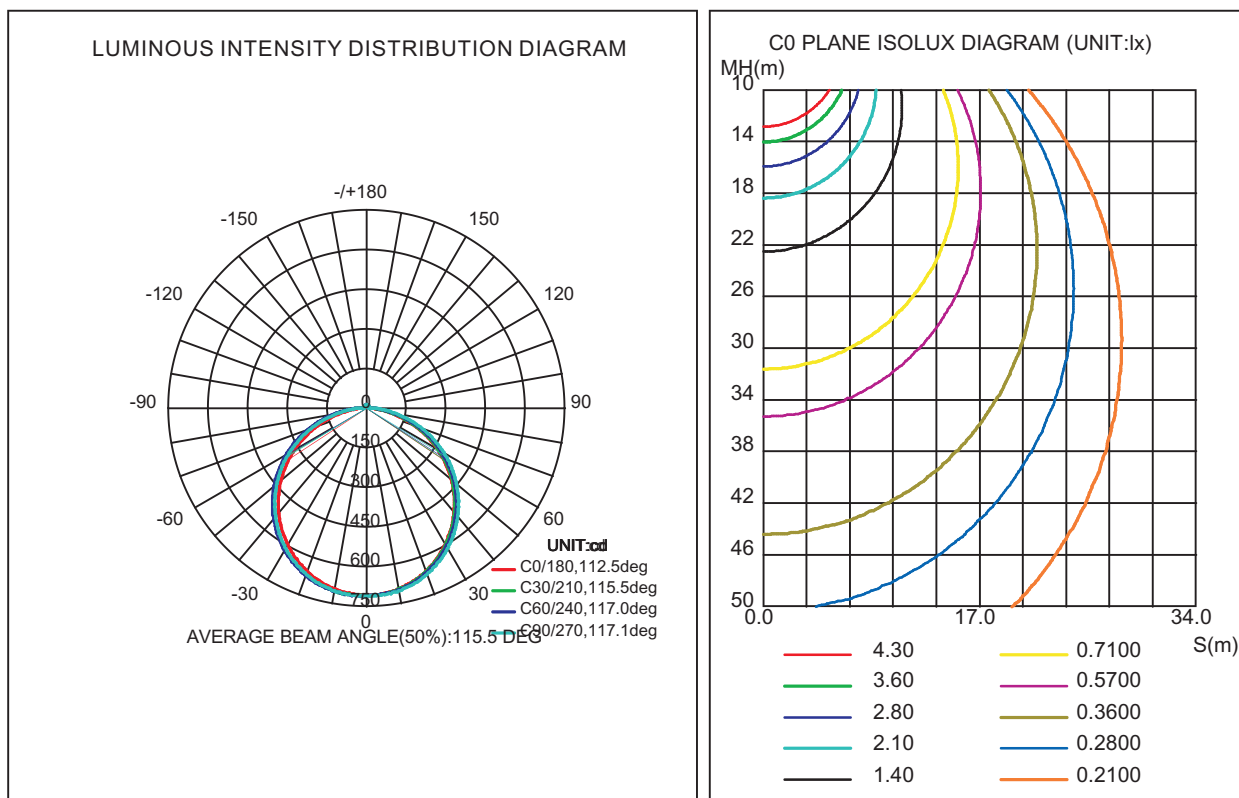


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|--|---------------------|-------------------|
| Test:U:230.0V I:0.1200A P:26.20W PF:0.9430 Lamp Flux:2211.4x1 lm | | |
| NAME: EV28W3K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: EUROTECH LIGHTING | SUR.:0.19X0.19X3.14 | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 84.40 lm/W | | | |
|------------------|---------|-------------------------------------|--------|------------------|----------|
| MODEL | EV28W3K | Imax(cd) | 712.1 | S/MH(C0/180) | 1.26 |
| NOMINAL POWER(W) | 28 | LOR(%) | 100.0 | S/MH(C90/270) | 1.29 |
| RATED VOLTAGE(V) | 230 | TOTAL FLUX(lm) | 2211.4 | hUP,DN(C0-180) | 1.7,48.3 |
| NOMINAL FLUX(lm) | 2211.4 | CIE CLASS | DIRECT | hUP,DN(C180-360) | 1.6,48.4 |
| LAMPS INSIDE | 1 | hup(%) | 3.3 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 230 | hdown(%) | 96.7 | CIBSE SHR MAX | 1.35 |



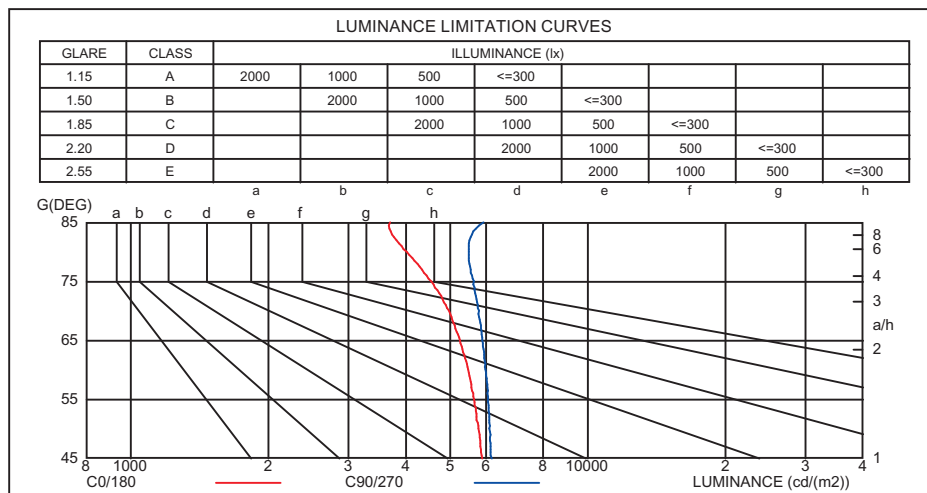
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators: 余诗诗
 Test Date:2017-10-19

gRange: 0 - 180DEG
 gInterval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.286
 Humidity:65.0%
 Test Distance:9.960m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

| g | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | g | Fzone | Ftotal | %lum.lamp |
|-----|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|--------|-----------|
| 5 | 704.5 | 706.6 | 707.8 | 709.6 | 705.0 | 709.6 | 707.8 | 706.6 | 0- 5 | 16.93 | 16.93 | 0.77,0.77 |
| 10 | 694.7 | 698.4 | 702.1 | 706.0 | 693.9 | 706.0 | 702.1 | 698.4 | 5- 10 | 50.37 | 67.30 | 3.04,3.04 |
| 15 | 678.1 | 682.5 | 690.4 | 692.9 | 678.9 | 692.9 | 690.4 | 682.5 | 10- 15 | 82.24 | 149.5 | 6.76,6.76 |
| 20 | 655.3 | 661.5 | 671.0 | 675.7 | 657.7 | 675.7 | 671.0 | 661.5 | 15- 20 | 111.5 | 261.0 | 11.8,11.8 |
| 25 | 628.5 | 635.4 | 642.4 | 652.5 | 629.3 | 652.5 | 642.4 | 635.4 | 20- 25 | 137.1 | 398.1 | 18,18 |
| 30 | 595.8 | 602.7 | 612.0 | 624.9 | 597.4 | 624.9 | 612.0 | 602.7 | 25- 30 | 158.2 | 556.3 | 25.2,25.2 |
| 35 | 557.6 | 564.9 | 578.9 | 588.5 | 561.2 | 588.5 | 578.9 | 564.9 | 30- 35 | 174.2 | 730.5 | 33,33 |
| 40 | 515.3 | 523.4 | 536.8 | 549.7 | 518.0 | 549.7 | 536.8 | 523.4 | 35- 40 | 184.5 | 915.0 | 41.4,41.4 |
| 45 | 469.3 | 478.0 | 493.6 | 506.0 | 473.8 | 506.0 | 493.6 | 478.0 | 40- 45 | 189.0 | 1104 | 49.9,49.9 |
| 50 | 418.2 | 428.0 | 444.2 | 458.8 | 424.9 | 458.8 | 444.2 | 428.0 | 45- 50 | 187.4 | 1291 | 58.4,58.4 |
| 55 | 365.3 | 375.6 | 392.9 | 408.2 | 371.0 | 408.2 | 392.9 | 375.6 | 50- 55 | 179.9 | 1471 | 66.5,66.5 |
| 60 | 308.9 | 320.8 | 338.4 | 353.8 | 316.0 | 353.8 | 338.4 | 320.8 | 55- 60 | 166.5 | 1638 | 74.1,74.1 |
| 65 | 250.9 | 261.9 | 281.6 | 297.8 | 258.3 | 297.8 | 281.6 | 261.9 | 60- 65 | 147.8 | 1786 | 80.7,80.7 |
| 70 | 191.9 | 202.9 | 223.9 | 238.1 | 199.3 | 238.1 | 223.9 | 202.9 | 65- 70 | 124.5 | 1910 | 86.4,86.4 |
| 75 | 132.7 | 144.5 | 165.2 | 179.3 | 140.4 | 179.3 | 165.2 | 144.5 | 70- 75 | 97.74 | 2008 | 90.8,90.8 |
| 80 | 78.74 | 89.85 | 108.0 | 121.4 | 85.84 | 121.4 | 108.0 | 89.85 | 75- 80 | 69.14 | 2077 | 93.9,93.9 |
| 85 | 36.39 | 44.62 | 58.50 | 68.82 | 41.44 | 68.82 | 58.50 | 44.62 | 80- 85 | 41.70 | 2119 | 95.8,95.8 |
| 90 | 13.59 | 17.76 | 24.24 | 29.60 | 15.62 | 29.60 | 24.24 | 17.76 | 85- 90 | 19.82 | 2138 | 96.7,96.7 |
| 95 | 7.794 | 9.549 | 10.55 | 11.57 | 7.850 | 11.57 | 10.55 | 9.549 | 90- 95 | 8.016 | 2146 | 97.1,97.1 |
| 100 | 7.582 | 9.098 | 9.267 | 8.987 | 7.436 | 8.987 | 9.267 | 9.098 | 95-100 | 4.799 | 2151 | 97.3,97.3 |
| 105 | 8.288 | 9.205 | 9.576 | 8.811 | 8.035 | 8.811 | 9.576 | 9.205 | 100-105 | 4.585 | 2156 | 97.5,97.5 |
| 110 | 9.230 | 9.611 | 10.45 | 9.266 | 8.859 | 9.266 | 10.45 | 9.611 | 105-110 | 4.767 | 2161 | 97.7,97.7 |
| 115 | 10.08 | 10.20 | 11.26 | 9.710 | 9.663 | 9.710 | 11.26 | 10.20 | 110-115 | 4.987 | 2166 | 97.9,97.9 |
| 120 | 10.96 | 10.93 | 11.98 | 10.39 | 10.35 | 10.39 | 11.98 | 10.93 | 115-120 | 5.136 | 2171 | 98.2,98.2 |
| 125 | 11.73 | 11.71 | 12.50 | 11.16 | 11.15 | 11.16 | 12.50 | 11.71 | 120-125 | 5.213 | 2176 | 98.4,98.4 |
| 130 | 12.42 | 12.48 | 12.91 | 11.76 | 11.86 | 11.76 | 12.91 | 12.48 | 125-130 | 5.200 | 2181 | 98.6,98.6 |
| 135 | 13.15 | 13.23 | 13.31 | 12.36 | 12.42 | 12.36 | 13.31 | 13.23 | 130-135 | 5.089 | 2186 | 98.9,98.9 |
| 140 | 13.75 | 13.78 | 13.65 | 12.91 | 12.67 | 12.91 | 13.65 | 13.78 | 135-140 | 4.871 | 2191 | 99.1,99.1 |
| 145 | 14.26 | 14.07 | 13.82 | 13.14 | 13.00 | 13.14 | 13.82 | 14.07 | 140-145 | 4.522 | 2196 | 99.3,99.3 |
| 150 | 14.56 | 14.27 | 13.97 | 13.11 | 13.22 | 13.11 | 13.97 | 14.27 | 145-150 | 4.056 | 2200 | 99.5,99.5 |
| 155 | 14.65 | 14.25 | 14.09 | 13.33 | 13.20 | 13.33 | 14.09 | 14.25 | 150-155 | 3.504 | 2203 | 99.6,99.6 |
| 160 | 14.55 | 14.10 | 14.07 | 13.25 | 12.81 | 13.25 | 14.07 | 14.10 | 155-160 | 2.897 | 2206 | 99.8,99.8 |
| 165 | 14.31 | 13.78 | 13.97 | 13.06 | 12.44 | 13.06 | 13.97 | 13.78 | 160-165 | 2.246 | 2208 | 99.9,99.9 |
| 170 | 15.28 | 14.80 | 14.58 | 14.74 | 13.99 | 14.74 | 14.58 | 14.80 | 165-170 | 1.611 | 2210 | 99.9,99.9 |
| 175 | 15.89 | 15.54 | 15.37 | 15.11 | 14.74 | 15.11 | 15.37 | 15.54 | 170-175 | 1.074 | 2211 | 100,100 |
| 180 | 16.26 | 16.10 | 16.22 | 15.74 | 15.51 | 15.74 | 16.22 | 16.10 | 175-180 | 0.3735 | 2211 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |



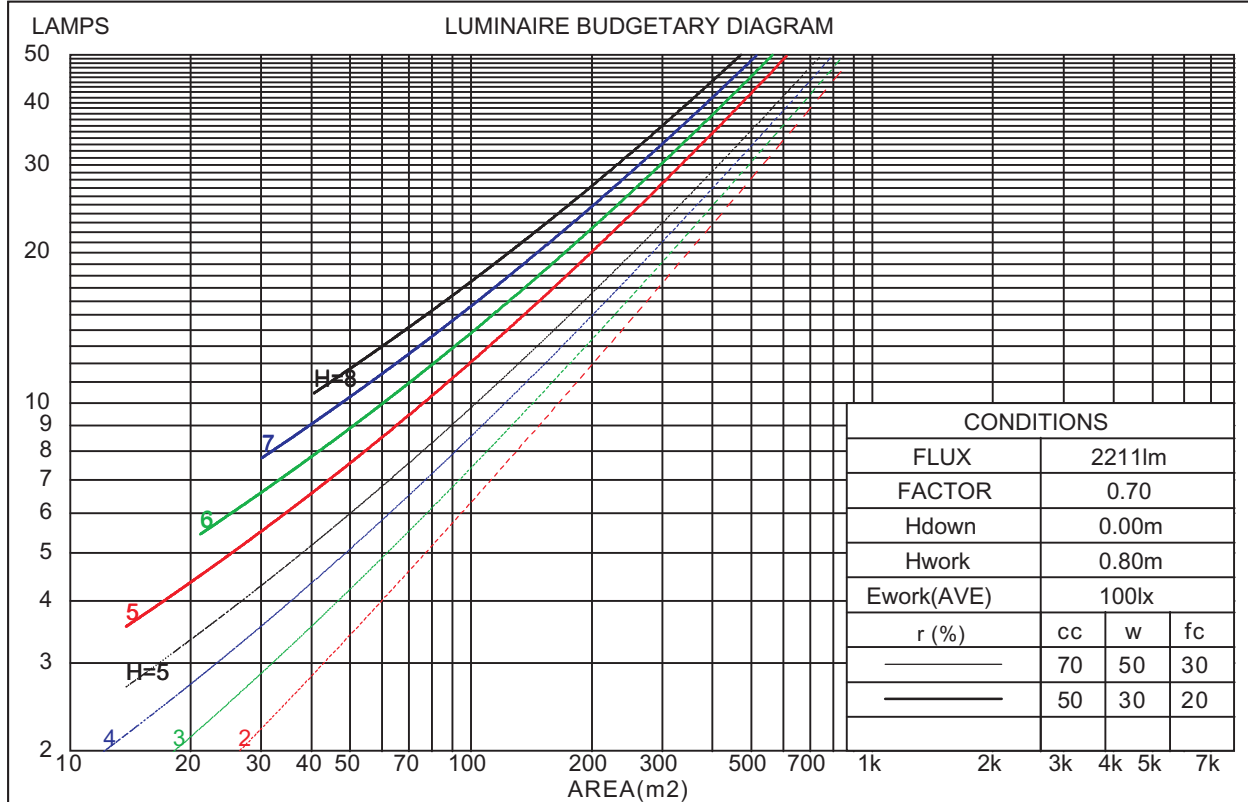
| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 3697 | 5926 |
| 80 | 4015 | 5489 |
| 75 | 4540 | 5636 |
| 70 | 4967 | 5779 |
| 65 | 5257 | 5882 |
| 60 | 5470 | 5974 |
| 55 | 5638 | 6047 |
| 50 | 5761 | 6101 |
| 45 | 5877 | 6162 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: 余诗诗
 Test Date: 2017-10-19

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.286
 Humidity: 65.0%
 Test Distance: 9.960m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | | | | | | | | | | | | | | | |
|-----------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|-----|-----|-----|-----|
| r _{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
| r _w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| r _{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 0.0 | 1.18 | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 1.09 | 1.09 | 1.09 | 1.04 | 1.04 | 1.04 | .99 | .99 | .99 | .97 |
| 1.0 | 1.02 | .98 | .94 | .90 | .96 | .92 | .95 | .92 | .88 | .90 | .88 | .85 | .86 | .84 | .82 | .80 |
| 2.0 | .89 | .82 | .76 | .87 | .80 | .75 | .83 | .77 | .72 | .79 | .74 | .70 | .75 | .71 | .68 | .66 |
| 3.0 | .78 | .69 | .63 | .76 | .68 | .62 | .72 | .66 | .60 | .69 | .64 | .59 | .66 | .61 | .57 | .55 |
| 4.0 | .69 | .60 | .53 | .67 | .59 | .52 | .64 | .57 | .51 | .61 | .55 | .50 | .59 | .54 | .49 | .47 |
| 5.0 | .61 | .52 | .45 | .60 | .51 | .45 | .57 | .50 | .44 | .55 | .48 | .43 | .53 | .47 | .43 | .40 |
| 6.0 | .55 | .46 | .39 | .54 | .45 | .39 | .52 | .44 | .38 | .50 | .43 | .38 | .48 | .42 | .37 | .35 |
| 7.0 | .50 | .41 | .35 | .49 | .40 | .34 | .47 | .39 | .34 | .45 | .39 | .33 | .44 | .38 | .33 | .31 |
| 8.0 | .45 | .37 | .31 | .45 | .36 | .31 | .43 | .36 | .30 | .41 | .35 | .30 | .40 | .34 | .30 | .28 |
| 9.0 | .42 | .33 | .28 | .41 | .33 | .28 | .39 | .32 | .27 | .38 | .32 | .27 | .37 | .31 | .27 | .25 |
| 10.0 | .38 | .30 | .25 | .38 | .30 | .25 | .36 | .30 | .25 | .35 | .29 | .24 | .34 | .28 | .24 | .22 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: 余诗诗
 Test Date: 2017-10-19

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.286
 Humidity: 65.0%
 Test Distance: 9.960m [K=1.0000]
 Remarks:

WEC AND CCEC

| rcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| rW | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| r/c | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .323 | .184 | .058 | .315 | .180 | .057 | .300 | .172 | .055 | .286 | .165 | .053 | .273 | .158 | .051 | |
| 2.0 | .300 | .164 | .050 | .293 | .161 | .050 | .279 | .155 | .048 | .267 | .150 | .047 | .255 | .144 | .045 | |
| 3.0 | .275 | .147 | .044 | .269 | .144 | .043 | .257 | .139 | .042 | .246 | .135 | .041 | .235 | .130 | .040 | |
| 4.0 | .253 | .131 | .039 | .247 | .129 | .038 | .237 | .125 | .037 | .227 | .122 | .037 | .217 | .118 | .036 | |
| 5.0 | .233 | .119 | .034 | .228 | .117 | .034 | .218 | .114 | .033 | .209 | .111 | .033 | .201 | .107 | .032 | |
| 6.0 | .216 | .108 | .031 | .211 | .107 | .031 | .202 | .104 | .030 | .194 | .101 | .030 | .187 | .098 | .029 | |
| 7.0 | .200 | .099 | .028 | .196 | .098 | .028 | .189 | .095 | .027 | .181 | .093 | .027 | .174 | .091 | .027 | |
| 8.0 | .187 | .091 | .026 | .183 | .090 | .025 | .176 | .088 | .025 | .170 | .086 | .025 | .163 | .084 | .024 | |
| 9.0 | .175 | .085 | .024 | .172 | .084 | .023 | .165 | .082 | .023 | .159 | .080 | .023 | .154 | .078 | .023 | |
| 10.0 | .164 | .079 | .022 | .161 | .078 | .022 | .156 | .076 | .021 | .150 | .075 | .021 | .145 | .073 | .021 | |

| rcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| rW | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| r/c | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .216 | .216 | .216 | .184 | .184 | .184 | .126 | .126 | .126 | .072 | .072 | .072 | .023 | .023 | .023 | |
| 1.0 | .207 | .181 | .159 | .177 | .156 | .137 | .121 | .107 | .094 | .070 | .062 | .055 | .022 | .020 | .018 | |
| 2.0 | .199 | .157 | .123 | .170 | .135 | .106 | .117 | .094 | .074 | .067 | .055 | .043 | .022 | .018 | .014 | |
| 3.0 | .191 | .140 | .099 | .164 | .121 | .086 | .113 | .084 | .060 | .065 | .049 | .036 | .021 | .016 | .012 | |
| 4.0 | .184 | .127 | .084 | .157 | .110 | .073 | .108 | .076 | .051 | .063 | .045 | .030 | .020 | .015 | .010 | |
| 5.0 | .176 | .117 | .073 | .151 | .101 | .063 | .104 | .070 | .045 | .060 | .041 | .026 | .019 | .013 | .009 | |
| 6.0 | .169 | .108 | .065 | .145 | .094 | .056 | .100 | .066 | .040 | .058 | .039 | .024 | .019 | .013 | .008 | |
| 7.0 | .162 | .101 | .059 | .139 | .088 | .051 | .096 | .062 | .036 | .056 | .036 | .022 | .018 | .012 | .007 | |
| 8.0 | .155 | .096 | .055 | .134 | .083 | .048 | .093 | .058 | .034 | .054 | .034 | .020 | .017 | .011 | .007 | |
| 9.0 | .149 | .091 | .051 | .129 | .079 | .045 | .089 | .055 | .032 | .052 | .033 | .019 | .017 | .011 | .006 | |
| 10.0 | .144 | .086 | .048 | .124 | .075 | .042 | .086 | .053 | .030 | .050 | .031 | .018 | .016 | .010 | .006 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators: 余诗诗
 Test Date:2017-10-19

gRange: 0 - 180DEG
 gInterval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.286
 Humidity:65.0%
 Test Distance:9.960m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|--|------------------|------|------|------|------|----------------|------|------|------|------|
| 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 | 18.6 | 20.1 | 18.9 | 20.3 | 20.6 | 18.9 | 20.4 | 19.2 | 20.7 | 20.9 |
| 3H | 20.1 | 21.4 | 20.4 | 21.7 | 22.0 | 20.6 | 21.9 | 20.9 | 22.2 | 22.5 |
| 4H | 20.6 | 22.0 | 21.0 | 22.3 | 22.6 | 21.3 | 22.6 | 21.6 | 22.9 | 23.2 |
| 6H | 21.0 | 22.3 | 21.4 | 22.6 | 23.0 | 21.8 | 23.1 | 22.2 | 23.4 | 23.8 |
| 8H | 21.2 | 22.4 | 21.6 | 22.7 | 23.1 | 22.1 | 23.3 | 22.5 | 23.6 | 24.0 |
| 12H | 21.2 | 22.4 | 21.6 | 22.8 | 23.1 | 22.3 | 23.4 | 22.7 | 23.8 | 24.1 |
| 4 H 2H | 19.2 | 20.5 | 19.6 | 20.8 | 21.2 | 19.5 | 20.8 | 19.8 | 21.1 | 21.4 |
| 3H | 20.9 | 22.0 | 21.3 | 22.4 | 22.8 | 21.3 | 22.5 | 21.7 | 22.8 | 23.2 |
| 4H | 21.6 | 22.6 | 22.0 | 23.0 | 23.4 | 22.1 | 23.2 | 22.6 | 23.6 | 24.0 |
| 6H | 22.1 | 23.0 | 22.6 | 23.5 | 23.9 | 22.9 | 23.8 | 23.3 | 24.2 | 24.6 |
| 8H | 22.3 | 23.2 | 22.8 | 23.6 | 24.0 | 23.1 | 24.0 | 23.6 | 24.4 | 24.9 |
| 12H | 22.4 | 23.2 | 22.9 | 23.7 | 24.1 | 23.4 | 24.2 | 23.9 | 24.6 | 25.1 |
| 8 H 4H | 21.9 | 22.8 | 22.3 | 23.2 | 23.6 | 22.4 | 23.3 | 22.8 | 23.7 | 24.1 |
| 6H | 22.6 | 23.3 | 23.1 | 23.8 | 24.3 | 23.3 | 24.0 | 23.7 | 24.4 | 24.9 |
| 8H | 22.8 | 23.5 | 23.3 | 24.0 | 24.5 | 23.6 | 24.3 | 24.2 | 24.8 | 25.3 |
| 12H | 23.0 | 23.6 | 23.6 | 24.1 | 24.7 | 24.0 | 24.6 | 24.5 | 25.1 | 25.6 |
| 12 H 4H | 21.9 | 22.7 | 22.4 | 23.2 | 23.6 | 22.4 | 23.2 | 22.9 | 23.6 | 24.1 |
| 6H | 22.6 | 23.3 | 23.2 | 23.8 | 24.3 | 23.3 | 23.9 | 23.8 | 24.4 | 25.0 |
| 8H | 23.0 | 23.5 | 23.5 | 24.0 | 24.6 | 23.7 | 24.3 | 24.3 | 24.8 | 25.3 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.2 / - 0.2 | | | | | + 0.1 / - 0.2 | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |
| 2.0H | + 0.2 / - 0.3 | | | | | + 0.1 / - 0.3 | | | | |

CIE Pub.117 Corrected 2211 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.8)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators: 余诗诗
 Test Date:2017-10-19

gRange: 0 - 180DEG
 gInterval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.286
 Humidity:65.0%
 Test Distance:9.960m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| 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 | 56 | 44 | 37 | 55 | 44 | 37 | 53 | 43 | 36 | 30 | |
| 0.80 | 66 | 54 | 46 | 64 | 53 | 46 | 62 | 52 | 45 | 38 | |
| 1.00 | 74 | 62 | 55 | 72 | 62 | 55 | 70 | 63 | 54 | 46 | |
| 1.25 | 81 | 70 | 63 | 79 | 69 | 62 | 76 | 67 | 61 | 53 | |
| 1.50 | 86 | 76 | 68 | 84 | 75 | 68 | 81 | 73 | 66 | 58 | |
| 2.00 | 93 | 84 | 77 | 91 | 83 | 76 | 87 | 80 | 74 | 66 | |
| 2.50 | 97 | 89 | 82 | 95 | 87 | 81 | 90 | 84 | 79 | 70 | |
| 3.00 | 100 | 93 | 87 | 98 | 91 | 86 | 93 | 88 | 83 | 74 | |
| 4.00 | 105 | 99 | 94 | 102 | 96 | 92 | 97 | 93 | 89 | 79 | |
| 5.00 | 107 | 102 | 98 | 104 | 100 | 96 | 99 | 96 | 92 | 82 | |
| 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: MEDIUM
 Temperature: 25.3DEG
 Operators: 余诗诗
 Test Date: 2017-10-19

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.286
 Humidity: 65.0%
 Test Distance: 9.960m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Conical surface Flux(90deg):

1104 lm

%lum = 49.9%

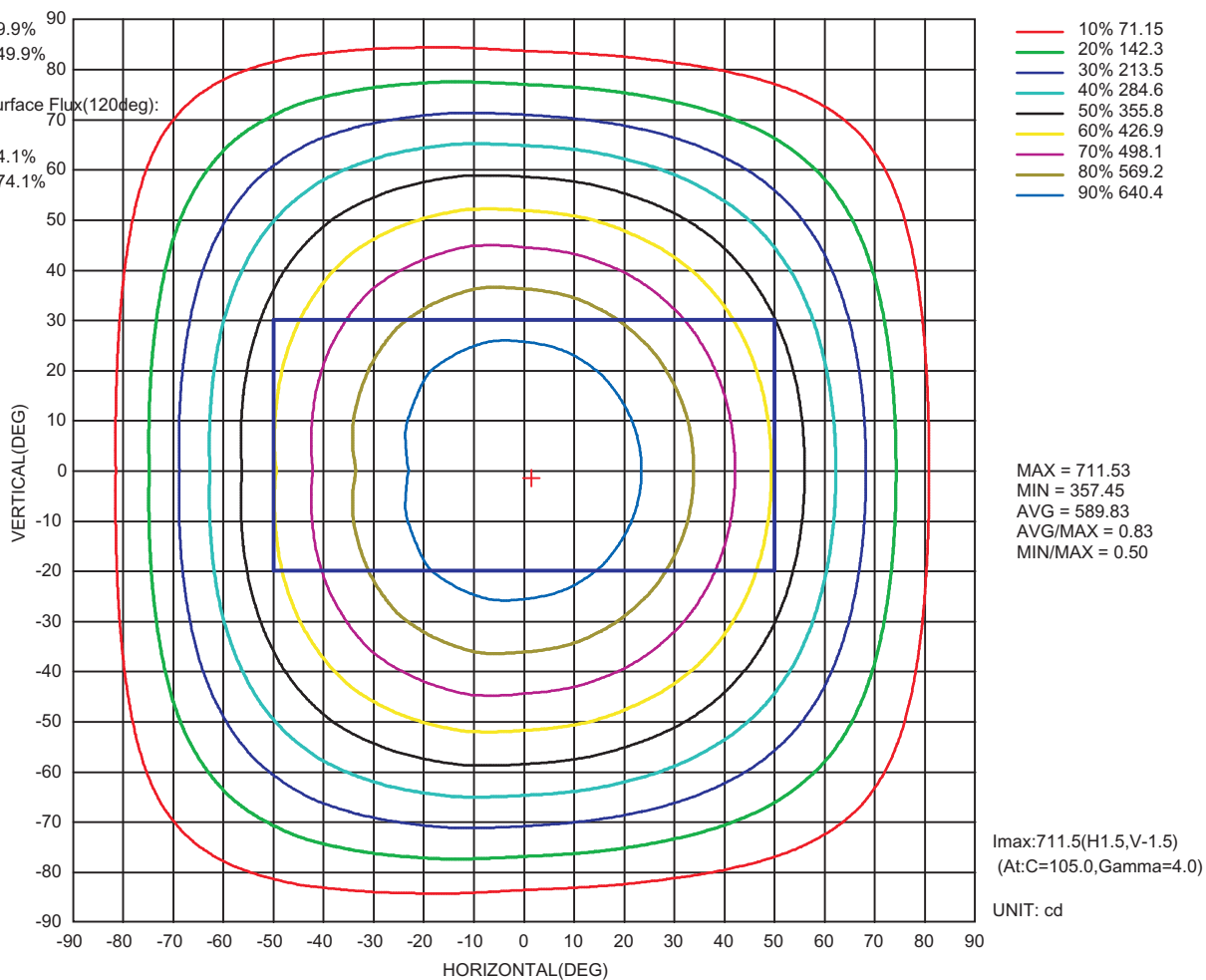
%lamp = 49.9%

Conical surface Flux(120deg):

1637.8 lm

%lum = 74.1%

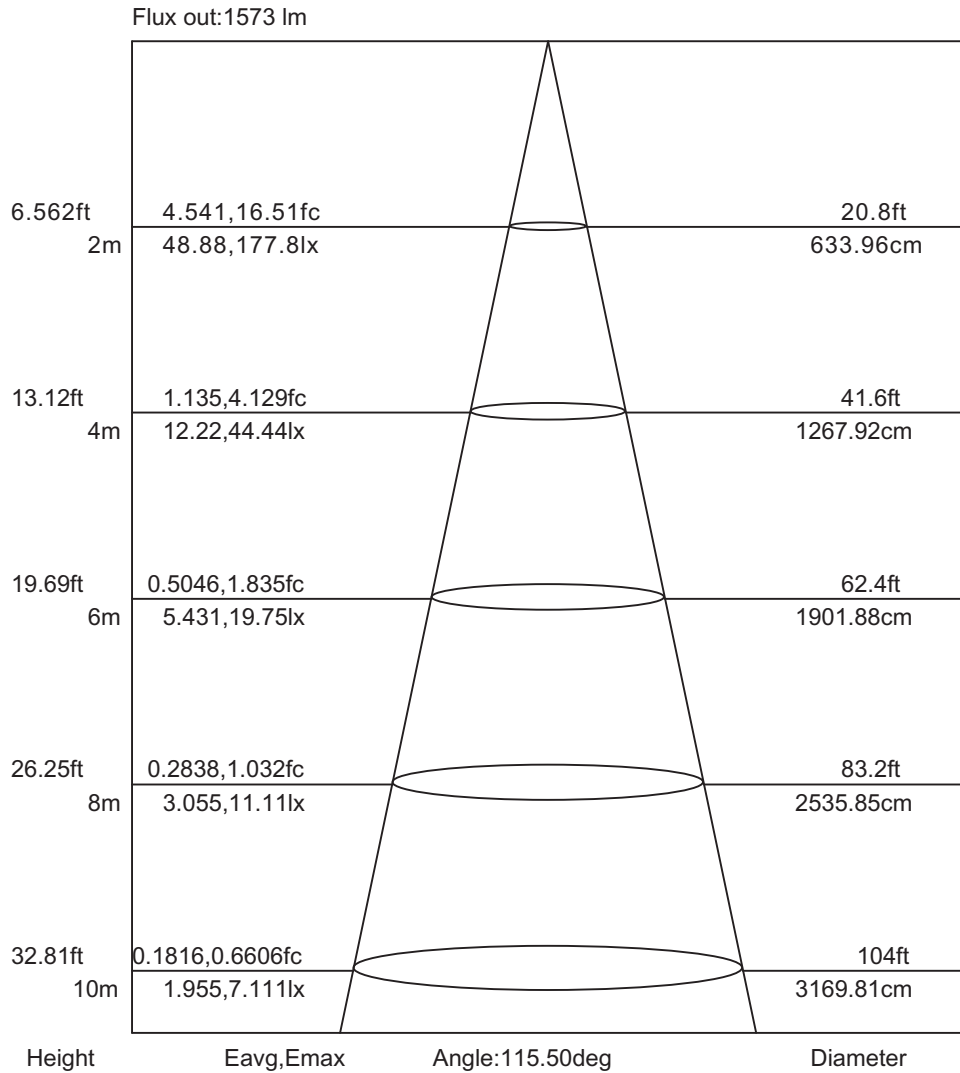
%lamp = 74.1%



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators: 余诗诗
 Test Date:2017-10-19

gRange: 0 - 180DEG
 gInterval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.286
 Humidity:65.0%
 Test Distance:9.960m [K=1.0000]
 Remarks:

AAI Figure

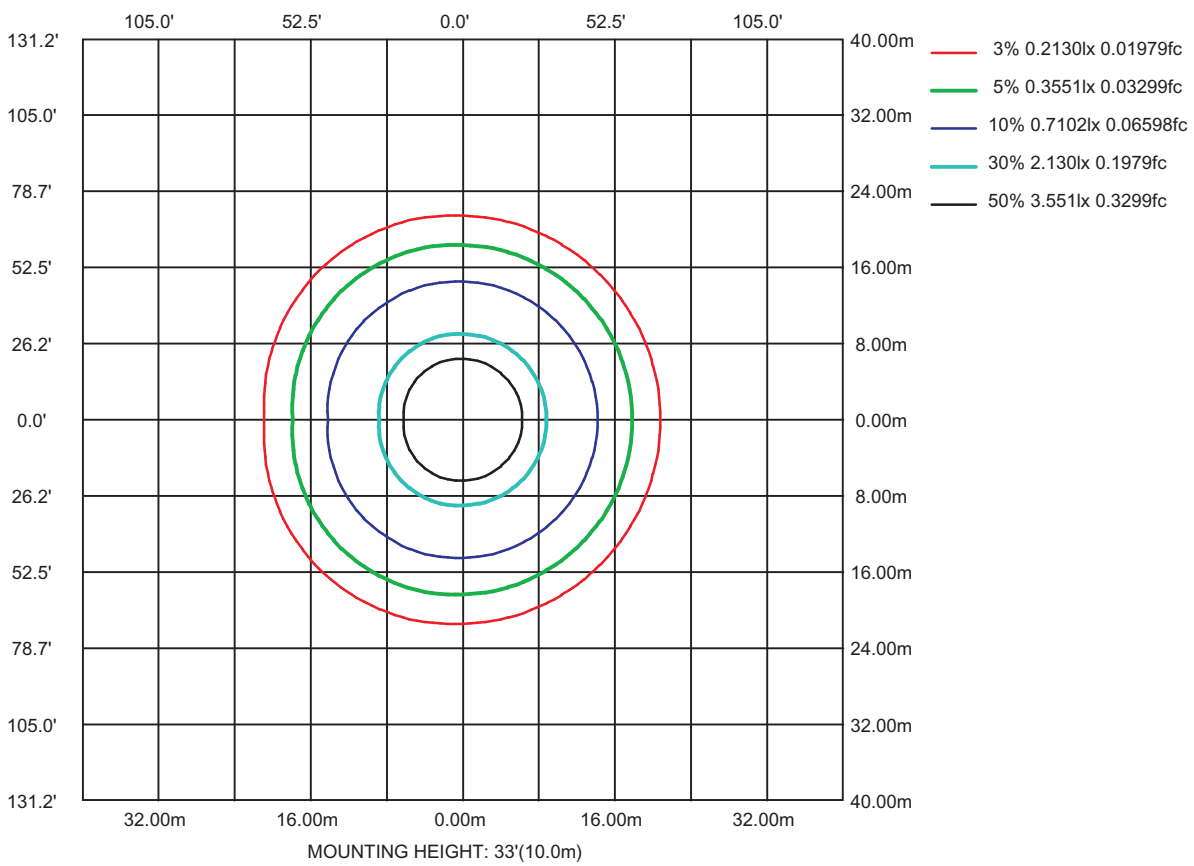


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: 余诗诗
 Test Date: 2017-10-19

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.286
 Humidity: 65.0%
 Test Distance: 9.960m [K=1.0000]
 Remarks:

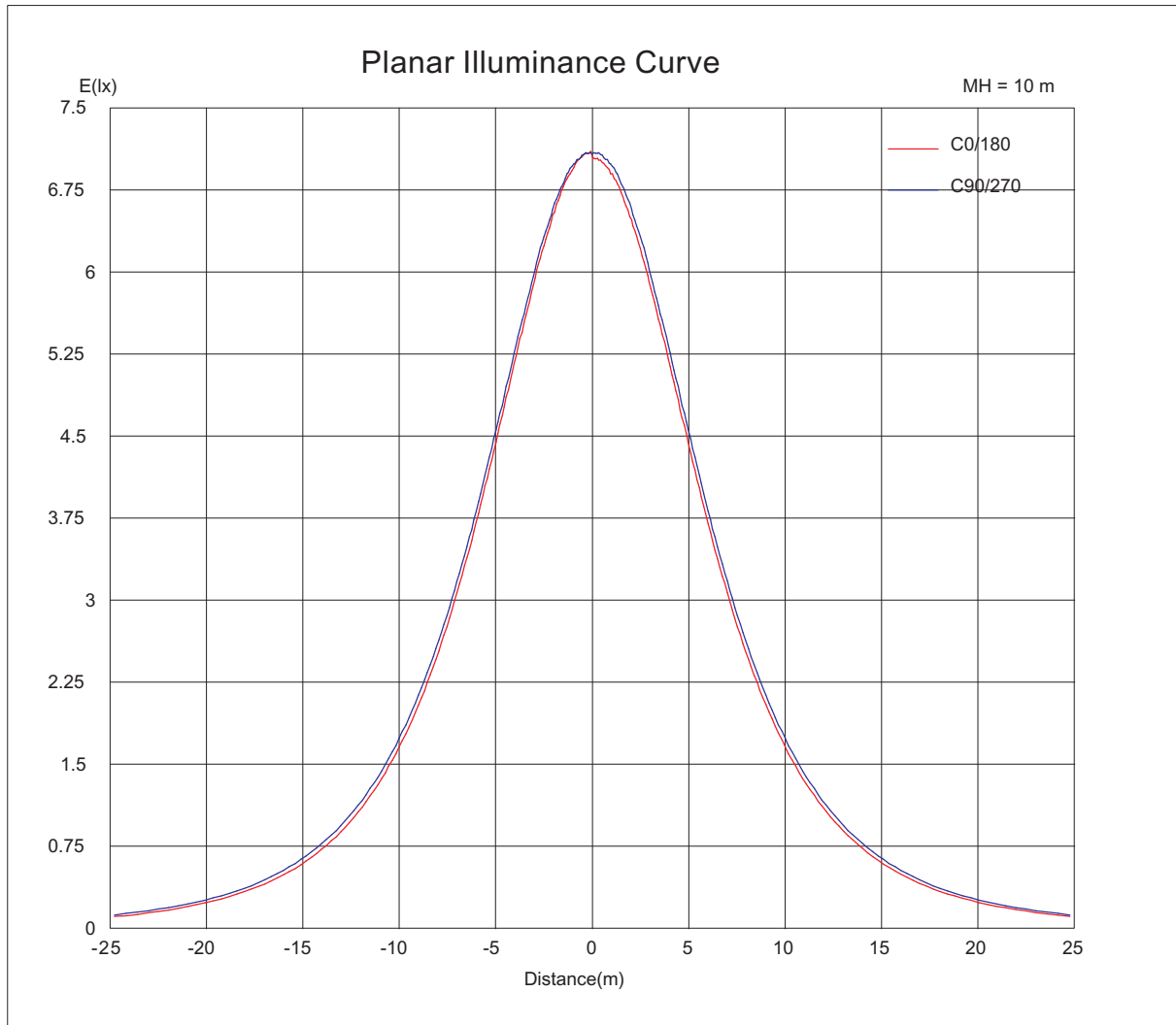
ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: 余诗诗
 Test Date: 2017-10-19

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.286
 Humidity: 65.0%
 Test Distance: 9.960m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: 余诗诗
Test Date: 2017-10-19

g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.286
Humidity: 65.0%
Test Distance: 9.960m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

| C(DEG) g(DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 708 | 708 | 708 | 708 | 708 | 708 | 708 | 708 | 708 | 708 | 708 | 708 | 708 | 708 | 708 | 708 | 708 | 708 | 708 |
| 5 | 704 | 705 | 706 | 707 | 706 | 707 | 708 | 710 | 709 | 710 | 707 | 706 | 705 | 706 | 707 | 710 | 709 | 710 | 708 |
| 10 | 695 | 694 | 695 | 698 | 697 | 702 | 702 | 706 | 703 | 706 | 703 | 699 | 694 | 699 | 703 | 706 | 703 | 706 | 702 |
| 15 | 678 | 679 | 679 | 683 | 683 | 685 | 690 | 693 | 692 | 693 | 691 | 684 | 679 | 684 | 691 | 693 | 692 | 693 | 690 |
| 20 | 655 | 656 | 658 | 661 | 662 | 665 | 671 | 675 | 675 | 676 | 672 | 666 | 658 | 666 | 672 | 676 | 675 | 675 | 671 |
| 25 | 628 | 630 | 632 | 635 | 637 | 639 | 642 | 651 | 650 | 652 | 646 | 641 | 629 | 641 | 646 | 652 | 650 | 651 | 642 |
| 30 | 596 | 597 | 599 | 603 | 604 | 609 | 612 | 624 | 622 | 625 | 616 | 609 | 597 | 609 | 616 | 625 | 622 | 624 | 612 |
| 35 | 558 | 559 | 561 | 565 | 568 | 572 | 579 | 589 | 587 | 589 | 583 | 574 | 561 | 574 | 583 | 589 | 587 | 589 | 579 |
| 40 | 515 | 516 | 519 | 523 | 527 | 531 | 537 | 548 | 549 | 550 | 543 | 532 | 518 | 532 | 543 | 550 | 549 | 548 | 537 |
| 45 | 469 | 472 | 473 | 478 | 481 | 487 | 494 | 506 | 505 | 506 | 498 | 488 | 474 | 488 | 498 | 506 | 505 | 506 | 494 |
| 50 | 418 | 422 | 423 | 428 | 433 | 439 | 444 | 457 | 459 | 459 | 451 | 439 | 425 | 439 | 451 | 459 | 459 | 457 | 444 |
| 55 | 365 | 368 | 370 | 376 | 380 | 388 | 393 | 405 | 407 | 408 | 400 | 388 | 371 | 388 | 400 | 408 | 407 | 405 | 393 |
| 60 | 309 | 312 | 315 | 321 | 325 | 332 | 338 | 352 | 354 | 354 | 345 | 333 | 316 | 333 | 345 | 354 | 354 | 352 | 338 |
| 65 | 251 | 253 | 256 | 262 | 268 | 275 | 282 | 294 | 297 | 298 | 288 | 276 | 258 | 276 | 288 | 298 | 297 | 294 | 282 |
| 70 | 192 | 194 | 197 | 203 | 209 | 216 | 224 | 235 | 239 | 238 | 230 | 216 | 199 | 216 | 230 | 238 | 239 | 235 | 224 |
| 75 | 133 | 136 | 139 | 144 | 151 | 158 | 165 | 176 | 180 | 179 | 171 | 158 | 140 | 158 | 171 | 179 | 180 | 176 | 165 |
| 80 | 78.7 | 81.7 | 84.5 | 89.9 | 95.6 | 102 | 108 | 119 | 122 | 121 | 113 | 101 | 85.8 | 101 | 113 | 121 | 122 | 119 | 108 |
| 85 | 36.4 | 38.7 | 40.9 | 44.6 | 49.0 | 54.1 | 58.5 | 67.1 | 69.6 | 68.8 | 62.3 | 52.9 | 41.4 | 52.9 | 62.3 | 68.8 | 69.6 | 67.1 | 58.5 |
| 90 | 13.6 | 15.0 | 16.2 | 17.8 | 19.7 | 22.1 | 24.2 | 28.7 | 30.1 | 29.6 | 25.7 | 20.8 | 15.6 | 20.8 | 25.7 | 29.6 | 30.1 | 28.7 | 24.2 |
| 95 | 7.79 | 7.85 | 9.25 | 9.55 | 9.79 | 10.1 | 10.5 | 11.5 | 11.8 | 11.6 | 10.6 | 9.10 | 7.85 | 9.10 | 10.6 | 11.6 | 11.8 | 11.5 | 10.5 |
| 100 | 7.58 | 7.16 | 8.35 | 9.10 | 9.12 | 9.21 | 9.27 | 9.17 | 9.06 | 8.99 | 8.38 | 6.77 | 7.44 | 6.77 | 8.38 | 8.99 | 9.06 | 9.17 | 9.27 |
| 105 | 8.29 | 7.94 | 8.23 | 9.21 | 9.56 | 9.60 | 9.58 | 9.39 | 9.19 | 8.81 | 7.93 | 7.52 | 8.04 | 7.52 | 7.93 | 8.81 | 9.19 | 9.39 | 9.58 |
| 110 | 9.23 | 8.87 | 8.97 | 9.61 | 10.2 | 10.5 | 10.4 | 10.2 | 9.89 | 9.27 | 8.31 | 8.46 | 8.86 | 8.46 | 8.31 | 9.27 | 9.89 | 10.2 | 10.4 |
| 115 | 10.1 | 9.79 | 9.84 | 10.2 | 10.8 | 11.2 | 11.3 | 11.0 | 10.5 | 9.71 | 9.10 | 9.27 | 9.66 | 9.27 | 9.10 | 9.71 | 10.5 | 11.0 | 11.3 |
| 120 | 11.0 | 10.7 | 10.7 | 10.9 | 11.4 | 11.8 | 12.0 | 11.6 | 11.0 | 10.4 | 9.93 | 9.99 | 10.3 | 9.99 | 9.93 | 10.4 | 11.0 | 11.6 | 12.0 |
| 125 | 11.7 | 11.5 | 11.5 | 11.7 | 12.0 | 12.3 | 12.5 | 12.1 | 11.6 | 11.2 | 10.7 | 10.8 | 11.2 | 10.8 | 10.7 | 11.2 | 11.6 | 12.1 | 12.5 |
| 130 | 12.4 | 12.3 | 12.3 | 12.5 | 12.7 | 12.9 | 12.9 | 12.7 | 12.2 | 11.8 | 11.5 | 11.6 | 11.9 | 11.6 | 11.5 | 11.8 | 12.2 | 12.7 | 12.9 |
| 135 | 13.2 | 13.1 | 13.1 | 13.2 | 13.3 | 13.4 | 13.3 | 13.1 | 12.8 | 12.4 | 12.2 | 12.1 | 12.4 | 12.1 | 12.2 | 12.4 | 12.8 | 13.1 | 13.3 |
| 140 | 13.8 | 13.7 | 13.8 | 13.8 | 13.8 | 13.7 | 13.7 | 13.5 | 13.3 | 12.9 | 12.7 | 12.6 | 12.7 | 12.6 | 12.7 | 12.9 | 13.3 | 13.5 | 13.7 |
| 145 | 14.3 | 14.3 | 14.2 | 14.1 | 14.1 | 14.0 | 13.8 | 13.9 | 13.6 | 13.1 | 12.9 | 12.9 | 13.0 | 12.9 | 12.9 | 13.1 | 13.6 | 13.9 | 13.8 |
| 150 | 14.6 | 14.5 | 14.3 | 14.3 | 14.2 | 14.0 | 14.0 | 14.1 | 13.8 | 13.1 | 12.6 | 13.1 | 13.2 | 13.1 | 12.6 | 13.1 | 13.8 | 14.1 | 14.0 |
| 155 | 14.7 | 14.6 | 14.4 | 14.3 | 14.1 | 14.0 | 14.1 | 14.0 | 13.8 | 13.3 | 12.8 | 13.0 | 13.2 | 13.0 | 12.8 | 13.3 | 13.8 | 14.0 | 14.1 |
| 160 | 14.6 | 14.6 | 14.3 | 14.1 | 14.0 | 13.8 | 14.1 | 13.9 | 13.6 | 13.3 | 12.9 | 12.7 | 12.8 | 12.7 | 12.9 | 13.3 | 13.6 | 13.9 | 14.1 |
| 165 | 14.3 | 14.3 | 13.9 | 13.8 | 13.6 | 13.4 | 14.0 | 13.6 | 13.4 | 13.1 | 12.7 | 12.7 | 12.4 | 12.7 | 12.7 | 13.1 | 13.4 | 13.6 | 14.0 |
| 170 | 15.3 | 15.2 | 15.0 | 14.8 | 14.6 | 14.7 | 14.6 | 14.9 | 14.7 | 14.7 | 14.1 | 14.0 | 14.0 | 14.0 | 14.1 | 14.7 | 14.7 | 14.9 | 14.6 |
| 175 | 15.9 | 15.8 | 15.6 | 15.5 | 15.5 | 15.7 | 15.4 | 15.8 | 15.7 | 15.1 | 14.9 | 14.8 | 14.7 | 14.8 | 14.9 | 15.1 | 15.7 | 15.8 | 15.4 |
| 180 | 16.3 | 16.2 | 16.1 | 16.1 | 16.0 | 16.5 | 16.2 | 16.3 | 15.7 | 15.7 | 15.6 | 15.6 | 15.5 | 15.6 | 15.6 | 15.7 | 15.7 | 16.3 | 16.2 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: 余诗诗
 Test Date: 2017-10-19

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.286
 Humidity: 65.0%
 Test Distance: 9.960m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd

| C(DEG) g(DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 708 | 708 | 708 | 708 | 708 | | | | | | | | | | | | | | |
| 5 | 707 | 706 | 707 | 706 | 705 | | | | | | | | | | | | | | |
| 10 | 702 | 697 | 698 | 695 | 694 | | | | | | | | | | | | | | |
| 15 | 685 | 683 | 683 | 679 | 679 | | | | | | | | | | | | | | |
| 20 | 665 | 662 | 661 | 658 | 656 | | | | | | | | | | | | | | |
| 25 | 639 | 637 | 635 | 632 | 630 | | | | | | | | | | | | | | |
| 30 | 609 | 604 | 603 | 599 | 597 | | | | | | | | | | | | | | |
| 35 | 572 | 568 | 565 | 561 | 559 | | | | | | | | | | | | | | |
| 40 | 531 | 527 | 523 | 519 | 516 | | | | | | | | | | | | | | |
| 45 | 487 | 481 | 478 | 473 | 472 | | | | | | | | | | | | | | |
| 50 | 439 | 433 | 428 | 423 | 422 | | | | | | | | | | | | | | |
| 55 | 388 | 380 | 376 | 370 | 368 | | | | | | | | | | | | | | |
| 60 | 332 | 325 | 321 | 315 | 312 | | | | | | | | | | | | | | |
| 65 | 275 | 268 | 262 | 256 | 253 | | | | | | | | | | | | | | |
| 70 | 216 | 209 | 203 | 197 | 194 | | | | | | | | | | | | | | |
| 75 | 158 | 151 | 144 | 139 | 136 | | | | | | | | | | | | | | |
| 80 | 102 | 95.6 | 89.9 | 84.5 | 81.7 | | | | | | | | | | | | | | |
| 85 | 54.1 | 49.0 | 44.6 | 40.9 | 38.7 | | | | | | | | | | | | | | |
| 90 | 22.1 | 19.7 | 17.8 | 16.2 | 15.0 | | | | | | | | | | | | | | |
| 95 | 10.1 | 9.79 | 9.55 | 9.25 | 7.85 | | | | | | | | | | | | | | |
| 100 | 9.21 | 9.12 | 9.10 | 8.35 | 7.16 | | | | | | | | | | | | | | |
| 105 | 9.60 | 9.56 | 9.21 | 8.23 | 7.94 | | | | | | | | | | | | | | |
| 110 | 10.5 | 10.2 | 9.61 | 8.97 | 8.87 | | | | | | | | | | | | | | |
| 115 | 11.2 | 10.8 | 10.2 | 9.84 | 9.79 | | | | | | | | | | | | | | |
| 120 | 11.8 | 11.4 | 10.9 | 10.7 | 10.7 | | | | | | | | | | | | | | |
| 125 | 12.3 | 12.0 | 11.7 | 11.5 | 11.5 | | | | | | | | | | | | | | |
| 130 | 12.9 | 12.7 | 12.5 | 12.3 | 12.3 | | | | | | | | | | | | | | |
| 135 | 13.4 | 13.3 | 13.2 | 13.1 | 13.1 | | | | | | | | | | | | | | |
| 140 | 13.7 | 13.8 | 13.8 | 13.8 | 13.7 | | | | | | | | | | | | | | |
| 145 | 14.0 | 14.1 | 14.1 | 14.2 | 14.3 | | | | | | | | | | | | | | |
| 150 | 14.0 | 14.2 | 14.3 | 14.3 | 14.5 | | | | | | | | | | | | | | |
| 155 | 14.0 | 14.1 | 14.3 | 14.4 | 14.6 | | | | | | | | | | | | | | |
| 160 | 13.8 | 14.0 | 14.1 | 14.3 | 14.6 | | | | | | | | | | | | | | |
| 165 | 13.4 | 13.6 | 13.8 | 13.9 | 14.3 | | | | | | | | | | | | | | |
| 170 | 14.7 | 14.6 | 14.8 | 15.0 | 15.2 | | | | | | | | | | | | | | |
| 175 | 15.7 | 15.5 | 15.5 | 15.6 | 15.8 | | | | | | | | | | | | | | |
| 180 | 16.5 | 16.0 | 16.1 | 16.1 | 16.2 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: 余诗诗
 Test Date: 2017-10-19

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.286
 Humidity: 65.0%
 Test Distance: 9.960m [K=1.0000]
 Remarks: