

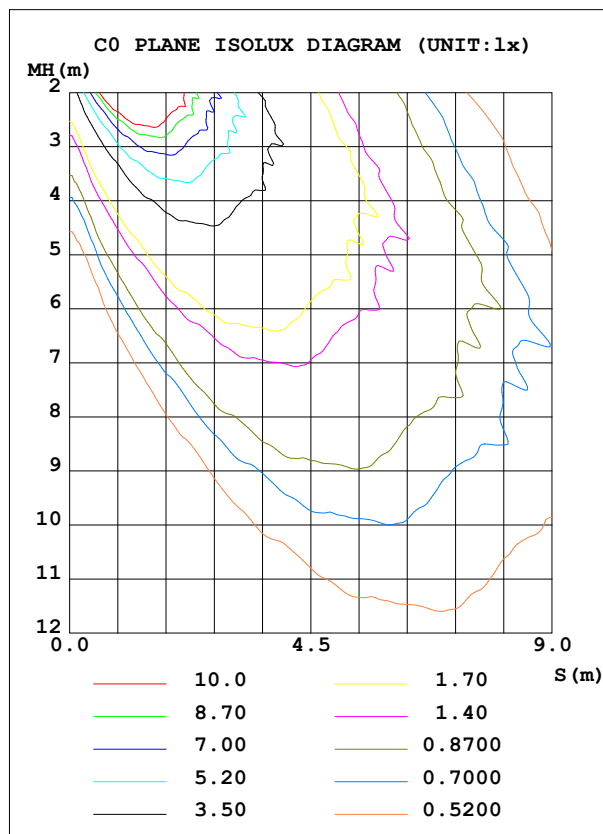
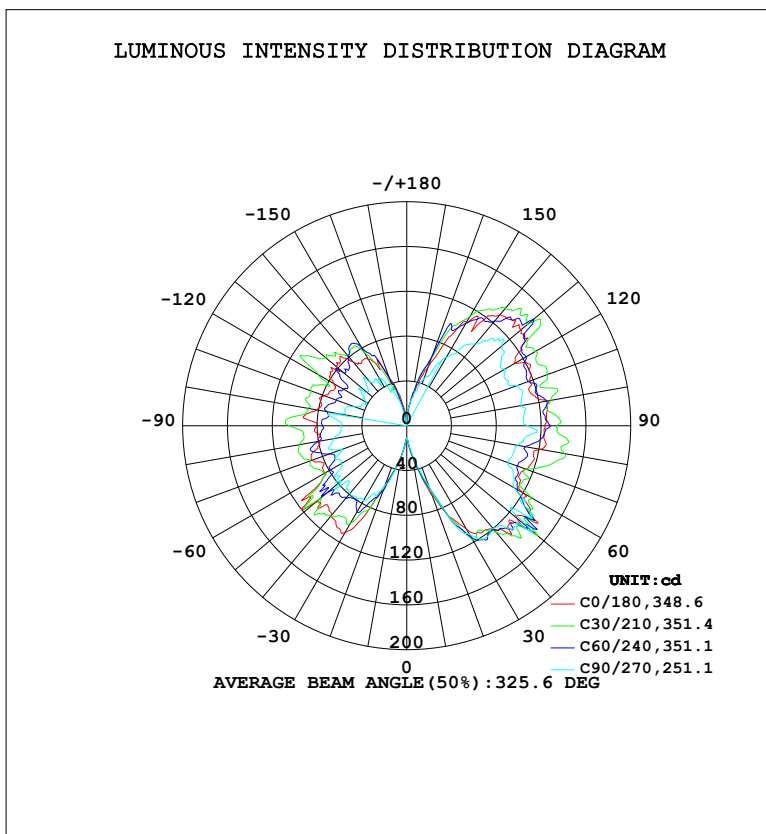
Dubai Collection
 HF7160-AGB



LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|-------|------------------|
| Test:U:120.34V I:0.3329A P:23.853W PF:0.5954 Freq:60.01Hz Lamp Flux:1157.17x1 lm | | |
| NAME: Dubai Collection | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Avenue Lighting | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | |
|-------------------|------------|------------------|---------|---------------------|------------|
| MODEL | HF7160-AGB | Imax (cd) | 160.1 | S/MH (C0/180) | 4.33 |
| NOMINAL POWER (W) | | LOR (%) | 100.0 | S/MH (C90/270) | 3.76 |
| RATED VOLTAGE (V) | 120 | TOTAL FLUX (lm) | 1157.2 | η UP, DN (C0-180) | 29.8, 30.1 |
| NOMINAL FLUX (lm) | 1157.17 | CIE CLASS | DIFFUSE | η UP, DN (C180-360) | 19.1, 21.0 |
| LAMPS INSIDE | 1 | η up (%) | 48.9 | CIBSE SHR NOM | 1.00 |
| TEST VOLTAGE (V) | 120.324 | η down (%) | 51.1 | CIBSE SHR MAX | 1.15 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5°C
 Operators: Dingmin Zhang
 Test Date: 2025-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.463
 Humidity: 65.0%
 Test Distance: 30.000m [K=0.9305]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

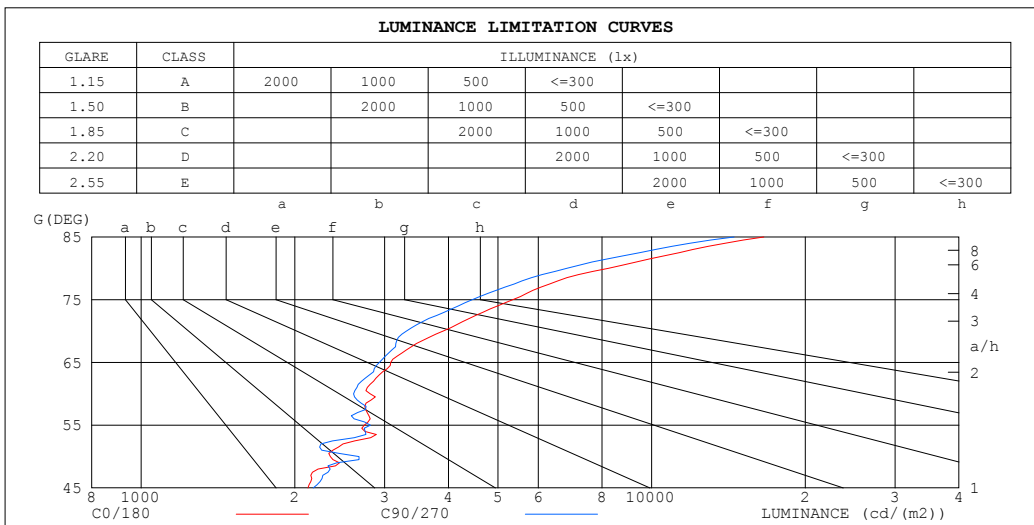
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|-----|-----------------------|-------|-------|-------|--------|-------|-------|-------|---------|---------|---------|------------|
| 10 | 27.10 | 26.75 | 24.32 | 24.96 | 26.33 | 27.04 | 27.01 | 28.07 | 0- 10 | 1.831 | 1.831 | 0.16,0.16 |
| 20 | 65.69 | 59.64 | 57.41 | 58.07 | 58.25 | 59.78 | 55.93 | 53.57 | 10- 20 | 12.17 | 14.00 | 1.21,1.21 |
| 30 | 106.5 | 108.4 | 112.0 | 122.3 | 110.2 | 91.80 | 77.25 | 70.50 | 20- 30 | 38.11 | 52.12 | 4.5,4.5 |
| 40 | 120.8 | 125.6 | 119.7 | 128.8 | 105.4 | 93.59 | 79.19 | 71.16 | 30- 40 | 64.80 | 116.9 | 10.1,10.1 |
| 50 | 128.3 | 141.9 | 146.0 | 145.2 | 107.1 | 91.24 | 76.59 | 68.18 | 40- 50 | 83.69 | 200.6 | 17.3,17.3 |
| 60 | 119.5 | 117.4 | 110.8 | 109.6 | 84.38 | 87.46 | 67.71 | 67.34 | 50- 60 | 94.19 | 294.8 | 25.5,25.5 |
| 70 | 113.5 | 111.5 | 96.19 | 92.44 | 89.96 | 84.37 | 62.31 | 67.21 | 60- 70 | 90.90 | 385.7 | 33.3,33.3 |
| 80 | 121.4 | 113.8 | 100.6 | 99.62 | 79.61 | 84.03 | 65.88 | 69.06 | 70- 80 | 99.82 | 485.5 | 42,42 |
| 90 | 123.2 | 120.1 | 108.4 | 102.9 | 80.68 | 76.63 | 58.68 | 82.06 | 80- 90 | 105.6 | 591.1 | 51.1,51.1 |
| 100 | 128.0 | 127.0 | 104.1 | 94.20 | 81.51 | 79.78 | 61.15 | 68.91 | 90-100 | 106.1 | 697.2 | 60.3,60.3 |
| 110 | 117.0 | 121.9 | 105.6 | 94.68 | 78.49 | 79.13 | 49.63 | 72.91 | 100-110 | 100.6 | 797.8 | 68.9,68.9 |
| 120 | 111.8 | 113.9 | 101.3 | 109.2 | 75.93 | 79.60 | 41.78 | 68.52 | 110-120 | 91.22 | 889.1 | 76.8,76.8 |
| 130 | 134.3 | 135.2 | 111.4 | 119.2 | 81.67 | 101.8 | 46.76 | 74.06 | 120-130 | 86.77 | 975.8 | 84.3,84.3 |
| 140 | 129.4 | 125.8 | 95.46 | 107.6 | 74.75 | 87.30 | 50.96 | 84.92 | 130-140 | 78.68 | 1055 | 91.1,91.1 |
| 150 | 106.8 | 112.1 | 70.15 | 86.20 | 68.22 | 78.95 | 49.38 | 81.62 | 140-150 | 58.36 | 1113 | 96.2,96.2 |
| 160 | 56.08 | 65.74 | 44.16 | 68.54 | 44.94 | 45.57 | 29.29 | 42.36 | 150-160 | 33.05 | 1146 | 99,99 |
| 170 | 24.38 | 26.54 | 23.54 | 27.16 | 17.58 | 12.76 | 5.144 | 9.282 | 160-170 | 10.17 | 1156 | 99.9,99.9 |
| 180 | 0.1822 | 3.368 | 5.567 | 3.251 | 0.1674 | 1.842 | 5.860 | 4.353 | 170-180 | 1.070 | 1157 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.5°C
 Operators:Dingmin Zhang
 Test Date:2025-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.463
 Humidity:65.0%
 Test Distance:30.000m [K=0.9305]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|-------|------------------|
| Test:U:120.34V I:0.3329A P:23.853W PF:0.5954 Freq:60.01Hz | | |
| Lamp Flux:1157.17x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 16589 | 14508 |
| 80 | 8223 | 6816 |
| 75 | 5346 | 4452 |
| 70 | 3903 | 3309 |
| 65 | 3083 | 2929 |
| 60 | 2812 | 2608 |
| 55 | 2737 | 2814 |
| 50 | 2349 | 2673 |
| 45 | 2123 | 2174 |

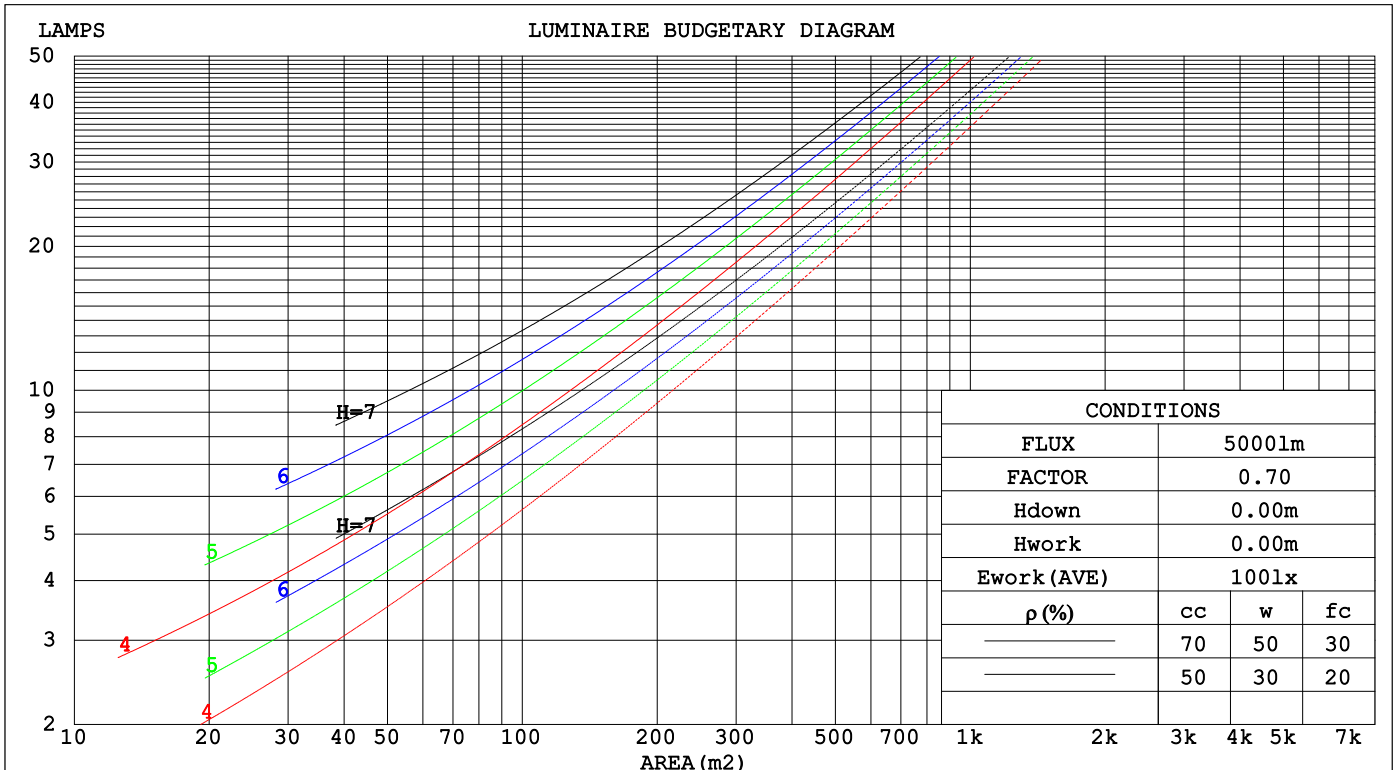
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5°C
 Operators: Dingmin Zhang
 Test Date: 2025-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.463
 Humidity: 65.0%
 Test Distance: 30.000m [K=0.9305]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:120.34V I:0.3329A P:23.853W PF:0.5954 Freq:60.01Hz | | |
| Lamp Flux:1157.17x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

| | | | | | | | | | | | | | | | | |
|------|-----------------------|------|------|-----|-----|-----|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 0.0 | 1.07 | 1.07 | 1.07 | .99 | .99 | .99 | .84 | .84 | .84 | .70 | .70 | .70 | .57 | .57 | .57 | .51 |
| 1.0 | .87 | .82 | .77 | .80 | .75 | .71 | .67 | .63 | .60 | .55 | .52 | .49 | .43 | .41 | .39 | .34 |
| 2.0 | .74 | .66 | .59 | .68 | .61 | .55 | .56 | .51 | .46 | .45 | .41 | .38 | .36 | .33 | .30 | .25 |
| 3.0 | .63 | .54 | .47 | .58 | .50 | .44 | .48 | .42 | .37 | .39 | .34 | .30 | .30 | .27 | .23 | .19 |
| 4.0 | .55 | .46 | .38 | .50 | .42 | .36 | .42 | .35 | .30 | .34 | .28 | .24 | .26 | .22 | .19 | .15 |
| 5.0 | .48 | .39 | .32 | .44 | .36 | .30 | .37 | .30 | .25 | .30 | .24 | .20 | .23 | .19 | .16 | .12 |
| 6.0 | .43 | .34 | .27 | .39 | .31 | .25 | .33 | .26 | .21 | .26 | .21 | .17 | .20 | .16 | .13 | .10 |
| 7.0 | .38 | .29 | .23 | .35 | .27 | .21 | .29 | .23 | .18 | .24 | .18 | .14 | .18 | .14 | .11 | .08 |
| 8.0 | .34 | .26 | .20 | .32 | .24 | .18 | .26 | .20 | .15 | .21 | .16 | .12 | .17 | .13 | .10 | .07 |
| 9.0 | .31 | .23 | .17 | .29 | .21 | .16 | .24 | .18 | .13 | .19 | .14 | .11 | .15 | .11 | .08 | .06 |
| 10.0 | .28 | .20 | .15 | .26 | .19 | .14 | .22 | .16 | .12 | .18 | .13 | .10 | .14 | .10 | .07 | .05 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.5°C
 Operators:Dingmin Zhang
 Test Date:2025-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.463
 Humidity:65.0%
 Test Distance:30.000m [K=0.9305]
 Remarks:

WEC AND CCEC

| | | | | | | | | |
|---|--|--|-------|--|--|------------------|--|--|
| Test:U:120.34V I:0.3329A P:23.853W PF:0.5954 Freq:60.01Hz | | | | | | | | |
| Lamp Flux:1157.17x1 lm | | | | | | | | |
| NAME: | | | TYPE: | | | WEIGHT: | | |
| SPEC.: | | | DIM.: | | | SERIAL No.: | | |
| MFR.: | | | SUR.: | | | Shielding Angle: | | |

| ρ _{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-----------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| ρ _w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ _{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .403 | .229 | .073 | .381 | .217 | .069 | .340 | .195 | .062 | .302 | .174 | .056 | .267 | .155 | .050 | |
| 2.0 | .339 | .186 | .057 | .318 | .175 | .054 | .281 | .156 | .048 | .246 | .138 | .043 | .214 | .121 | .038 | |
| 3.0 | .297 | .158 | .047 | .278 | .149 | .045 | .244 | .132 | .040 | .212 | .116 | .036 | .182 | .101 | .031 | |
| 4.0 | .265 | .138 | .040 | .248 | .130 | .038 | .216 | .115 | .034 | .187 | .100 | .030 | .159 | .087 | .026 | |
| 5.0 | .240 | .122 | .035 | .224 | .115 | .034 | .195 | .101 | .030 | .168 | .088 | .026 | .142 | .076 | .023 | |
| 6.0 | .219 | .110 | .031 | .205 | .103 | .030 | .178 | .091 | .026 | .152 | .079 | .023 | .129 | .068 | .020 | |
| 7.0 | .201 | .099 | .028 | .188 | .094 | .027 | .163 | .082 | .024 | .140 | .072 | .021 | .118 | .061 | .018 | |
| 8.0 | .186 | .091 | .026 | .174 | .086 | .024 | .151 | .075 | .022 | .129 | .065 | .019 | .109 | .056 | .016 | |
| 9.0 | .173 | .084 | .023 | .162 | .079 | .022 | .140 | .069 | .020 | .120 | .060 | .017 | .101 | .051 | .015 | |
| 10.0 | .162 | .078 | .022 | .151 | .073 | .020 | .131 | .064 | .018 | .112 | .056 | .016 | .094 | .047 | .014 | |

| ρ _{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-----------------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρ _w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ _{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .563 | .563 | .563 | .481 | .481 | .481 | .329 | .329 | .329 | .189 | .189 | .189 | .060 | .060 | .060 | |
| 1.0 | .563 | .531 | .503 | .481 | .456 | .433 | .329 | .314 | .299 | .190 | .181 | .174 | .061 | .058 | .056 | |
| 2.0 | .557 | .510 | .471 | .477 | .439 | .407 | .327 | .304 | .284 | .188 | .177 | .166 | .060 | .057 | .054 | |
| 3.0 | .550 | .495 | .451 | .471 | .427 | .391 | .324 | .297 | .274 | .187 | .173 | .162 | .060 | .056 | .053 | |
| 4.0 | .543 | .483 | .438 | .466 | .418 | .380 | .320 | .291 | .268 | .185 | .170 | .159 | .060 | .056 | .052 | |
| 5.0 | .535 | .474 | .429 | .460 | .410 | .373 | .317 | .287 | .264 | .184 | .168 | .156 | .059 | .055 | .052 | |
| 6.0 | .528 | .467 | .423 | .454 | .404 | .368 | .313 | .283 | .261 | .182 | .167 | .155 | .059 | .054 | .051 | |
| 7.0 | .522 | .461 | .418 | .449 | .400 | .365 | .310 | .280 | .258 | .180 | .165 | .154 | .058 | .054 | .051 | |
| 8.0 | .515 | .456 | .415 | .444 | .395 | .362 | .307 | .278 | .257 | .179 | .164 | .153 | .058 | .054 | .051 | |
| 9.0 | .509 | .451 | .412 | .439 | .392 | .360 | .304 | .275 | .255 | .177 | .163 | .152 | .057 | .053 | .050 | |
| 10.0 | .504 | .447 | .410 | .434 | .389 | .358 | .301 | .273 | .254 | .176 | .162 | .152 | .057 | .053 | .050 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.5°C
 Operators:Dingmin Zhang
 Test Date:2025-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.463
 Humidity:65.0%
 Test Distance:30.000m [K=0.9305]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|------------------|------|-------|------|------|------------------|------|------|------|------|
| Test:U:120.34V I:0.3329A P:23.853W PF:0.5954 Freq:60.01Hz | | | | | | | | | | |
| Lamp Flux:1157.17x1 lm | | | | | | | | | | |
| NAME: | | | TYPE: | | | WEIGHT: | | | | |
| SPEC.: | | | DIM.: | | | SERIAL No.: | | | | |
| MFR.: | | | SUR.: | | | Shielding Angle: | | | | |
| ceiling/cavity | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | Viewed crosswise | | | | | Viewed endwise | | | | |
| x = 2H y = 2H | 13.5 | 14.6 | 14.3 | 15.5 | 16.6 | 13.7 | 14.8 | 14.6 | 15.7 | 16.8 |
| 3H | 16.1 | 17.1 | 17.0 | 18.0 | 19.1 | 16.2 | 17.2 | 17.1 | 18.1 | 19.3 |
| 4H | 17.8 | 18.7 | 18.7 | 19.7 | 20.9 | 17.7 | 18.7 | 18.6 | 19.6 | 20.8 |
| 6H | 19.9 | 20.8 | 20.8 | 21.7 | 22.9 | 19.6 | 20.5 | 20.5 | 21.4 | 22.6 |
| 8H | 21.3 | 22.1 | 22.2 | 23.0 | 24.3 | 20.7 | 21.6 | 21.7 | 22.5 | 23.7 |
| 12H | 22.7 | 23.5 | 23.6 | 24.5 | 25.7 | 22.1 | 22.9 | 23.0 | 23.9 | 25.1 |
| 4H 2H | 14.4 | 15.3 | 15.3 | 16.2 | 17.4 | 14.5 | 15.5 | 15.4 | 16.4 | 17.6 |
| 3H | 17.3 | 18.2 | 18.3 | 19.1 | 20.3 | 17.3 | 18.1 | 18.2 | 19.0 | 20.3 |
| 4H | 19.2 | 20.0 | 20.2 | 21.0 | 22.2 | 19.0 | 19.7 | 19.9 | 20.7 | 21.9 |
| 6H | 21.4 | 22.0 | 22.3 | 23.0 | 24.3 | 21.0 | 21.7 | 22.0 | 22.7 | 23.9 |
| 8H | 22.7 | 23.3 | 23.6 | 24.3 | 25.6 | 22.3 | 22.9 | 23.2 | 23.9 | 25.2 |
| 12H | 24.2 | 24.8 | 25.2 | 25.8 | 27.1 | 23.8 | 24.4 | 24.8 | 25.3 | 26.6 |
| 8H 4H | 20.1 | 20.7 | 21.1 | 21.7 | 23.0 | 19.8 | 20.5 | 20.8 | 21.5 | 22.7 |
| 6H | 22.7 | 23.2 | 23.7 | 24.2 | 25.5 | 22.2 | 22.7 | 23.1 | 23.7 | 25.0 |
| 8H | 24.1 | 24.6 | 25.1 | 25.6 | 26.9 | 23.6 | 24.1 | 24.6 | 25.1 | 26.4 |
| 12H | 25.7 | 26.1 | 26.7 | 27.2 | 28.5 | 25.3 | 25.7 | 26.3 | 26.8 | 28.1 |
| 12H 4H | 20.3 | 20.9 | 21.3 | 21.9 | 23.1 | 20.2 | 20.7 | 21.1 | 21.7 | 23.0 |
| 6H | 23.0 | 23.5 | 24.0 | 24.5 | 25.8 | 22.6 | 23.1 | 23.6 | 24.1 | 25.4 |
| 8H | 24.6 | 25.1 | 25.7 | 26.1 | 27.4 | 24.1 | 24.5 | 25.1 | 25.6 | 26.9 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.1 | | | | | + 0.1 / - 0.1 | | | | |
| 1.5H | + 0.2 / - 0.2 | | | | | + 0.3 / - 0.3 | | | | |
| 2.0H | + 0.2 / - 0.3 | | | | | + 0.3 / - 0.4 | | | | |

CIE Pub.117, 1157 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.5)
 Area: 0.085 m2

| | |
|-------------------------|---|
| C Range: 0 - 360DEG | γ Range: 0 - 180DEG |
| C Interval: 15.0DEG | γ Interval: 0.5DEG |
| Test Speed: HIGH | Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.463 |
| Temperature:24.5°C | Humidity:65.0% |
| Operators:Dingmin Zhang | Test Distance:30.000m [K=0.9305] |
| Test Date:2025-11-15 | Remarks: |

UTILIZATION FACTORS TABLE

| | | |
|---|-------|------------------|
| Test:U:120.34V I:0.3329A P:23.853W PF:0.5954 Freq:60.01Hz Lamp Flux:1157.17x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

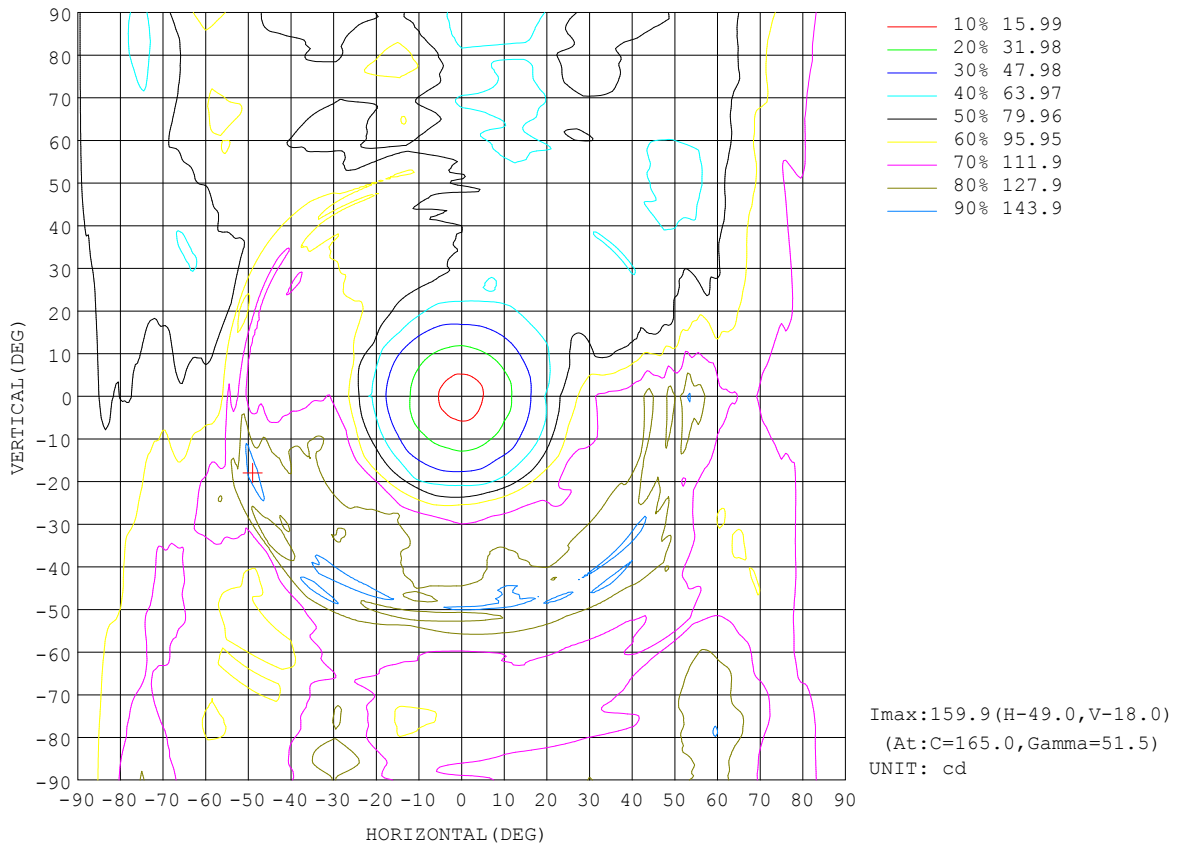
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5 | | | | | | | | | |
| k = 0.60 | 36 | 23 | 16 | 34 | 22 | 15 | 30 | 20 | 14 | 7 |
| 0.80 | 45 | 31 | 23 | 42 | 29 | 22 | 37 | 26 | 20 | 10 |
| 1.00 | 52 | 38 | 29 | 49 | 36 | 28 | 43 | 34 | 25 | 13 |
| 1.25 | 59 | 45 | 36 | 55 | 43 | 34 | 48 | 37 | 30 | 17 |
| 1.50 | 65 | 51 | 41 | 60 | 48 | 39 | 51 | 42 | 35 | 19 |
| 2.00 | 72 | 60 | 50 | 67 | 56 | 47 | 57 | 48 | 41 | 23 |
| 2.50 | 77 | 66 | 56 | 71 | 61 | 53 | 61 | 53 | 46 | 26 |
| 3.00 | 81 | 70 | 62 | 75 | 66 | 58 | 64 | 56 | 50 | 29 |
| 4.00 | 86 | 77 | 69 | 80 | 72 | 65 | 68 | 61 | 56 | 32 |
| 5.00 | 90 | 82 | 75 | 83 | 76 | 69 | 70 | 64 | 60 | 34 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNOM = 1.25 | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.5°C
 Operators:Dingmin Zhang
 Test Date:2025-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.463
 Humidity:65.0%
 Test Distance:30.000m [K=0.9305]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:120.34V I:0.3329A P:23.853W PF:0.5954 Freq:60.01Hz Lamp Flux:1157.17x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

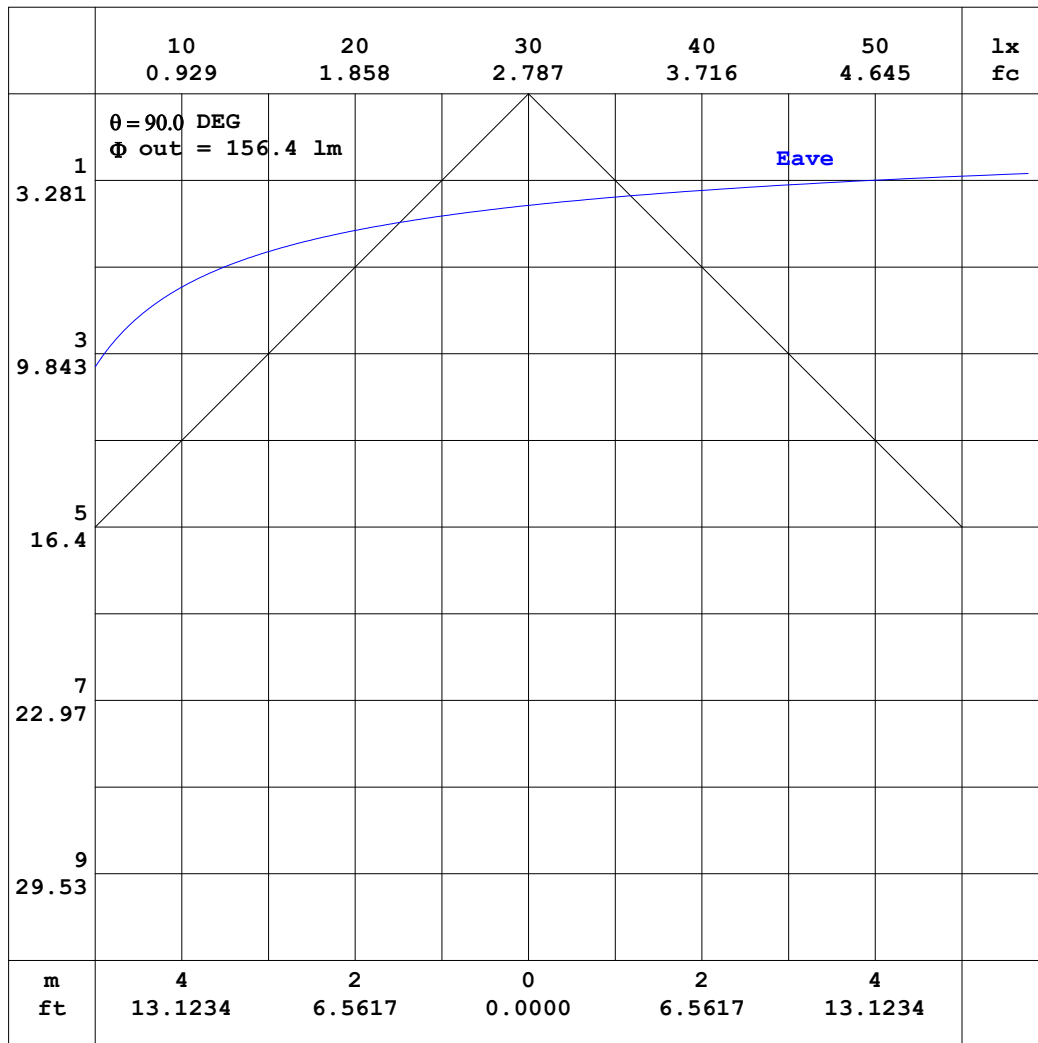


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.5°C
 Operators:Dingmin Zhang
 Test Date:2025-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.463
 Humidity:65.0%
 Test Distance:30.000m [K=0.9305]
 Remarks:

AAI CURVES

| | | |
|---|-------|------------------|
| Test:U:120.34V I:0.3329A P:23.853W PF:0.5954 Freq:60.01Hz | | |
| Lamp Flux:1157.17x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



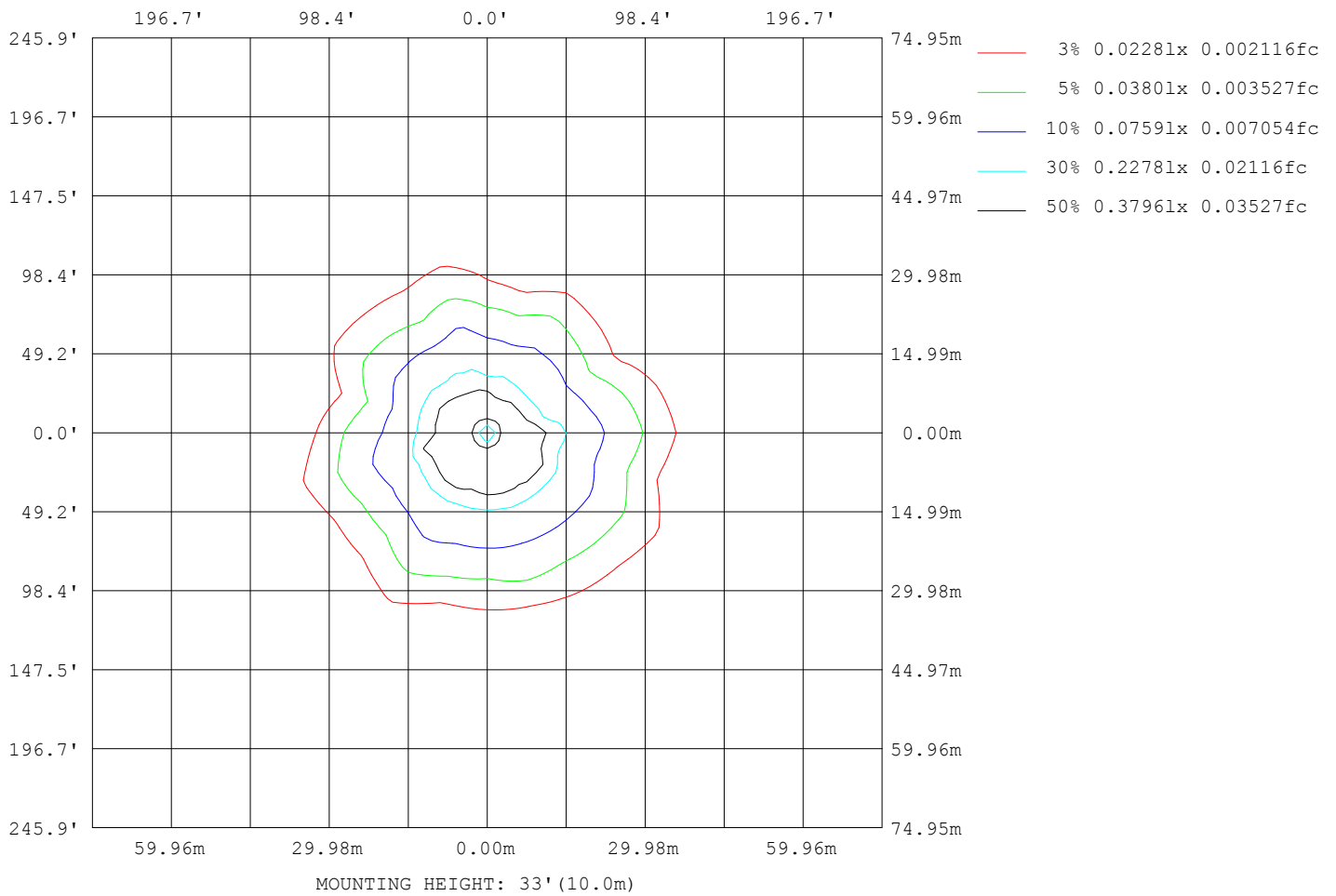
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5°C
 Operators: Dingmin Zhang
 Test Date: 2025-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.463
 Humidity: 65.0%
 Test Distance: 30.000m [K=0.9305]
 Remarks:

ISOLUX DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:120.34V I:0.3329A P:23.853W PF:0.5954 Freq:60.01Hz Lamp Flux:1157.17x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.5°C
 Operators:Dingmin Zhang
 Test Date:2025-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.463
 Humidity:65.0%
 Test Distance:30.000m [K=0.9305]
 Remarks:

LED Avg.L Report

| | | |
|---|-------|------------------|
| Test:U:120.34V I:0.3329A P:23.853W PF:0.5954 Freq:60.01Hz Lamp Flux:1157.17x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

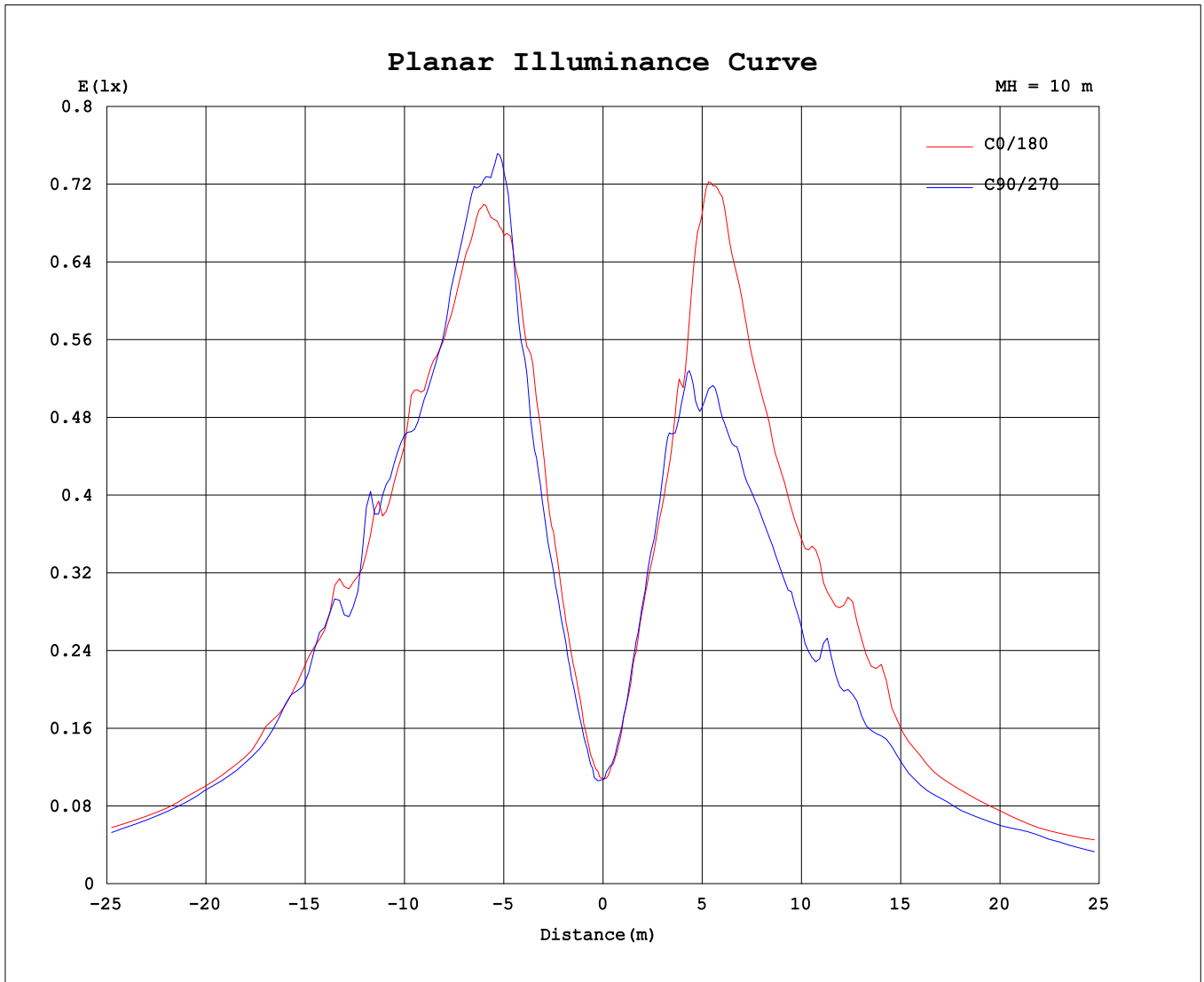
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 2677 |
| L_0~180 (75) av | 4587 |
| L_0~180 (85) av | 13685 |
| L_90~270 (65) av | 2449 |
| L_90~270 (75) av | 3853 |
| L_90~270 (85) av | 11231 |
| L_45 (65) av | 2506 |
| L_45 (75) av | 4162 |
| L_45 (85) av | 12530 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.5°C
Operators:Dingmin Zhang
Test Date:2025-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:30.000m [K=0.9305]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.5°C
Operators: Dingmin Zhang
Test Date: 2025-11-15

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.463
Humidity: 65.0%
Test Distance: 30.000m [K=0.9305]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-------|------------------|
| Test:U:120.34V I:0.3329A P:23.853W PF:0.5954 Freq:60.01Hz Lamp Flux:1157.17x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) \ γ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 10.9 | 10.8 | 10.8 | 10.8 | 11.0 | 10.8 | 10.7 | 10.6 | 10.7 | 10.8 | 10.5 | 10.6 | 10.9 | 10.8 | 10.8 | 10.8 | 11.0 | 10.8 | 10.7 |
| 5 | 15.9 | 16.1 | 15.9 | 15.3 | 14.8 | 14.7 | 14.6 | 15.2 | 15.2 | 15.5 | 15.1 | 15.2 | 15.2 | 15.3 | 15.6 | 15.7 | 15.7 | 15.4 | 15.7 |
| 10 | 27.1 | 27.2 | 27.1 | 26.8 | 25.7 | 24.5 | 24.3 | 25.2 | 25.1 | 25.0 | 25.3 | 25.9 | 26.3 | 26.6 | 27.2 | 27.0 | 27.4 | 27.0 | 27.0 |
| 15 | 42.1 | 42.3 | 41.8 | 41.3 | 40.3 | 38.3 | 37.9 | 38.4 | 37.3 | 39.4 | 38.9 | 39.5 | 39.4 | 39.7 | 39.5 | 40.8 | 41.0 | 39.5 | 41.0 |
| 20 | 65.7 | 62.4 | 61.9 | 59.6 | 59.8 | 57.8 | 57.4 | 57.6 | 58.8 | 58.1 | 59.4 | 60.7 | 58.2 | 57.0 | 58.0 | 59.8 | 62.0 | 57.4 | 55.9 |
| 25 | 89.6 | 90.7 | 89.4 | 89.2 | 91.6 | 94.2 | 92.0 | 86.7 | 88.2 | 88.1 | 89.0 | 89.8 | 87.9 | 80.2 | 83.4 | 78.8 | 73.7 | 71.9 | 66.8 |
| 30 | 106 | 107 | 117 | 108 | 115 | 114 | 112 | 120 | 119 | 122 | 115 | 118 | 110 | 105 | 100 | 91.8 | 88.7 | 83.8 | 77.2 |
| 35 | 117 | 116 | 114 | 116 | 124 | 124 | 122 | 121 | 136 | 128 | 121 | 130 | 110 | 104 | 99.3 | 93.0 | 80.5 | 87.0 | 78.4 |
| 40 | 121 | 123 | 124 | 126 | 120 | 133 | 120 | 121 | 136 | 129 | 133 | 129 | 105 | 103 | 106 | 93.6 | 84.4 | 82.8 | 79.2 |
| 45 | 128 | 126 | 141 | 137 | 130 | 141 | 131 | 127 | 141 | 133 | 130 | 128 | 100 | 105 | 111 | 94.2 | 85.2 | 79.4 | 74.7 |
| 50 | 128 | 119 | 152 | 142 | 140 | 148 | 146 | 140 | 149 | 145 | 127 | 141 | 107 | 113 | 101 | 91.2 | 94.7 | 91.3 | 76.6 |
| 55 | 133 | 111 | 132 | 135 | 131 | 143 | 137 | 124 | 144 | 143 | 130 | 137 | 111 | 98.7 | 98.7 | 97.4 | 89.7 | 92.4 | 78.9 |
| 60 | 119 | 104 | 127 | 117 | 114 | 114 | 111 | 114 | 122 | 110 | 94.4 | 129 | 84.4 | 69.2 | 84.4 | 87.5 | 78.9 | 80.4 | 67.7 |
| 65 | 111 | 94.2 | 115 | 112 | 108 | 108 | 105 | 106 | 123 | 98.1 | 92.4 | 117 | 81.6 | 70.5 | 90.9 | 82.0 | 70.8 | 97.1 | 70.7 |
| 70 | 113 | 94.9 | 113 | 111 | 105 | 111 | 96.2 | 101 | 118 | 92.4 | 93.2 | 112 | 90.0 | 62.4 | 91.9 | 84.4 | 73.7 | 85.5 | 62.3 |
| 75 | 118 | 95.5 | 133 | 114 | 110 | 99.4 | 97.9 | 94.5 | 129 | 94.6 | 95.7 | 122 | 84.2 | 66.0 | 98.5 | 90.1 | 88.0 | 95.6 | 71.6 |
| 80 | 121 | 98.9 | 143 | 114 | 108 | 105 | 101 | 95.7 | 128 | 99.6 | 95.9 | 118 | 79.6 | 73.5 | 97.0 | 84.0 | 79.8 | 104 | 65.9 |
| 85 | 123 | 106 | 144 | 113 | 122 | 117 | 107 | 104 | 141 | 99.9 | 95.5 | 116 | 79.9 | 64.0 | 92.4 | 82.8 | 77.3 | 91.1 | 58.9 |
| 90 | 123 | 98.5 | 134 | 120 | 128 | 116 | 108 | 111 | 129 | 103 | 97.1 | 129 | 80.7 | 60.4 | 105 | 76.6 | 75.4 | 82.4 | 58.7 |
| 95 | 125 | 91.7 | 130 | 122 | 123 | 128 | 105 | 102 | 131 | 104 | 101 | 129 | 92.9 | 67.1 | 99.3 | 73.1 | 73.5 | 83.8 | 62.7 |
| 100 | 128 | 96.0 | 131 | 127 | 127 | 118 | 104 | 103 | 132 | 94.2 | 101 | 131 | 81.5 | 58.1 | 90.1 | 79.8 | 72.2 | 91.3 | 61.2 |
| 105 | 114 | 98.4 | 131 | 122 | 119 | 123 | 107 | 100 | 132 | 89.2 | 97.9 | 135 | 79.2 | 67.3 | 93.5 | 82.5 | 72.6 | 82.5 | 57.2 |
| 110 | 117 | 103 | 133 | 122 | 116 | 111 | 106 | 103 | 131 | 94.7 | 107 | 132 | 78.5 | 65.5 | 90.7 | 79.1 | 67.1 | 87.5 | 49.6 |
| 115 | 121 | 105 | 130 | 121 | 118 | 113 | 97.7 | 111 | 124 | 104 | 103 | 106 | 74.6 | 68.4 | 86.7 | 83.2 | 65.2 | 93.2 | 44.7 |
| 120 | 112 | 104 | 133 | 114 | 123 | 127 | 101 | 113 | 134 | 109 | 108 | 112 | 75.9 | 65.9 | 91.3 | 79.6 | 65.5 | 69.9 | 41.8 |
| 125 | 127 | 107 | 131 | 123 | 127 | 120 | 103 | 112 | 135 | 111 | 115 | 124 | 83.7 | 76.1 | 110 | 82.9 | 68.4 | 85.3 | 47.9 |
| 130 | 134 | 123 | 141 | 135 | 148 | 143 | 111 | 126 | 139 | 119 | 122 | 128 | 81.7 | 79.0 | 94.3 | 102 | 73.7 | 89.7 | 46.8 |
| 135 | 133 | 125 | 144 | 126 | 134 | 140 | 110 | 121 | 131 | 106 | 119 | 120 | 84.1 | 79.3 | 90.2 | 90.2 | 72.7 | 81.6 | 50.7 |
| 140 | 129 | 129 | 137 | 126 | 122 | 126 | 95.5 | 113 | 119 | 108 | 110 | 106 | 74.7 | 71.4 | 82.8 | 87.3 | 81.4 | 80.3 | 51.0 |
| 145 | 110 | 123 | 127 | 125 | 117 | 108 | 84.8 | 96.3 | 106 | 106 | 96.4 | 94.0 | 70.3 | 72.3 | 84.5 | 85.5 | 87.9 | 79.2 | 49.7 |
| 150 | 107 | 107 | 113 | 112 | 106 | 105 | 70.1 | 94.1 | 96.8 | 86.2 | 89.0 | 88.8 | 68.2 | 62.2 | 76.1 | 78.9 | 80.7 | 72.2 | 49.4 |
| 155 | 84.5 | 90.9 | 99.1 | 96.1 | 94.8 | 97.2 | 54.5 | 84.3 | 85.6 | 78.9 | 80.9 | 83.8 | 58.6 | 54.1 | 57.8 | 67.6 | 69.4 | 64.4 | 33.2 |
| 160 | 56.1 | 56.1 | 63.3 | 65.7 | 65.9 | 70.9 | 44.2 | 63.4 | 62.7 | 68.5 | 67.4 | 64.7 | 44.9 | 36.2 | 34.7 | 45.6 | 44.6 | 38.4 | 29.3 |
| 165 | 38.0 | 42.7 | 46.6 | 48.2 | 44.9 | 42.7 | 32.2 | 43.5 | 47.5 | 46.1 | 44.6 | 42.4 | 30.6 | 29.2 | 24.6 | 27.7 | 27.2 | 23.0 | 20.0 |
| 170 | 24.4 | 24.2 | 25.6 | 26.5 | 26.5 | 26.1 | 23.5 | 26.1 | 27.5 | 27.2 | 24.8 | 24.6 | 17.6 | 17.8 | 13.8 | 12.8 | 10.7 | 8.03 | 5.14 |
| 175 | 11.8 | 13.1 | 13.6 | 14.3 | 14.8 | 14.8 | 15.2 | 15.5 | 15.6 | 14.9 | 12.8 | 11.5 | 7.36 | 7.89 | 4.22 | 1.34 | 0.00 | 0.00 | 0.00 |
| 180 | 0.18 | 0.49 | 1.83 | 3.37 | 4.51 | 5.75 | 5.57 | 5.11 | 3.82 | 3.25 | 1.12 | 0.00 | 0.17 | 0.25 | 0.75 | 1.84 | 3.26 | 4.52 | 5.86 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.5°C
 Operators:Dingmin Zhang
 Test Date:2025-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.463
 Humidity:65.0%
 Test Distance:30.000m [K=0.9305]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-------|------------------|
| Test:U:120.34V I:0.3329A P:23.853W PF:0.5954 Freq:60.01Hz Lamp Flux:1157.17x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

Table--2

UNIT: cd

| C (DEG) \ γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 10.6 | 10.7 | 10.8 | 10.5 | 10.6 | | | | | | | | | | | | | | |
| 5 | 15.6 | 15.7 | 15.5 | 15.4 | 15.5 | | | | | | | | | | | | | | |
| 10 | 28.1 | 28.3 | 28.1 | 27.4 | 27.1 | | | | | | | | | | | | | | |
| 15 | 42.1 | 41.9 | 40.9 | 40.6 | 41.7 | | | | | | | | | | | | | | |
| 20 | 59.0 | 57.5 | 53.6 | 54.7 | 58.7 | | | | | | | | | | | | | | |
| 25 | 64.6 | 65.8 | 69.6 | 68.6 | 74.4 | | | | | | | | | | | | | | |
| 30 | 65.9 | 67.2 | 70.5 | 78.1 | 86.5 | | | | | | | | | | | | | | |
| 35 | 66.2 | 69.9 | 74.0 | 74.1 | 75.1 | | | | | | | | | | | | | | |
| 40 | 69.9 | 71.9 | 71.2 | 68.0 | 77.6 | | | | | | | | | | | | | | |
| 45 | 68.6 | 72.2 | 66.5 | 70.9 | 80.9 | | | | | | | | | | | | | | |
| 50 | 69.3 | 70.6 | 68.2 | 69.3 | 79.1 | | | | | | | | | | | | | | |
| 55 | 65.4 | 78.8 | 69.2 | 65.8 | 84.7 | | | | | | | | | | | | | | |
| 60 | 59.9 | 66.8 | 67.3 | 61.6 | 80.8 | | | | | | | | | | | | | | |
| 65 | 61.3 | 84.8 | 68.4 | 55.7 | 82.2 | | | | | | | | | | | | | | |
| 70 | 56.9 | 76.5 | 67.2 | 58.7 | 91.8 | | | | | | | | | | | | | | |
| 75 | 58.6 | 90.6 | 67.2 | 65.3 | 98.0 | | | | | | | | | | | | | | |
| 80 | 67.1 | 91.0 | 69.1 | 66.8 | 106 | | | | | | | | | | | | | | |
| 85 | 61.0 | 87.9 | 75.8 | 67.6 | 102 | | | | | | | | | | | | | | |
| 90 | 54.4 | 86.3 | 82.1 | 70.6 | 98.7 | | | | | | | | | | | | | | |
| 95 | 53.2 | 93.4 | 70.9 | 72.0 | 102 | | | | | | | | | | | | | | |
| 100 | 51.5 | 87.1 | 68.9 | 69.6 | 102 | | | | | | | | | | | | | | |
| 105 | 49.2 | 86.4 | 75.7 | 66.5 | 94.4 | | | | | | | | | | | | | | |
| 110 | 54.8 | 85.4 | 72.9 | 63.5 | 95.8 | | | | | | | | | | | | | | |
| 115 | 51.0 | 74.0 | 68.4 | 59.0 | 84.4 | | | | | | | | | | | | | | |
| 120 | 47.7 | 65.5 | 68.5 | 66.0 | 65.8 | | | | | | | | | | | | | | |
| 125 | 55.9 | 75.5 | 72.5 | 62.6 | 61.6 | | | | | | | | | | | | | | |
| 130 | 62.8 | 74.2 | 74.1 | 70.2 | 68.1 | | | | | | | | | | | | | | |
| 135 | 69.0 | 81.8 | 78.5 | 75.3 | 74.3 | | | | | | | | | | | | | | |
| 140 | 75.1 | 86.5 | 84.9 | 80.1 | 81.5 | | | | | | | | | | | | | | |
| 145 | 76.3 | 86.9 | 91.9 | 78.1 | 75.6 | | | | | | | | | | | | | | |
| 150 | 72.3 | 81.7 | 81.6 | 80.2 | 65.5 | | | | | | | | | | | | | | |
| 155 | 55.3 | 60.9 | 61.7 | 57.0 | 52.5 | | | | | | | | | | | | | | |
| 160 | 33.3 | 36.9 | 42.4 | 39.7 | 31.3 | | | | | | | | | | | | | | |
| 165 | 17.3 | 20.7 | 27.3 | 27.4 | 26.9 | | | | | | | | | | | | | | |
| 170 | 3.86 | 6.31 | 9.28 | 14.5 | 16.6 | | | | | | | | | | | | | | |
| 175 | 0.00 | 0.00 | 0.00 | 0.46 | 1.84 | | | | | | | | | | | | | | |
| 180 | 6.11 | 5.69 | 4.35 | 3.10 | 0.75 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.5°C
 Operators:Dingmin Zhang
 Test Date:2025-11-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.463
 Humidity:65.0%
 Test Distance:30.000m [K=0.9305]
 Remarks: