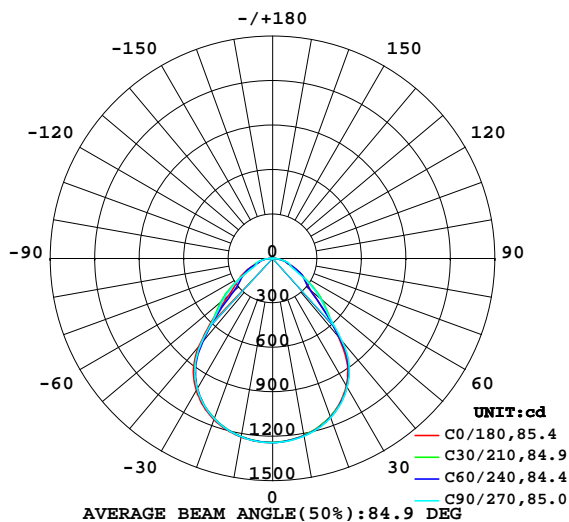


LUMINAIRE PHOTOMETRIC TEST REPORT

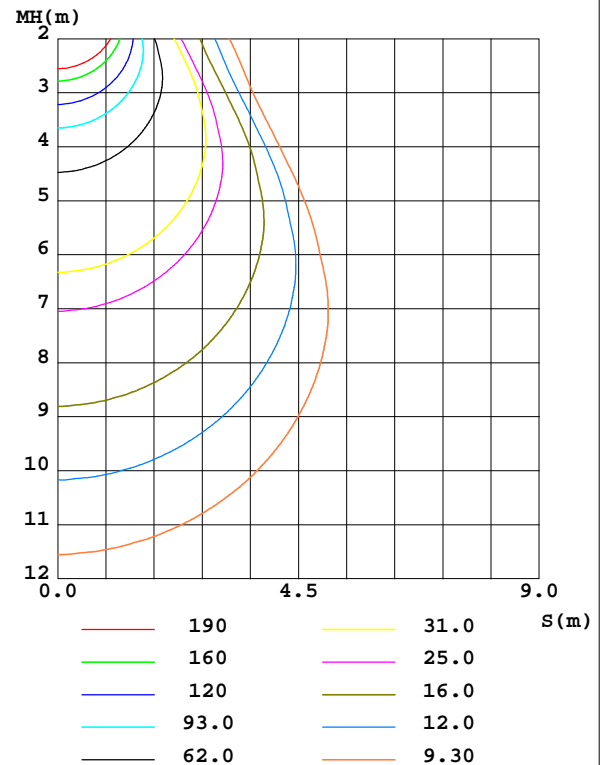
| | | |
|---|-----------------|------------------|
| Test:U:230.21V I:0.1047A P:23.542W PF:0.9768 Freq:50.00Hz Lamp Flux:2532.06x1 lm | | |
| NAME: LED346 (22W 4000K) Uplight off | TYPE: 调光双色中性白白色 | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 107.56 lm/W |
|------------------|---------|------------------|--------|------------------------|----------|------------------|
| MODEL | | Imax(cd) | 1244 | S/MH(C0/180) | 1.23 | |
| NOMINAL POWER(W) | 22 | LOR(%) | 100.0 | S/MH(C90/270) | 1.22 | |
| RATED VOLTAGE(V) | 230 | TOTAL FLUX(lm) | 2532.1 | η UP,DN(C0-180) | 0.4,48.8 | |
| NOMINAL FLUX(lm) | 2532.06 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.4,50.3 | |
| LAMPS INSIDE | 1 | η up(%) | 0.9 | CIBSE SHR NOM | 1.25 | |
| TEST VOLTAGE(V) | 229.5 | η down(%) | 99.1 | CIBSE SHR MAX | 1.25 | |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Mr.Ma
Test Date: 2024 8.12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:6.100m [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 | 1213 | 1215 | 1217 | 1217 | 1224 | 1221 | 1220 | 1219 | 0- 10 | 117.4 | 117.4 | 4.64,4.64 |
| 20 | 1136 | 1140 | 1143 | 1144 | 1158 | 1151 | 1151 | 1147 | 10- 20 | 335.2 | 452.6 | 17.9,17.9 |
| 30 | 994.2 | 1003 | 1006 | 1006 | 1031 | 1016 | 1017 | 1014 | 20- 30 | 500.0 | 952.6 | 37.6,37.6 |
| 40 | 694.8 | 717.8 | 731.6 | 730.2 | 776.0 | 743.6 | 754.7 | 749.1 | 30- 40 | 559.1 | 1512 | 59.7,59.7 |
| 50 | 337.0 | 383.5 | 422.0 | 395.9 | 387.9 | 400.9 | 439.4 | 399.9 | 40- 50 | 415.8 | 1928 | 76.1,76.1 |
| 60 | 232.2 | 226.9 | 208.9 | 227.0 | 253.9 | 234.1 | 229.5 | 229.4 | 50- 60 | 275.0 | 2202 | 87,87 |
| 70 | 122.0 | 122.1 | 125.9 | 124.4 | 138.9 | 128.5 | 117.6 | 127.4 | 60- 70 | 168.8 | 2371 | 93.7,93.7 |
| 80 | 58.89 | 59.57 | 62.11 | 63.01 | 70.97 | 70.05 | 71.06 | 66.97 | 70- 80 | 103.1 | 2474 | 97.7,97.7 |
| 90 | 0.4403 | 0.4378 | 0.4202 | 0.4092 | 3.577 | 0.6973 | 0.6860 | 0.6632 | 80- 90 | 35.31 | 2510 | 99.1,99.1 |
| 100 | 1.043 | 0.9717 | 0.9731 | 0.9645 | 0.9275 | 0.9760 | 1.007 | 1.002 | 90-100 | 0.7449 | 2510 | 99.1,99.1 |
| 110 | 2.092 | 2.010 | 1.965 | 1.936 | 1.814 | 1.906 | 1.934 | 1.981 | 100-110 | 1.521 | 2512 | 99.2,99.2 |
| 120 | 3.351 | 3.265 | 3.222 | 3.216 | 3.047 | 3.139 | 3.165 | 3.228 | 110-120 | 2.543 | 2514 | 99.3,99.3 |
| 130 | 4.587 | 4.492 | 4.464 | 4.456 | 4.277 | 4.361 | 4.368 | 4.444 | 120-130 | 3.403 | 2518 | 99.4,99.4 |
| 140 | 5.690 | 5.663 | 5.674 | 5.655 | 5.484 | 5.551 | 5.601 | 5.617 | 130-140 | 3.892 | 2522 | 99.6,99.6 |
| 150 | 6.584 | 6.623 | 6.685 | 6.663 | 6.433 | 6.500 | 6.716 | 6.575 | 140-150 | 3.831 | 2526 | 99.7,99.7 |
| 160 | 7.458 | 7.552 | 7.630 | 7.640 | 7.346 | 7.439 | 7.774 | 7.491 | 150-160 | 3.254 | 2529 | 99.9,99.9 |
| 170 | 8.937 | 9.032 | 9.018 | 9.132 | 8.766 | 8.929 | 9.164 | 8.991 | 160-170 | 2.305 | 2531 | 100,100 |
| 180 | 9.601 | 9.551 | 9.554 | 9.645 | 9.603 | 9.555 | 9.550 | 9.647 | 170-180 | 0.8897 | 2532 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT: lm | | |

Conical surface Flux(90deg): 1743.2 lm

%lum = 68.8%

%lamp = 68.8%

Conical surface Flux(130deg): 2298 lm

%lum = 90.8%

%lamp = 90.8%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Mr.Ma
Test Date: 2024 8.12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:6.100m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.21V I:0.1047A P:23.542W PF:0.9768 Freq:50.00Hz
Lamp Flux:2532.06x1 lm

NAME: LED346 (22W 4000K) Uplight off

TYPE: 调光双色中性白白色

WEIGHT:

SPEC.:

DIM.:

SERIAL No.:

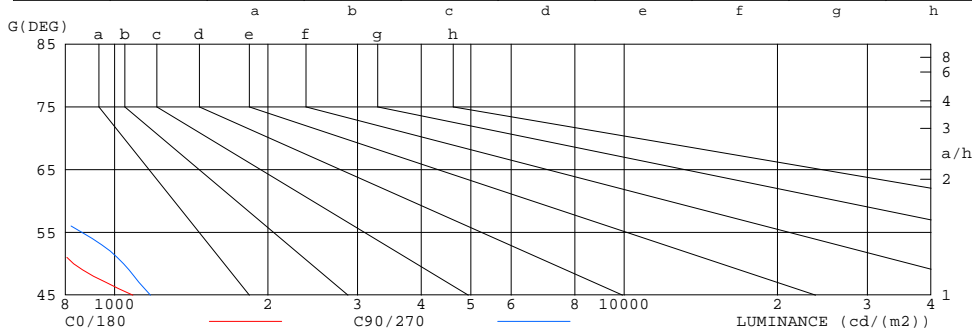
MFR.:

SUR.:

Shielding Angle:

LUMINANCE LIMITATION CURVES

| GLARE | CLASS | ILLUMINANCE (lx) | | | | | | | |
|-------|-------|------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.50 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <=300 | | |
| 2.20 | D | | | | 2000 | 1000 | 500 | <=300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | <=300 |



LUMINANCE cd/(m2)

| G(DEG) | C0/180 | C90/270 |
|--------|--------|---------|
| 85 | 471 | 572 |
| 80 | 538 | 567 |
| 75 | 564 | 630 |
| 70 | 565 | 584 |
| 65 | 659 | 551 |
| 60 | 736 | 663 |
| 55 | 764 | 863 |
| 50 | 831 | 1041 |
| 45 | 1087 | 1177 |

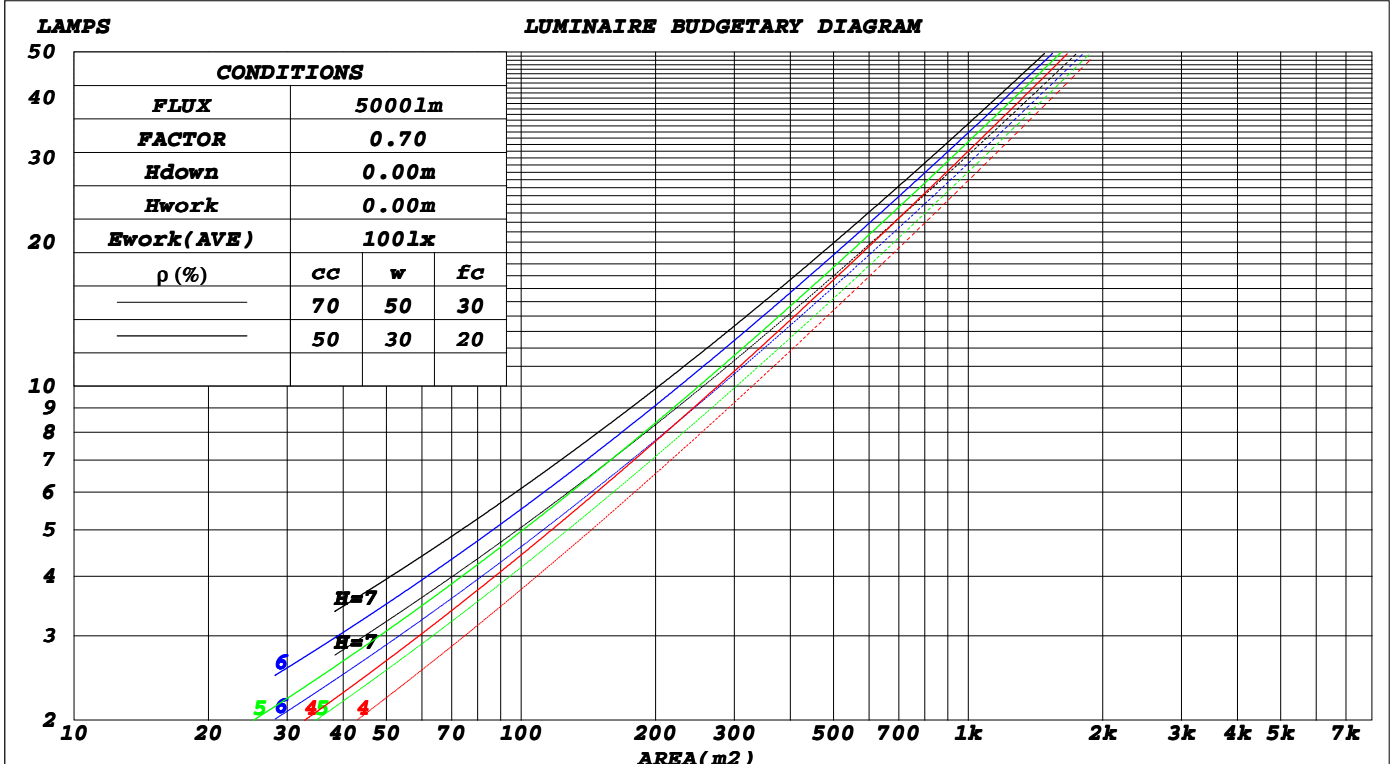
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024 8.12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|-----------------|------------------|
| Test:U:230.21V I:0.1047A P:23.542W PF:0.9768 Freq:50.00Hz Lamp Flux:2532.06x1 lm | | |
| NAME: LED346 (22W 4000K) Uplight off | TYPE: 调光双色中性白白色 | 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 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 | 1.06 | 1.02 | .99 | 1.04 | 1.00 | .97 | .99 | .97 | .94 | .95 | .93 | .91 | .92 | .90 | .88 | .86 |
| 2.0 | .95 | .89 | .84 | .93 | .87 | .83 | .89 | .85 | .81 | .86 | .82 | .79 | .83 | .80 | .77 | .75 |
| 3.0 | .85 | .78 | .72 | .83 | .77 | .71 | .80 | .75 | .70 | .77 | .73 | .69 | .75 | .71 | .67 | .65 |
| 4.0 | .76 | .69 | .63 | .75 | .68 | .62 | .73 | .66 | .61 | .70 | .65 | .60 | .68 | .63 | .60 | .58 |
| 5.0 | .69 | .61 | .55 | .68 | .61 | .55 | .66 | .59 | .54 | .64 | .58 | .54 | .62 | .57 | .53 | .51 |
| 6.0 | .63 | .55 | .49 | .62 | .55 | .49 | .60 | .54 | .49 | .59 | .53 | .48 | .57 | .52 | .48 | .46 |
| 7.0 | .58 | .50 | .44 | .57 | .49 | .44 | .55 | .49 | .44 | .54 | .48 | .43 | .53 | .47 | .43 | .41 |
| 8.0 | .53 | .45 | .40 | .53 | .45 | .40 | .51 | .44 | .40 | .50 | .44 | .39 | .49 | .43 | .39 | .37 |
| 9.0 | .49 | .42 | .36 | .49 | .41 | .36 | .47 | .41 | .36 | .46 | .40 | .36 | .45 | .40 | .36 | .34 |
| 10.0 | .46 | .38 | .33 | .45 | .38 | .33 | .44 | .38 | .33 | .43 | .37 | .33 | .42 | .37 | .33 | .31 |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024 8.12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

WEC AND CCEC

| | | |
|---|-----------------|------------------|
| Test:U:230.21V I:0.1047A P:23.542W PF:0.9768 Freq:50.00Hz Lamp Flux:2532.06x1 lm | | |
| NAME: LED346 (22W 4000K) Uplight off | TYPE: 调光双色中性白白色 | 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 | .265 | .150 | .048 | .257 | .147 | .047 | .244 | .140 | .045 | .231 | .133 | .043 | .220 | .127 | .041 | | | | | | | | | | | | | | | |
| 2.0 | .250 | .137 | .042 | .244 | .134 | .041 | .232 | .129 | .040 | .221 | .124 | .039 | .211 | .120 | .038 | | | | | | | | | | | | | | | |
| 3.0 | .234 | .125 | .037 | .229 | .122 | .037 | .218 | .118 | .036 | .209 | .114 | .035 | .200 | .111 | .034 | | | | | | | | | | | | | | | |
| 4.0 | .219 | .114 | .033 | .214 | .112 | .033 | .205 | .109 | .032 | .196 | .105 | .032 | .188 | .102 | .031 | | | | | | | | | | | | | | | |
| 5.0 | .204 | .104 | .030 | .200 | .103 | .030 | .192 | .100 | .029 | .184 | .097 | .029 | .177 | .095 | .028 | | | | | | | | | | | | | | | |
| 6.0 | .191 | .096 | .027 | .188 | .095 | .027 | .180 | .092 | .027 | .174 | .090 | .027 | .167 | .088 | .026 | | | | | | | | | | | | | | | |
| 7.0 | .180 | .089 | .025 | .176 | .088 | .025 | .170 | .086 | .025 | .164 | .084 | .024 | .158 | .082 | .024 | | | | | | | | | | | | | | | |
| 8.0 | .169 | .083 | .023 | .166 | .082 | .023 | .160 | .080 | .023 | .155 | .079 | .023 | .150 | .077 | .022 | | | | | | | | | | | | | | | |
| 9.0 | .160 | .077 | .022 | .157 | .077 | .021 | .152 | .075 | .021 | .147 | .074 | .021 | .142 | .072 | .021 | | | | | | | | | | | | | | | |
| 10.0 | .151 | .073 | .020 | .149 | .072 | .020 | .144 | .071 | .020 | .140 | .069 | .020 | .135 | .068 | .020 | | | | | | | | | | | | | | | |

| 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 | .197 | .197 | .197 | .169 | .169 | .169 | .115 | .115 | .115 | .066 | .066 | .066 | .021 | .021 | .021 | |
| 1.0 | .184 | .163 | .145 | .157 | .140 | .125 | .108 | .096 | .086 | .062 | .056 | .050 | .020 | .018 | .016 | |
| 2.0 | .174 | .139 | .110 | .149 | .120 | .095 | .102 | .083 | .066 | .059 | .048 | .039 | .019 | .016 | .013 | |
| 3.0 | .164 | .121 | .086 | .141 | .104 | .075 | .097 | .072 | .052 | .056 | .042 | .031 | .018 | .014 | .010 | |
| 4.0 | .156 | .107 | .070 | .134 | .093 | .061 | .092 | .065 | .043 | .053 | .038 | .025 | .017 | .012 | .008 | |
| 5.0 | .149 | .096 | .058 | .128 | .083 | .050 | .088 | .058 | .036 | .051 | .034 | .021 | .016 | .011 | .007 | |
| 6.0 | .142 | .088 | .049 | .122 | .076 | .043 | .084 | .053 | .030 | .049 | .031 | .018 | .016 | .010 | .006 | |
| 7.0 | .135 | .081 | .043 | .116 | .070 | .037 | .080 | .049 | .026 | .047 | .029 | .016 | .015 | .009 | .005 | |
| 8.0 | .129 | .075 | .038 | .111 | .065 | .033 | .077 | .046 | .023 | .045 | .027 | .014 | .014 | .009 | .005 | |
| 9.0 | .124 | .070 | .034 | .106 | .061 | .030 | .074 | .043 | .021 | .043 | .025 | .013 | .014 | .008 | .004 | |
| 10.0 | .118 | .066 | .031 | .102 | .057 | .027 | .071 | .040 | .019 | .041 | .024 | .011 | .013 | .008 | .004 | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3℃
Operators: Mr.Ma
Test Date: 2024 8.12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|-------------------------|-------------|-------------|-------------|-----------------|-----------------------|-------------|------------------|-------------|-------------|
| Test:U:230.21V I:0.1047A P:23.542W PF:0.9768 Freq:50.00Hz Lamp Flux:2532.06x1 lm | | | | | | | | | | |
| NAME: LED346 (22W 4000K) Uplight off | | | | | TYPE: 调光双色中性白白色 | | | 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 | 8.1 | 9.4 | 8.4 | 9.6 | 9.8 | 7.9 | 9.3 | 8.2 | 9.5 | 9.7 |
| 3H | 8.9 | 10.1 | 9.2 | 10.4 | 10.6 | 8.8 | 10.0 | 9.1 | 10.2 | 10.5 |
| 4H | 9.3 | 10.5 | 9.6 | 10.7 | 11.0 | 9.3 | 10.5 | 9.6 | 10.7 | 11.0 |
| 6H | 9.7 | 10.8 | 10.0 | 11.0 | 11.3 | 9.7 | 10.8 | 10.0 | 11.1 | 11.4 |
| 8H | 9.8 | 10.8 | 10.1 | 11.1 | 11.4 | 9.9 | 10.9 | 10.2 | 11.2 | 11.5 |
| 12H | 9.9 | 10.9 | 10.2 | 11.2 | 11.5 | 10.0 | 11.0 | 10.3 | 11.3 | 11.6 |
| 4H 2H | 8.4 | 9.5 | 8.7 | 9.8 | 10.0 | 8.3 | 9.4 | 8.6 | 9.7 | 10.0 |
| 3H | 9.4 | 10.4 | 9.7 | 10.7 | 11.0 | 9.3 | 10.3 | 9.7 | 10.6 | 10.9 |
| 4H | 10.0 | 10.9 | 10.4 | 11.2 | 11.6 | 10.0 | 10.9 | 10.4 | 11.2 | 11.6 |
| 6H | 10.5 | 11.3 | 10.9 | 11.7 | 12.0 | 10.6 | 11.4 | 11.0 | 11.7 | 12.1 |
| 8H | 10.7 | 11.4 | 11.1 | 11.8 | 12.2 | 10.8 | 11.5 | 11.2 | 11.9 | 12.3 |
| 12H | 10.8 | 11.5 | 11.2 | 11.9 | 12.3 | 11.0 | 11.7 | 11.4 | 12.1 | 12.5 |
| 8H 4H | 10.2 | 11.0 | 10.6 | 11.3 | 11.7 | 10.2 | 11.0 | 10.6 | 11.3 | 11.7 |
| 6H | 10.8 | 11.5 | 11.3 | 11.9 | 12.3 | 10.9 | 11.6 | 11.4 | 12.0 | 12.4 |
| 8H | 11.1 | 11.7 | 11.6 | 12.1 | 12.6 | 11.2 | 11.8 | 11.7 | 12.2 | 12.7 |
| 12H | 11.3 | 11.8 | 11.8 | 12.3 | 12.8 | 11.5 | 12.0 | 12.0 | 12.5 | 13.0 |
| 12H 4H | 10.2 | 10.9 | 10.6 | 11.3 | 11.7 | 10.2 | 10.9 | 10.6 | 11.3 | 11.7 |
| 6H | 10.9 | 11.5 | 11.4 | 11.9 | 12.4 | 11.0 | 11.5 | 11.5 | 12.0 | 12.4 |
| 8H | 11.2 | 11.7 | 11.7 | 12.2 | 12.6 | 11.3 | 11.8 | 11.8 | 12.3 | 12.8 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | |
| S = 1.0H | + 0.4 / - 0.5 | | | | | + 0.4 / - 0.4 | | | | |
| 1.5H | + 0.4 / - 0.6 | | | | | + 0.5 / - 0.2 | | | | |
| 2.0H | + 0.6 / - 0.7 | | | | | + 0.6 / - 0.6 | | | | |

CIE Pub.117, 2532 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 3.2$)
 Area: 0.63 m2

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:Mr.Ma
 Test Date: 2024 8.12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:6.100m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|-----------------|------------------|
| Test:U:230.21V I:0.1047A P:23.542W PF:0.9768 Freq:50.00Hz Lamp Flux:2532.06x1 lm | | |
| NAME: LED346 (22W 4000K) Uplight off | TYPE: 调光双色中性白白色 | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

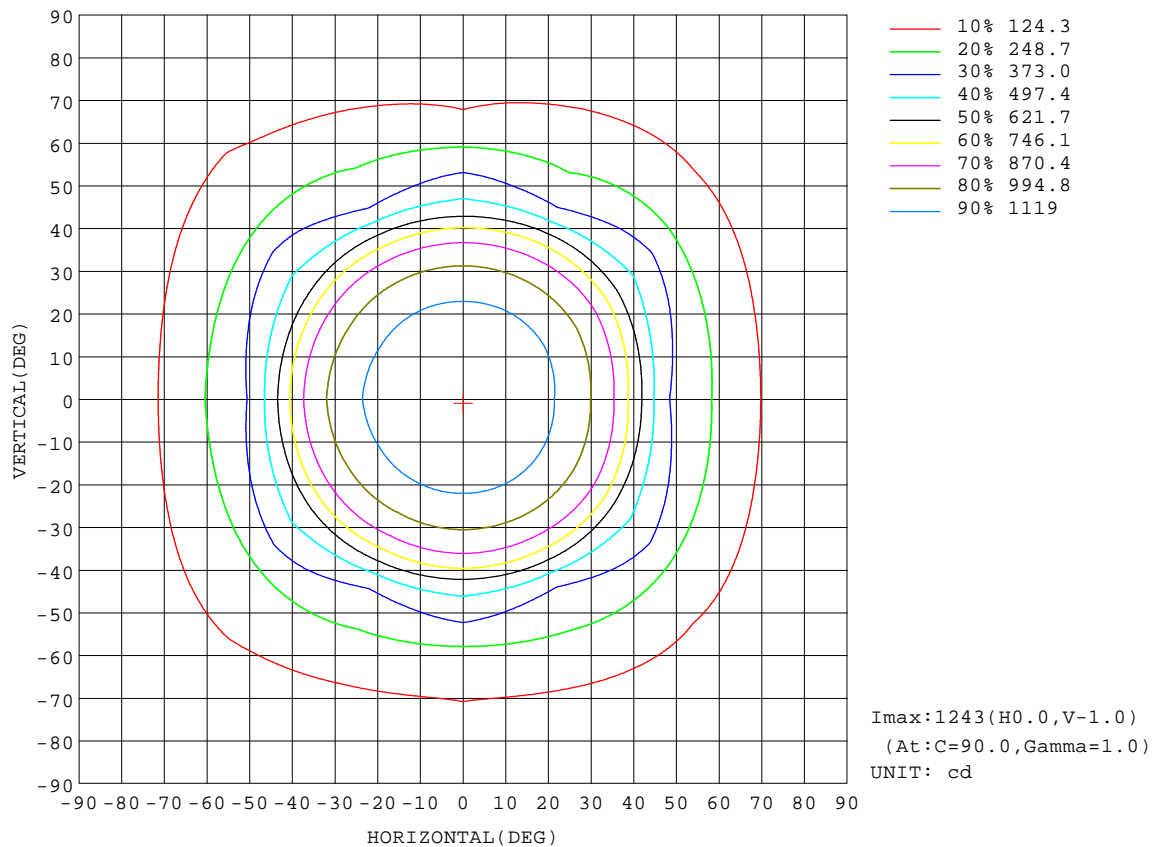
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|--------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 66 | 56 | 51 | 66 | 56 | 50 | 65 | 56 | 50 | 45 |
| 0.80 | 76 | 66 | 60 | 75 | 66 | 60 | 73 | 65 | 59 | 54 |
| 1.00 | 84 | 74 | 68 | 82 | 74 | 68 | 80 | 75 | 67 | 61 |
| 1.25 | 90 | 81 | 75 | 88 | 80 | 75 | 86 | 79 | 74 | 68 |
| 1.50 | 94 | 86 | 80 | 92 | 85 | 80 | 90 | 83 | 79 | 72 |
| 2.00 | 100 | 93 | 87 | 98 | 91 | 86 | 94 | 89 | 85 | 78 |
| 2.50 | 103 | 96 | 91 | 101 | 95 | 90 | 97 | 92 | 88 | 81 |
| 3.00 | 105 | 100 | 95 | 103 | 98 | 94 | 99 | 95 | 92 | 84 |
| 4.00 | 109 | 104 | 100 | 106 | 102 | 99 | 102 | 99 | 96 | 87 |
| 5.00 | 110 | 106 | 103 | 108 | 104 | 101 | 104 | 101 | 98 | 89 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNM = 1.25 | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3℃
Operators: Mr.Ma
Test Date: 2024 8.12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|-----------------|------------------|
| Test:U:230.21V I:0.1047A P:23.542W PF:0.9768 Freq:50.00Hz Lamp Flux:2532.06x1 lm | | |
| NAME: LED346 (22W 4000K) Uplight off | TYPE: 调光双色中性白白色 | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



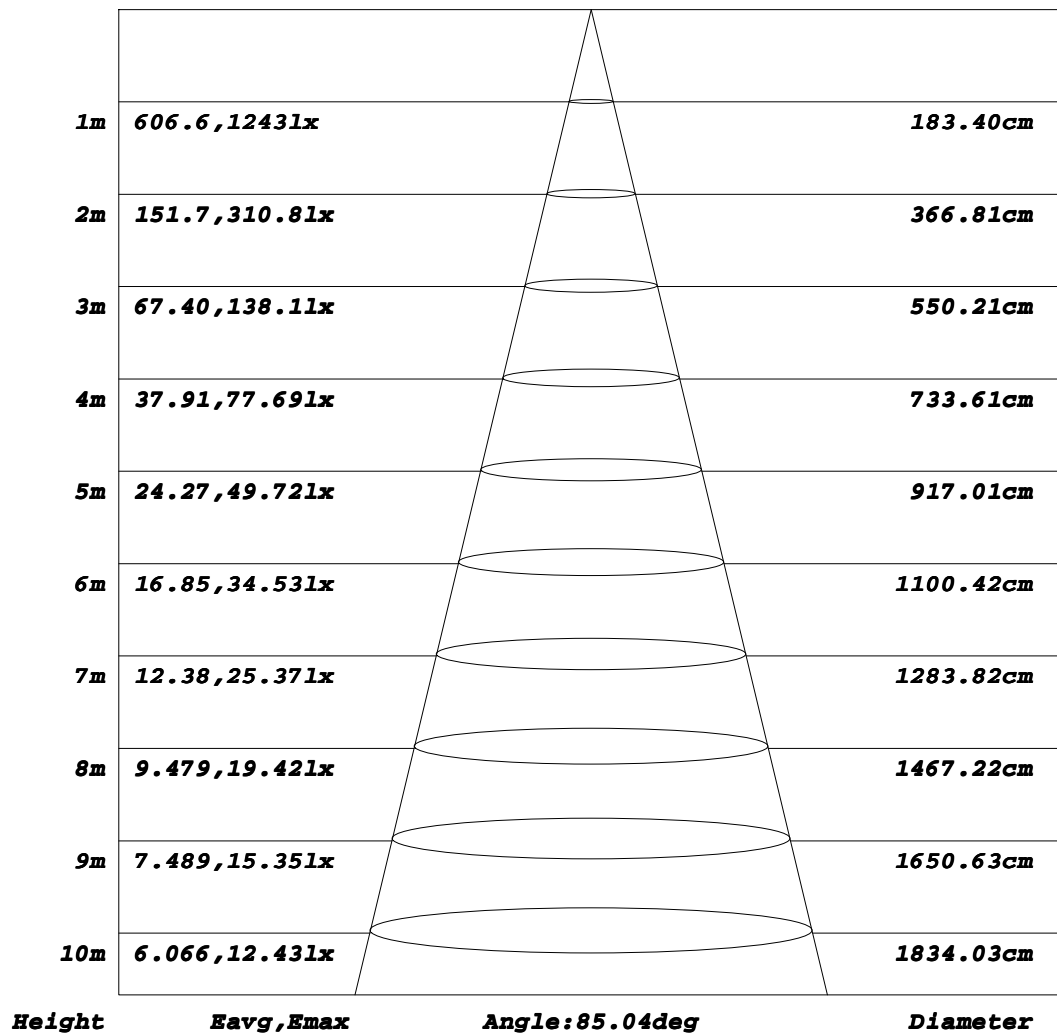
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Mr.Ma
Test Date: 2024 8.12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:6.100m [K=1.0000]
Remarks:

AAI Figure

| | | |
|---|-----------------|------------------|
| Test:U:230.21V I:0.1047A P:23.542W PF:0.9768 Freq:50.00Hz Lamp Flux:2532.06x1 lm | | |
| NAME: LED346 (22W 4000K) Uplight off | TYPE: 调光双色中性白白色 | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

Flux out:1657 lm



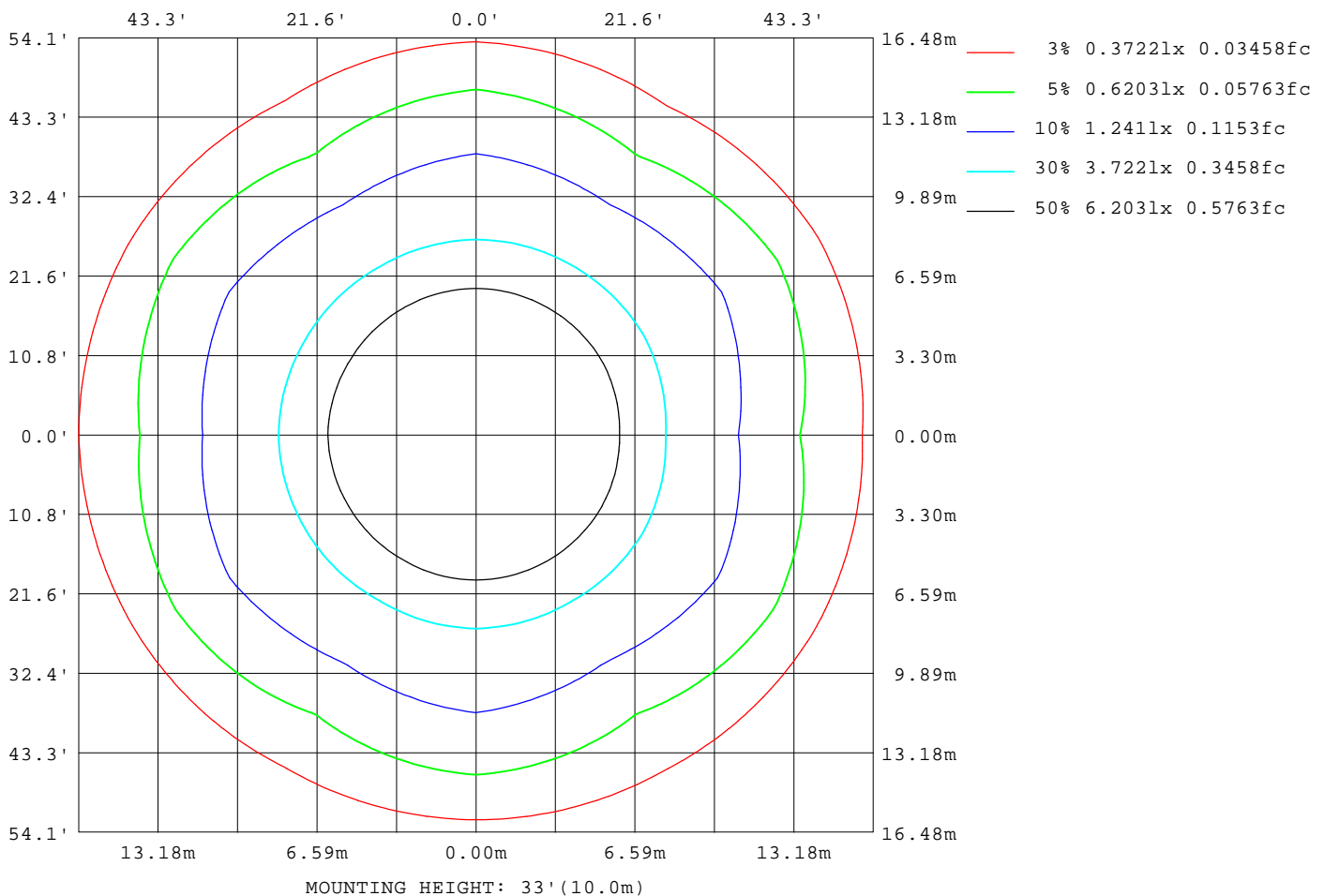
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024 8.12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|---|-----------------|------------------|
| Test:U:230.21V I:0.1047A P:23.542W PF:0.9768 Freq:50.00Hz Lamp Flux:2532.06x1 lm | | |
| NAME: LED346 (22W 4000K) Uplight off | TYPE: 调光双色中性白白色 | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024 8.12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|---|-----------------|------------------|
| Test:U:230.21V I:0.1047A P:23.542W PF:0.9768 Freq:50.00Hz Lamp Flux:2532.06x1 lm | | |
| NAME: LED346 (22W 4000K) Uplight off | TYPE: 调光双色中性白白色 | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

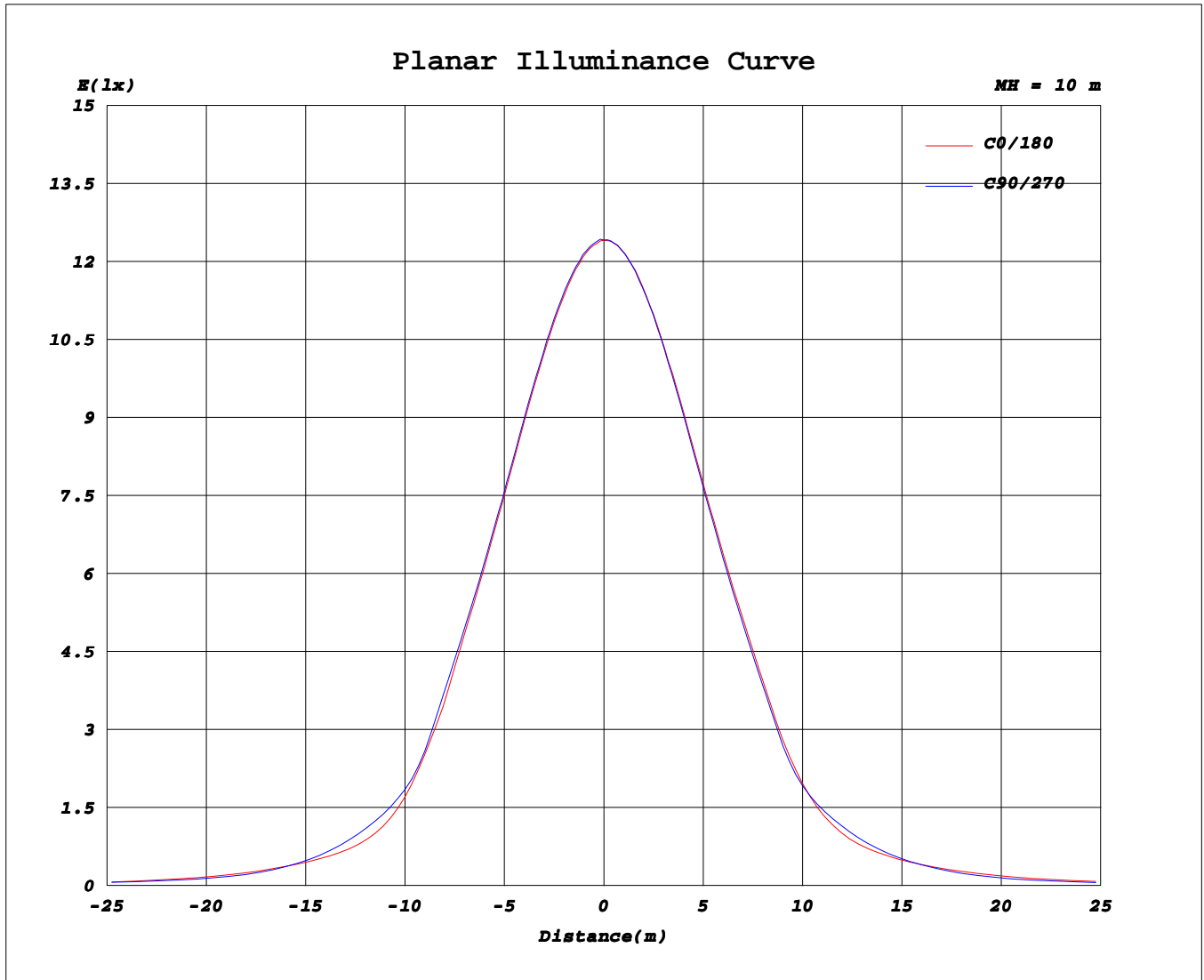
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 697 |
| L_0~180(75)av | 586 |
| L_0~180(85)av | 598 |
| L_90~270(65)av | 557 |
| L_90~270(75)av | 649 |
| L_90~270(85)av | 646 |
| L_45(65)av | 627 |
| L_45(75)av | 604 |
| L_45(85)av | 615 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3℃
Operators: Mr.Ma
Test Date: 2024 8.12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024 8.12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-----------------|------------------|
| Test:U:230.21V I:0.1047A P:23.542W PF:0.9768 Freq:50.00Hz Lamp Flux:2532.06x1 lm | | |
| NAME: LED346 (22W 4000K) Uplight off | TYPE: 调光双色中性白白色 | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C(°) \ γ (°) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | | | | | | |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0 | 1242 | 1242 | 1242 | 1242 | 1242 | 1242 | 1242 | 1242 | 1242 | 1242 | 1242 | 1242 | | | | | | |
| 5 | 1233 | 1234 | 1234 | 1235 | 1234 | 1237 | 1239 | 1238 | 1237 | 1237 | 1236 | 1236 | | | | | | |
| 10 | 1213 | 1215 | 1216 | 1217 | 1216 | 1219 | 1224 | 1222 | 1221 | 1220 | 1220 | 1218 | | | | | | |
| 15 | 1180 | 1182 | 1186 | 1186 | 1185 | 1189 | 1197 | 1193 | 1193 | 1193 | 1192 | 1189 | | | | | | |
| 20 | 1136 | 1138 | 1142 | 1143 | 1142 | 1146 | 1158 | 1150 | 1152 | 1151 | 1150 | 1145 | | | | | | |
| 25 | 1075 | 1080 | 1082 | 1084 | 1080 | 1088 | 1103 | 1093 | 1093 | 1094 | 1092 | 1088 | | | | | | |
| 30 | 994 | 1002 | 1003 | 1006 | 1000 | 1011 | 1031 | 1016 | 1015 | 1017 | 1014 | 1013 | | | | | | |
| 35 | 882 | 900 | 895 | 901 | 891 | 911 | 934 | 916 | 909 | 914 | 910 | 912 | | | | | | |
| 40 | 695 | 724 | 711 | 732 | 711 | 749 | 776 | 753 | 734 | 755 | 748 | 750 | | | | | | |
| 45 | 485 | 536 | 484 | 525 | 494 | 559 | 556 | 556 | 518 | 544 | 519 | 561 | | | | | | |
| 50 | 337 | 437 | 330 | 422 | 336 | 456 | 388 | 459 | 343 | 439 | 347 | 453 | | | | | | |
| 55 | 276 | 330 | 271 | 312 | 269 | 340 | 305 | 350 | 273 | 332 | 267 | 343 | | | | | | |
| 60 | 232 | 221 | 233 | 209 | 228 | 226 | 254 | 235 | 233 | 230 | 226 | 233 | | | | | | |
| 65 | 176 | 149 | 177 | 147 | 173 | 152 | 196 | 154 | 187 | 150 | 186 | 158 | | | | | | |
| 70 | 122 | 121 | 123 | 126 | 121 | 128 | 139 | 129 | 128 | 118 | 132 | 123 | | | | | | |
| 75 | 92.0 | 98.6 | 93.9 | 103 | 91.4 | 108 | 99.1 | 110 | 93.6 | 109 | 89.7 | 104 | | | | | | |
| 80 | 58.9 | 56.4 | 62.7 | 62.1 | 61.0 | 65.0 | 71.0 | 70.9 | 69.2 | 71.1 | 68.0 | 66.0 | | | | | | |
| 85 | 25.9 | 29.9 | 30.9 | 31.5 | 28.1 | 35.4 | 39.8 | 38.6 | 36.2 | 39.5 | 36.2 | 35.0 | | | | | | |
| 90 | 0.44 | 0.43 | 0.44 | 0.42 | 0.42 | 0.40 | 3.58 | 0.73 | 0.67 | 0.69 | 0.77 | 0.55 | | | | | | |
| 95 | 0.66 | 0.62 | 0.63 | 0.63 | 0.62 | 0.60 | 0.61 | 0.63 | 0.66 | 0.68 | 0.67 | 0.68 | | | | | | |
| 100 | 1.04 | 0.97 | 0.97 | 0.97 | 0.98 | 0.95 | 0.93 | 0.96 | 0.99 | 1.01 | 0.99 | 1.02 | | | | | | |
| 105 | 1.52 | 1.46 | 1.43 | 1.41 | 1.43 | 1.41 | 1.33 | 1.39 | 1.42 | 1.42 | 1.43 | 1.48 | | | | | | |
| 110 | 2.09 | 2.05 | 1.97 | 1.97 | 1.95 | 1.93 | 1.81 | 1.91 | 1.91 | 1.93 | 1.94 | 2.02 | | | | | | |
| 115 | 2.71 | 2.69 | 2.59 | 2.58 | 2.56 | 2.56 | 2.39 | 2.50 | 2.50 | 2.52 | 2.53 | 2.63 | | | | | | |
| 120 | 3.35 | 3.30 | 3.23 | 3.22 | 3.23 | 3.20 | 3.05 | 3.14 | 3.14 | 3.17 | 3.19 | 3.26 | | | | | | |
| 125 | 3.94 | 3.84 | 3.86 | 3.81 | 3.87 | 3.77 | 3.65 | 3.71 | 3.75 | 3.74 | 3.80 | 3.82 | | | | | | |
| 130 | 4.59 | 4.45 | 4.53 | 4.46 | 4.51 | 4.41 | 4.28 | 4.31 | 4.41 | 4.37 | 4.46 | 4.43 | | | | | | |
| 135 | 5.17 | 5.06 | 5.15 | 5.10 | 5.11 | 5.03 | 4.91 | 4.91 | 5.05 | 5.00 | 5.08 | 5.02 | | | | | | |
| 140 | 5.69 | 5.63 | 5.70 | 5.67 | 5.68 | 5.63 | 5.48 | 5.47 | 5.63 | 5.60 | 5.66 | 5.57 | | | | | | |
| 145 | 6.15 | 6.12 | 6.20 | 6.19 | 6.18 | 6.16 | 5.98 | 5.98 | 6.11 | 6.16 | 6.16 | 6.09 | | | | | | |
| 150 | 6.58 | 6.58 | 6.66 | 6.68 | 6.67 | 6.66 | 6.43 | 6.45 | 6.55 | 6.72 | 6.59 | 6.55 | | | | | | |
| 155 | 7.01 | 7.03 | 7.12 | 7.14 | 7.15 | 7.14 | 6.88 | 6.90 | 7.00 | 7.24 | 7.04 | 6.99 | | | | | | |
| 160 | 7.46 | 7.51 | 7.59 | 7.63 | 7.65 | 7.63 | 7.35 | 7.39 | 7.49 | 7.77 | 7.52 | 7.46 | | | | | | |
| 165 | 8.13 | 8.23 | 8.25 | 8.29 | 8.30 | 8.24 | 7.87 | 7.96 | 8.05 | 8.38 | 8.10 | 8.05 | | | | | | |
| 170 | 8.94 | 9.04 | 9.02 | 9.02 | 9.14 | 9.12 | 8.77 | 8.85 | 9.01 | 9.16 | 9.05 | 8.93 | | | | | | |
| 175 | 9.51 | 9.50 | 9.42 | 9.36 | 9.56 | 9.64 | 9.36 | 9.44 | 9.54 | 9.54 | 9.56 | 9.51 | | | | | | |
| 180 | 9.60 | 9.60 | 9.50 | 9.55 | 9.64 | 9.65 | 9.60 | 9.61 | 9.50 | 9.55 | 9.64 | 9.65 | | | | | | |

C Range: 0 - 360DEG

C Interval: 30.0DEG

Test Speed: HIGH

Temperature: 25.3℃

Operators: Mr.Ma

Test Date: 2024 8.12

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459

Humidity: 65.0%

Test Distance: 6.100m [K=1.0000]

Remarks: