | 23.9 | 24.6 | 27.0 | 27.5 | 27.6 | 28.2 | 28.9 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.2 | | | | | + 0.1 / - 0.1 | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |
| 2.0H | + 0.2 / - 0.4 | | | | | + 0.2 / - 0.3 | | | | |

CIE Pub.117 Corrected 1148 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.5)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3DEG
 Operators:Carl
 Test Date:2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:48%
 Test Distance:2.532m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|-----------|---------------------|
| Test:U:120.1V I:0.1339A P:15.43W PF:0.9595 Lamp Flux:1148.25x1 lm | | |
| NAME: LED Luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: RISING-SUN | SUR.:N/A | Shielding Angle:N/A |

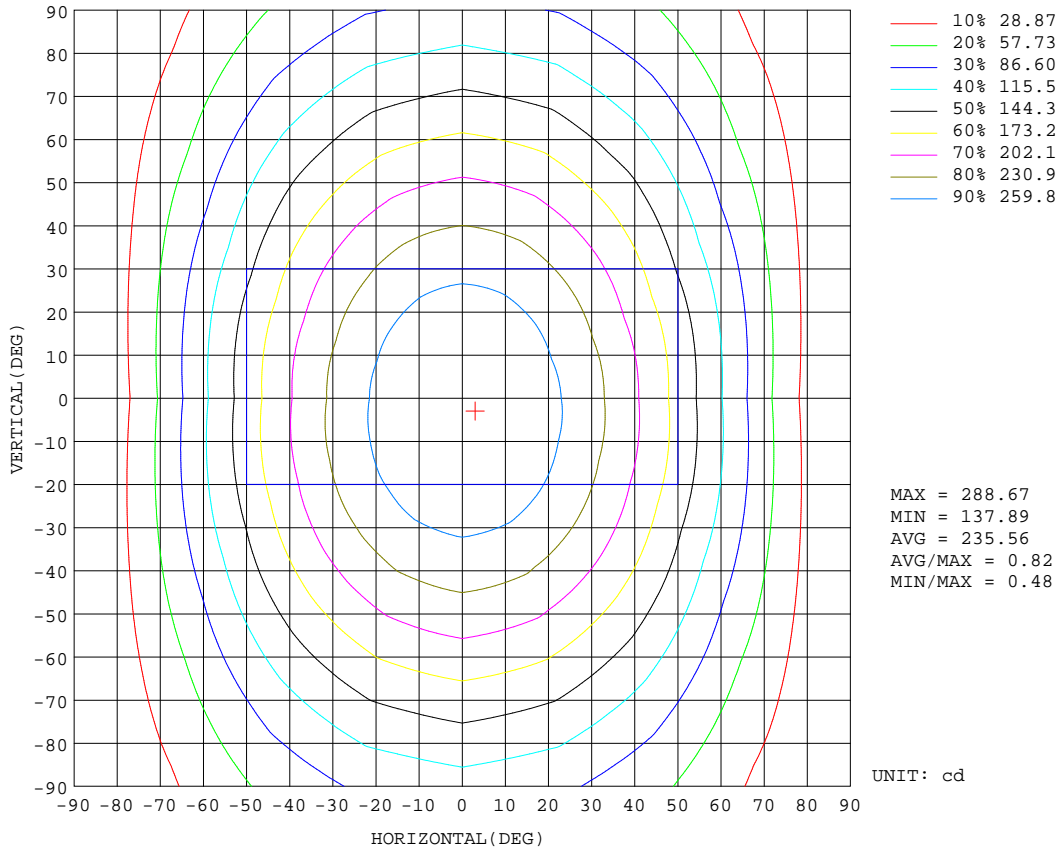
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 50 | 38 | 31 | 49 | 37 | 30 | 47 | 37 | 30 | 23 |
| 0.80 | 59 | 47 | 39 | 58 | 46 | 39 | 55 | 45 | 38 | 30 |
| 1.00 | 67 | 55 | 47 | 66 | 54 | 46 | 62 | 55 | 45 | 37 |
| 1.25 | 74 | 62 | 54 | 72 | 61 | 53 | 68 | 59 | 52 | 43 |
| 1.50 | 79 | 68 | 59 | 77 | 66 | 58 | 72 | 63 | 57 | 47 |
| 2.00 | 86 | 76 | 68 | 84 | 74 | 67 | 78 | 70 | 64 | 53 |
| 2.50 | 91 | 81 | 74 | 88 | 79 | 72 | 82 | 75 | 69 | 57 |
| 3.00 | 94 | 86 | 79 | 91 | 83 | 77 | 85 | 79 | 73 | 61 |
| 4.00 | 99 | 91 | 85 | 95 | 89 | 83 | 89 | 83 | 79 | 66 |
| 5.00 | 102 | 95 | 90 | 98 | 92 | 87 | 91 | 87 | 82 | 69 |
| 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:24.3DEG
 Operators:Carl
 Test Date:2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:48%
 Test Distance:2.532m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|-----------|---------------------|
| Test:U:120.1V I:0.1339A P:15.43W PF:0.9595 Lamp Flux:1148.25x1 lm | | |
| NAME: LED Luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: RISING-SUN | SUR.:N/A | Shielding Angle:N/A |

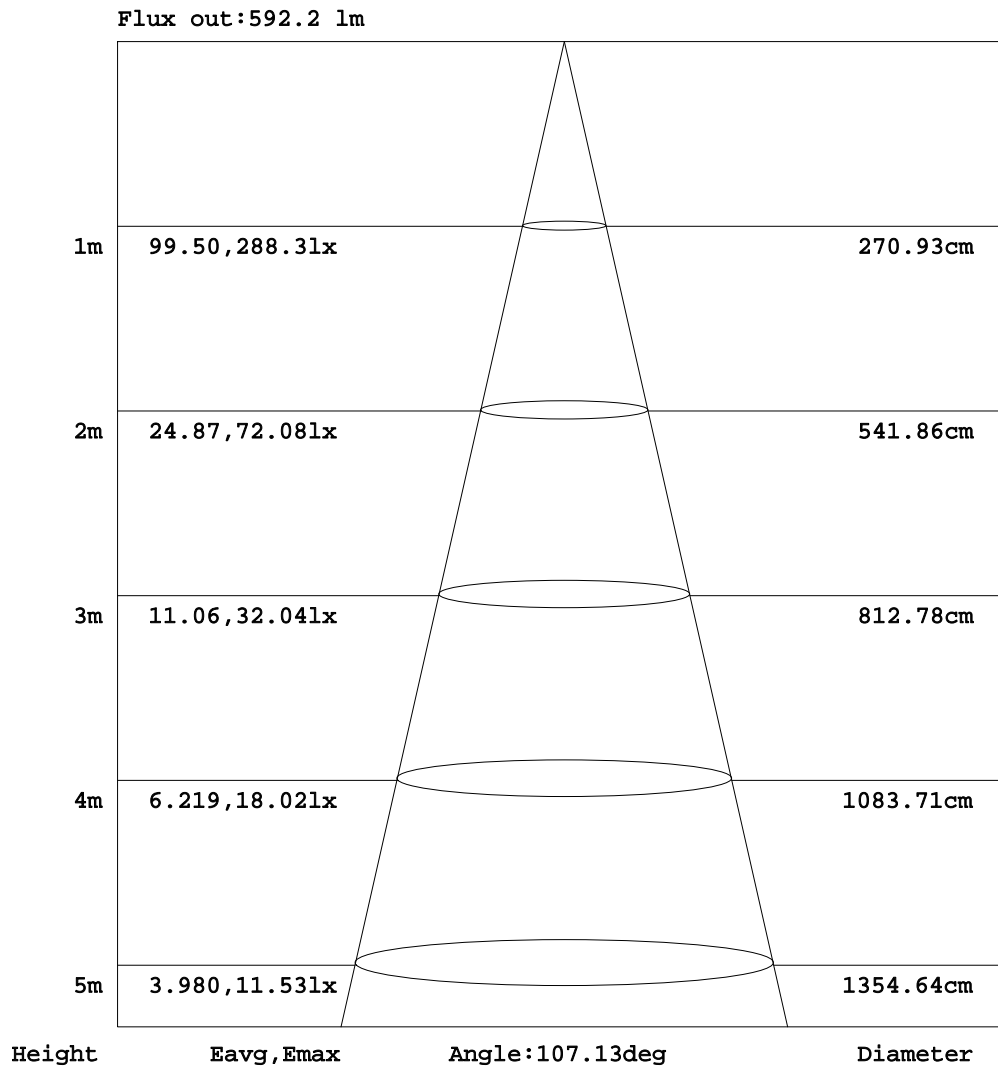


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3DEG
 Operators:Carl
 Test Date:2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:48%
 Test Distance:2.532m [K=1.0000]
 Remarks:

AAI Figure

| | | |
|---|-----------|---------------------|
| Test:U:120.1V I:0.1339A P:15.43W PF:0.9595 Lamp Flux:1148.25x1 lm | | |
| NAME: LED Luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: RISING-SUN | SUR.:N/A | Shielding Angle:N/A |



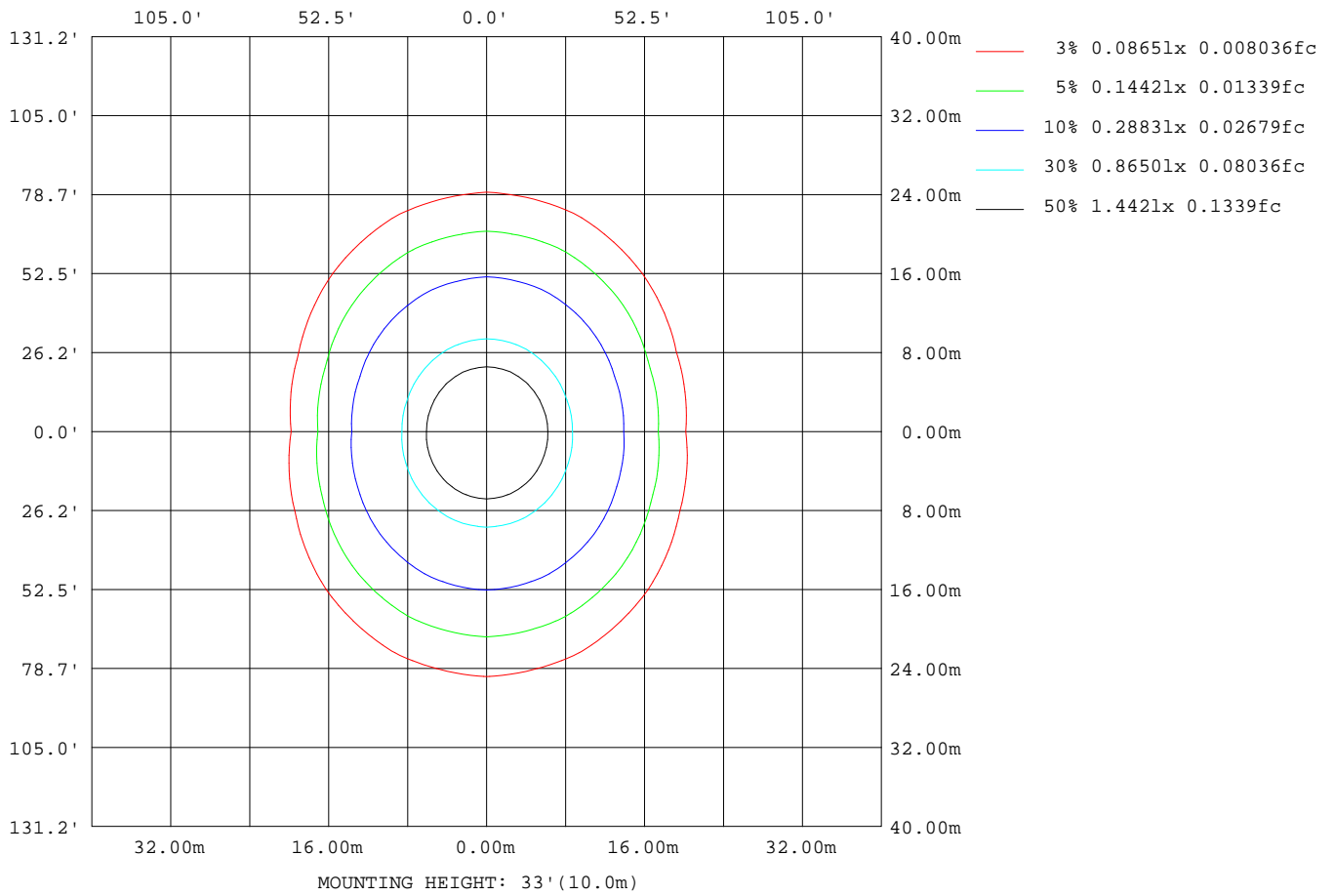
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3DEG
 Operators:Carl
 Test Date:2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:48%
 Test Distance:2.532m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

| | | |
|---|-----------|---------------------|
| Test:U:120.1V I:0.1339A P:15.43W PF:0.9595 Lamp Flux:1148.25x1 lm | | |
| NAME: LED Luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: RISING-SUN | SUR.:N/A | Shielding Angle:N/A |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3DEG
 Operators:Carl
 Test Date:2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:48%
 Test Distance:2.532m [K=1.0000]
 Remarks:

LED Avg.L Report

| | | |
|---|-----------|---------------------|
| Test:U:120.1V I:0.1339A P:15.43W PF:0.9595 Lamp Flux:1148.25x1 lm | | |
| NAME: LED Luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: RISING-SUN | SUR.:N/A | Shielding Angle:N/A |

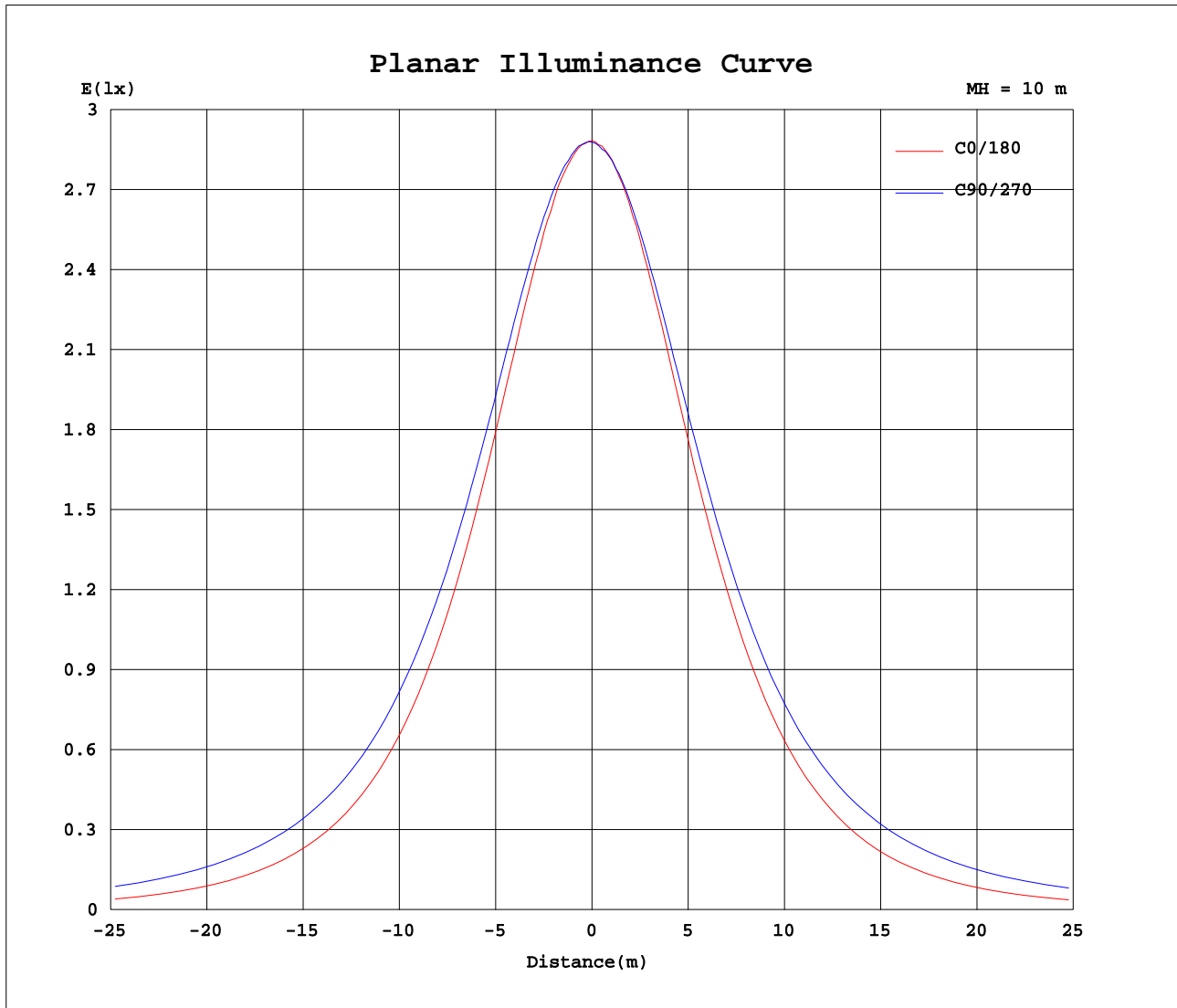
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 3238 |
| L_0~180(75)av | 2387 |
| L_0~180(85)av | 908 |
| L_90~270(65)av | 6196 |
| L_90~270(75)av | 8361 |
| L_90~270(85)av | 19931 |
| L_45(65)av | 4934 |
| L_45(75)av | 6084 |
| L_45(85)av | 13011 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3DEG
 Operators:Carl
 Test Date:2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:48%
 Test Distance:2.532m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3DEG
 Operators: Carl
 Test Date: 2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 48%
 Test Distance: 2.532m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-----------|---------------------|
| Test:U:120.1V I:0.1339A P:15.43W PF:0.9595 Lamp Flux:1148.25x1 lm | | |
| NAME: LED Luminaires | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: RISING-SUN | 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 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | | | |
| 5 | 287 | 287 | 288 | 288 | 288 | 288 | 287 | 287 | 286 | 285 | 286 | 286 | 286 | 287 | 286 | 286 | | | |
| 10 | 283 | 284 | 286 | 287 | 287 | 286 | 285 | 283 | 281 | 281 | 282 | 282 | 283 | 283 | 282 | 282 | | | |
| 15 | 275 | 277 | 281 | 283 | 284 | 283 | 279 | 276 | 273 | 273 | 275 | 277 | 278 | 278 | 276 | 275 | | | |
| 20 | 267 | 269 | 274 | 278 | 279 | 277 | 272 | 267 | 263 | 263 | 266 | 269 | 271 | 270 | 268 | 266 | | | |
| 25 | 254 | 258 | 264 | 270 | 272 | 270 | 263 | 256 | 250 | 251 | 255 | 261 | 263 | 262 | 257 | 254 | | | |
| 30 | 240 | 245 | 253 | 261 | 264 | 260 | 251 | 242 | 235 | 237 | 243 | 250 | 254 | 251 | 245 | 240 | | | |
| 35 | 224 | 229 | 241 | 251 | 254 | 250 | 238 | 227 | 218 | 221 | 229 | 239 | 243 | 240 | 232 | 224 | | | |
| 40 | 206 | 213 | 226 | 239 | 244 | 237 | 223 | 209 | 200 | 203 | 214 | 226 | 231 | 227 | 217 | 207 | | | |
| 45 | 185 | 193 | 210 | 225 | 231 | 224 | 208 | 191 | 179 | 184 | 198 | 213 | 219 | 214 | 201 | 188 | | | |
| 50 | 163 | 174 | 193 | 211 | 218 | 210 | 191 | 171 | 158 | 164 | 181 | 198 | 206 | 200 | 184 | 168 | | | |
| 55 | 141 | 153 | 176 | 196 | 204 | 195 | 174 | 150 | 134 | 143 | 164 | 184 | 192 | 185 | 167 | 147 | | | |
| 60 | 117 | 131 | 158 | 181 | 190 | 180 | 156 | 128 | 110 | 121 | 147 | 169 | 178 | 170 | 150 | 125 | | | |
| 65 | 91.5 | 110 | 140 | 165 | 175 | 165 | 138 | 107 | 85.4 | 100 | 129 | 154 | 163 | 155 | 132 | 104 | | | |
| 70 | 66.6 | 88.5 | 123 | 150 | 160 | 149 | 121 | 86.4 | 60.8 | 79.9 | 112 | 138 | 149 | 140 | 115 | 83.4 | | | |
| 75 | 42.3 | 68.7 | 107 | 135 | 145 | 134 | 105 | 67.1 | 37.5 | 61.1 | 96.6 | 124 | 134 | 125 | 99.0 | 64.2 | | | |
| 80 | 21.2 | 50.6 | 90.8 | 120 | 131 | 120 | 90.0 | 49.8 | 17.3 | 44.9 | 82.3 | 110 | 121 | 111 | 84.3 | 47.4 | | | |
| 85 | 6.47 | 36.2 | 76.9 | 106 | 117 | 106 | 76.4 | 36.0 | 3.76 | 31.8 | 69.2 | 97.0 | 107 | 97.6 | 70.8 | 33.5 | | | |
| 90 | 0.10 | 25.4 | 64.6 | 93.2 | 104 | 92.9 | 64.3 | 25.7 | 0.05 | 22.2 | 57.7 | 84.5 | 95.0 | 85.2 | 59.1 | 23.2 | | | |
| 95 | 0.19 | 18.0 | 53.5 | 81.2 | 91.4 | 81.1 | 53.6 | 18.7 | 0.21 | 16.0 | 48.2 | 73.7 | 83.5 | 74.2 | 49.1 | 16.5 | | | |
| 100 | 0.58 | 13.3 | 44.6 | 70.4 | 80.0 | 70.3 | 44.9 | 14.2 | 0.69 | 12.3 | 40.2 | 63.6 | 72.9 | 64.1 | 40.9 | 12.5 | | | |
| 105 | 1.37 | 10.6 | 37.0 | 60.2 | 69.5 | 60.5 | 37.5 | 11.4 | 1.49 | 10.0 | 33.6 | 54.8 | 63.1 | 55.0 | 34.0 | 10.0 | | | |
| 110 | 2.35 | 9.12 | 30.9 | 51.4 | 59.5 | 51.6 | 31.4 | 9.83 | 2.39 | 8.88 | 28.3 | 46.8 | 54.3 | 47.0 | 28.5 | 8.87 | | | |
| 115 | 3.37 | 8.40 | 26.0 | 43.7 | 50.8 | 43.9 | 26.5 | 8.91 | 3.35 | 8.30 | 24.0 | 40.0 | 46.5 | 40.0 | 24.1 | 8.38 | | | |
| 120 | 4.41 | 8.03 | 22.0 | 36.9 | 43.0 | 37.2 | 22.5 | 8.47 | 4.34 | 8.06 | 20.7 | 34.0 | 39.5 | 34.1 | 20.7 | 8.24 | | | |
| 125 | 5.50 | 7.96 | 18.9 | 31.1 | 36.4 | 31.4 | 19.3 | 8.35 | 5.34 | 8.03 | 17.9 | 29.0 | 33.5 | 28.9 | 18.0 | 8.28 | | | |
| 130 | 6.55 | 8.01 | 16.5 | 26.2 | 30.4 | 26.4 | 16.8 | 8.41 | 6.32 | 8.14 | 15.7 | 24.6 | 28.4 | 24.6 | 15.9 | 8.46 | | | |
| 135 | 7.57 | 8.14 | 14.6 | 22.2 | 25.4 | 22.3 | 14.8 | 8.42 | 7.26 | 8.34 | 14.0 | 20.8 | 24.0 | 21.1 | 14.4 | 8.69 | | | |
| 140 | 8.51 | 8.51 | 13.2 | 18.8 | 21.3 | 18.9 | 13.4 | 8.61 | 8.14 | 8.63 | 12.5 | 17.7 | 20.4 | 18.3 | 13.4 | 8.97 | | | |
| 145 | 9.27 | 8.92 | 12.1 | 16.2 | 18.0 | 16.2 | 12.3 | 9.10 | 8.96 | 8.83 | 11.3 | 15.1 | 17.2 | 16.1 | 12.7 | 9.31 | | | |
| 150 | 10.0 | 9.45 | 11.3 | 14.1 | 15.4 | 14.2 | 11.5 | 9.72 | 9.70 | 9.39 | 10.6 | 13.0 | 14.9 | 14.4 | 12.1 | 9.61 | | | |
| 155 | 10.7 | 10.0 | 11.1 | 12.7 | 13.6 | 12.8 | 10.9 | 10.2 | 10.2 | 10.1 | 10.1 | 11.6 | 12.9 | 12.9 | 11.8 | 9.89 | | | |
| 160 | 11.2 | 9.98 | 10.8 | 11.7 | 12.1 | 11.7 | 10.7 | 10.6 | 10.4 | 10.8 | 10.0 | 11.0 | 11.7 | 11.8 | 11.3 | 10.3 | | | |
| 165 | 11.3 | 10.3 | 10.8 | 11.3 | 11.3 | 11.1 | 11.0 | 10.9 | 10.8 | 11.1 | 9.94 | 10.7 | 11.1 | 11.1 | 10.8 | 10.4 | | | |
| 170 | 9.94 | 10.3 | 10.1 | 10.6 | 11.1 | 10.6 | 10.4 | 9.96 | 8.24 | 8.35 | 9.67 | 9.77 | 10.5 | 10.9 | 10.6 | 10.1 | | | |
| 175 | 7.32 | 7.33 | 8.68 | 8.38 | 8.18 | 8.74 | 6.93 | 6.57 | 5.68 | 5.70 | 6.41 | 7.24 | 8.81 | 8.62 | 8.91 | 9.21 | | | |
| 180 | 4.56 | 4.43 | 3.18 | 5.72 | 6.47 | 1.43 | 3.16 | 3.95 | 4.97 | 4.96 | 4.33 | 3.73 | 2.69 | 0.00 | 2.63 | 3.71 | | | |

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