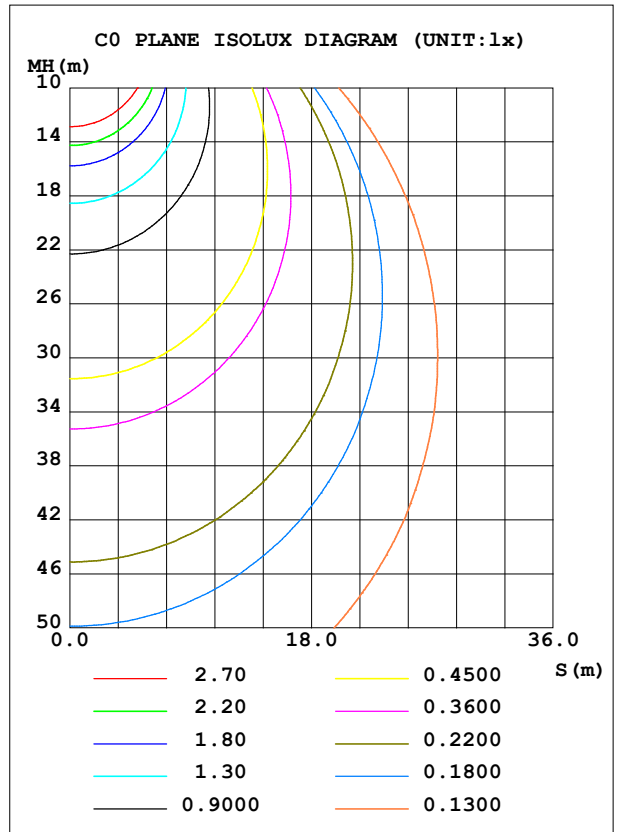
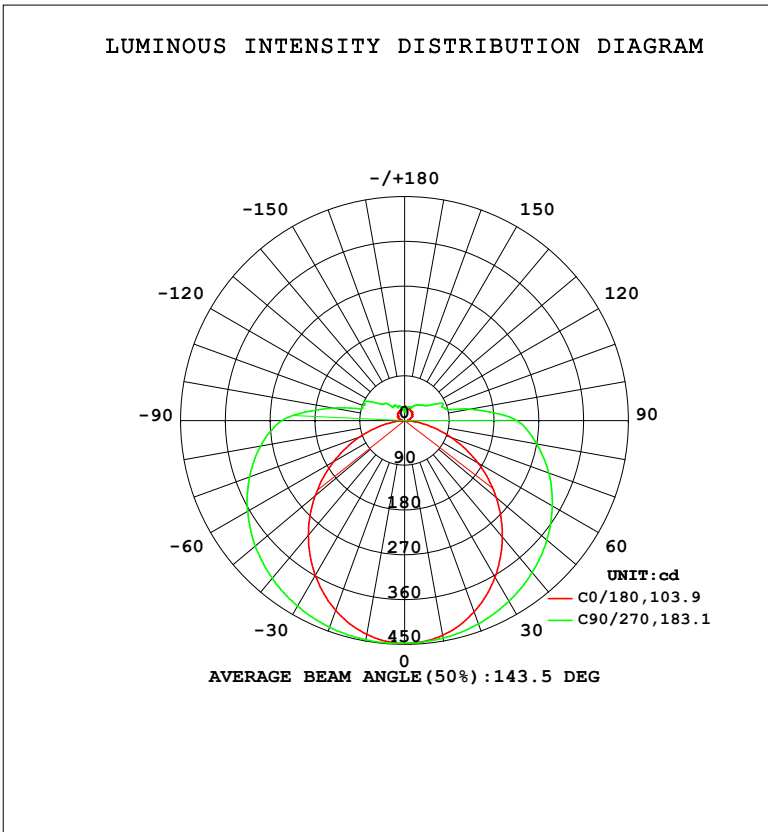


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|-------|------------------|
| Test:U:120.03V I:0.2179A P:23.973W PF:0.9166 Freq:59.98Hz Lamp Flux:1993.48x1 lm | | |
| NAME: WS24-085-BK 24W 40K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 1 |
| MFR.: EVERFINE | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 83.15 lm/W |
|-------------------|---------|-----------------------|---------|---------------------|-----------|-----------------|
| MODEL | 4000K | I _{max} (cd) | 448.4 | S/MH (C0/180) | 1.20 | |
| NOMINAL POWER (W) | 24 | LOR (%) | 100.0 | S/MH (C90/270) | 1.45 | |
| RATED VOLTAGE (V) | 120 | TOTAL FLUX (lm) | 1993.5 | η UP, DN (C0-180) | 7.7, 41.5 | |
| NOMINAL FLUX (lm) | 1993.48 | CIE CLASS | SEMI-D. | η UP, DN (C180-360) | 8.1, 42.7 | |
| LAMPS INSIDE | 1 | η up (%) | 15.8 | CIBSE SHR NOM | 1.50 | |
| TEST VOLTAGE (V) | 120 | η down (%) | 84.2 | CIBSE SHR MAX | 1.55 | |



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DAMIN
 Test Date: 08 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity: 65.0%
 Test Distance: 7.380m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C90 | C180 | C270 | | | | γ | Φ zone | Φ total | %lum,lamp |
|----------|-----------------------|-------|-------|-------|--|--|--|----------|-------------|--------------|-----------|
| 10 | 438.5 | 443.9 | 436.4 | 447.5 | | | | 0- 10 | 42.45 | 42.45 | 2.13,2.13 |
| 20 | 409.4 | 434.6 | 405.8 | 441.8 | | | | 10- 20 | 122.5 | 164.9 | 8.27,8.27 |
| 30 | 363.6 | 419.4 | 359.4 | 430.5 | | | | 20- 30 | 188.8 | 353.7 | 17.7,17.7 |
| 40 | 305.9 | 398.9 | 301.1 | 413.8 | | | | 30- 40 | 234.9 | 588.6 | 29.5,29.5 |
| 50 | 240.5 | 373.3 | 234.7 | 392.0 | | | | 40- 50 | 257.4 | 846.0 | 42.4,42.4 |
| 60 | 170.7 | 342.9 | 164.5 | 364.3 | | | | 50- 60 | 255.7 | 1102 | 55.3,55.3 |
| 70 | 99.97 | 308.4 | 95.38 | 331.5 | | | | 60- 70 | 232.8 | 1335 | 66.9,66.9 |
| 80 | 37.63 | 269.3 | 34.10 | 293.7 | | | | 70- 80 | 193.8 | 1528 | 76.7,76.7 |
| 90 | 6.112 | 226.1 | 5.883 | 247.4 | | | | 80- 90 | 150.7 | 1679 | 84.2,84.2 |
| 100 | 8.454 | 133.8 | 8.109 | 145.8 | | | | 90-100 | 107.7 | 1787 | 89.6,89.6 |
| 110 | 12.39 | 80.38 | 12.18 | 88.69 | | | | 100-110 | 58.49 | 1845 | 92.6,92.6 |
| 120 | 17.38 | 64.35 | 16.84 | 75.13 | | | | 110-120 | 48.10 | 1893 | 95,95 |
| 130 | 20.27 | 48.26 | 18.14 | 53.49 | | | | 120-130 | 33.67 | 1927 | 96.7,96.7 |
| 140 | 22.39 | 41.42 | 20.06 | 35.44 | | | | 130-140 | 25.49 | 1952 | 97.9,97.9 |
| 150 | 24.14 | 32.20 | 21.85 | 35.29 | | | | 140-150 | 18.58 | 1971 | 98.9,98.9 |
| 160 | 25.66 | 28.84 | 23.25 | 31.38 | | | | 150-160 | 12.57 | 1984 | 99.5,99.5 |
| 170 | 25.42 | 23.23 | 23.27 | 27.07 | | | | 160-170 | 7.508 | 1991 | 99.9,99.9 |
| 180 | 28.54 | 18.30 | 28.54 | 18.29 | | | | 170-180 | 2.351 | 1993 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 716.01 lm

%lum = 35.9%

%lamp = 35.9%

Conical surface Flux(120deg): 1101.8 lm

%lum = 55.3%

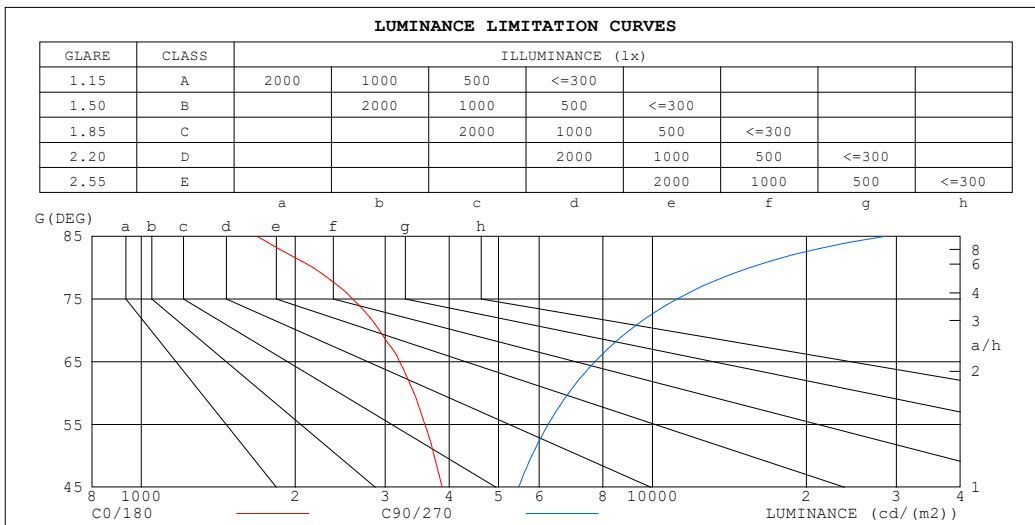
%lamp = 55.3%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:08 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:7.380m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|-------|------------------|
| Test:U:120.03V I:0.2179A P:23.973W PF:0.9166 Freq:59.98Hz Lamp Flux:1993.48x1 lm | | |
| NAME: WS24-085-BK 24W 40K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 1 |
| MFR.: EVERFINE | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 1683 | 28581 |
| 80 | 2167 | 15506 |
| 75 | 2591 | 11179 |
| 70 | 2923 | 9016 |
| 65 | 3200 | 7715 |
| 60 | 3414 | 6857 |
| 55 | 3586 | 6251 |
| 50 | 3742 | 5808 |
| 45 | 3876 | 5469 |

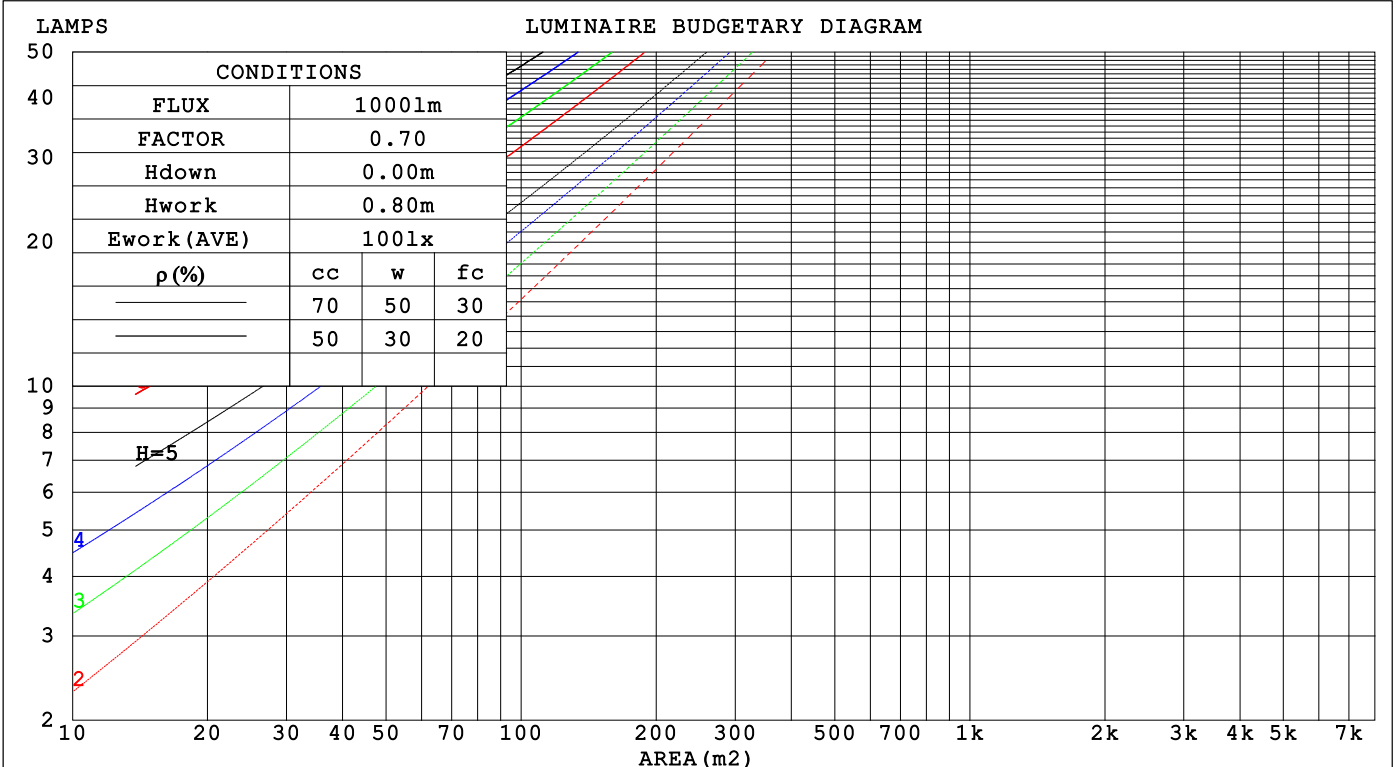
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DAMIN
 Test Date: 08 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity: 65.0%
 Test Distance: 7.380m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:120.03V I:0.2179A P:23.973W PF:0.9166 Freq:59.98Hz Lamp Flux:1993.48x1 lm | | |
| NAME: WS24-085-BK 24W 40K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 1 |
| MFR.: EVERFINE | 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 | 1.15 | 1.15 | 1.15 | 1.11 | 1.11 | 1.11 | 1.02 | 1.02 | 1.02 | .95 | .95 | .95 | .88 | .88 | .88 | .84 |
| 1.0 | .96 | .91 | .86 | .92 | .87 | .83 | .85 | .81 | .77 | .78 | .75 | .72 | .72 | .70 | .67 | .64 |
| 2.0 | .82 | .74 | .68 | .79 | .72 | .66 | .73 | .67 | .62 | .67 | .62 | .58 | .62 | .58 | .54 | .51 |
| 3.0 | .71 | .62 | .55 | .68 | .60 | .53 | .63 | .56 | .50 | .58 | .52 | .48 | .54 | .49 | .45 | .42 |
| 4.0 | .63 | .53 | .46 | .60 | .51 | .45 | .56 | .48 | .42 | .51 | .45 | .40 | .47 | .42 | .38 | .35 |
| 5.0 | .55 | .46 | .39 | .53 | .45 | .38 | .49 | .42 | .36 | .46 | .39 | .34 | .42 | .37 | .32 | .30 |
| 6.0 | .50 | .40 | .34 | .48 | .39 | .33 | .44 | .37 | .31 | .41 | .35 | .30 | .38 | .33 | .28 | .26 |
| 7.0 | .45 | .36 | .29 | .43 | .35 | .29 | .40 | .33 | .27 | .37 | .31 | .26 | .35 | .29 | .25 | .23 |
| 8.0 | .41 | .32 | .26 | .39 | .31 | .25 | .37 | .29 | .24 | .34 | .28 | .23 | .32 | .26 | .22 | .20 |
| 9.0 | .37 | .29 | .23 | .36 | .28 | .23 | .34 | .27 | .22 | .31 | .25 | .21 | .29 | .24 | .20 | .18 |
| 10.0 | .34 | .26 | .21 | .33 | .26 | .20 | .31 | .24 | .20 | .29 | .23 | .19 | .27 | .22 | .18 | .16 |



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3 °C
 Operators:DAMIN
 Test Date:08 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:7.380m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|---|-------|------------------|
| Test:U:120.03V I:0.2179A P:23.973W PF:0.9166 Freq:59.98Hz Lamp Flux:1993.48x1 lm | | |
| NAME: WS24-085-BK 24W 40K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 1 |
| MFR.: EVERFINE | 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 | .387 | .220 | .070 | .375 | .214 | .068 | .353 | .202 | .065 | .332 | .191 | .061 | .313 | .181 | .058 | |
| 2.0 | .335 | .184 | .056 | .324 | .179 | .055 | .304 | .169 | .053 | .285 | .160 | .050 | .268 | .152 | .048 | |
| 3.0 | .298 | .158 | .047 | .288 | .154 | .046 | .270 | .146 | .044 | .253 | .138 | .042 | .237 | .131 | .041 | |
| 4.0 | .268 | .139 | .041 | .259 | .136 | .040 | .242 | .129 | .038 | .227 | .122 | .037 | .213 | .116 | .035 | |
| 5.0 | .244 | .124 | .036 | .236 | .121 | .035 | .220 | .115 | .034 | .206 | .109 | .032 | .193 | .103 | .031 | |
| 6.0 | .223 | .112 | .032 | .216 | .109 | .031 | .202 | .104 | .030 | .189 | .098 | .029 | .177 | .093 | .028 | |
| 7.0 | .206 | .102 | .029 | .199 | .099 | .028 | .187 | .094 | .027 | .175 | .090 | .026 | .164 | .085 | .025 | |
| 8.0 | .191 | .093 | .026 | .185 | .091 | .026 | .173 | .087 | .025 | .162 | .082 | .024 | .152 | .078 | .023 | |
| 9.0 | .178 | .086 | .024 | .172 | .084 | .024 | .162 | .080 | .023 | .152 | .076 | .022 | .142 | .072 | .021 | |
| 10.0 | .166 | .080 | .022 | .161 | .078 | .022 | .151 | .074 | .021 | .142 | .071 | .020 | .134 | .067 | .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 | .311 | .311 | .311 | .266 | .266 | .266 | .181 | .181 | .181 | .104 | .104 | .104 | .033 | .033 | .033 | |
| 1.0 | .307 | .277 | .249 | .263 | .237 | .215 | .180 | .163 | .148 | .103 | .095 | .086 | .033 | .030 | .028 | |
| 2.0 | .300 | .254 | .215 | .257 | .218 | .186 | .176 | .151 | .129 | .102 | .088 | .076 | .033 | .028 | .025 | |
| 3.0 | .292 | .237 | .193 | .251 | .205 | .167 | .172 | .142 | .117 | .099 | .083 | .069 | .032 | .027 | .023 | |
| 4.0 | .285 | .225 | .179 | .244 | .194 | .155 | .168 | .135 | .109 | .097 | .079 | .065 | .031 | .026 | .021 | |
| 5.0 | .277 | .215 | .169 | .238 | .186 | .147 | .164 | .130 | .104 | .095 | .076 | .062 | .031 | .025 | .020 | |
| 6.0 | .269 | .207 | .162 | .232 | .179 | .141 | .160 | .125 | .100 | .093 | .074 | .059 | .030 | .024 | .020 | |
| 7.0 | .262 | .200 | .157 | .226 | .173 | .136 | .156 | .122 | .097 | .091 | .072 | .058 | .029 | .023 | .019 | |
| 8.0 | .256 | .195 | .153 | .220 | .169 | .133 | .152 | .118 | .094 | .089 | .070 | .056 | .029 | .023 | .019 | |
| 9.0 | .249 | .190 | .150 | .215 | .165 | .130 | .149 | .116 | .093 | .087 | .068 | .055 | .028 | .022 | .018 | |
| 10.0 | .243 | .186 | .147 | .210 | .161 | .128 | .146 | .113 | .091 | .085 | .067 | .054 | .028 | .022 | .018 | |

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:08 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:7.380m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|------------------|------|------|------|-------|----------------|------|------------------|------|------|
| Test:U:120.03V I:0.2179A P:23.973W PF:0.9166 Freq:59.98Hz | | | | | | | | | | |
| Lamp Flux:1993.48x1 lm | | | | | | | | | | |
| NAME: WS24-085-BK 24W 40K | | | | | TYPE: | | | WEIGHT: | | |
| SPEC.: | | | | | DIM.: | | | SERIAL No.: 1 | | |
| MFR.: EVERFINE | | | | | 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 | 13.7 | 15.1 | 14.2 | 15.6 | 16.1 | 16.1 | 17.6 | 16.6 | 18.0 | 18.6 |
| 3H | 15.1 | 16.4 | 15.7 | 16.9 | 17.5 | 18.9 | 20.2 | 19.5 | 20.7 | 21.3 |
| 4H | 15.7 | 16.9 | 16.2 | 17.4 | 18.0 | 20.5 | 21.7 | 21.0 | 22.3 | 22.9 |
| 6H | 16.1 | 17.2 | 16.6 | 17.8 | 18.4 | 22.2 | 23.4 | 22.8 | 24.0 | 24.6 |
| 8H | 16.2 | 17.3 | 16.7 | 17.8 | 18.5 | 23.2 | 24.3 | 23.8 | 24.9 | 25.5 |
| 12H | 16.2 | 17.3 | 16.8 | 17.9 | 18.5 | 24.3 | 25.4 | 24.9 | 26.0 | 26.6 |
| 4H 2H | 14.9 | 16.1 | 15.4 | 16.6 | 17.2 | 16.6 | 17.9 | 17.2 | 18.4 | 19.0 |
| 3H | 16.6 | 17.7 | 17.2 | 18.2 | 18.9 | 19.6 | 20.7 | 20.2 | 21.3 | 21.9 |
| 4H | 17.3 | 18.3 | 17.9 | 18.9 | 19.6 | 21.4 | 22.4 | 22.0 | 22.9 | 23.6 |
| 6H | 17.9 | 18.8 | 18.6 | 19.4 | 20.1 | 23.3 | 24.2 | 23.9 | 24.8 | 25.5 |
| 8H | 18.1 | 19.0 | 18.8 | 19.6 | 20.3 | 24.4 | 25.3 | 25.0 | 25.9 | 26.6 |
| 12H | 18.3 | 19.0 | 18.9 | 19.7 | 20.4 | 25.7 | 26.5 | 26.3 | 27.1 | 27.8 |
| 8H 4H | 18.4 | 19.2 | 19.0 | 19.9 | 20.6 | 21.6 | 22.5 | 22.2 | 23.1 | 23.8 |
| 6H | 19.4 | 20.1 | 20.0 | 20.7 | 21.5 | 23.8 | 24.5 | 24.5 | 25.2 | 25.9 |
| 8H | 19.8 | 20.4 | 20.5 | 21.1 | 21.9 | 25.1 | 25.8 | 25.8 | 26.4 | 27.2 |
| 12H | 20.1 | 20.7 | 20.8 | 21.4 | 22.2 | 26.7 | 27.2 | 27.4 | 27.9 | 28.7 |
| 12H 4H | 18.7 | 19.5 | 19.4 | 20.2 | 20.9 | 21.6 | 22.4 | 22.3 | 23.0 | 23.8 |
| 6H | 19.9 | 20.6 | 20.6 | 21.2 | 22.0 | 23.9 | 24.5 | 24.6 | 25.2 | 26.0 |
| 8H | 20.5 | 21.1 | 21.2 | 21.8 | 22.6 | 25.3 | 25.9 | 26.0 | 26.5 | 27.4 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.2 | | | | | + 0.1 / - 0.1 | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.2 | | | | |
| 2.0H | + 0.3 / - 0.5 | | | | | + 0.2 / - 0.3 | | | | |

CIE Pub.117, 1993 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.4)
Area: 0.1 m2

| | |
|-------------------------|---|
| C Range: 0 - 360DEG | γ Range: 0 - 180DEG |
| C Interval: 90.0DEG | γ Interval: 1.0DEG |
| Test Speed: HIGH | Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459 |
| Temperature:25.3℃ | Humidity:65.0% |
| Operators:DAMIN | Test Distance:7.380m [K=1.0000] |
| Test Date:08 April 2026 | Remarks: |

UTILIZATION FACTORS TABLE

| | | |
|---|-------|------------------|
| Test:U:120.03V I:0.2179A P:23.973W PF:0.9166 Freq:59.98Hz Lamp Flux:1993.48x1 lm | | |
| NAME: WS24-085-BK 24W 40K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 1 |
| MFR.: EVERFINE | SUR.: | Shielding Angle: |

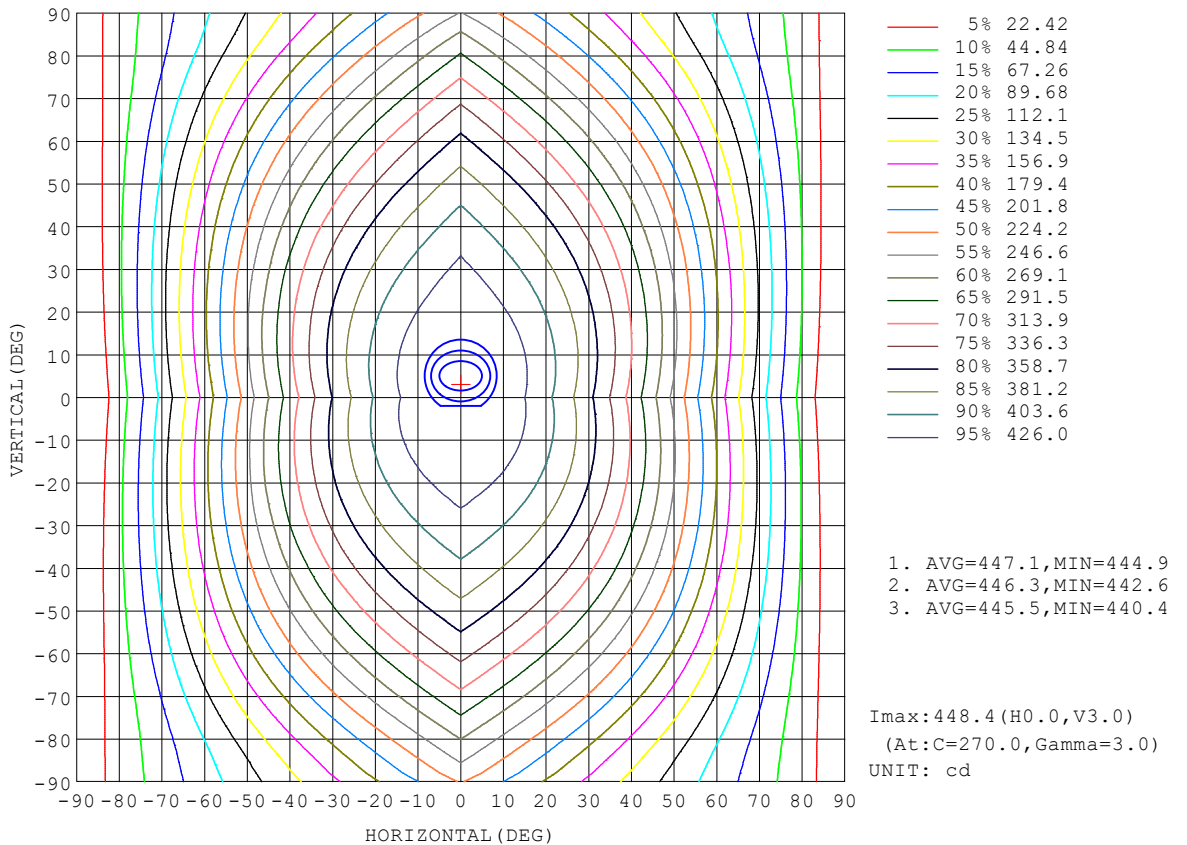
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 48 | 36 | 29 | 47 | 36 | 29 | 45 | 35 | 28 | 21 |
| 0.80 | 58 | 45 | 37 | 56 | 44 | 36 | 53 | 43 | 35 | 28 |
| 1.00 | 65 | 53 | 44 | 64 | 51 | 44 | 60 | 52 | 42 | 34 |
| 1.25 | 72 | 60 | 51 | 70 | 58 | 50 | 66 | 56 | 49 | 39 |
| 1.50 | 77 | 65 | 57 | 75 | 64 | 56 | 70 | 61 | 54 | 44 |
| 2.00 | 85 | 74 | 65 | 82 | 72 | 64 | 76 | 68 | 61 | 50 |
| 2.50 | 89 | 79 | 71 | 86 | 77 | 69 | 80 | 72 | 66 | 54 |
| 3.00 | 93 | 84 | 76 | 89 | 81 | 74 | 83 | 76 | 71 | 58 |
| 4.00 | 98 | 90 | 83 | 94 | 87 | 81 | 87 | 81 | 76 | 63 |
| 5.00 | 101 | 94 | 88 | 97 | 90 | 85 | 89 | 85 | 80 | 66 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNOM = 1.25 | | | |

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DAMIN
 Test Date: 08 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity: 65.0%
 Test Distance: 7.380m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:120.03V I:0.2179A P:23.973W PF:0.9166 Freq:59.98Hz Lamp Flux:1993.48x1 lm | | |
| NAME: WS24-085-BK 24W 40K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 1 |
| MFR.: EVERFINE | SUR.: | Shielding Angle: |

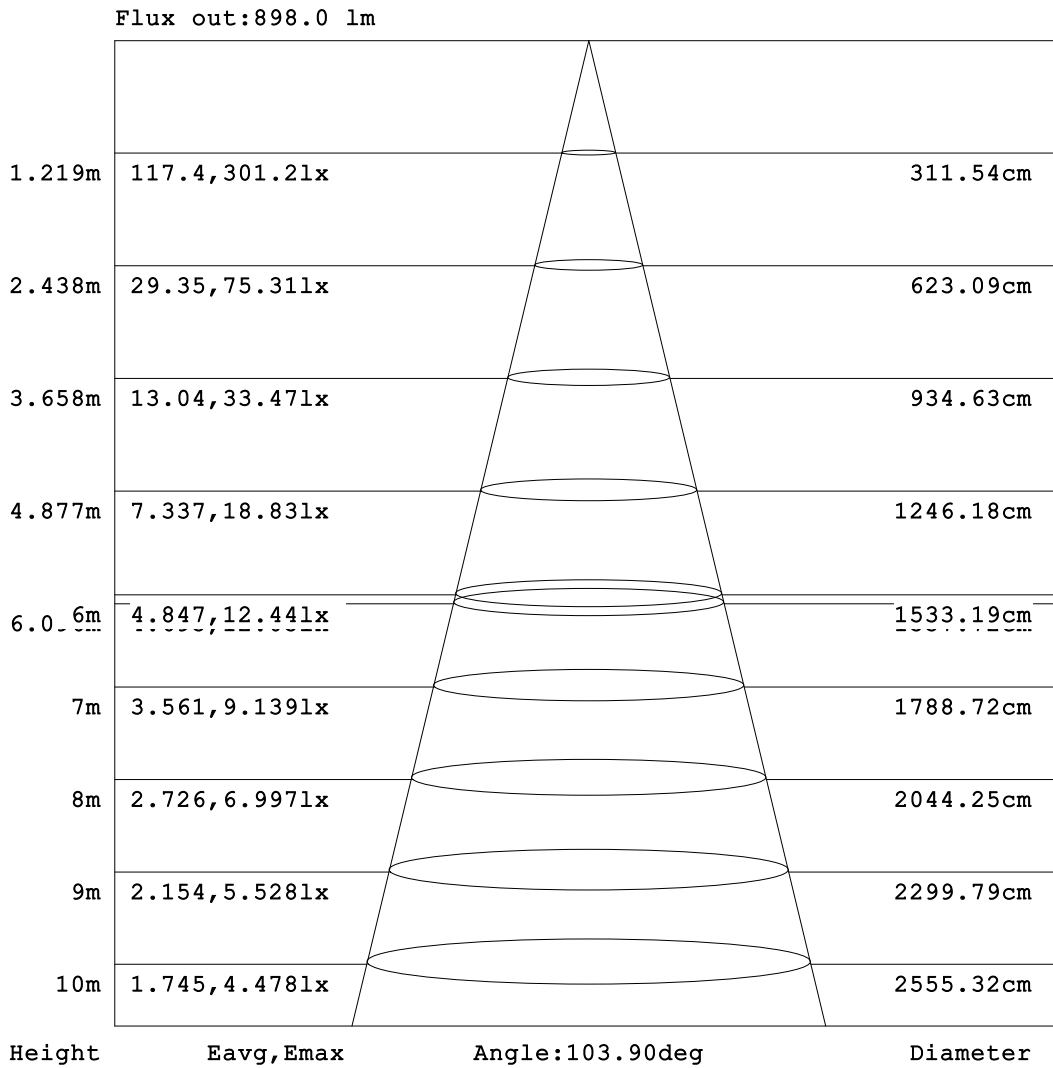


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 08 April 2026

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 7.380m [K=1.0000]
Remarks:

AAI Figure

| | | |
|---|-------|------------------|
| Test:U:120.03V I:0.2179A P:23.973W PF:0.9166 Freq:59.98Hz Lamp Flux:1993.48x1 lm | | |
| NAME: WS24-085-BK 24W 40K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 1 |
| MFR.: EVERFINE | SUR.: | Shielding Angle: |



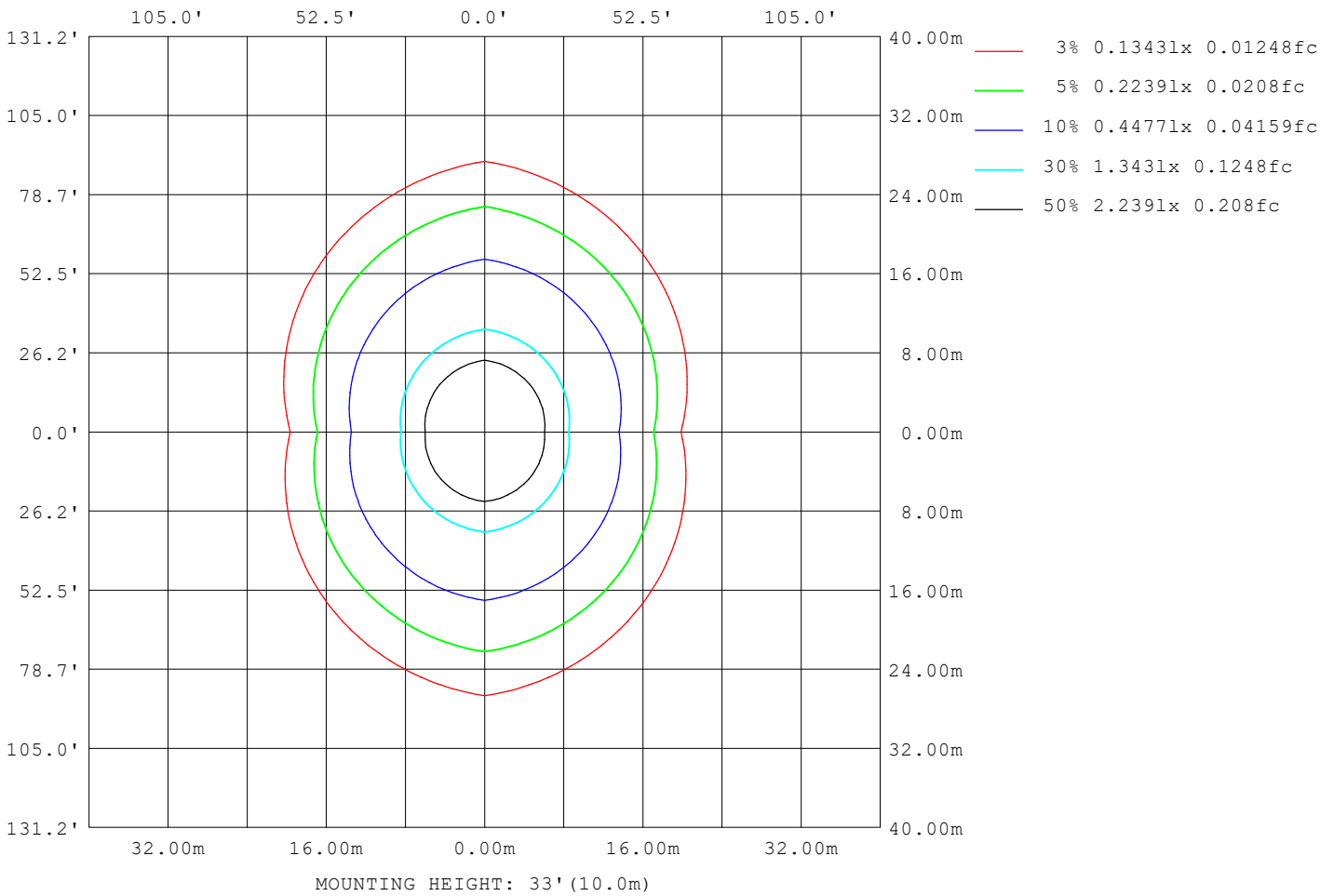
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:08 April 2026

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:7.380m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:120.03V I:0.2179A P:23.973W PF:0.9166 Freq:59.98Hz Lamp Flux:1993.48x1 lm | | |
| NAME: WS24-085-BK 24W 40K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 1 |
| MFR.: EVERFINE | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3 °C
 Operators:DAMIN
 Test Date:08 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:7.380m [K=1.0000]
 Remarks:

LED Avg.L Report

| | | |
|---|-------|------------------|
| Test:U:120.03V I:0.2179A P:23.973W PF:0.9166 Freq:59.98Hz Lamp Flux:1993.48x1 lm | | |
| NAME: WS24-085-BK 24W 40K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 1 |
| MFR.: EVERFINE | SUR.: | Shielding Angle: |

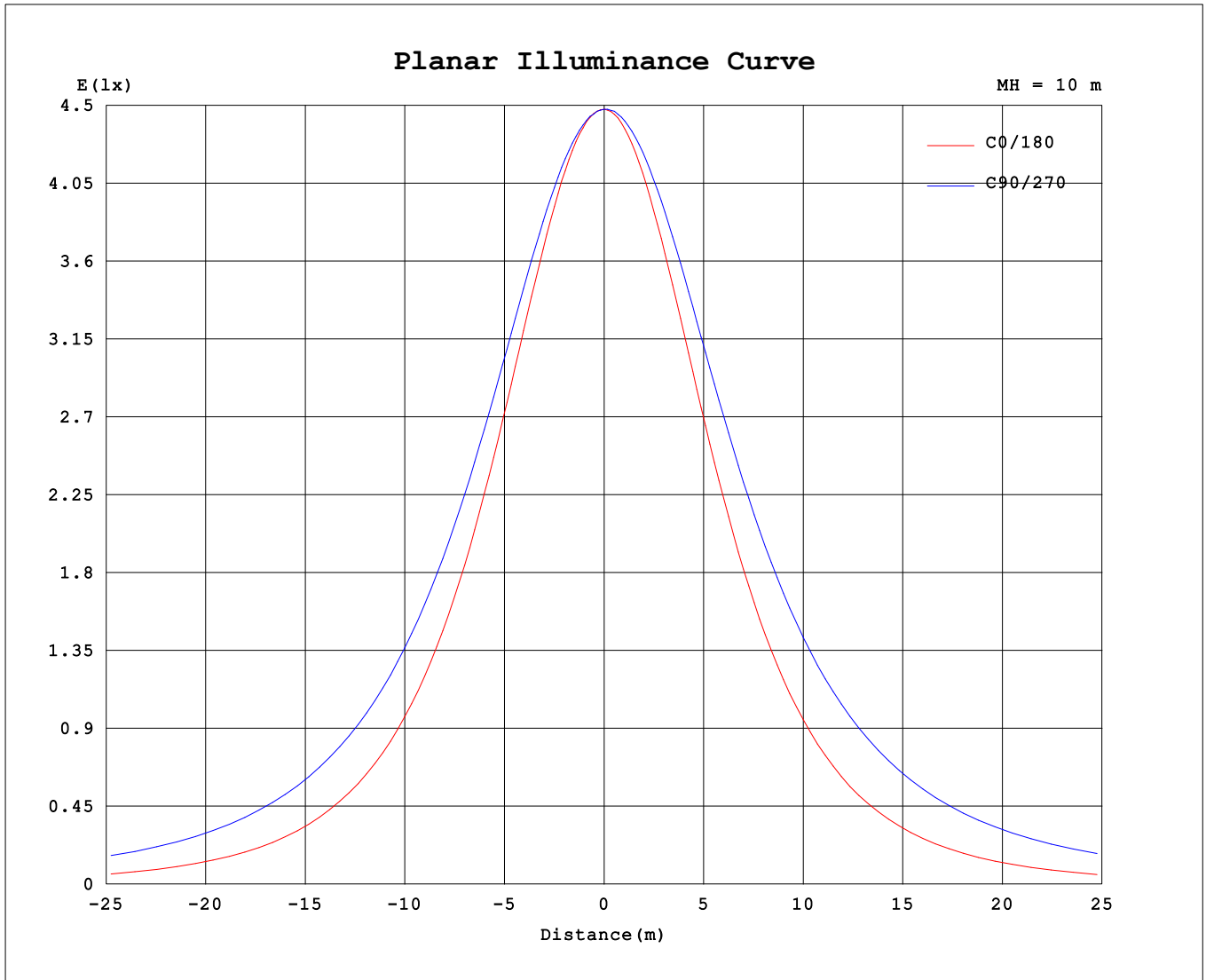
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 3133 |
| L_0~180 (75) av | 2512 |
| L_0~180 (85) av | 1547 |
| L_90~270 (65) av | 7981 |
| L_90~270 (75) av | 11639 |
| L_90~270 (85) av | 29902 |
| L_45 (65) av | 6159 |
| L_45 (75) av | 8211 |
| L_45 (85) av | 19261 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:08 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:7.380m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DAMIN
 Test Date: 08 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity: 65.0%
 Test Distance: 7.380m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-------|------------------|
| Test:U:120.03V I:0.2179A P:23.973W PF:0.9166 Freq:59.98Hz Lamp Flux:1993.48x1 lm | | |
| NAME: WS24-085-BK 24W 40K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 1 |
| MFR.: EVERFINE | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) \ γ (DEG) | 0 | 90 | 180 | 270 | | | | | | | | | | | | | | | |
|-------------------|-------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 448 | 448 | 448 | 448 | | | | | | | | | | | | | | | |
| 5 | 446 | 446 | 445 | 448 | | | | | | | | | | | | | | | |
| 10 | 438 | 444 | 436 | 448 | | | | | | | | | | | | | | | |
| 15 | 426 | 440 | 423 | 445 | | | | | | | | | | | | | | | |
| 20 | 409 | 435 | 406 | 442 | | | | | | | | | | | | | | | |
| 25 | 388 | 428 | 384 | 437 | | | | | | | | | | | | | | | |
| 30 | 364 | 419 | 359 | 430 | | | | | | | | | | | | | | | |
| 35 | 336 | 410 | 331 | 423 | | | | | | | | | | | | | | | |
| 40 | 306 | 399 | 301 | 414 | | | | | | | | | | | | | | | |
| 45 | 274 | 387 | 269 | 403 | | | | | | | | | | | | | | | |
| 50 | 241 | 373 | 235 | 392 | | | | | | | | | | | | | | | |
| 55 | 206 | 359 | 200 | 379 | | | | | | | | | | | | | | | |
| 60 | 171 | 343 | 165 | 364 | | | | | | | | | | | | | | | |
| 65 | 135 | 326 | 130 | 349 | | | | | | | | | | | | | | | |
| 70 | 100.0 | 308 | 95.4 | 332 | | | | | | | | | | | | | | | |
| 75 | 67.1 | 289 | 63.0 | 313 | | | | | | | | | | | | | | | |
| 80 | 37.6 | 269 | 34.1 | 294 | | | | | | | | | | | | | | | |
| 85 | 14.7 | 249 | 12.3 | 272 | | | | | | | | | | | | | | | |
| 90 | 6.11 | 226 | 5.88 | 247 | | | | | | | | | | | | | | | |
| 95 | 6.90 | 182 | 6.76 | 200 | | | | | | | | | | | | | | | |
| 100 | 8.45 | 134 | 8.11 | 146 | | | | | | | | | | | | | | | |
| 105 | 10.3 | 87.3 | 9.88 | 91.4 | | | | | | | | | | | | | | | |
| 110 | 12.4 | 80.4 | 12.2 | 88.7 | | | | | | | | | | | | | | | |
| 115 | 15.0 | 83.4 | 14.7 | 90.3 | | | | | | | | | | | | | | | |
| 120 | 17.4 | 64.3 | 16.8 | 75.1 | | | | | | | | | | | | | | | |
| 125 | 18.3 | 53.1 | 16.3 | 58.6 | | | | | | | | | | | | | | | |
| 130 | 20.3 | 48.3 | 18.1 | 53.5 | | | | | | | | | | | | | | | |
| 135 | 21.8 | 44.4 | 19.6 | 46.7 | | | | | | | | | | | | | | | |
| 140 | 22.4 | 41.4 | 20.1 | 35.4 | | | | | | | | | | | | | | | |
| 145 | 23.2 | 37.5 | 20.9 | 36.6 | | | | | | | | | | | | | | | |
| 150 | 24.1 | 32.2 | 21.8 | 35.3 | | | | | | | | | | | | | | | |
| 155 | 25.0 | 29.5 | 22.6 | 30.2 | | | | | | | | | | | | | | | |
| 160 | 25.7 | 28.8 | 23.3 | 31.4 | | | | | | | | | | | | | | | |
| 165 | 26.0 | 27.6 | 23.6 | 29.1 | | | | | | | | | | | | | | | |
| 170 | 25.4 | 23.2 | 23.3 | 27.1 | | | | | | | | | | | | | | | |
| 175 | 28.9 | 19.3 | 26.7 | 24.2 | | | | | | | | | | | | | | | |
| 180 | 28.5 | 18.3 | 28.5 | 18.3 | | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:08 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:7.380m [K=1.0000]
 Remarks: