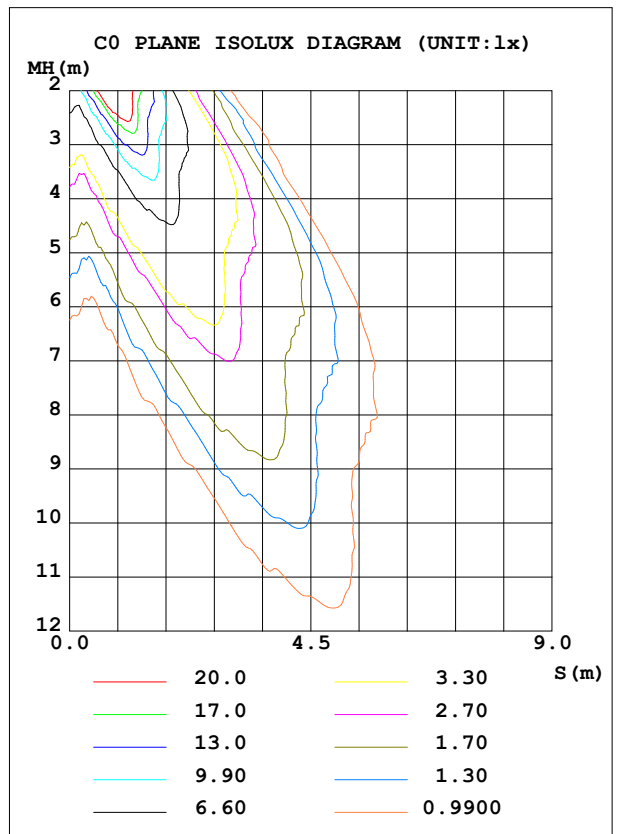
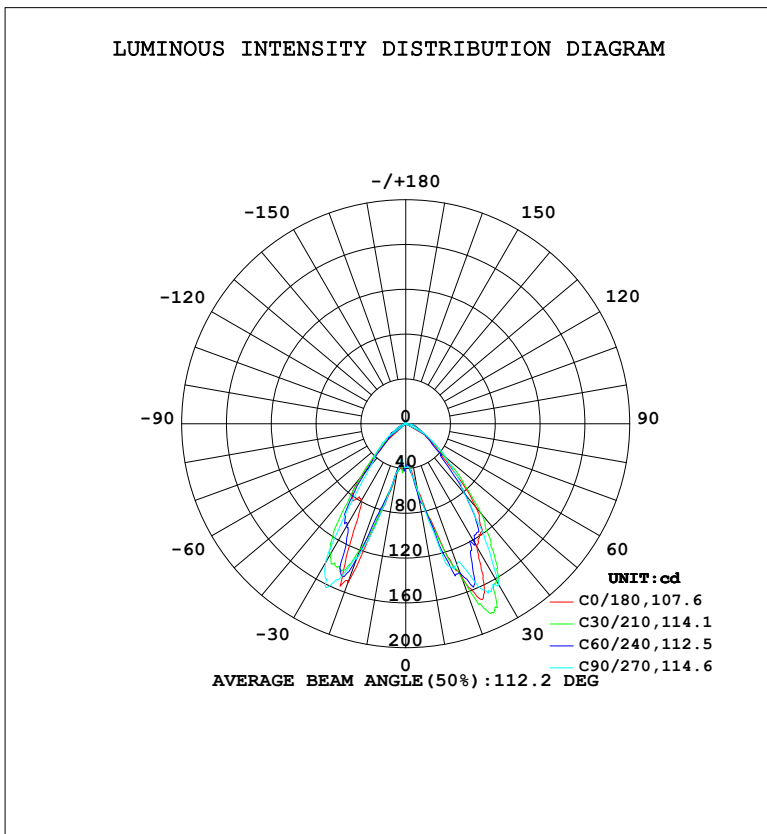


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|-------|------------------|
| Test:U:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz Lamp Flux:241.162x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | |
|-------------------|---------------|------------------|--------|--------------------------|-----------|
| MODEL | HF7950-AB-PUR | Imax (cd) | 186.4 | S/MH (C0/180) | 1.45 |
| NOMINAL POWER (W) | | LOR (%) | 100.0 | S/MH (C90/270) | 1.55 |
| RATED VOLTAGE (V) | 110 | TOTAL FLUX (lm) | 241.16 | η UP, DN (C0-180) | 0.8, 58.6 |
| NOMINAL FLUX (lm) | 241.162 | CIE CLASS | DIRECT | η UP, DN (C180-360) | 0.2, 40.4 |
| LAMPS INSIDE | 1 | η up (%) | 1.0 | CIBSE SHR NOM | 0.50 |
| TEST VOLTAGE (V) | 110.394 | η down (%) | 99.0 | CIBSE SHR MAX | 0.60 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5°C
 Operators: Dingmin Zhang
 Test Date: 2025-11-25

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:

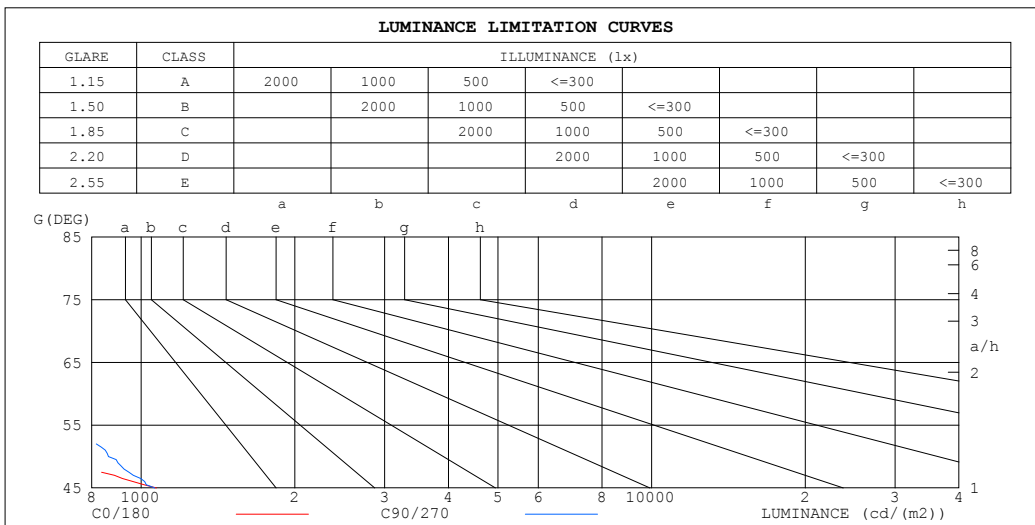
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10 | 61.29 | 65.44 | 60.10 | 55.39 | 40.07 | 43.44 | 43.45 | 49.57 | 0- 10 | 4.000 | 4.000 | 1.66,1.66 |
| 20 | 144.1 | 129.5 | 134.7 | 148.7 | 151.4 | 121.6 | 128.7 | 152.3 | 10- 20 | 27.47 | 31.47 | 13,13 |
| 30 | 127.2 | 147.3 | 165.8 | 153.2 | 79.36 | 111.8 | 143.2 | 101.9 | 20- 30 | 67.01 | 98.47 | 40.8,40.8 |
| 40 | 97.93 | 82.73 | 80.75 | 102.9 | 64.36 | 58.12 | 47.79 | 69.24 | 30- 40 | 62.52 | 161.0 | 66.8,66.8 |
| 50 | 39.28 | 45.58 | 46.26 | 41.24 | 15.29 | 25.92 | 28.12 | 21.40 | 40- 50 | 39.60 | 200.6 | 83.2,83.2 |
| 60 | 18.80 | 19.17 | 21.43 | 20.80 | 5.856 | 7.273 | 9.558 | 8.289 | 50- 60 | 19.71 | 220.3 | 91.4,91.4 |
| 70 | 11.59 | 10.05 | 10.63 | 10.71 | 4.116 | 3.680 | 4.269 | 4.570 | 60- 70 | 9.947 | 230.3 | 95.5,95.5 |
| 80 | 7.535 | 6.280 | 5.519 | 5.768 | 0.9175 | 1.674 | 1.841 | 1.941 | 70- 80 | 5.967 | 236.2 | 98,98 |
| 90 | 3.195 | 2.679 | 2.086 | 2.338 | 0 | 0 | 0 | 0 | 80- 90 | 2.559 | 238.8 | 99,99 |
| 100 | 1.735 | 1.221 | 0.7533 | 0.6027 | 0 | 0 | 0 | 0 | 90-100 | 0.8679 | 239.7 | 99.4,99.4 |
| 110 | 0.6227 | 0.5022 | 0.3651 | 0.4150 | 0 | 0 | 0 | 0 | 100-110 | 0.3810 | 240.0 | 99.5,99.5 |
| 120 | 0.2883 | 0.0837 | 0 | 0 | 0 | 0 | 0 | 0 | 110-120 | 0.1093 | 240.1 | 99.6,99.6 |
| 130 | 0 | 0.0837 | 0.0837 | 0 | 0 | 0 | 0 | 0 | 120-130 | 0.0145 | 240.2 | 99.6,99.6 |
| 140 | 0 | 0 | 0.0837 | 0 | 0 | 0 | 0 | 0 | 130-140 | 0.0108 | 240.2 | 99.6,99.6 |
| 150 | 0.5640 | 0.2511 | 0.2158 | 0.4201 | 0 | 0 | 0 | 0 | 140-150 | 0.0223 | 240.2 | 99.6,99.6 |
| 160 | 2.587 | 2.340 | 1.842 | 1.682 | 1.624 | 1.673 | 2.088 | 2.253 | 150-160 | 0.3880 | 240.6 | 99.8,99.8 |
| 170 | 0.4377 | 0.8369 | 0.7534 | 1.080 | 0.0818 | 0.1655 | 0.0992 | 0.1060 | 160-170 | 0.5788 | 241.2 | 100,100 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170-180 | 0.0070 | 241.2 | 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:2025-11-25

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:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz Lamp Flux:241.162x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 669 | 495 |
| 80 | 521 | 381 |
| 75 | 454 | 349 |
| 70 | 407 | 373 |
| 65 | 414 | 416 |
| 60 | 451 | 514 |
| 55 | 533 | 676 |
| 50 | 733 | 863 |
| 45 | 1071 | 1063 |

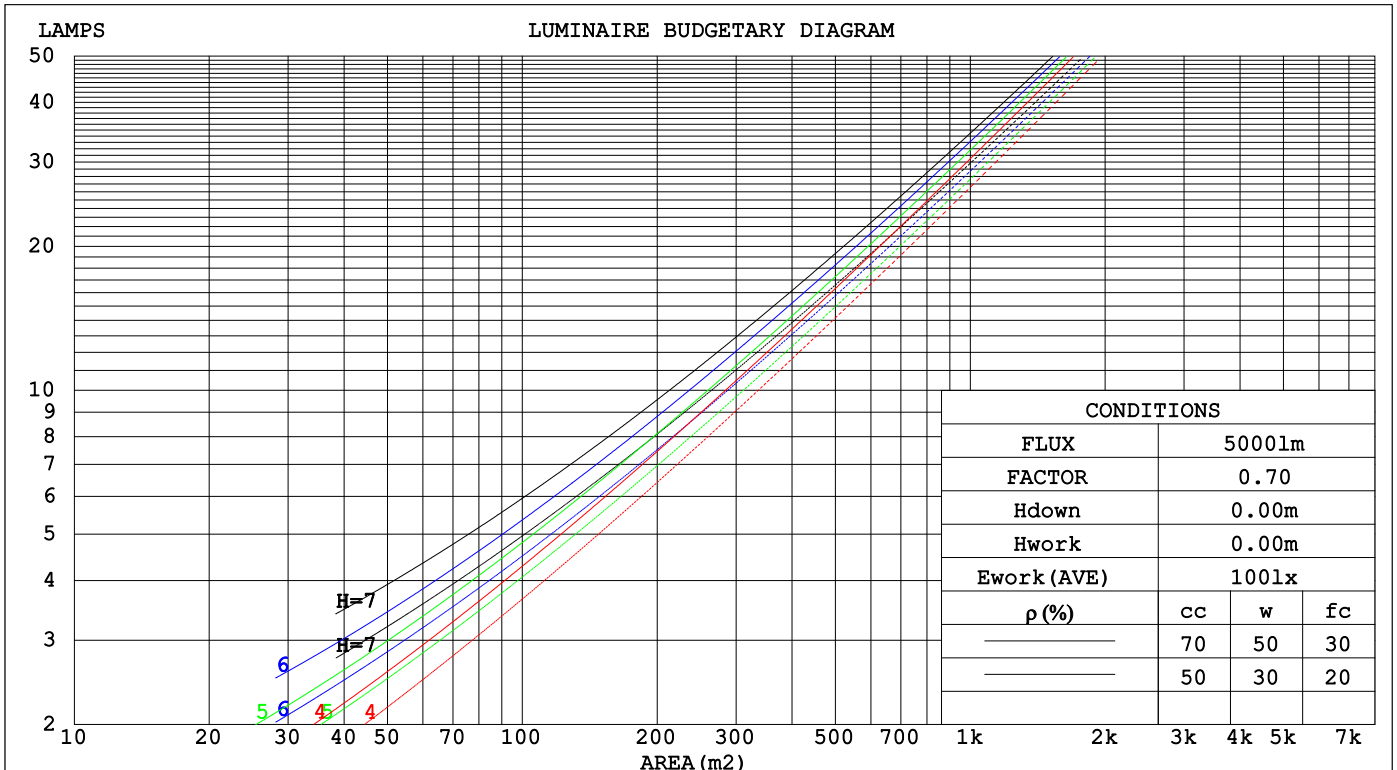
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5°C
 Operators: Dingmin Zhang
 Test Date: 2025-11-25

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:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz | | |
| Lamp Flux:241.162x1 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 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.01 | 1.01 | 1.01 | .99 |
| 1.0 | 1.07 | 1.04 | 1.00 | 1.05 | 1.02 | .99 | 1.00 | .98 | .95 | .96 | .94 | .92 | .93 | .91 | .90 | .87 |
| 2.0 | .96 | .91 | .86 | .94 | .89 | .85 | .91 | .86 | .83 | .87 | .84 | .81 | .84 | .81 | .79 | .77 |
| 3.0 | .87 | .80 | .74 | .85 | .79 | .74 | .82 | .77 | .72 | .79 | .75 | .71 | .77 | .73 | .70 | .68 |
| 4.0 | .78 | .71 | .65 | .77 | .70 | .65 | .74 | .68 | .64 | .72 | .67 | .63 | .70 | .66 | .62 | .60 |
| 5.0 | .71 | .63 | .58 | .70 | .63 | .57 | .68 | .61 | .57 | .66 | .60 | .56 | .64 | .59 | .55 | .53 |
| 6.0 | .65 | .57 | .51 | .64 | .56 | .51 | .62 | .55 | .50 | .60 | .54 | .50 | .59 | .54 | .50 | .48 |
| 7.0 | .59 | .51 | .46 | .58 | .51 | .46 | .57 | .50 | .45 | .55 | .49 | .45 | .54 | .49 | .45 | .43 |
| 8.0 | .54 | .46 | .41 | .53 | .46 | .41 | .52 | .46 | .41 | .51 | .45 | .40 | .50 | .44 | .40 | .38 |
| 9.0 | .50 | .42 | .37 | .49 | .42 | .37 | .48 | .42 | .37 | .47 | .41 | .37 | .46 | .40 | .36 | .35 |
| 10.0 | .46 | .39 | .34 | .45 | .38 | .34 | .44 | .38 | .34 | .43 | .38 | .33 | .43 | .37 | .33 | .32 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.5°C
 Operators:Dingmin Zhang
 Test Date:2025-11-25

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:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz | | | | | | | | |
| Lamp Flux:241.162x1 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 | .247 | .140 | .044 | .239 | .137 | .043 | .226 | .130 | .041 | .213 | .123 | .040 | .202 | .117 | .038 | |
| 2.0 | .235 | .129 | .040 | .229 | .126 | .039 | .217 | .121 | .038 | .207 | .116 | .036 | .197 | .111 | .035 | |
| 3.0 | .222 | .118 | .035 | .217 | .116 | .035 | .207 | .112 | .034 | .197 | .108 | .033 | .188 | .104 | .032 | |
| 4.0 | .209 | .109 | .032 | .205 | .107 | .032 | .196 | .104 | .031 | .187 | .101 | .030 | .179 | .097 | .030 | |
| 5.0 | .198 | .101 | .029 | .193 | .099 | .029 | .185 | .096 | .028 | .178 | .094 | .028 | .171 | .091 | .027 | |
| 6.0 | .186 | .093 | .027 | .183 | .092 | .027 | .175 | .090 | .026 | .169 | .088 | .026 | .162 | .086 | .025 | |
| 7.0 | .176 | .087 | .025 | .173 | .086 | .025 | .166 | .084 | .024 | .160 | .082 | .024 | .155 | .080 | .024 | |
| 8.0 | .167 | .082 | .023 | .164 | .081 | .023 | .158 | .079 | .023 | .153 | .077 | .022 | .148 | .076 | .022 | |
| 9.0 | .158 | .077 | .021 | .156 | .076 | .021 | .150 | .074 | .021 | .146 | .073 | .021 | .141 | .072 | .021 | |
| 10.0 | .151 | .072 | .020 | .148 | .072 | .020 | .143 | .070 | .020 | .139 | .069 | .020 | .135 | .068 | .019 | |

| 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 | .198 | .198 | .198 | .169 | .169 | .169 | .115 | .115 | .115 | .066 | .066 | .066 | .021 | .021 | .021 | |
| 1.0 | .184 | .164 | .147 | .157 | .141 | .126 | .107 | .097 | .087 | .062 | .056 | .051 | .020 | .018 | .016 | |
| 2.0 | .172 | .140 | .112 | .148 | .120 | .097 | .101 | .083 | .068 | .058 | .048 | .040 | .019 | .016 | .013 | |
| 3.0 | .163 | .122 | .089 | .140 | .105 | .077 | .096 | .073 | .054 | .055 | .043 | .032 | .018 | .014 | .010 | |
| 4.0 | .155 | .108 | .072 | .133 | .093 | .062 | .091 | .065 | .044 | .053 | .038 | .026 | .017 | .012 | .009 | |
| 5.0 | .147 | .097 | .060 | .127 | .084 | .052 | .087 | .059 | .037 | .051 | .034 | .022 | .016 | .011 | .007 | |
| 6.0 | .141 | .088 | .051 | .121 | .077 | .044 | .083 | .054 | .031 | .048 | .032 | .019 | .016 | .010 | .006 | |
| 7.0 | .135 | .081 | .044 | .116 | .071 | .038 | .080 | .049 | .027 | .047 | .029 | .016 | .015 | .010 | .005 | |
| 8.0 | .129 | .076 | .039 | .111 | .066 | .034 | .077 | .046 | .024 | .045 | .027 | .014 | .014 | .009 | .005 | |
| 9.0 | .124 | .071 | .035 | .107 | .061 | .030 | .074 | .043 | .022 | .043 | .025 | .013 | .014 | .008 | .004 | |
| 10.0 | .119 | .066 | .032 | .102 | .058 | .028 | .071 | .041 | .020 | .041 | .024 | .012 | .013 | .008 | .004 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.5°C
 Operators:Dingmin Zhang
 Test Date:2025-11-25

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:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz | | | | | | | | | | |
| Lamp Flux:241.162x1 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 | 11.3 | 12.6 | 11.5 | 12.8 | 13.0 | 11.1 | 12.4 | 11.4 | 12.6 | 12.8 |
| 3H | 11.8 | 12.9 | 12.1 | 13.2 | 13.4 | 11.6 | 12.8 | 11.9 | 13.0 | 13.2 |
| 4H | 12.1 | 13.2 | 12.4 | 13.5 | 13.7 | 11.8 | 13.0 | 12.2 | 13.2 | 13.5 |
| 6H | 12.5 | 13.6 | 12.9 | 13.8 | 14.1 | 12.1 | 13.2 | 12.5 | 13.4 | 13.7 |
| 8H | 12.7 | 13.7 | 13.1 | 14.0 | 14.3 | 12.3 | 13.3 | 12.6 | 13.5 | 13.8 |
| 12H | 13.0 | 13.9 | 13.3 | 14.2 | 14.6 | 12.4 | 13.4 | 12.8 | 13.7 | 14.0 |
| 4H 2H | 11.3 | 12.4 | 11.6 | 12.7 | 13.0 | 11.2 | 12.3 | 11.5 | 12.6 | 12.9 |
| 3H | 12.0 | 13.0 | 12.4 | 13.3 | 13.6 | 11.9 | 12.9 | 12.2 | 13.2 | 13.5 |
| 4H | 12.5 | 13.4 | 12.9 | 13.7 | 14.1 | 12.3 | 13.2 | 12.7 | 13.5 | 13.9 |
| 6H | 13.1 | 13.9 | 13.5 | 14.3 | 14.6 | 12.8 | 13.6 | 13.2 | 13.9 | 14.3 |
| 8H | 13.5 | 14.2 | 13.9 | 14.5 | 14.9 | 13.0 | 13.7 | 13.4 | 14.1 | 14.5 |
| 12H | 13.8 | 14.5 | 14.2 | 14.9 | 15.3 | 13.2 | 13.9 | 13.7 | 14.3 | 14.7 |
| 8H 4H | 12.7 | 13.4 | 13.1 | 13.8 | 14.2 | 12.5 | 13.2 | 12.9 | 13.6 | 14.0 |
| 6H | 13.5 | 14.1 | 13.9 | 14.5 | 14.9 | 13.1 | 13.7 | 13.6 | 14.1 | 14.6 |
| 8H | 13.9 | 14.4 | 14.4 | 14.9 | 15.3 | 13.4 | 14.0 | 13.9 | 14.4 | 14.9 |
| 12H | 14.4 | 14.9 | 14.9 | 15.3 | 15.8 | 13.8 | 14.3 | 14.3 | 14.7 | 15.2 |
| 12H 4H | 12.7 | 13.3 | 13.1 | 13.7 | 14.2 | 12.5 | 13.1 | 12.9 | 13.5 | 14.0 |
| 6H | 13.5 | 14.0 | 14.0 | 14.5 | 15.0 | 13.2 | 13.7 | 13.7 | 14.1 | 14.6 |
| 8H | 14.0 | 14.5 | 14.5 | 14.9 | 15.4 | 13.6 | 14.0 | 14.1 | 14.5 | 15.0 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | |
| S = 1.0H | + 0.7 / - 0.8 | | | | | + 0.8 / - 0.8 | | | | |
| 1.5H | + 0.7 / - 0.7 | | | | | + 1.1 / - 0.8 | | | | |
| 2.0H | + 1.4 / - 0.9 | | | | | + 2.0 / - 0.8 | | | | |

CIE Pub.117, 241.2 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -4.9)
 Area: 0.08335 m2

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.5°C
 Operators:Dingmin Zhang
 Test Date:2025-11-25

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:

UTILIZATION FACTORS TABLE

| | | |
|---|-------|------------------|
| Test:U:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz Lamp Flux:241.162x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

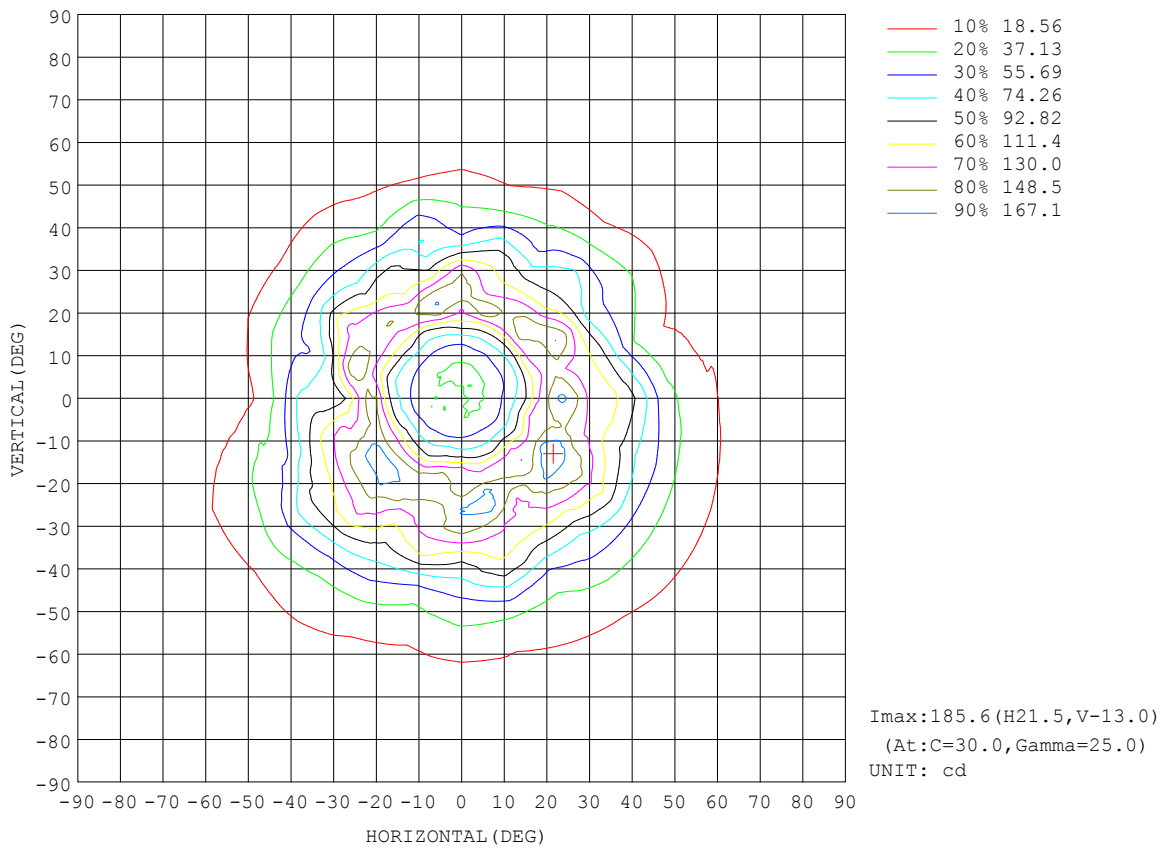
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 71 | 61 | 56 | 70 | 61 | 56 | 69 | 61 | 56 | 50 |
| 0.80 | 80 | 71 | 65 | 79 | 71 | 65 | 78 | 70 | 65 | 59 |
| 1.00 | 87 | 79 | 73 | 86 | 78 | 73 | 84 | 79 | 72 | 67 |
| 1.25 | 93 | 85 | 80 | 92 | 85 | 79 | 89 | 83 | 79 | 73 |
| 1.50 | 97 | 90 | 85 | 95 | 89 | 84 | 93 | 87 | 83 | 77 |
| 2.00 | 102 | 96 | 91 | 100 | 94 | 90 | 97 | 92 | 88 | 82 |
| 2.50 | 104 | 99 | 94 | 103 | 97 | 93 | 99 | 95 | 91 | 84 |
| 3.00 | 107 | 102 | 98 | 105 | 100 | 97 | 101 | 97 | 94 | 87 |
| 4.00 | 110 | 105 | 102 | 107 | 104 | 101 | 103 | 100 | 98 | 90 |
| 5.00 | 111 | 108 | 105 | 109 | 106 | 103 | 105 | 102 | 100 | 91 |
| 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:2025-11-25

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:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz Lamp Flux:241.162x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

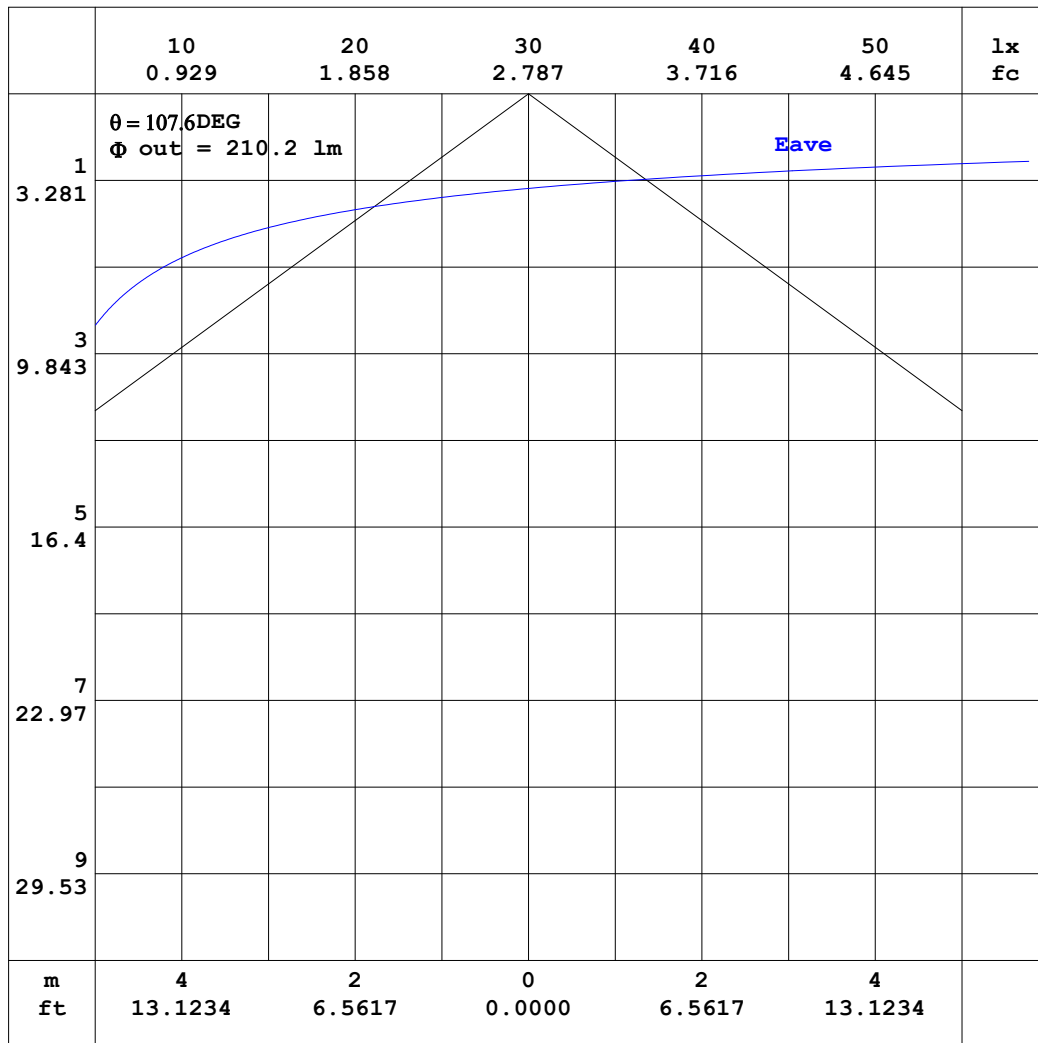


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.5°C
 Operators:Dingmin Zhang
 Test Date:2025-11-25

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:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz Lamp Flux:241.162x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



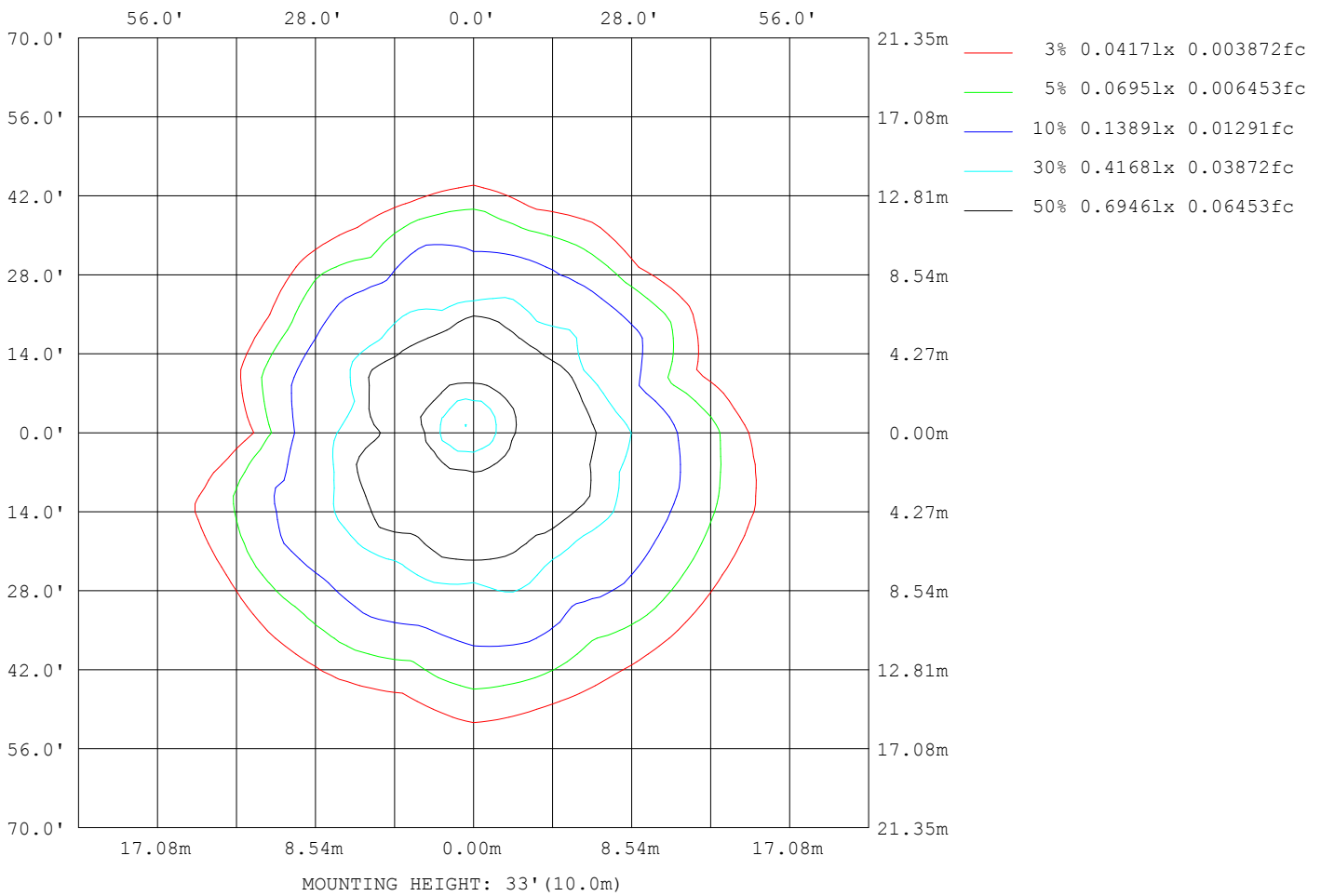
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5°C
 Operators: Dingmin Zhang
 Test Date: 2025-11-25

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:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz Lamp Flux:241.162x1 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:2025-11-25

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:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz Lamp Flux:241.162x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

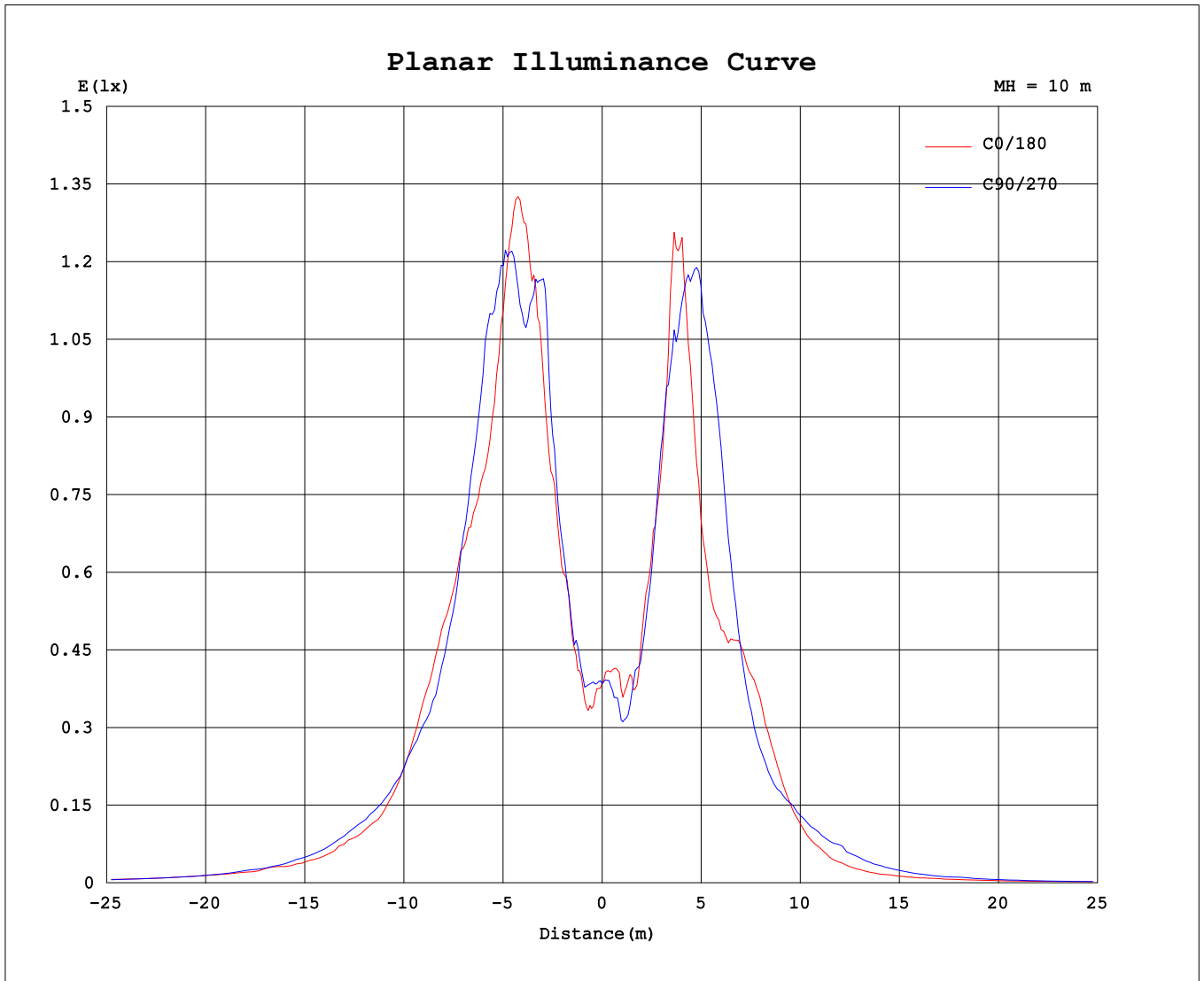
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 271 |
| L_0~180 (75) av | 276 |
| L_0~180 (85) av | 335 |
| L_90~270 (65) av | 293 |
| L_90~270 (75) av | 242 |
| L_90~270 (85) av | 309 |
| L_45 (65) av | 278 |
| L_45 (75) av | 257 |
| L_45 (85) av | 294 |

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:2025-11-25

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: 2025-11-25

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:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz | | |
| Lamp Flux:241.162x1 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 | 38.6 | 38.6 | 38.4 | 38.5 | 38.2 | 38.3 | 38.4 | 38.3 | 38.2 | 38.1 | 37.9 | 37.7 | 38.6 | 38.6 | 38.4 | 38.5 | 38.2 | 38.3 | 38.4 |
| 5 | 35.7 | 39.6 | 36.4 | 41.1 | 39.9 | 38.0 | 38.3 | 39.2 | 40.7 | 37.8 | 36.8 | 38.3 | 41.0 | 40.3 | 40.2 | 37.5 | 36.6 | 34.7 | 34.0 |
| 10 | 61.3 | 59.1 | 58.3 | 65.4 | 67.6 | 62.7 | 60.1 | 61.1 | 59.4 | 55.4 | 53.0 | 44.1 | 40.1 | 40.7 | 42.4 | 43.4 | 40.8 | 40.2 | 43.4 |
| 15 | 92.1 | 109 | 97.8 | 110 | 101 | 101 | 109 | 107 | 87.6 | 92.1 | 95.6 | 78.0 | 76.5 | 66.8 | 69.9 | 76.2 | 70.7 | 72.0 | 76.6 |
| 20 | 144 | 139 | 148 | 129 | 142 | 145 | 135 | 164 | 148 | 149 | 145 | 148 | 151 | 114 | 119 | 122 | 129 | 146 | 129 |
| 25 | 167 | 150 | 186 | 156 | 141 | 176 | 164 | 148 | 158 | 171 | 172 | 134 | 117 | 168 | 140 | 148 | 137 | 157 | 159 |
| 30 | 127 | 128 | 162 | 147 | 124 | 146 | 166 | 134 | 126 | 153 | 150 | 135 | 79.4 | 113 | 133 | 112 | 105 | 102 | 143 |
| 35 | 118 | 107 | 132 | 114 | 112 | 123 | 122 | 124 | 103 | 135 | 115 | 107 | 83.3 | 62.1 | 103 | 79.9 | 91.1 | 71.2 | 82.1 |
| 40 | 97.9 | 84.2 | 105 | 82.7 | 83.9 | 109 | 80.8 | 92.0 | 82.2 | 103 | 98.5 | 70.3 | 64.4 | 53.4 | 63.5 | 58.1 | 54.7 | 71.3 | 47.8 |
| 45 | 63.1 | 65.8 | 71.0 | 64.3 | 52.4 | 76.5 | 62.7 | 54.8 | 63.2 | 66.1 | 78.7 | 47.7 | 32.4 | 42.4 | 38.2 | 40.8 | 30.1 | 49.2 | 36.8 |
| 50 | 39.3 | 44.7 | 44.7 | 45.6 | 36.4 | 47.8 | 46.3 | 35.0 | 43.5 | 41.2 | 51.7 | 41.0 | 15.3 | 25.5 | 21.4 | 25.9 | 19.2 | 25.9 | 28.1 |
| 55 | 25.5 | 32.7 | 30.7 | 30.2 | 26.5 | 29.3 | 32.3 | 24.2 | 28.2 | 28.7 | 31.0 | 31.1 | 8.62 | 13.2 | 14.4 | 13.5 | 14.2 | 12.6 | 16.2 |
| 60 | 18.8 | 21.1 | 20.5 | 19.2 | 20.4 | 18.9 | 21.4 | 17.4 | 18.1 | 20.8 | 18.3 | 22.0 | 5.86 | 7.95 | 8.45 | 7.27 | 9.32 | 7.62 | 9.56 |
| 65 | 14.6 | 14.5 | 14.2 | 13.2 | 14.6 | 13.2 | 14.6 | 13.2 | 12.9 | 14.8 | 12.6 | 14.6 | 4.52 | 5.10 | 5.82 | 4.59 | 6.78 | 5.21 | 6.03 |
| 70 | 11.6 | 11.3 | 11.0 | 10.1 | 11.6 | 10.3 | 10.6 | 10.4 | 9.74 | 10.7 | 10.2 | 10.5 | 4.12 | 3.01 | 4.36 | 3.68 | 4.22 | 4.34 | 4.27 |
| 75 | 9.79 | 8.79 | 9.00 | 8.04 | 8.61 | 8.37 | 7.54 | 7.80 | 7.62 | 7.61 | 7.69 | 7.70 | 2.09 | 2.01 | 2.73 | 2.84 | 2.93 | 3.45 | 2.91 |
| 80 | 7.53 | 6.70 | 6.70 | 6.28 | 5.85 | 6.03 | 5.52 | 5.69 | 5.61 | 5.77 | 5.36 | 5.95 | 0.92 | 1.42 | 0.89 | 1.67 | 1.61 | 2.17 | 1.84 |
| 85 | 4.86 | 4.60 | 4.26 | 4.20 | 3.60 | 3.93 | 3.60 | 3.86 | 3.86 | 3.59 | 3.48 | 3.85 | 0.00 | 0.50 | 0.00 | 0.24 | 0.51 | 0.67 | 0.89 |
| 90 | 3.19 | 2.85 | 2.34 | 2.68 | 2.43 | 2.36 | 2.09 | 2.34 | 2.18 | 2.34 | 2.08 | 2.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95 | 2.26 | 1.93 | 1.43 | 1.84 | 1.57 | 1.26 | 1.09 | 1.42 | 1.16 | 1.25 | 1.06 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 1.74 | 1.33 | 1.14 | 1.22 | 1.08 | 0.93 | 0.75 | 1.08 | 0.77 | 0.60 | 0.84 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 1.11 | 0.83 | 0.64 | 0.83 | 0.67 | 0.72 | 0.45 | 0.69 | 0.50 | 0.45 | 0.68 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 110 | 0.62 | 0.51 | 0.44 | 0.50 | 0.42 | 0.55 | 0.37 | 0.29 | 0.33 | 0.42 | 0.42 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 115 | 0.50 | 0.08 | 0.25 | 0.16 | 0.22 | 0.31 | 0.08 | 0.08 | 0.24 | 0.11 | 0.25 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 0.29 | 0.00 | 0.14 | 0.08 | 0.08 | 0.08 | 0.00 | 0.08 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.16 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 145 | 0.08 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.08 | 0.08 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 0.56 | 0.50 | 0.33 | 0.25 | 0.42 | 0.35 | 0.22 | 0.25 | 0.48 | 0.42 | 0.17 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 155 | 1.43 | 1.40 | 1.34 | 1.34 | 1.27 | 1.17 | 1.07 | 0.84 | 1.08 | 1.18 | 1.26 | 0.99 | 0.26 | 0.25 | 0.42 | 0.42 | 0.52 | 0.67 | 0.54 |
| 160 | 2.59 | 2.21 | 2.07 | 2.34 | 1.92 | 1.96 | 1.84 | 1.81 | 1.59 | 1.68 | 1.81 | 1.51 | 1.62 | 1.68 | 1.84 | 1.67 | 2.09 | 1.83 | 2.09 |
| 165 | 1.93 | 2.43 | 2.59 | 2.86 | 2.55 | 2.44 | 1.94 | 2.31 | 1.88 | 2.10 | 2.36 | 2.16 | 1.75 | 1.89 | 2.35 | 1.78 | 2.82 | 2.26 | 2.37 |
| 170 | 0.44 | 0.16 | 0.00 | 0.84 | 1.08 | 0.92 | 0.75 | 1.09 | 0.93 | 1.08 | 1.17 | 0.75 | 0.08 | 0.00 | 0.08 | 0.17 | 0.19 | 0.16 | 0.10 |
| 175 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.5°C
 Operators:Dingmin Zhang
 Test Date:2025-11-25

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:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz Lamp Flux:241.162x1 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 | 38.3 | 38.2 | 38.1 | 37.9 | 37.7 | | | | | | | | | | | | | | |
| 5 | 33.4 | 32.3 | 34.3 | 33.7 | 37.5 | | | | | | | | | | | | | | |
| 10 | 43.5 | 45.0 | 49.6 | 50.8 | 54.5 | | | | | | | | | | | | | | |
| 15 | 77.7 | 81.6 | 82.5 | 86.7 | 88.3 | | | | | | | | | | | | | | |
| 20 | 150 | 141 | 152 | 133 | 132 | | | | | | | | | | | | | | |
| 25 | 130 | 137 | 144 | 165 | 132 | | | | | | | | | | | | | | |
| 30 | 113 | 101 | 102 | 130 | 114 | | | | | | | | | | | | | | |
| 35 | 98.0 | 72.1 | 89.4 | 67.1 | 92.3 | | | | | | | | | | | | | | |
| 40 | 64.9 | 50.3 | 69.2 | 53.6 | 51.5 | | | | | | | | | | | | | | |
| 45 | 35.8 | 36.8 | 39.8 | 47.5 | 26.1 | | | | | | | | | | | | | | |
| 50 | 20.1 | 23.3 | 21.4 | 30.0 | 18.1 | | | | | | | | | | | | | | |
| 55 | 11.2 | 14.7 | 12.6 | 16.8 | 13.2 | | | | | | | | | | | | | | |
| 60 | 7.36 | 8.20 | 8.29 | 8.29 | 8.80 | | | | | | | | | | | | | | |
| 65 | 5.28 | 5.27 | 6.53 | 5.18 | 6.53 | | | | | | | | | | | | | | |
| 70 | 4.94 | 3.94 | 4.57 | 3.91 | 5.19 | | | | | | | | | | | | | | |
| 75 | 4.02 | 2.76 | 3.72 | 3.46 | 3.05 | | | | | | | | | | | | | | |
| 80 | 2.51 | 1.76 | 1.94 | 2.22 | 1.59 | | | | | | | | | | | | | | |
| 85 | 0.48 | 0.91 | 0.52 | 0.59 | 0.50 | | | | | | | | | | | | | | |
| 90 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 110 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 115 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 125 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 130 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 140 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 145 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 155 | 0.69 | 0.65 | 0.58 | 0.66 | 0.75 | | | | | | | | | | | | | | |
| 160 | 1.93 | 2.01 | 2.25 | 2.01 | 2.18 | | | | | | | | | | | | | | |
| 165 | 2.01 | 2.76 | 2.68 | 2.46 | 2.59 | | | | | | | | | | | | | | |
| 170 | 0.01 | 0.16 | 0.11 | 0.01 | 0.00 | | | | | | | | | | | | | | |
| 175 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.5°C
 Operators:Dingmin Zhang
 Test Date:2025-11-25

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: