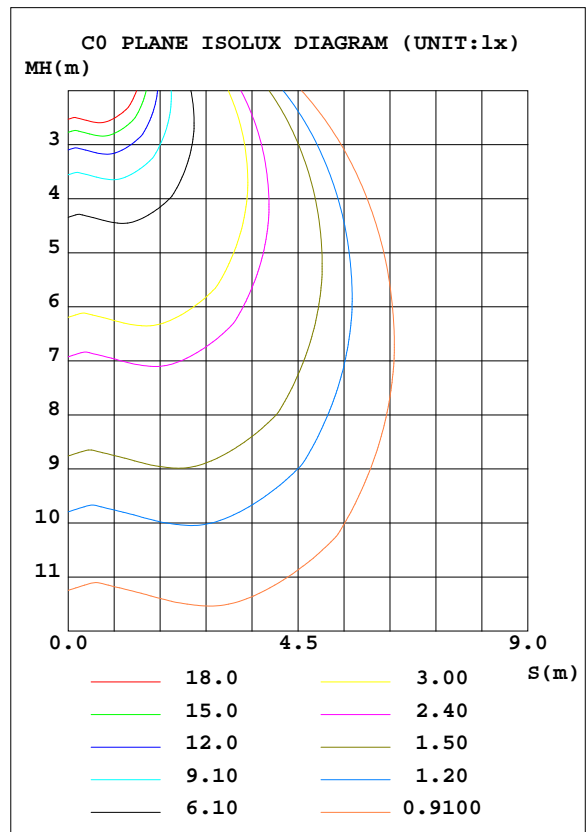
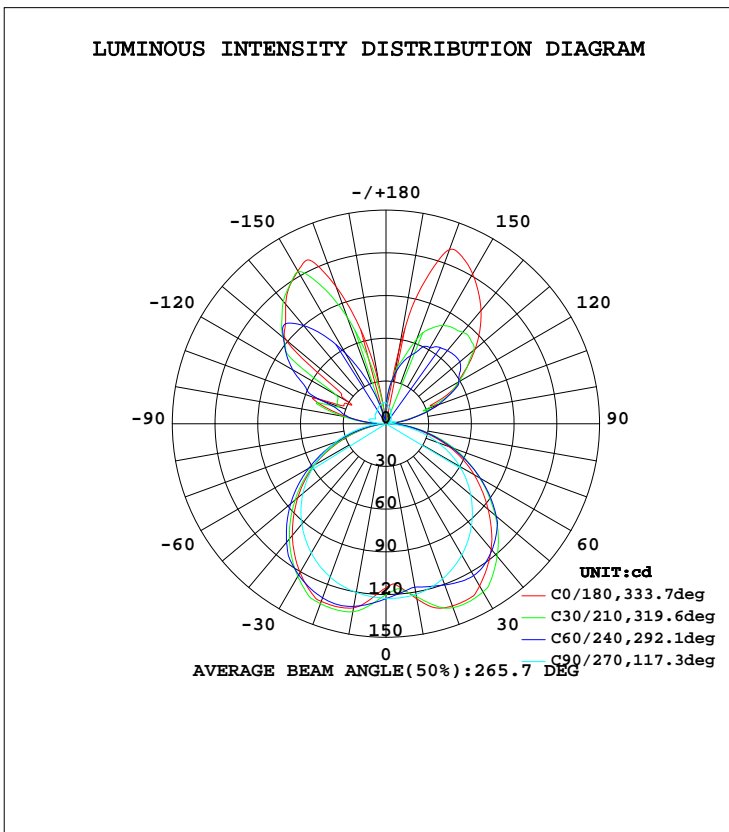


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|--|-----------------|---------------------------|
| Test:U:120.3V I:0.2005A P:23.99W PF:0.9945 Lamp Flux:721.46x1 lm | | |
| NAME: ECHP4830LAJMVWH | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.:202000611A0001 |
| MFR.: AFX | SUR.:1.1*0.05*2 | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 30.07 lm/W | | | |
|------------------|-----------------|----------------------------------|---------|--------------------|-----------|
| MODEL | ECHP4830LAJMVWH | I _{max} (cd) | 138.2 | S/MH(C0/180) | 1.57 |
| NOMINAL POWER(W) | 24 | LOR(%) | 100.0 | S/MH(C90/270) | 1.29 |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 721.46 | η UP, DN(C0-180) | 20.3,29.3 |
| NOMINAL FLUX(lm) | 721.46 | CIE CLASS | DIFFUSE | η UP, DN(C180-360) | 21.7,28.8 |
| LAMPS INSIDE | 1 | η up(%) | 42.0 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE(V) | 120.3 | η down(%) | 58.0 | CIBSE SHR MAX | 1.55 |



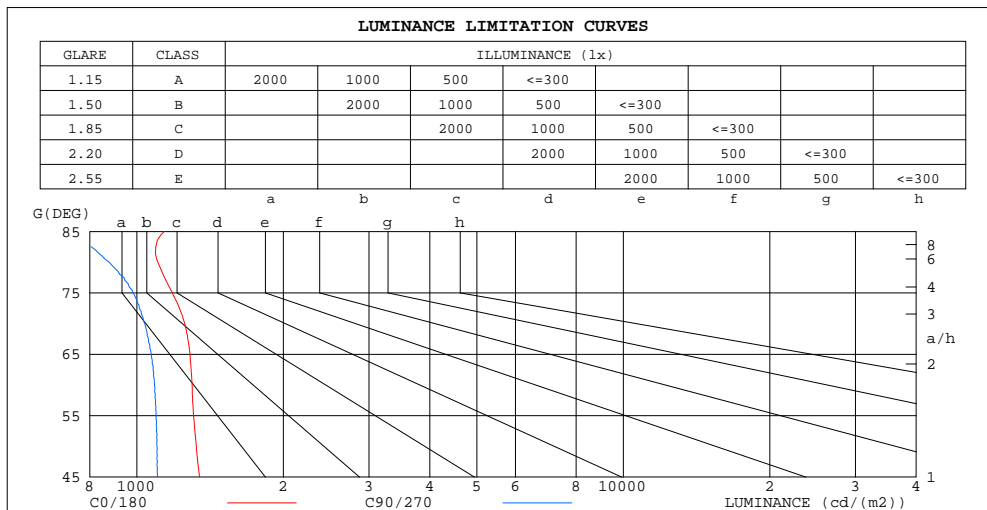
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2020-06-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | lum, lamp |
|-----|---|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|-----------|
| 5 | 115.3 | 117.8 | 122.6 | 123.3 | 123.6 | 128.1 | 121.8 | 111.9 | 0- 5 | 2.858 | 2.858 | 0.40,0.40 |
| 10 | 124.9 | 120.4 | 121.7 | 128.4 | 131.2 | 133.2 | 120.3 | 114.1 | 5- 10 | 8.747 | 11.61 | 1.61,1.61 |
| 15 | 133.8 | 126.0 | 119.3 | 129.8 | 133.0 | 134.4 | 117.9 | 120.0 | 10- 15 | 14.87 | 26.48 | 3.67,3.67 |
| 20 | 136.2 | 131.4 | 116.0 | 129.3 | 132.8 | 133.0 | 114.6 | 126.4 | 15- 20 | 20.95 | 47.43 | 6.57,6.57 |
| 25 | 136.0 | 133.5 | 111.6 | 127.7 | 128.2 | 130.4 | 110.2 | 129.3 | 20- 25 | 26.59 | 74.02 | 10.3,10.3 |
| 30 | 131.5 | 132.0 | 106.5 | 122.7 | 120.7 | 125.0 | 104.8 | 128.6 | 25- 30 | 31.39 | 105.4 | 14.6,14.6 |
| 35 | 123.7 | 128.6 | 100.3 | 115.3 | 112.0 | 116.5 | 98.77 | 125.9 | 30- 35 | 35.07 | 140.5 | 19.5,19.5 |
| 40 | 114.9 | 121.9 | 93.41 | 106.7 | 102.3 | 107.0 | 91.91 | 119.7 | 35- 40 | 37.47 | 178.0 | 24.7,24.7 |
| 45 | 104.7 | 112.2 | 85.78 | 96.79 | 91.71 | 96.62 | 84.42 | 110.4 | 40- 45 | 38.52 | 216.5 | 30,30 |
| 50 | 93.68 | 101.2 | 77.79 | 85.51 | 80.87 | 85.16 | 76.15 | 99.72 | 45- 50 | 38.17 | 254.6 | 35.3,35.3 |
| 55 | 82.50 | 89.06 | 69.11 | 73.27 | 69.75 | 73.07 | 67.30 | 87.75 | 50- 55 | 36.48 | 291.1 | 40.4,40.4 |
| 60 | 71.42 | 76.31 | 59.77 | 60.63 | 57.86 | 60.54 | 57.85 | 75.07 | 55- 60 | 33.58 | 324.7 | 45,45 |
| 65 | 59.79 | 63.26 | 49.75 | 47.77 | 45.00 | 47.74 | 47.92 | 62.34 | 60- 65 | 29.51 | 354.2 | 49.1,49.1 |
| 70 | 47.20 | 50.39 | 39.04 | 34.60 | 31.97 | 34.49 | 37.27 | 49.76 | 65- 70 | 24.36 | 378.6 | 52.5,52.5 |
| 75 | 33.68 | 37.36 | 27.99 | 21.65 | 19.69 | 21.61 | 27.01 | 36.74 | 70- 75 | 18.41 | 397.0 | 55,55 |
| 80 | 21.10 | 24.14 | 16.75 | 10.64 | 9.283 | 10.76 | 16.68 | 23.63 | 75- 80 | 12.14 | 409.1 | 56.7,56.7 |
| 85 | 10.91 | 12.72 | 7.213 | 4.199 | 3.118 | 4.156 | 7.358 | 12.57 | 80- 85 | 6.557 | 415.7 | 57.6,57.6 |
| 90 | 4.043 | 5.371 | 2.060 | 5.769 | 4.073 | 5.225 | 1.962 | 5.302 | 85- 90 | 3.055 | 418.8 | 58,58 |
| 95 | 3.098 | 4.345 | 5.393 | 16.09 | 13.56 | 15.44 | 6.480 | 4.158 | 90- 95 | 3.337 | 422.1 | 58.5,58.5 |
| 100 | 11.26 | 13.05 | 7.074 | 30.53 | 27.53 | 30.38 | 11.46 | 12.76 | 95-100 | 7.740 | 429.8 | 59.6,59.6 |
| 105 | 24.68 | 24.07 | 5.802 | 40.20 | 43.49 | 38.84 | 12.25 | 25.53 | 100-105 | 13.96 | 443.8 | 61.5,61.5 |
| 110 | 39.55 | 37.58 | 4.088 | 32.72 | 52.77 | 36.37 | 10.20 | 39.08 | 105-110 | 18.70 | 462.5 | 64.1,64.1 |
| 115 | 45.90 | 47.89 | 2.502 | 35.41 | 32.59 | 46.36 | 8.057 | 51.21 | 110-115 | 20.12 | 482.6 | 66.9,66.9 |
| 120 | 58.88 | 59.00 | 3.135 | 62.37 | 29.29 | 70.71 | 8.632 | 62.58 | 115-120 | 23.42 | 506.0 | 70.1,70.1 |
| 125 | 69.50 | 68.31 | 4.007 | 83.48 | 41.79 | 86.17 | 9.412 | 73.47 | 120-125 | 26.66 | 532.7 | 73.8,73.8 |
| 130 | 81.77 | 71.83 | 4.699 | 92.81 | 91.60 | 95.97 | 9.954 | 80.00 | 125-130 | 30.11 | 562.8 | 78,78 |
| 135 | 93.31 | 73.59 | 5.342 | 101.6 | 99.90 | 106.0 | 10.22 | 85.06 | 130-135 | 30.80 | 593.6 | 82.3,82.3 |
| 140 | 103.7 | 73.75 | 5.872 | 111.5 | 109.7 | 114.6 | 10.54 | 88.39 | 135-140 | 29.53 | 623.1 | 86.4,86.4 |
| 145 | 113.1 | 72.63 | 6.478 | 114.7 | 118.0 | 115.6 | 10.98 | 89.68 | 140-145 | 27.18 | 650.3 | 90.1,90.1 |
| 150 | 121.6 | 69.58 | 7.389 | 102.6 | 123.8 | 101.4 | 11.77 | 89.71 | 145-150 | 23.73 | 674.0 | 93.4,93.4 |
| 155 | 128.3 | 66.19 | 8.448 | 79.83 | 126.8 | 78.13 | 12.66 | 90.18 | 150-155 | 19.35 | 693.4 | 96.1,96.1 |
| 160 | 130.2 | 59.06 | 9.830 | 52.78 | 102.4 | 52.06 | 13.57 | 82.78 | 155-160 | 13.96 | 707.3 | 98,98 |
| 165 | 102.2 | 50.33 | 11.09 | 26.02 | 67.95 | 26.61 | 14.21 | 68.53 | 160-165 | 8.448 | 715.8 | 99.2,99.2 |
| 170 | 52.06 | 39.59 | 12.49 | 5.533 | 25.42 | 6.598 | 14.66 | 51.52 | 165-170 | 4.019 | 719.8 | 99.8,99.8 |
| 175 | 15.45 | 25.76 | 13.80 | 2.470 | 1.971 | 2.573 | 14.94 | 32.14 | 170-175 | 1.366 | 721.2 | 100,100 |
| 180 | 2.472 | 8.947 | 14.76 | 11.57 | 2.445 | 8.952 | 15.02 | 11.58 | 175-180 | 0.2859 | 721.5 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd MAX (Ii - Iavg)/Iavg (0-135) = 97.3 % | | | | | | | | | UNIT:lm | | |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 1138 | 752 |
| 80 | 1105 | 877 |
| 75 | 1183 | 983 |
| 70 | 1255 | 1038 |
| 65 | 1286 | 1070 |
| 60 | 1299 | 1087 |
| 55 | 1308 | 1095 |
| 50 | 1325 | 1100 |
| 45 | 1345 | 1103 |

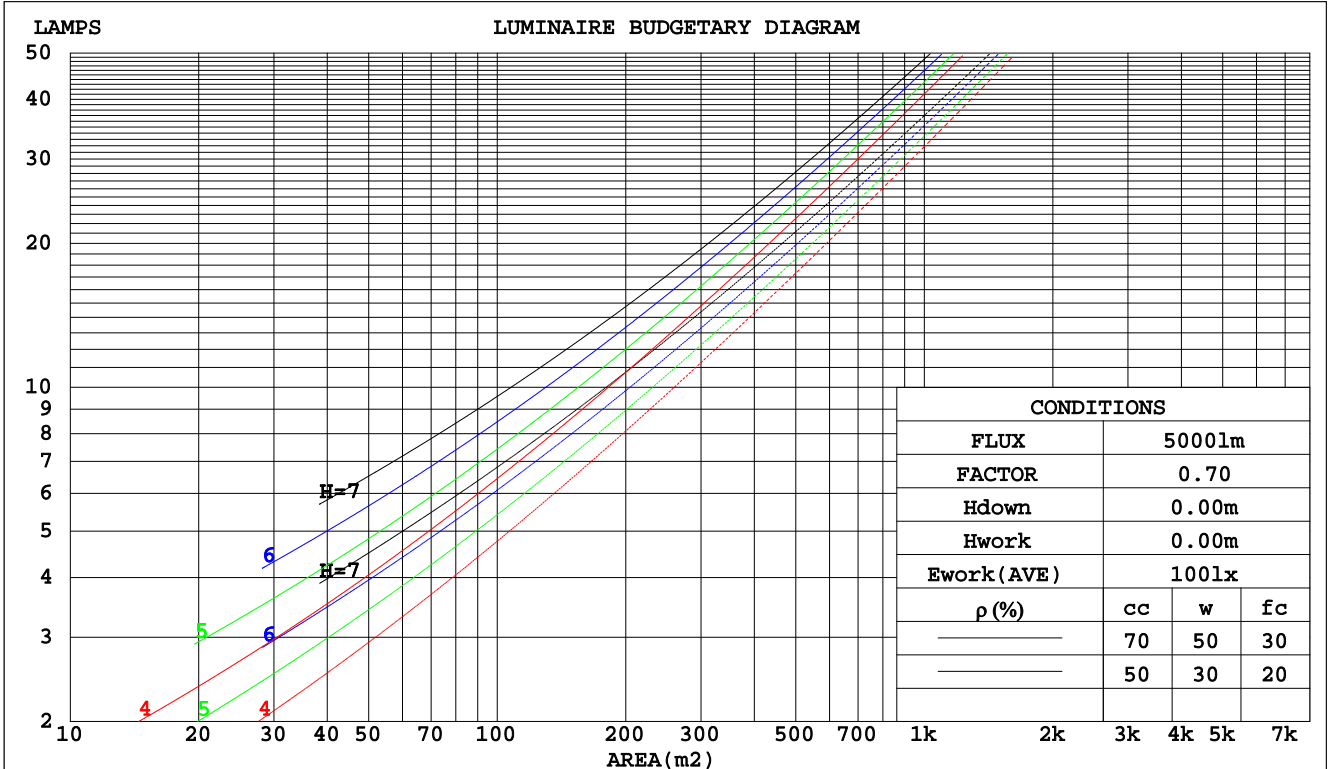
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: yechihong
Test Date: 2020-06-11

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.272
Humidity: 70%
Test Distance: 8.425m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|-----------------|---------------------------|
| Test:U:120.3V I:0.2005A P:23.99W PF:0.9945 Lamp Flux:721.46x1 lm | | |
| NAME: ECHP4830LAJMVWH | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.:202000611A0001 |
| MFR.: AFX | SUR.:1.1*0.05*2 | PROTECTION 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 | 1.09 | 1.09 | 1.09 | 1.02 | 1.02 | 1.02 | .88 | .88 | .88 | .75 | .75 | .75 | .64 | .64 | .64 | .58 |
| 1.0 | .95 | .91 | .87 | .88 | .85 | .82 | .76 | .74 | .71 | .66 | .64 | .62 | .56 | .54 | .53 | .48 |
| 2.0 | .82 | .76 | .70 | .77 | .71 | .66 | .67 | .62 | .59 | .57 | .54 | .51 | .48 | .46 | .44 | .40 |
| 3.0 | .72 | .64 | .58 | .67 | .61 | .55 | .58 | .53 | .49 | .50 | .46 | .43 | .43 | .40 | .37 | .33 |
| 4.0 | .64 | .55 | .49 | .59 | .52 | .46 | .52 | .46 | .41 | .45 | .40 | .36 | .38 | .34 | .32 | .28 |
| 5.0 | .56 | .48 | .42 | .53 | .45 | .40 | .46 | .40 | .35 | .40 | .35 | .31 | .34 | .30 | .27 | .24 |
| 6.0 | .50 | .42 | .36 | .47 | .40 | .34 | .41 | .35 | .31 | .36 | .31 | .27 | .31 | .27 | .24 | .21 |
| 7.0 | .45 | .37 | .31 | .43 | .35 | .30 | .37 | .31 | .27 | .32 | .28 | .24 | .28 | .24 | .21 | .18 |
| 8.0 | .41 | .33 | .28 | .39 | .31 | .26 | .34 | .28 | .24 | .30 | .25 | .21 | .25 | .22 | .19 | .16 |
| 9.0 | .38 | .30 | .25 | .35 | .28 | .23 | .31 | .25 | .21 | .27 | .22 | .19 | .23 | .20 | .17 | .15 |
| 10.0 | .34 | .27 | .22 | .32 | .26 | .21 | .29 | .23 | .19 | .25 | .20 | .17 | .22 | .18 | .15 | .13 |



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2020-06-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|--|-----------------|---------------------------|
| Test:U:120.3V I:0.2005A P:23.99W PF:0.9945 Lamp Flux:721.46x1 lm | | |
| NAME: ECHP4830LAJMVWH | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.:202000611A0001 |
| MFR.: AFX | SUR.:1.1*0.05*2 | PROTECTION ANGLE: |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .293 | .167 | .053 | .273 | .156 | .050 | .237 | .136 | .043 | .203 | .117 | .038 | .171 | .099 | .032 | |
| 2.0 | .273 | .149 | .046 | .255 | .140 | .043 | .221 | .123 | .038 | .190 | .107 | .033 | .162 | .091 | .029 | |
| 3.0 | .252 | .134 | .040 | .235 | .126 | .038 | .205 | .111 | .034 | .176 | .097 | .030 | .150 | .083 | .026 | |
| 4.0 | .232 | .121 | .036 | .218 | .114 | .034 | .189 | .100 | .030 | .163 | .088 | .026 | .139 | .076 | .023 | |
| 5.0 | .215 | .110 | .032 | .201 | .103 | .030 | .176 | .091 | .027 | .152 | .080 | .024 | .129 | .069 | .021 | |
| 6.0 | .200 | .100 | .029 | .187 | .095 | .027 | .163 | .084 | .024 | .141 | .073 | .022 | .120 | .063 | .019 | |
| 7.0 | .186 | .092 | .026 | .174 | .087 | .025 | .152 | .077 | .022 | .132 | .068 | .020 | .112 | .058 | .017 | |
| 8.0 | .174 | .085 | .024 | .163 | .080 | .023 | .143 | .071 | .020 | .123 | .063 | .018 | .105 | .054 | .016 | |
| 9.0 | .163 | .079 | .022 | .153 | .075 | .021 | .134 | .066 | .019 | .116 | .058 | .017 | .099 | .050 | .015 | |
| 10.0 | .153 | .074 | .020 | .144 | .070 | .019 | .126 | .062 | .017 | .109 | .054 | .015 | .094 | .047 | .014 | |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .510 | .510 | .510 | .436 | .436 | .436 | .298 | .298 | .298 | .171 | .171 | .171 | .055 | .055 | .055 | |
| 1.0 | .501 | .479 | .458 | .429 | .411 | .394 | .293 | .283 | .273 | .169 | .164 | .159 | .054 | .053 | .051 | |
| 2.0 | .494 | .456 | .425 | .423 | .393 | .367 | .290 | .272 | .256 | .167 | .158 | .150 | .054 | .051 | .049 | |
| 3.0 | .487 | .440 | .403 | .418 | .380 | .349 | .287 | .264 | .245 | .166 | .154 | .144 | .053 | .050 | .047 | |
| 4.0 | .480 | .428 | .388 | .412 | .370 | .337 | .283 | .258 | .238 | .164 | .151 | .141 | .053 | .049 | .046 | |
| 5.0 | .474 | .419 | .378 | .407 | .362 | .329 | .280 | .253 | .232 | .162 | .149 | .138 | .052 | .048 | .045 | |
| 6.0 | .467 | .411 | .371 | .402 | .356 | .323 | .277 | .249 | .229 | .161 | .147 | .136 | .052 | .048 | .045 | |
| 7.0 | .461 | .405 | .366 | .397 | .351 | .319 | .274 | .246 | .226 | .159 | .145 | .134 | .051 | .047 | .044 | |
| 8.0 | .455 | .400 | .361 | .392 | .347 | .315 | .271 | .243 | .224 | .158 | .144 | .133 | .051 | .047 | .044 | |
| 9.0 | .450 | .395 | .358 | .388 | .343 | .313 | .268 | .241 | .222 | .156 | .142 | .132 | .051 | .047 | .044 | |
| 10.0 | .445 | .391 | .356 | .383 | .340 | .311 | .266 | .239 | .221 | .155 | .141 | .132 | .050 | .046 | .044 | |

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2020-06-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

Uncorrected UGR Table

| Test:U:120.3V I:0.2005A P:23.99W PF:0.9945 Lamp Flux:721.46x1 lm | | | | | | | | | | |
|--|------------------|------|------|------|-----------------|----------------|------|---------------------------|------|------|
| NAME: ECHP4830LAJMVWH | | | | | TYPE: | | | WEIGHT: | | |
| DIM.: | | | | | SPEC.: | | | SERIAL No.:202000611A0001 | | |
| MFR.: AFX | | | | | SUR.:1.1*0.05*2 | | | PROTECTION 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 | 11.8 | 12.8 | 12.6 | 13.6 | 14.6 | 11.4 | 12.5 | 12.2 | 13.2 | 14.2 |
| 3H | 13.4 | 14.3 | 14.2 | 15.1 | 16.1 | 13.0 | 13.9 | 13.8 | 14.7 | 15.7 |
| 4H | 14.0 | 14.8 | 14.8 | 15.7 | 16.7 | 13.6 | 14.5 | 14.4 | 15.3 | 16.3 |
| 6H | 14.4 | 15.2 | 15.3 | 16.1 | 17.1 | 14.0 | 14.8 | 14.8 | 15.6 | 16.7 |
| 8H | 14.6 | 15.3 | 15.4 | 16.2 | 17.3 | 14.1 | 14.9 | 14.9 | 15.7 | 16.8 |
| 12H | 14.7 | 15.4 | 15.5 | 16.3 | 17.3 | 14.1 | 14.9 | 15.0 | 15.7 | 16.8 |
| 4H 2H | 12.4 | 13.2 | 13.2 | 14.1 | 15.1 | 12.1 | 13.0 | 12.9 | 13.8 | 14.8 |
| 3H | 14.1 | 14.8 | 15.0 | 15.7 | 16.8 | 13.8 | 14.5 | 14.7 | 15.4 | 16.5 |
| 4H | 14.9 | 15.5 | 15.7 | 16.4 | 17.5 | 14.6 | 15.2 | 15.4 | 16.1 | 17.2 |
| 6H | 15.4 | 16.0 | 16.3 | 16.9 | 18.0 | 15.1 | 15.7 | 16.0 | 16.6 | 17.7 |
| 8H | 15.6 | 16.2 | 16.5 | 17.1 | 18.2 | 15.2 | 15.8 | 16.2 | 16.7 | 17.8 |
| 12H | 15.8 | 16.3 | 16.7 | 17.2 | 18.4 | 15.3 | 15.8 | 16.3 | 16.8 | 17.9 |
| 8H 4H | 15.1 | 15.6 | 16.0 | 16.5 | 17.7 | 14.8 | 15.4 | 15.7 | 16.3 | 17.4 |
| 6H | 15.8 | 16.3 | 16.8 | 17.2 | 18.4 | 15.5 | 16.0 | 16.5 | 16.9 | 18.1 |
| 8H | 16.1 | 16.5 | 17.1 | 17.5 | 18.7 | 15.8 | 16.2 | 16.8 | 17.1 | 18.3 |
| 12H | 16.4 | 16.7 | 17.4 | 17.7 | 18.9 | 16.0 | 16.3 | 17.0 | 17.3 | 18.5 |
| 12H 4H | 15.1 | 15.6 | 16.0 | 16.5 | 17.7 | 14.8 | 15.3 | 15.7 | 16.2 | 17.4 |
| 6H | 15.9 | 16.3 | 16.8 | 17.2 | 18.4 | 15.6 | 16.0 | 16.6 | 16.9 | 18.1 |
| 8H | 16.2 | 16.6 | 17.2 | 17.5 | 18.8 | 15.9 | 16.3 | 16.9 | 17.2 | 18.4 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.2 | | | | | + 0.2 / - 0.2 | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.4 / - 0.6 | | | | |
| 2.0H | + 0.1 / - 0.4 | | | | | + 0.3 / - 0.8 | | | | |

CIE Pub.117 Corrected 721.5 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.1)

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2020-06-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|-----------------|---------------------------|
| Test:U:120.3V I:0.2005A P:23.99W PF:0.9945 Lamp Flux:721.46x1 lm | | |
| NAME: ECHP4830LAJMVWH | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.:202000611A0001 |
| MFR.: AFX | SUR.:1.1*0.05*2 | PROTECTION ANGLE: |

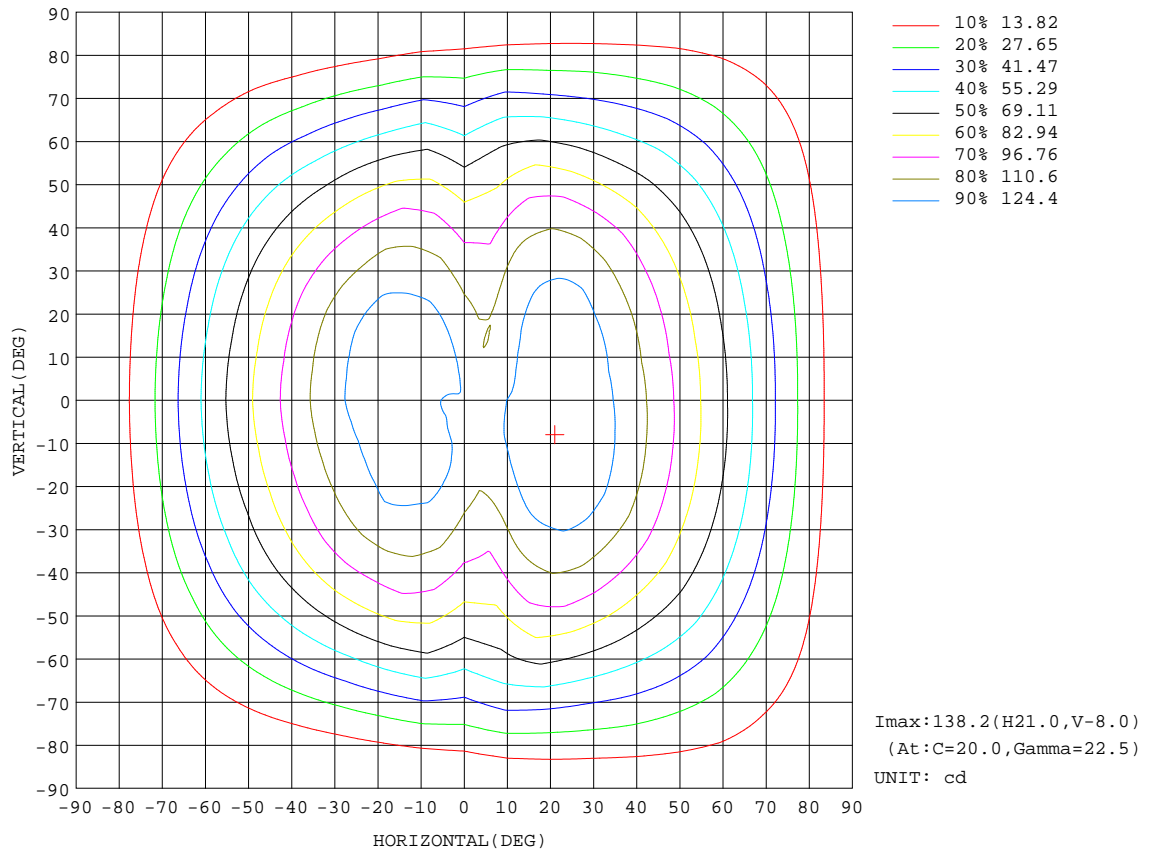
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 45 | 34 | 27 | 43 | 33 | 26 | 39 | 30 | 25 | 18 |
| 0.80 | 55 | 43 | 36 | 52 | 41 | 34 | 47 | 38 | 32 | 23 |
| 1.00 | 63 | 51 | 43 | 59 | 49 | 42 | 53 | 46 | 39 | 28 |
| 1.25 | 70 | 58 | 51 | 66 | 56 | 49 | 58 | 50 | 45 | 32 |
| 1.50 | 75 | 64 | 57 | 70 | 61 | 54 | 62 | 55 | 49 | 35 |
| 2.00 | 82 | 73 | 65 | 77 | 69 | 62 | 68 | 61 | 56 | 40 |
| 2.50 | 86 | 78 | 71 | 81 | 73 | 68 | 71 | 65 | 61 | 42 |
| 3.00 | 90 | 82 | 76 | 84 | 77 | 72 | 74 | 69 | 64 | 45 |
| 4.00 | 94 | 88 | 83 | 88 | 83 | 78 | 77 | 73 | 69 | 48 |
| 5.00 | 97 | 92 | 87 | 91 | 86 | 82 | 79 | 75 | 72 | 49 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNOM = 1.25 | | | |

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2020-06-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|-----------------|---------------------------|
| Test:U:120.3V I:0.2005A P:23.99W PF:0.9945 Lamp Flux:721.46x1 lm | | |
| NAME: ECHP4830LAJMVWH | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.:202000611A0001 |
| MFR.: AFX | SUR.:1.1*0.05*2 | PROTECTION ANGLE: |

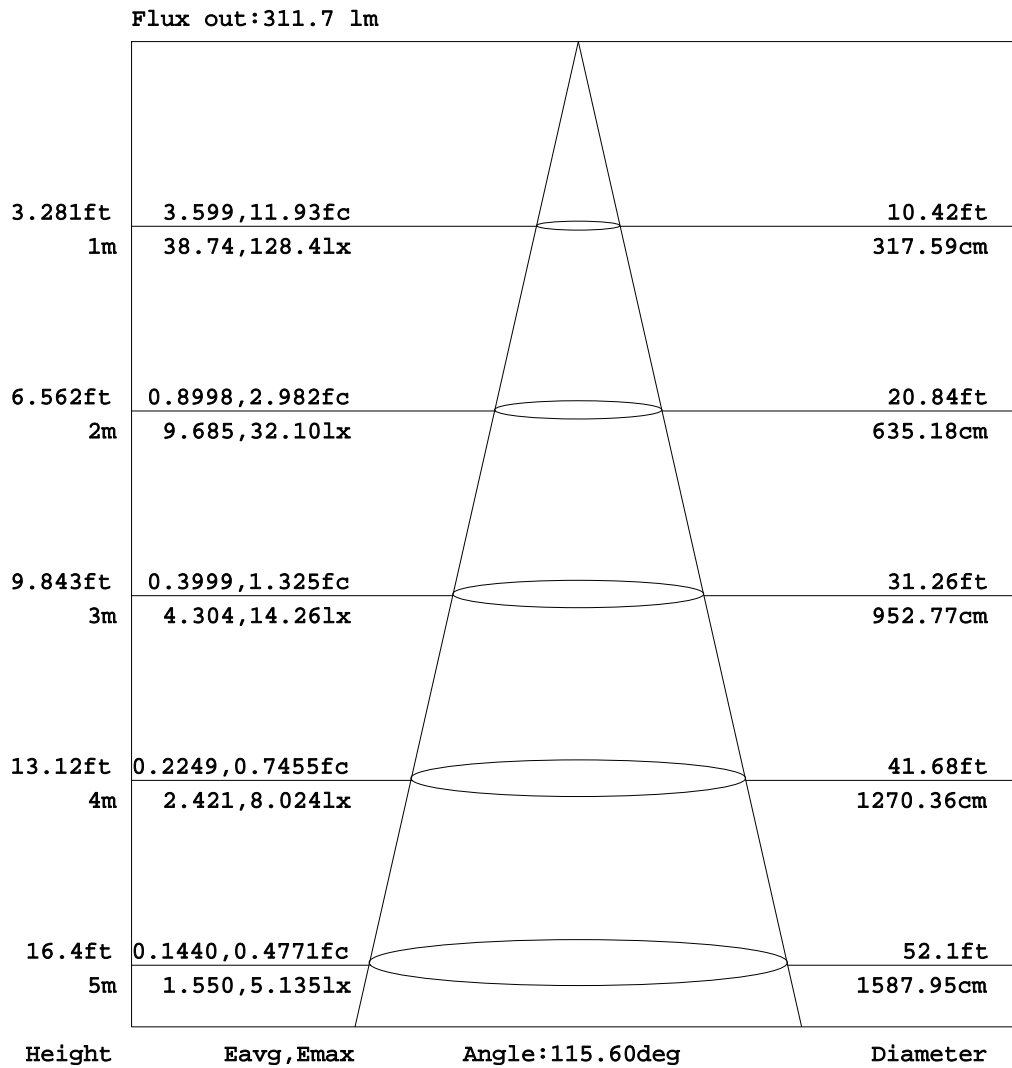


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: yechihong
 Test Date: 2020-06-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity: 70%
 Test Distance: 8.425m [K=1.0000]
 Remarks:

AAI Figure

| | | |
|--|-----------------|---------------------------|
| Test:U:120.3V I:0.2005A P:23.99W PF:0.9945 Lamp Flux:721.46x1 lm | | |
| NAME: ECHP4830LAJMVWH | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.:202000611A0001 |
| MFR.: AFX | SUR.:1.1*0.05*2 | PROTECTION ANGLE: |



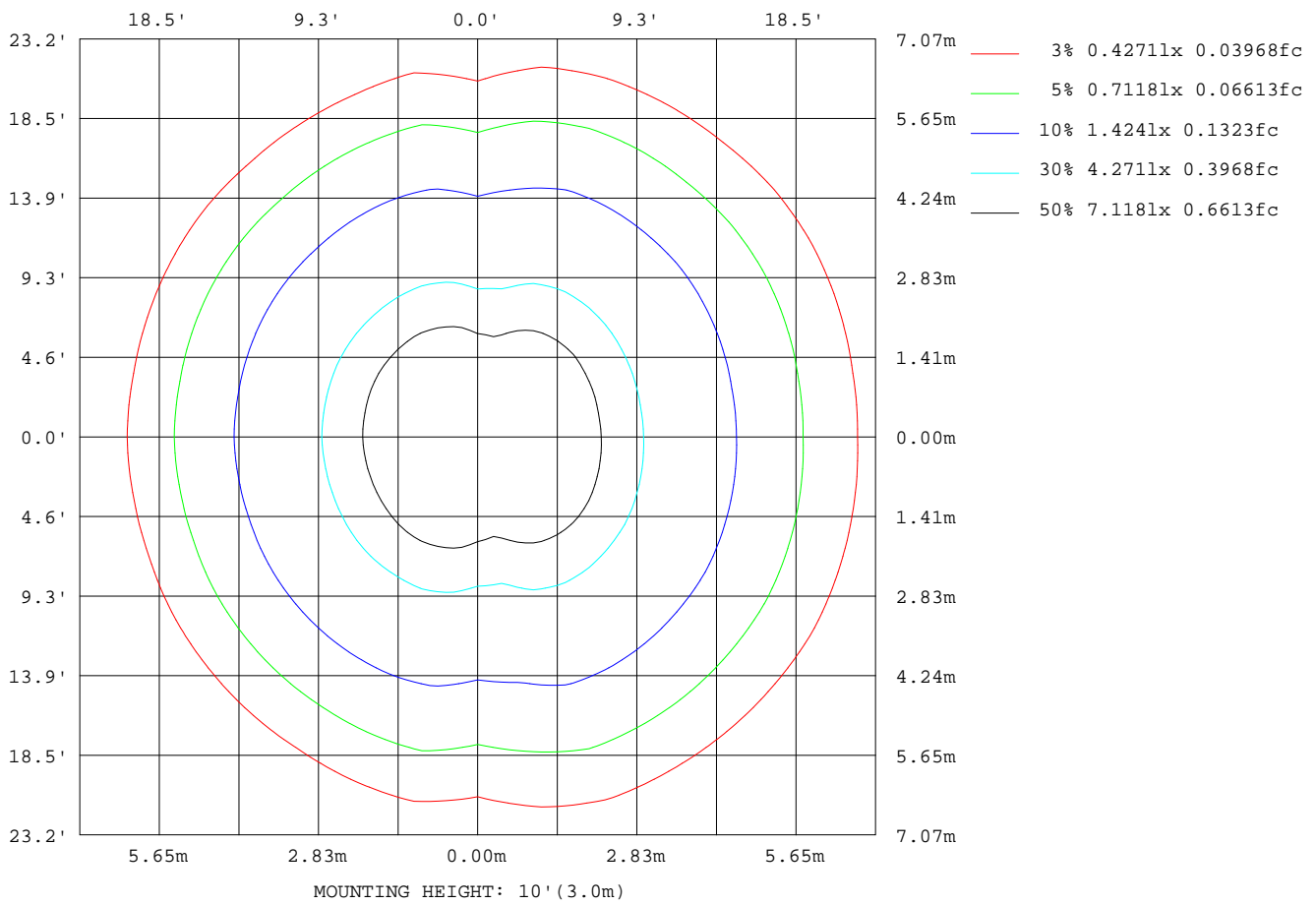
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2020-06-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

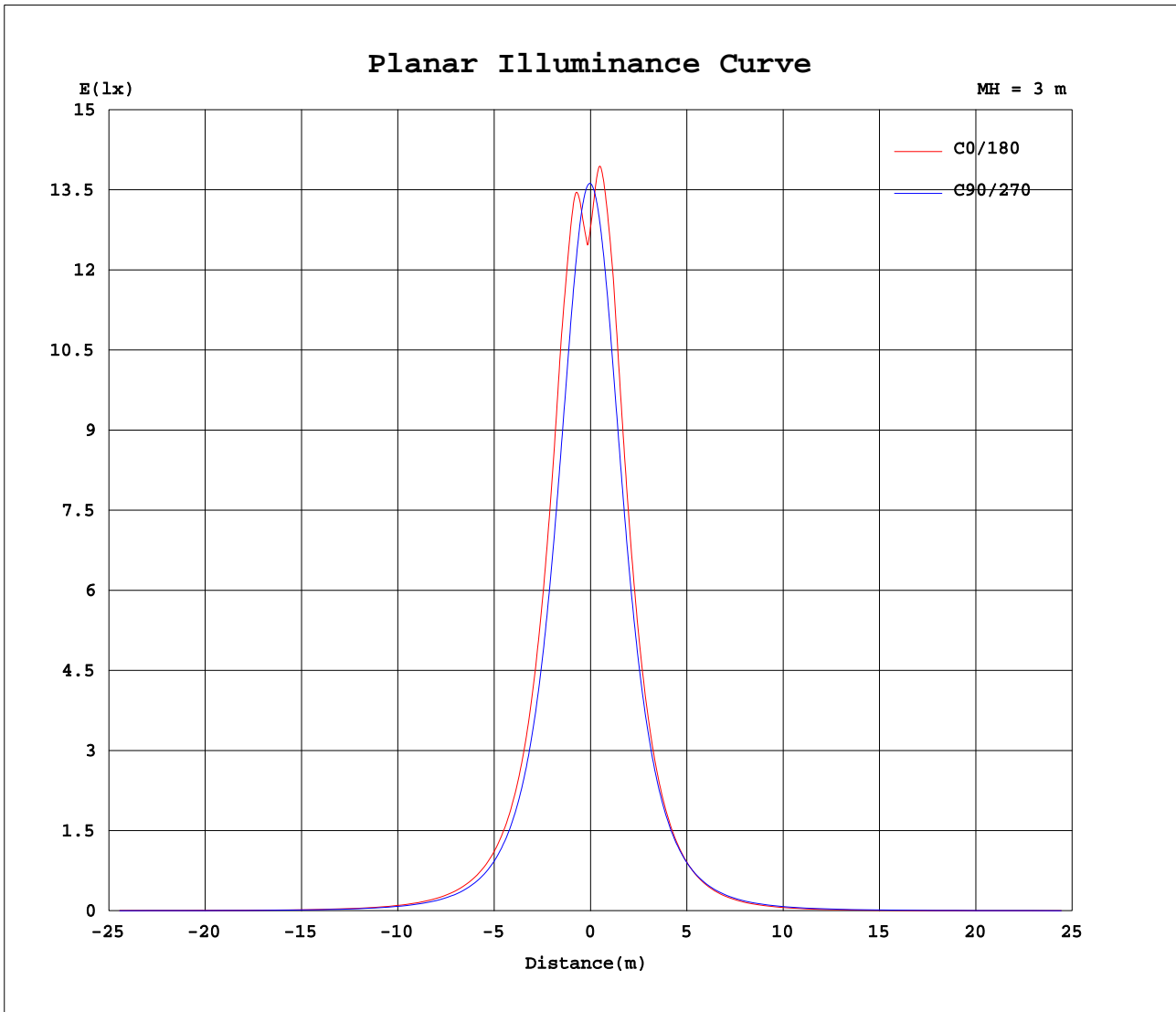
| | | |
|--|-----------------|---------------------------|
| Test:U:120.3V I:0.2005A P:23.99W PF:0.9945 Lamp Flux:721.46x1 lm | | |
| NAME: ECHP4830LAJMVWH | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.:202000611A0001 |
| MFR.: AFX | SUR.:1.1*0.05*2 | PROTECTION ANGLE: |



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2020-06-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: yechihong
 Test Date: 2020-06-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity: 70%
 Test Distance: 8.425m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-----------------|---------------------------|
| Test:U:120.3V I:0.2005A P:23.99W PF:0.9945 Lamp Flux:721.46x1 lm | | |
| NAME: ECHP4830LAJMVWH | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.:202000611A0001 |
| MFR.: AFX | SUR.:1.1*0.05*2 | PROTECTION ANGLE: |

Table--1

UNIT: cd

| C(DEG) γ (DEG) | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 115 | 117 | 118 | 120 | 122 | 122 | 123 | 123 | 123 | 123 | 121 | 118 | 117 | 117 | 116 | 115 | 115 | 115 | 115 |
| 5 | 115 | 116 | 116 | 117 | 117 | 118 | 119 | 120 | 122 | 123 | 122 | 122 | 122 | 123 | 124 | 123 | 123 | 123 | 124 |
| 10 | 125 | 125 | 124 | 123 | 122 | 119 | 117 | 117 | 119 | 122 | 124 | 125 | 126 | 128 | 129 | 129 | 130 | 130 | 131 |
| 15 | 134 | 134 | 134 | 132 | 129 | 123 | 118 | 114 | 116 | 119 | 124 | 127 | 128 | 129 | 130 | 130 | 131 | 132 | 133 |
| 20 | 136 | 137 | 138 | 137 | 135 | 128 | 120 | 114 | 112 | 116 | 122 | 127 | 128 | 129 | 130 | 130 | 130 | 132 | 133 |
| 25 | 136 | 137 | 138 | 138 | 136 | 131 | 122 | 113 | 107 | 112 | 120 | 124 | 126 | 127 | 128 | 127 | 126 | 127 | 128 |
| 30 | 131 | 133 | 136 | 136 | 134 | 130 | 123 | 111 | 102 | 106 | 115 | 120 | 123 | 124 | 121 | 120 | 119 | 120 | 121 |
| 35 | 124 | 125 | 128 | 130 | 131 | 127 | 121 | 110 | 97.0 | 100 | 110 | 114 | 117 | 116 | 114 | 112 | 111 | 111 | 112 |
| 40 | 115 | 117 | 119 | 121 | 122 | 122 | 116 | 107 | 91.9 | 93.4 | 103 | 108 | 108 | 108 | 106 | 103 | 102 | 102 | 102 |
| 45 | 105 | 106 | 109 | 112 | 112 | 112 | 110 | 102 | 86.4 | 85.8 | 95.6 | 100 | 98.6 | 97.7 | 95.9 | 93.2 | 91.5 | 91.0 | 91.7 |
| 50 | 93.7 | 95.2 | 97.4 | 100 | 101 | 101 | 101 | 94.7 | 80.4 | 77.8 | 86.9 | 89.4 | 87.9 | 86.5 | 84.5 | 82.1 | 80.4 | 80.1 | 80.9 |
| 55 | 82.5 | 83.9 | 85.9 | 88.1 | 88.6 | 89.5 | 89.3 | 86.1 | 73.7 | 69.1 | 77.5 | 77.9 | 76.1 | 74.2 | 72.3 | 70.6 | 69.0 | 68.9 | 69.7 |
| 60 | 71.4 | 72.6 | 74.2 | 75.8 | 76.2 | 76.5 | 76.5 | 76.3 | 66.2 | 59.8 | 67.1 | 65.5 | 63.2 | 61.4 | 59.8 | 58.7 | 57.2 | 57.1 | 57.9 |
| 65 | 59.8 | 61.0 | 62.4 | 63.7 | 63.3 | 63.2 | 62.9 | 62.9 | 57.3 | 49.8 | 54.8 | 52.5 | 49.7 | 48.4 | 47.1 | 46.1 | 44.7 | 44.4 | 45.0 |
| 70 | 47.2 | 48.3 | 49.6 | 51.0 | 50.8 | 50.0 | 49.2 | 49.0 | 46.5 | 39.0 | 41.5 | 38.8 | 36.5 | 35.2 | 34.0 | 32.9 | 31.6 | 31.5 | 32.0 |
| 75 | 33.7 | 34.7 | 35.9 | 37.5 | 37.6 | 37.2 | 35.8 | 35.2 | 34.3 | 28.0 | 28.3 | 25.8 | 23.6 | 22.2 | 21.1 | 20.3 | 19.4 | 19.2 | 19.7 |
| 80 | 21.1 | 22.0 | 22.9 | 24.1 | 24.2 | 24.1 | 23.1 | 22.3 | 21.1 | 16.7 | 15.8 | 13.7 | 12.1 | 11.0 | 10.3 | 9.66 | 8.95 | 8.89 | 9.28 |
| 85 | 10.9 | 11.4 | 12.0 | 13.1 | 12.9 | 12.6 | 11.7 | 11.1 | 9.95 | 7.21 | 6.19 | 5.21 | 4.52 | 4.29 | 4.11 | 3.81 | 3.53 | 3.24 | 3.12 |
| 90 | 4.04 | 4.33 | 4.69 | 5.61 | 5.52 | 5.22 | 4.67 | 4.14 | 3.28 | 2.06 | 2.71 | 3.56 | 4.55 | 5.34 | 6.20 | 6.19 | 5.97 | 5.31 | 4.07 |
| 95 | 3.10 | 3.02 | 3.19 | 4.05 | 4.09 | 4.60 | 5.05 | 5.59 | 6.48 | 5.39 | 9.71 | 11.8 | 13.9 | 15.4 | 16.7 | 16.8 | 16.4 | 15.3 | 13.6 |
| 100 | 11.3 | 10.8 | 11.1 | 12.1 | 12.7 | 13.4 | 14.8 | 15.7 | 16.9 | 7.07 | 21.3 | 25.4 | 27.6 | 29.7 | 31.3 | 31.7 | 31.1 | 29.7 | 27.5 |
| 105 | 24.7 | 24.2 | 24.7 | 25.8 | 26.7 | 21.4 | 26.6 | 27.0 | 28.5 | 5.80 | 32.5 | 34.2 | 32.7 | 34.9 | 45.5 | 47.4 | 47.1 | 45.9 | 43.5 |
| 110 | 39.6 | 38.4 | 32.4 | 29.4 | 35.8 | 39.4 | 39.0 | 39.5 | 38.9 | 4.09 | 40.6 | 44.0 | 37.4 | 34.3 | 31.2 | 31.8 | 45.1 | 54.5 | 52.8 |
| 115 | 45.9 | 46.0 | 47.7 | 49.6 | 47.9 | 47.9 | 50.2 | 51.1 | 51.1 | 2.50 | 39.5 | 55.9 | 59.8 | 37.9 | 32.9 | 30.6 | 32.9 | 34.8 | 32.6 |
| 120 | 58.9 | 58.3 | 58.2 | 59.2 | 58.0 | 60.0 | 59.1 | 60.1 | 52.9 | 3.13 | 33.1 | 66.4 | 70.7 | 73.9 | 50.8 | 35.0 | 35.1 | 35.0 | 29.3 |
| 125 | 69.5 | 69.4 | 70.4 | 69.7 | 69.4 | 67.3 | 63.5 | 62.7 | 47.3 | 4.01 | 25.3 | 77.6 | 79.0 | 81.7 | 85.2 | 76.7 | 56.7 | 46.8 | 41.8 |
| 130 | 81.8 | 81.6 | 81.5 | 80.4 | 74.8 | 68.8 | 67.7 | 63.9 | 41.1 | 4.70 | 17.2 | 72.1 | 89.0 | 91.4 | 94.2 | 94.9 | 94.6 | 90.3 | 91.6 |
| 135 | 93.3 | 93.1 | 90.6 | 83.9 | 76.1 | 71.0 | 68.1 | 63.6 | 35.7 | 5.34 | 10.5 | 61.9 | 98.5 | 100 | 103 | 105 | 103 | 102 | 99.9 |
| 140 | 104 | 103 | 99.3 | 83.9 | 75.8 | 71.7 | 67.1 | 57.9 | 31.3 | 5.87 | 5.65 | 50.3 | 91.2 | 111 | 112 | 114 | 113 | 113 | 110 |
| 145 | 113 | 110 | 98.7 | 82.3 | 75.5 | 69.8 | 65.6 | 50.8 | 28.2 | 6.48 | 2.90 | 35.9 | 76.8 | 108 | 122 | 123 | 121 | 120 | 118 |
| 150 | 122 | 117 | 93.6 | 79.7 | 72.0 | 67.1 | 61.9 | 47.4 | 27.0 | 7.39 | 2.26 | 23.1 | 58.4 | 90.3 | 115 | 129 | 129 | 126 | 124 |
| 155 | 128 | 113 | 85.4 | 73.7 | 67.4 | 64.9 | 58.9 | 43.1 | 26.2 | 8.45 | 2.23 | 11.7 | 38.6 | 67.4 | 92.3 | 110 | 121 | 127 | 127 |
| 160 | 130 | 95.7 | 72.8 | 63.3 | 60.2 | 57.9 | 51.2 | 40.5 | 25.8 | 9.83 | 2.23 | 4.12 | 20.6 | 42.4 | 63.1 | 80.2 | 91.8 | 99.9 | 102 |
| 165 | 102 | 59.9 | 50.2 | 47.6 | 51.1 | 49.5 | 44.3 | 35.0 | 24.3 | 11.1 | 2.81 | 2.49 | 5.98 | 18.8 | 33.2 | 46.5 | 56.4 | 63.9 | 67.9 |
| 170 | 52.1 | 32.5 | 32.2 | 36.7 | 40.1 | 39.1 | 35.2 | 29.0 | 21.5 | 12.5 | 5.04 | 2.49 | 2.65 | 3.52 | 7.55 | 14.6 | 21.0 | 26.3 | 25.4 |
| 175 | 15.5 | 16.2 | 19.0 | 23.4 | 25.8 | 25.7 | 24.4 | 21.6 | 18.5 | 13.8 | 9.47 | 5.49 | 3.28 | 2.54 | 2.40 | 2.29 | 2.11 | 1.94 | 1.97 |
| 180 | 2.47 | 2.77 | 4.53 | 6.00 | 8.26 | 9.63 | 11.7 | 12.8 | 14.4 | 14.8 | 15.2 | 14.8 | 13.8 | 12.5 | 10.6 | 8.79 | 6.27 | 4.07 | 2.44 |

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2020-06-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-----------------|---------------------------|
| Test:U:120.3V I:0.2005A P:23.99W PF:0.9945 Lamp Flux:721.46x1 lm | | |
| NAME: ECHP4830LAJMVWH | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.:202000611A0001 |
| MFR.: AFX | SUR.:1.1*0.05*2 | PROTECTION ANGLE: |

Table--2

UNIT: cd

| C(DEG) γ (DEG) | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | | |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| 0 | 117 | 118 | 120 | 122 | 122 | 123 | 123 | 123 | 123 | 121 | 118 | 117 | 117 | 116 | 115 | 115 | 115 | | |
| 5 | 125 | 126 | 128 | 128 | 128 | 127 | 126 | 124 | 122 | 119 | 115 | 113 | 112 | 112 | 111 | 112 | 113 | | |
| 10 | 132 | 133 | 134 | 134 | 133 | 130 | 127 | 124 | 120 | 116 | 112 | 111 | 113 | 115 | 118 | 120 | 122 | | |
| 15 | 134 | 134 | 135 | 135 | 134 | 131 | 128 | 123 | 118 | 113 | 110 | 113 | 118 | 122 | 126 | 129 | 131 | | |
| 20 | 133 | 134 | 134 | 134 | 132 | 130 | 127 | 121 | 115 | 110 | 111 | 116 | 124 | 129 | 132 | 134 | 135 | | |
| 25 | 129 | 130 | 131 | 131 | 129 | 127 | 124 | 118 | 110 | 106 | 112 | 120 | 128 | 131 | 133 | 134 | 134 | | |
| 30 | 121 | 122 | 124 | 125 | 125 | 123 | 119 | 114 | 105 | 102 | 112 | 122 | 127 | 130 | 131 | 132 | 131 | | |
| 35 | 112 | 113 | 115 | 116 | 117 | 117 | 114 | 109 | 98.8 | 98.2 | 111 | 120 | 124 | 127 | 126 | 124 | 123 | | |
| 40 | 102 | 104 | 105 | 107 | 107 | 109 | 107 | 102 | 91.9 | 93.6 | 108 | 116 | 120 | 119 | 117 | 116 | 114 | | |
| 45 | 91.7 | 93.0 | 94.8 | 96.1 | 97.1 | 98.4 | 99.0 | 94.8 | 84.4 | 88.4 | 102 | 109 | 111 | 110 | 108 | 106 | 104 | | |
| 50 | 80.7 | 81.8 | 83.3 | 84.6 | 85.7 | 87.4 | 88.8 | 86.1 | 76.1 | 82.6 | 94.5 | 99.6 | 99.8 | 99.6 | 97.0 | 94.9 | 93.4 | | |
| 55 | 69.5 | 70.3 | 71.5 | 72.6 | 73.6 | 75.5 | 77.1 | 76.5 | 67.3 | 75.8 | 85.4 | 87.7 | 87.9 | 87.6 | 85.8 | 83.9 | 82.4 | | |
| 60 | 57.5 | 58.3 | 59.3 | 60.2 | 60.9 | 62.7 | 64.6 | 66.1 | 57.8 | 67.6 | 74.0 | 75.0 | 74.8 | 75.3 | 74.2 | 72.9 | 71.6 | | |
| 65 | 44.7 | 45.4 | 46.4 | 47.5 | 47.9 | 49.5 | 51.6 | 54.6 | 47.9 | 57.4 | 60.7 | 61.5 | 61.8 | 62.9 | 62.9 | 61.6 | 60.2 | | |
| 70 | 31.6 | 32.1 | 32.9 | 34.2 | 34.8 | 36.3 | 38.2 | 41.4 | 37.3 | 45.8 | 47.0 | 48.0 | 49.1 | 50.4 | 50.5 | 49.3 | 47.7 | | |
| 75 | 19.3 | 19.7 | 20.2 | 21.3 | 21.9 | 23.5 | 25.2 | 28.2 | 27.0 | 32.6 | 33.5 | 35.1 | 36.2 | 37.3 | 37.3 | 36.0 | 34.5 | | |
| 80 | 9.11 | 9.51 | 9.72 | 10.6 | 10.9 | 12.0 | 13.5 | 15.9 | 16.7 | 19.6 | 20.9 | 22.4 | 23.2 | 24.1 | 24.0 | 23.1 | 21.9 | | |
| 85 | 3.19 | 3.44 | 3.61 | 4.16 | 4.15 | 4.42 | 4.98 | 6.42 | 7.36 | 8.97 | 10.1 | 11.2 | 12.2 | 13.0 | 13.1 | 12.5 | 11.7 | | |
| 90 | 4.63 | 5.02 | 5.42 | 5.46 | 4.99 | 4.08 | 3.30 | 2.45 | 1.96 | 2.91 | 3.68 | 4.48 | 5.07 | 5.53 | 5.59 | 5.12 | 4.61 | | |
| 95 | 14.5 | 15.0 | 15.9 | 15.7 | 15.1 | 13.4 | 11.9 | 9.37 | 6.48 | 6.35 | 5.73 | 4.92 | 4.42 | 3.90 | 3.79 | 3.22 | 3.04 | | |
| 100 | 28.5 | 29.6 | 31.0 | 30.8 | 30.0 | 26.7 | 24.8 | 21.4 | 11.5 | 17.4 | 16.8 | 14.8 | 13.5 | 12.1 | 11.4 | 10.4 | 10.5 | | |
| 105 | 44.7 | 45.8 | 47.1 | 44.8 | 32.9 | 33.1 | 38.6 | 33.7 | 12.2 | 30.6 | 29.3 | 27.9 | 24.7 | 26.3 | 25.4 | 24.2 | 24.2 | | |
| 110 | 49.4 | 41.0 | 35.1 | 35.6 | 37.1 | 48.6 | 49.0 | 39.1 | 10.2 | 42.8 | 43.0 | 41.0 | 40.8 | 37.4 | 33.0 | 35.9 | 39.1 | | |
| 115 | 33.8 | 35.3 | 37.7 | 38.0 | 54.8 | 63.0 | 60.0 | 34.2 | 8.06 | 54.9 | 54.5 | 53.3 | 51.9 | 50.6 | 51.5 | 48.8 | 47.1 | | |
| 120 | 35.4 | 37.2 | 40.5 | 64.7 | 76.7 | 75.5 | 71.9 | 27.4 | 8.63 | 62.4 | 65.7 | 64.7 | 63.8 | 61.4 | 61.8 | 60.1 | 60.0 | | |
| 125 | 41.3 | 59.5 | 83.4 | 86.4 | 85.9 | 85.5 | 77.6 | 19.5 | 9.41 | 61.9 | 72.4 | 71.4 | 74.0 | 73.0 | 72.8 | 72.5 | 71.1 | | |
| 130 | 93.6 | 89.9 | 94.3 | 95.2 | 96.7 | 94.0 | 70.3 | 12.7 | 9.95 | 56.9 | 76.8 | 78.0 | 79.2 | 80.8 | 84.4 | 83.9 | 83.7 | | |
| 135 | 101 | 98.5 | 103 | 107 | 105 | 99.5 | 59.4 | 7.19 | 10.2 | 50.4 | 79.2 | 81.4 | 83.4 | 86.7 | 89.1 | 94.5 | 95.3 | | |
| 140 | 111 | 112 | 112 | 115 | 114 | 90.0 | 45.9 | 3.59 | 10.5 | 45.6 | 78.5 | 83.8 | 86.3 | 90.4 | 93.6 | 103 | 104 | | |
| 145 | 118 | 119 | 118 | 124 | 107 | 75.4 | 32.3 | 2.31 | 11.0 | 40.9 | 72.4 | 86.7 | 87.2 | 92.2 | 96.8 | 105 | 113 | | |
| 150 | 124 | 125 | 123 | 114 | 89.2 | 57.3 | 20.0 | 2.26 | 11.8 | 38.3 | 66.5 | 85.9 | 89.3 | 90.1 | 97.9 | 104 | 122 | | |
| 155 | 124 | 118 | 106 | 90.1 | 66.2 | 38.2 | 9.26 | 2.32 | 12.7 | 35.3 | 58.4 | 79.5 | 90.2 | 90.2 | 94.0 | 104 | 124 | | |
| 160 | 97.9 | 91.2 | 79.4 | 62.5 | 41.6 | 20.0 | 3.47 | 2.48 | 13.6 | 32.8 | 52.1 | 67.9 | 80.1 | 85.5 | 86.5 | 95.5 | 114 | | |
| 165 | 63.7 | 57.6 | 47.2 | 34.5 | 18.8 | 6.01 | 2.67 | 3.31 | 14.2 | 29.3 | 44.2 | 57.2 | 65.9 | 71.2 | 68.7 | 70.5 | 79.6 | | |
| 170 | 27.9 | 23.6 | 16.5 | 9.32 | 3.88 | 2.77 | 2.62 | 5.57 | 14.7 | 25.4 | 35.3 | 44.1 | 50.0 | 53.1 | 51.1 | 46.7 | 45.9 | | |
| 175 | 2.17 | 2.23 | 2.47 | 2.52 | 2.63 | 3.07 | 5.43 | 9.27 | 14.9 | 20.7 | 25.5 | 29.4 | 31.6 | 32.7 | 30.4 | 26.3 | 22.4 | | |
| 180 | 2.80 | 4.37 | 6.24 | 7.86 | 10.0 | 11.2 | 13.2 | 14.0 | 15.0 | 15.2 | 14.7 | 13.9 | 12.3 | 10.8 | 8.54 | 6.57 | 3.89 | | |

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2020-06-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

| G/C | 0.0 | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 115.1 | 116.6 | 118.1 | 120.0 | 121.6 | 122.4 | 122.9 | 123.2 | 123.4 | 122.6 |
| 2.5 | 112.6 | 113.9 | 115.5 | 117.4 | 119.1 | 120.1 | 121.0 | 121.8 | 122.6 | 122.7 |
| 5.0 | 115.3 | 115.9 | 116.3 | 116.5 | 117.2 | 118.3 | 119.2 | 120.4 | 121.6 | 122.6 |
| 7.5 | 119.5 | 119.9 | 119.9 | 119.6 | 119.0 | 117.2 | 117.6 | 119.0 | 120.4 | 122.2 |
| 10.0 | 124.9 | 124.9 | 124.5 | 123.3 | 121.7 | 119.1 | 116.6 | 117.4 | 119.1 | 121.7 |
| 12.5 | 129.9 | 130.1 | 129.5 | 127.6 | 125.0 | 121.0 | 117.4 | 115.7 | 117.5 | 120.7 |
| 15.0 | 133.8 | 134.3 | 134.0 | 132.1 | 128.7 | 123.3 | 118.4 | 114.2 | 115.7 | 119.3 |
| 17.5 | 135.6 | 136.4 | 136.8 | 135.6 | 132.0 | 125.8 | 119.3 | 113.9 | 113.7 | 117.8 |
| 20.0 | 136.2 | 137.3 | 137.9 | 137.4 | 134.7 | 128.2 | 120.4 | 113.6 | 111.6 | 116.0 |
| 22.5 | 136.2 | 137.3 | 138.2 | 138.0 | 135.8 | 130.1 | 121.6 | 113.1 | 109.2 | 113.9 |
| 25.0 | 136.0 | 137.1 | 138.0 | 137.9 | 135.8 | 131.2 | 122.5 | 112.5 | 106.7 | 111.6 |
| 27.5 | 135.1 | 136.6 | 137.5 | 137.3 | 135.3 | 131.0 | 123.1 | 111.9 | 104.0 | 109.2 |
| 30.0 | 131.5 | 133.3 | 135.8 | 136.4 | 134.0 | 130.0 | 123.1 | 111.3 | 101.5 | 106.5 |
| 32.5 | 127.6 | 129.4 | 131.9 | 134.5 | 132.5 | 128.5 | 122.3 | 110.5 | 99.26 | 103.5 |
| 35.0 | 123.7 | 125.4 | 127.7 | 130.4 | 126.6 | 120.6 | 109.6 | 98.40 | 83.44 | 81.86 |
| 37.5 | 119.4 | 121.1 | 123.4 | 126.0 | 126.8 | 124.3 | 118.4 | 108.4 | 94.55 | 97.05 |
| 40.0 | 114.9 | 116.5 | 118.8 | 121.5 | 122.0 | 121.7 | 115.8 | 106.7 | 91.93 | 93.41 |
| 42.5 | 110.1 | 111.7 | 113.9 | 116.6 | 117.1 | 117.6 | 112.9 | 104.6 | 89.27 | 89.62 |
| 45.0 | 104.7 | 106.3 | 108.8 | 111.5 | 112.0 | 112.4 | 109.6 | 101.7 | 86.37 | 85.78 |
| 47.5 | 99.11 | 100.8 | 103.2 | 106.1 | 106.7 | 107.0 | 106.0 | 98.40 | 83.44 | 81.86 |
| 50.0 | 93.68 | 95.23 | 97.44 | 100.2 | 101.0 | 101.4 | 101.2 | 94.72 | 80.37 | 77.79 |
| 52.5 | 88.12 | 89.62 | 91.72 | 94.15 | 94.95 | 95.65 | 95.30 | 90.60 | 77.13 | 73.45 |
| 55.0 | 82.50 | 83.92 | 85.93 | 88.10 | 88.63 | 89.49 | 89.27 | 86.13 | 73.72 | 69.11 |
| 57.5 | 76.96 | 78.23 | 80.02 | 82.07 | 82.42 | 83.08 | 82.98 | 81.46 | 70.12 | 64.56 |
| 60.0 | 71.42 | 72.62 | 74.18 | 75.83 | 76.16 | 76.46 | 76.53 | 76.27 | 66.25 | 59.77 |
| 62.5 | 65.67 | 66.87 | 68.33 | 69.76 | 69.66 | 69.94 | 69.82 | 69.62 | 62.06 | 54.81 |
| 65.0 | 59.79 | 60.98 | 62.39 | 63.70 | 63.30 | 63.23 | 62.91 | 62.89 | 57.34 | 49.75 |
| 67.5 | 53.56 | 54.79 | 56.14 | 57.50 | 57.06 | 56.46 | 56.05 | 56.00 | 52.13 | 44.50 |
| 70.0 | 47.20 | 48.32 | 49.63 | 51.05 | 50.82 | 49.96 | 49.21 | 49.00 | 46.51 | 39.04 |
| 72.5 | 40.47 | 41.54 | 42.89 | 44.39 | 44.30 | 43.64 | 42.34 | 41.99 | 40.60 | 33.45 |
| 75.0 | 33.68 | 34.68 | 35.94 | 37.48 | 37.56 | 37.15 | 35.82 | 35.25 | 34.33 | 27.99 |
| 77.5 | 27.14 | 28.11 | 29.17 | 30.58 | 30.75 | 30.57 | 29.44 | 28.67 | 27.57 | 22.39 |
| 80.0 | 21.10 | 21.98 | 22.86 | 24.13 | 24.23 | 24.06 | 23.14 | 22.30 | 21.09 | 16.75 |
| 82.5 | 15.70 | 16.39 | 17.13 | 18.31 | 18.16 | 17.88 | 17.12 | 16.36 | 15.07 | 11.57 |
| 85.0 | 10.91 | 11.42 | 11.99 | 13.08 | 12.89 | 12.55 | 11.73 | 11.13 | 9.954 | 7.213 |
| 87.5 | 6.832 | 7.260 | 7.688 | 8.786 | 8.681 | 8.324 | 7.505 | 6.847 | 5.944 | 3.675 |
| 90.0 | 4.043 | 4.325 | 4.685 | 5.606 | 5.521 | 5.222 | 4.671 | 4.137 | 3.279 | 2.060 |
| 92.5 | 2.522 | 2.585 | 2.830 | 3.729 | 3.678 | 3.567 | 3.415 | 3.387 | 3.306 | 2.919 |
| 95.0 | 3.098 | 3.017 | 3.193 | 4.049 | 4.090 | 4.601 | 5.054 | 5.591 | 6.475 | 5.393 |
| 97.5 | 6.310 | 5.965 | 6.183 | 7.038 | 7.487 | 7.991 | 9.000 | 10.12 | 11.50 | 7.000 |
| 100.0 | 11.26 | 10.79 | 11.07 | 12.06 | 12.72 | 13.37 | 14.76 | 15.73 | 16.92 | 7.074 |
| 102.5 | 17.59 | 17.13 | 17.53 | 18.47 | 19.26 | 20.05 | 19.81 | 20.97 | 22.86 | 6.594 |
| 105.0 | 24.68 | 24.20 | 24.71 | 25.77 | 26.72 | 21.41 | 26.59 | 26.96 | 28.53 | 5.802 |
| 107.5 | 32.17 | 31.80 | 32.47 | 33.26 | 34.08 | 31.80 | 32.58 | 33.76 | 33.88 | 4.940 |
| 110.0 | 39.55 | 38.43 | 32.43 | 29.43 | 35.76 | 39.40 | 39.05 | 39.52 | 38.93 | 4.088 |
| 112.5 | 34.16 | 33.74 | 37.70 | 41.46 | 43.97 | 43.35 | 44.33 | 45.46 | 44.99 | 3.260 |
| 115.0 | 45.90 | 45.96 | 47.74 | 49.58 | 47.85 | 47.93 | 50.22 | 51.13 | 51.08 | 2.502 |
| 117.5 | 54.46 | 54.27 | 54.45 | 53.88 | 52.33 | 54.00 | 56.21 | 56.99 | 53.94 | 2.709 |
| 120.0 | 58.88 | 58.35 | 58.21 | 59.15 | 57.96 | 60.04 | 59.14 | 60.05 | 52.91 | 3.135 |
| 122.5 | 63.36 | 63.07 | 64.03 | 64.61 | 64.34 | 65.15 | 60.68 | 61.63 | 50.33 | 3.590 |
| 125.0 | 69.50 | 69.38 | 70.38 | 69.72 | 69.37 | 67.26 | 63.48 | 62.75 | 47.27 | 4.007 |
| 127.5 | 75.65 | 75.61 | 76.45 | 74.25 | 72.13 | 68.67 | 66.10 | 63.44 | 44.16 | 4.374 |
| 130.0 | 81.77 | 81.59 | 80.44 | 74.82 | 68.84 | 67.69 | 63.90 | 61.08 | 41.08 | 4.699 |
| 132.5 | 87.66 | 87.43 | 85.98 | 83.00 | 75.62 | 69.46 | 68.05 | 64.05 | 38.24 | 5.044 |
| 135.0 | 93.31 | 93.06 | 90.59 | 83.91 | 76.15 | 71.02 | 68.06 | 63.64 | 35.70 | 5.342 |
| 137.5 | 98.69 | 98.30 | 95.53 | 84.78 | 75.77 | 71.93 | 67.67 | 61.71 | 33.36 | 5.601 |
| 140.0 | 103.7 | 102.9 | 99.29 | 83.88 | 75.77 | 71.73 | 67.12 | 57.94 | 31.31 | 5.872 |
| 142.5 | 108.6 | 106.9 | 99.48 | 82.59 | 76.09 | 70.90 | 66.32 | 54.13 | 29.07 | 6.167 |
| 145.0 | 113.1 | 110.2 | 98.68 | 82.25 | 75.46 | 69.79 | 65.57 | 50.80 | 28.16 | 6.478 |
| 147.5 | 117.5 | 113.3 | 97.17 | 81.31 | 73.87 | 68.42 | 64.09 | 48.11 | 27.63 | 6.889 |
| 150.0 | 121.6 | 116.8 | 93.56 | 79.72 | 72.01 | 67.14 | 61.87 | 47.45 | 27.01 | 7.389 |
| 152.5 | 125.4 | 116.7 | 89.74 | 77.09 | 69.81 | 66.34 | 61.33 | 45.52 | 26.01 | 7.820 |
| 155.0 | 128.3 | 112.9 | 85.37 | 73.73 | 67.43 | 64.94 | 58.85 | 43.10 | 26.17 | 8.448 |
| 157.5 | 130.8 | 105.7 | 80.12 | 69.93 | 64.05 | 62.99 | 53.93 | 42.05 | 26.12 | 9.092 |
| 160.0 | 130.2 | 95.65 | 72.83 | 63.27 | 60.19 | 57.93 | 51.17 | 40.53 | 25.79 | 9.830 |
| 162.5 | 118.9 | 78.33 | 61.27 | 55.21 | 57.54 | 53.32 | 47.97 | 37.78 | 25.09 | 10.48 |
| 165.0 | 102.2 | 59.94 | 50.19 | 47.60 | 51.15 | 49.52 | 44.29 | 35.05 | 24.25 | 11.09 |
| 167.5 | 83.28 | 44.29 | 40.88 | 42.80 | 45.65 | 44.77 | 40.00 | 32.00 | 22.83 | 11.74 |
| 170.0 | 52.06 | 32.55 | 32.19 | 36.71 | 40.10 | 39.08 | 35.18 | 28.99 | 21.55 | 12.49 |
| 172.5 | 25.06 | 24.04 | 24.44 | 30.08 | 33.37 | 32.67 | 29.92 | 25.39 | 20.22 | 13.27 |
| 175.0 | 15.45 | 16.23 | 19.02 | 23.38 | 25.81 | 25.71 | 24.43 | 21.65 | 18.53 | 13.80 |
| 177.5 | 8.072 | 8.780 | 11.68 | 15.01 | 17.19 | 17.98 | 18.18 | 17.38 | 16.52 | 14.32 |
| 180.0 | 2.472 | 2.775 | 4.527 | 6.003 | 8.262 | 9.633 | 11.69 | 12.77 | 14.39 | 14.76 |

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: yechihong
 Test Date: 2020-06-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity: 70%
 Test Distance: 8.425m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

| G/C | 100.0 | 110.0 | 120.0 | 130.0 | 140.0 | 150.0 | 160.0 | 170.0 | 180.0 | 190.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 120.7 | 118.5 | 117.3 | 116.8 | 116.3 | 115.4 | 114.9 | 114.6 | 115.1 | 116.6 |
| 2.5 | 121.6 | 120.2 | 119.6 | 119.8 | 120.0 | 119.3 | 119.0 | 118.6 | 118.8 | 120.4 |
| 5.0 | 122.4 | 121.8 | 122.0 | 122.9 | 123.6 | 123.5 | 123.5 | 123.4 | 123.6 | 125.0 |
| 7.5 | 123.0 | 123.4 | 124.3 | 125.7 | 126.9 | 127.1 | 127.3 | 127.6 | 128.1 | 129.4 |
| 10.0 | 123.6 | 124.7 | 126.2 | 127.8 | 129.0 | 129.3 | 129.6 | 130.2 | 131.2 | 132.2 |
| 12.5 | 123.7 | 125.8 | 127.5 | 129.1 | 130.0 | 130.2 | 130.4 | 131.3 | 132.5 | 133.2 |
| 15.0 | 123.8 | 126.5 | 128.1 | 129.5 | 130.2 | 130.4 | 130.8 | 131.7 | 133.0 | 133.6 |
| 17.5 | 123.4 | 126.9 | 128.1 | 129.3 | 130.1 | 130.4 | 130.8 | 131.8 | 133.0 | 133.6 |
| 20.0 | 122.5 | 126.7 | 127.7 | 128.9 | 129.7 | 130.0 | 130.5 | 131.5 | 132.8 | 133.3 |
| 22.5 | 121.1 | 125.9 | 127.0 | 128.2 | 129.1 | 129.3 | 129.1 | 129.9 | 131.5 | 131.9 |
| 25.0 | 119.5 | 124.5 | 126.0 | 127.3 | 128.0 | 126.6 | 126.0 | 126.7 | 128.2 | 128.5 |
| 27.5 | 117.6 | 122.4 | 124.6 | 126.2 | 124.9 | 123.4 | 122.7 | 123.2 | 124.6 | 124.8 |
| 30.0 | 115.4 | 120.0 | 122.6 | 123.8 | 121.5 | 120.0 | 119.2 | 119.6 | 120.7 | 120.9 |
| 32.5 | 112.9 | 117.3 | 120.2 | 120.3 | 117.9 | 116.4 | 115.3 | 115.6 | 116.5 | 116.6 |
| 35.0 | 110.1 | 114.4 | 117.3 | 116.5 | 114.1 | 112.4 | 111.3 | 111.2 | 112.0 | 112.1 |
| 37.5 | 107.0 | 111.2 | 112.9 | 112.3 | 110.1 | 108.2 | 106.8 | 106.5 | 107.2 | 107.3 |
| 40.0 | 103.4 | 107.8 | 108.3 | 107.7 | 105.8 | 103.5 | 101.9 | 101.5 | 102.3 | 102.2 |
| 42.5 | 99.69 | 104.2 | 103.6 | 102.9 | 101.0 | 98.46 | 96.81 | 96.36 | 97.08 | 97.08 |
| 45.0 | 95.62 | 100.1 | 98.57 | 97.72 | 95.86 | 93.22 | 91.45 | 90.97 | 91.71 | 91.70 |
| 47.5 | 91.32 | 94.80 | 93.37 | 92.27 | 90.31 | 87.69 | 86.01 | 85.54 | 86.35 | 86.23 |
| 50.0 | 86.87 | 89.36 | 87.89 | 86.55 | 84.47 | 82.13 | 80.37 | 80.07 | 80.87 | 80.74 |
| 52.5 | 82.31 | 83.72 | 82.13 | 80.56 | 78.40 | 76.38 | 74.72 | 74.55 | 75.41 | 75.12 |
| 55.0 | 77.49 | 77.92 | 76.10 | 74.24 | 72.31 | 70.58 | 68.98 | 68.91 | 69.75 | 69.47 |
| 57.5 | 72.44 | 71.79 | 69.75 | 67.84 | 66.09 | 64.66 | 63.14 | 63.11 | 63.88 | 63.58 |
| 60.0 | 67.09 | 65.53 | 63.20 | 61.42 | 59.85 | 58.70 | 57.19 | 57.08 | 57.86 | 57.48 |
| 62.5 | 61.44 | 59.11 | 56.48 | 54.88 | 53.57 | 52.47 | 51.00 | 50.89 | 51.57 | 51.19 |
| 65.0 | 54.83 | 52.47 | 49.72 | 48.43 | 47.11 | 46.12 | 44.67 | 44.42 | 45.00 | 44.65 |
| 67.5 | 48.20 | 45.65 | 43.02 | 41.84 | 40.52 | 39.52 | 38.07 | 37.88 | 38.48 | 38.08 |
| 70.0 | 41.55 | 38.84 | 36.52 | 35.22 | 33.97 | 32.93 | 31.59 | 31.47 | 31.97 | 31.60 |
| 72.5 | 34.90 | 32.22 | 30.03 | 28.58 | 27.39 | 26.38 | 25.34 | 25.31 | 25.69 | 25.28 |
| 75.0 | 28.27 | 25.75 | 23.58 | 22.22 | 21.07 | 20.30 | 19.37 | 19.23 | 19.69 | 19.32 |
| 77.5 | 21.77 | 19.54 | 17.52 | 16.17 | 15.35 | 14.53 | 13.74 | 13.61 | 14.12 | 13.93 |
| 80.0 | 15.75 | 13.75 | 12.06 | 10.96 | 10.32 | 9.659 | 8.954 | 8.890 | 9.283 | 9.114 |
| 82.5 | 10.44 | 8.907 | 7.553 | 6.852 | 6.423 | 5.937 | 5.523 | 5.372 | 5.481 | 5.485 |
| 85.0 | 6.192 | 5.210 | 4.524 | 4.286 | 4.112 | 3.813 | 3.530 | 3.241 | 3.118 | 3.187 |
| 87.5 | 3.419 | 3.146 | 3.112 | 3.452 | 3.868 | 3.734 | 3.508 | 3.086 | 2.494 | 2.762 |
| 90.0 | 2.714 | 3.556 | 4.552 | 5.338 | 6.201 | 6.193 | 5.966 | 5.305 | 4.073 | 4.633 |
| 92.5 | 5.135 | 6.711 | 8.349 | 9.516 | 10.70 | 10.67 | 10.36 | 9.391 | 7.968 | 8.669 |
| 95.0 | 9.706 | 11.84 | 13.91 | 15.44 | 16.74 | 16.76 | 15.30 | 13.56 | 14.46 | 14.46 |
| 97.5 | 15.58 | 18.29 | 20.58 | 22.28 | 23.62 | 23.78 | 23.35 | 22.06 | 20.13 | 21.03 |
| 100.0 | 21.28 | 25.38 | 27.57 | 29.72 | 31.34 | 31.69 | 31.08 | 29.70 | 27.53 | 28.54 |
| 102.5 | 26.92 | 30.89 | 31.76 | 35.88 | 38.78 | 39.86 | 39.22 | 37.70 | 35.36 | 36.51 |
| 105.0 | 32.53 | 34.18 | 32.68 | 34.85 | 45.55 | 47.39 | 47.11 | 45.92 | 43.49 | 44.66 |
| 107.5 | 36.70 | 40.78 | 35.94 | 32.34 | 34.39 | 53.18 | 54.54 | 53.50 | 50.79 | 51.73 |
| 110.0 | 40.55 | 44.05 | 37.37 | 34.28 | 31.16 | 31.80 | 45.11 | 54.51 | 52.77 | 49.37 |
| 112.5 | 41.67 | 49.71 | 51.52 | 36.45 | 30.84 | 30.23 | 32.28 | 35.41 | 33.09 | 33.32 |
| 115.0 | 39.48 | 55.95 | 59.81 | 37.90 | 32.92 | 30.62 | 32.86 | 34.81 | 32.59 | 33.77 |
| 117.5 | 36.24 | 60.34 | 64.32 | 58.92 | 33.95 | 33.08 | 33.15 | 34.35 | 30.62 | 33.95 |
| 120.0 | 33.12 | 66.36 | 70.66 | 73.94 | 50.80 | 35.00 | 35.07 | 35.04 | 29.29 | 35.40 |
| 122.5 | 29.42 | 73.43 | 75.77 | 77.06 | 76.27 | 48.95 | 38.40 | 36.48 | 37.05 | 30.96 |
| 125.0 | 25.26 | 77.58 | 78.97 | 81.73 | 85.23 | 76.72 | 56.71 | 46.82 | 41.79 | 41.33 |
| 127.5 | 21.04 | 75.99 | 83.02 | 87.59 | 89.21 | 91.10 | 81.31 | 70.41 | 67.96 | 75.07 |
| 130.0 | 17.17 | 72.10 | 89.02 | 91.45 | 94.18 | 94.91 | 94.56 | 90.25 | 91.60 | 93.62 |
| 132.5 | 13.59 | 67.19 | 95.25 | 95.34 | 99.45 | 99.38 | 98.33 | 98.33 | 96.69 | 96.97 |
| 135.0 | 10.50 | 61.89 | 98.50 | 100.0 | 103.1 | 105.1 | 102.8 | 102.0 | 99.90 | 100.5 |
| 137.5 | 7.904 | 56.25 | 96.27 | 105.7 | 107.2 | 109.7 | 108.5 | 106.9 | 104.3 | 105.2 |
| 140.0 | 5.648 | 50.30 | 91.16 | 110.8 | 112.1 | 114.3 | 113.5 | 112.5 | 109.7 | 110.6 |
| 142.5 | 3.959 | 43.33 | 84.67 | 112.6 | 117.4 | 118.5 | 117.8 | 116.8 | 114.4 | 114.9 |
| 145.0 | 2.897 | 35.94 | 76.83 | 107.6 | 121.9 | 122.5 | 121.4 | 120.2 | 118.0 | 118.3 |
| 147.5 | 2.392 | 29.18 | 68.08 | 99.63 | 122.4 | 126.7 | 124.9 | 123.2 | 121.0 | 121.0 |
| 150.0 | 2.259 | 23.13 | 58.45 | 90.27 | 114.9 | 128.9 | 128.6 | 126.3 | 123.8 | 123.8 |
| 152.5 | 2.227 | 17.26 | 48.14 | 79.42 | 104.4 | 122.1 | 129.5 | 129.6 | 126.7 | 126.5 |
| 155.0 | 2.227 | 11.68 | 38.56 | 67.41 | 92.25 | 110.2 | 120.5 | 126.6 | 126.8 | 124.0 |
| 157.5 | 2.227 | 7.157 | 29.28 | 54.96 | 78.13 | 96.12 | 107.0 | 114.3 | 116.4 | 112.1 |
| 160.0 | 2.232 | 4.117 | 20.60 | 42.41 | 63.15 | 80.18 | 91.78 | 99.86 | 102.4 | 97.87 |
| 162.5 | 2.371 | 2.737 | 12.22 | 30.29 | 47.92 | 63.28 | 74.54 | 82.82 | 85.92 | 81.50 |
| 165.0 | 2.810 | 2.485 | 5.984 | 18.84 | 33.20 | 46.48 | 56.42 | 63.93 | 67.95 | 63.71 |
| 167.5 | 3.615 | 2.454 | 3.093 | 8.875 | 19.20 | 29.88 | 38.14 | 44.73 | 49.37 | 45.71 |
| 170.0 | 5.044 | 2.494 | 2.649 | 3.519 | 7.547 | 14.59 | 21.00 | 26.34 | 25.42 | 27.88 |
| 172.5 | 6.962 | 3.211 | 2.535 | 2.584 | 2.814 | 4.230 | 6.773 | 9.980 | 6.644 | 11.28 |
| 175.0 | 9.468 | 5.494 | 3.281 | 2.544 | 2.395 | 2.295 | 2.107 | 1.944 | 1.971 | 2.169 |
| 177.5 | 12.24 | 9.435 | 6.978 | 4.967 | 3.426 | 2.546 | 1.969 | 1.644 | 1.422 | 1.485 |
| 180.0 | 15.25 | 14.75 | 13.77 | 12.52 | 10.62 | 8.791 | 6.274 | 4.065 | 2.445 | 2.802 |

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: yechihong
Test Date: 2020-06-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.272
Humidity: 70%
Test Distance: 8.425m [K=1.0000]
Remarks:

Photometric Data Table [cd]

| G/C | 200.0 | 210.0 | 220.0 | 230.0 | 240.0 | 250.0 | 260.0 | 270.0 | 280.0 | 290.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 118.1 | 120.0 | 121.6 | 122.4 | 122.9 | 123.2 | 123.4 | 122.6 | 120.7 | 118.5 |
| 2.5 | 121.8 | 123.6 | 124.9 | 125.1 | 124.9 | 124.5 | 123.9 | 122.2 | 119.7 | 116.8 |
| 5.0 | 126.3 | 127.8 | 128.4 | 127.9 | 126.8 | 125.6 | 124.1 | 121.8 | 118.6 | 115.3 |
| 7.5 | 130.4 | 131.5 | 131.6 | 130.5 | 128.7 | 126.6 | 124.2 | 121.1 | 117.4 | 113.8 |
| 10.0 | 133.0 | 134.0 | 133.9 | 132.5 | 130.2 | 127.3 | 124.1 | 120.3 | 116.1 | 112.3 |
| 12.5 | 134.1 | 135.0 | 135.1 | 133.6 | 131.2 | 127.8 | 123.7 | 119.3 | 114.7 | 110.7 |
| 15.0 | 134.3 | 135.2 | 135.1 | 133.7 | 131.5 | 127.9 | 123.1 | 117.9 | 113.2 | 110.0 |
| 17.5 | 134.2 | 135.0 | 134.7 | 133.1 | 131.1 | 127.6 | 122.2 | 116.4 | 111.7 | 110.4 |
| 20.0 | 133.7 | 134.5 | 133.9 | 132.2 | 130.1 | 126.9 | 121.1 | 114.6 | 110.0 | 110.8 |
| 22.5 | 133.0 | 133.6 | 132.8 | 130.9 | 128.7 | 125.6 | 119.7 | 112.4 | 108.0 | 111.2 |
| 25.0 | 129.5 | 131.3 | 131.5 | 129.3 | 127.0 | 123.9 | 118.1 | 110.2 | 105.9 | 111.6 |
| 27.5 | 125.9 | 127.6 | 128.7 | 127.4 | 125.0 | 121.8 | 116.3 | 107.7 | 103.8 | 111.9 |
| 30.0 | 122.1 | 123.8 | 124.7 | 125.3 | 122.6 | 119.4 | 114.0 | 104.8 | 102.1 | 112.0 |
| 32.5 | 117.9 | 119.7 | 120.6 | 121.0 | 120.0 | 116.6 | 111.6 | 101.9 | 100.2 | 111.9 |
| 35.0 | 113.4 | 115.2 | 116.2 | 116.7 | 117.2 | 113.7 | 108.8 | 98.77 | 98.16 | 111.0 |
| 37.5 | 108.7 | 110.5 | 111.6 | 112.2 | 113.4 | 110.4 | 105.7 | 95.43 | 95.96 | 109.8 |
| 40.0 | 103.7 | 105.4 | 106.7 | 107.4 | 108.6 | 106.8 | 102.3 | 91.91 | 93.56 | 108.0 |
| 42.5 | 98.41 | 100.3 | 101.6 | 102.3 | 103.6 | 103.0 | 98.76 | 88.22 | 91.06 | 105.4 |
| 45.0 | 93.00 | 94.81 | 96.13 | 97.11 | 98.39 | 99.04 | 94.84 | 84.42 | 88.38 | 102.2 |
| 47.5 | 87.40 | 89.13 | 90.45 | 91.54 | 93.01 | 94.46 | 90.60 | 80.39 | 85.62 | 98.49 |
| 50.0 | 81.78 | 83.27 | 84.60 | 85.73 | 87.36 | 88.79 | 86.09 | 76.15 | 82.64 | 94.49 |
| 52.5 | 76.10 | 77.39 | 78.63 | 79.71 | 81.53 | 83.00 | 81.44 | 71.78 | 79.34 | 90.10 |
| 55.0 | 70.32 | 71.50 | 72.56 | 73.58 | 75.46 | 77.06 | 76.52 | 67.30 | 75.80 | 85.37 |
| 57.5 | 64.37 | 65.47 | 66.46 | 67.26 | 69.21 | 70.91 | 71.37 | 62.66 | 71.99 | 80.44 |
| 60.0 | 58.30 | 59.32 | 60.23 | 60.85 | 62.69 | 64.59 | 66.06 | 57.85 | 67.61 | 74.02 |
| 62.5 | 51.97 | 52.99 | 53.93 | 54.42 | 56.10 | 58.18 | 60.44 | 52.92 | 62.69 | 67.41 |
| 65.0 | 45.35 | 46.41 | 47.55 | 47.93 | 49.51 | 51.57 | 54.57 | 47.92 | 57.41 | 60.72 |
| 67.5 | 38.71 | 39.61 | 40.93 | 41.37 | 42.93 | 44.88 | 48.07 | 42.67 | 51.79 | 53.90 |
| 70.0 | 32.13 | 32.93 | 34.20 | 34.78 | 36.34 | 38.21 | 41.39 | 37.27 | 45.79 | 47.02 |
| 72.5 | 25.71 | 26.33 | 27.58 | 28.23 | 29.90 | 31.61 | 34.74 | 32.12 | 39.44 | 40.12 |
| 75.0 | 19.67 | 20.21 | 21.34 | 21.87 | 23.51 | 25.21 | 28.18 | 27.01 | 32.58 | 33.47 |
| 77.5 | 14.12 | 14.57 | 15.60 | 15.99 | 17.41 | 19.10 | 21.82 | 21.68 | 25.96 | 27.06 |
| 80.0 | 9.510 | 9.725 | 10.59 | 10.92 | 12.01 | 13.46 | 15.88 | 16.68 | 19.64 | 20.90 |
| 82.5 | 5.727 | 5.978 | 6.603 | 6.784 | 7.590 | 8.597 | 10.68 | 11.84 | 13.82 | 15.16 |
| 85.0 | 3.444 | 3.606 | 4.164 | 4.148 | 4.419 | 4.975 | 6.423 | 7.358 | 8.970 | 10.07 |
| 87.5 | 3.038 | 3.258 | 3.482 | 3.150 | 2.811 | 2.829 | 3.412 | 3.768 | 5.135 | 6.126 |
| 90.0 | 5.016 | 5.416 | 5.461 | 4.990 | 4.081 | 3.301 | 2.446 | 1.962 | 2.908 | 3.682 |
| 92.5 | 9.186 | 9.824 | 9.703 | 9.158 | 7.817 | 6.601 | 4.754 | 3.124 | 3.170 | 3.281 |
| 95.0 | 15.00 | 15.86 | 15.73 | 15.14 | 13.44 | 11.92 | 9.369 | 6.480 | 6.349 | 5.729 |
| 97.5 | 21.91 | 23.01 | 22.93 | 22.30 | 20.35 | 18.43 | 15.32 | 9.640 | 11.50 | 10.53 |
| 100.0 | 29.59 | 31.05 | 30.79 | 29.97 | 26.69 | 24.81 | 21.35 | 11.46 | 17.36 | 16.81 |
| 102.5 | 37.66 | 39.43 | 38.57 | 36.31 | 30.15 | 30.67 | 28.14 | 12.29 | 24.07 | 22.57 |
| 105.0 | 45.83 | 47.15 | 44.81 | 32.87 | 33.13 | 38.60 | 33.72 | 12.25 | 30.59 | 29.31 |
| 107.5 | 52.91 | 48.12 | 33.86 | 35.75 | 37.10 | 43.52 | 38.34 | 11.48 | 37.01 | 36.13 |
| 110.0 | 41.03 | 35.14 | 35.65 | 37.09 | 48.61 | 49.01 | 39.11 | 10.20 | 42.82 | 42.99 |
| 112.5 | 34.44 | 36.77 | 37.07 | 39.83 | 59.69 | 53.42 | 37.70 | 9.047 | 48.74 | 48.84 |
| 115.0 | 35.35 | 37.69 | 37.96 | 54.75 | 62.99 | 59.97 | 34.15 | 8.057 | 54.89 | 54.47 |
| 117.5 | 35.82 | 38.10 | 42.78 | 72.05 | 68.95 | 66.08 | 31.19 | 8.252 | 59.42 | 60.48 |
| 120.0 | 37.17 | 40.50 | 64.72 | 76.70 | 75.53 | 71.88 | 27.42 | 8.632 | 62.38 | 65.67 |
| 122.5 | 38.87 | 59.59 | 81.58 | 80.87 | 80.73 | 76.86 | 23.32 | 9.029 | 63.14 | 69.43 |
| 125.0 | 59.52 | 83.42 | 86.40 | 85.95 | 85.51 | 77.57 | 19.47 | 9.412 | 61.90 | 72.35 |
| 127.5 | 83.46 | 88.94 | 90.17 | 91.76 | 89.79 | 74.80 | 16.01 | 9.718 | 59.67 | 74.77 |
| 130.0 | 89.87 | 94.34 | 95.24 | 96.69 | 94.00 | 70.35 | 12.67 | 9.954 | 56.85 | 76.76 |
| 132.5 | 93.68 | 99.39 | 101.3 | 101.2 | 98.55 | 65.04 | 9.776 | 10.09 | 53.59 | 78.17 |
| 135.0 | 98.55 | 103.4 | 106.5 | 105.4 | 99.46 | 59.40 | 7.191 | 10.22 | 50.43 | 79.16 |
| 137.5 | 105.6 | 107.9 | 111.0 | 109.7 | 95.67 | 53.00 | 5.104 | 10.38 | 47.92 | 79.72 |
| 140.0 | 112.1 | 112.2 | 115.5 | 113.6 | 90.00 | 45.87 | 3.587 | 10.54 | 45.63 | 78.50 |
| 142.5 | 116.2 | 115.5 | 120.0 | 113.6 | 83.23 | 38.87 | 2.671 | 10.74 | 43.23 | 75.81 |
| 145.0 | 119.2 | 118.3 | 124.0 | 107.3 | 75.44 | 32.28 | 2.308 | 10.98 | 40.92 | 72.43 |
| 147.5 | 121.8 | 121.4 | 122.9 | 98.87 | 66.67 | 26.04 | 2.254 | 11.44 | 39.69 | 68.83 |
| 150.0 | 124.8 | 123.3 | 113.6 | 89.24 | 57.29 | 19.98 | 2.259 | 11.77 | 38.34 | 66.46 |
| 152.5 | 126.2 | 117.1 | 102.1 | 78.37 | 47.73 | 14.27 | 2.295 | 12.20 | 36.34 | 62.71 |
| 155.0 | 118.3 | 106.3 | 90.09 | 66.16 | 38.18 | 9.255 | 2.318 | 12.66 | 35.32 | 58.45 |
| 157.5 | 105.6 | 93.96 | 76.81 | 53.65 | 29.02 | 5.501 | 2.372 | 13.20 | 34.15 | 55.47 |
| 160.0 | 91.20 | 79.39 | 62.51 | 41.61 | 19.96 | 3.467 | 2.481 | 13.57 | 32.81 | 52.10 |
| 162.5 | 74.90 | 63.33 | 48.24 | 30.00 | 11.90 | 2.812 | 2.767 | 13.88 | 31.20 | 48.29 |
| 165.0 | 57.57 | 47.18 | 34.46 | 18.76 | 6.013 | 2.671 | 3.312 | 14.21 | 29.34 | 44.22 |
| 167.5 | 40.34 | 31.46 | 21.06 | 9.058 | 3.301 | 2.612 | 4.258 | 14.45 | 27.48 | 40.02 |
| 170.0 | 23.62 | 16.48 | 9.319 | 3.876 | 2.769 | 2.616 | 5.571 | 14.66 | 25.43 | 35.35 |
| 172.5 | 8.717 | 5.224 | 3.368 | 2.830 | 2.662 | 3.406 | 7.250 | 14.95 | 23.19 | 30.65 |
| 175.0 | 2.235 | 2.473 | 2.516 | 2.630 | 3.067 | 5.426 | 9.273 | 14.94 | 20.68 | 25.49 |
| 177.5 | 1.884 | 2.214 | 2.763 | 4.028 | 5.704 | 8.808 | 11.57 | 15.13 | 18.04 | 20.22 |
| 180.0 | 4.373 | 6.243 | 7.859 | 10.05 | 11.22 | 13.19 | 14.02 | 15.02 | 15.16 | 14.73 |

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: yechihong
 Test Date: 2020-06-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity: 70%
 Test Distance: 8.425m [K=1.0000]
 Remarks:

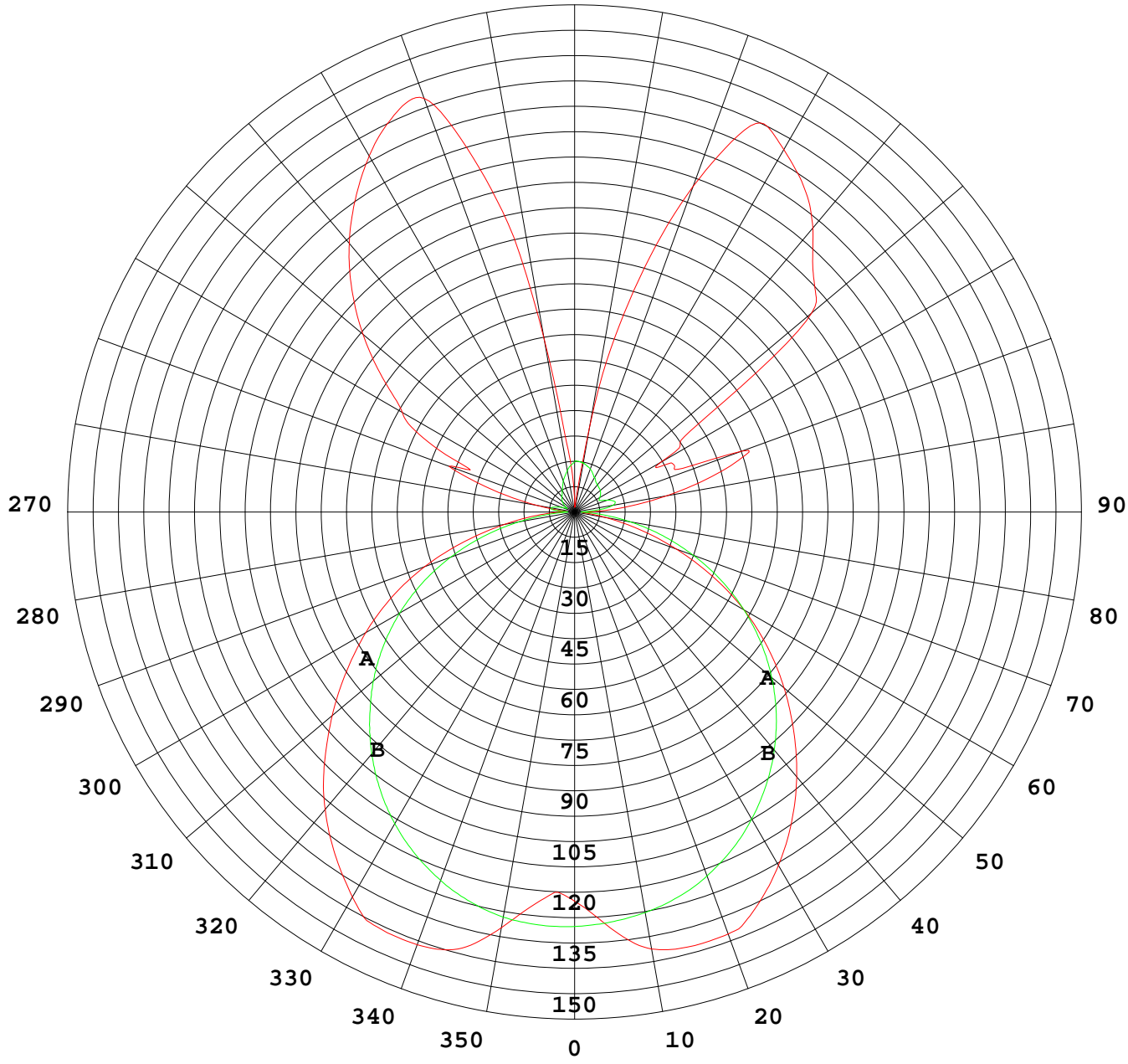
Photometric Data Table [cd]

| G/C | 300.0 | 310.0 | 320.0 | 330.0 | 340.0 | 350.0 |
|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 117.3 | 116.8 | 116.3 | 115.4 | 114.9 | 114.6 |
| 2.5 | 115.1 | 114.2 | 113.7 | 112.6 | 112.0 | 111.8 |
| 5.0 | 113.2 | 112.2 | 111.6 | 111.0 | 111.8 | 113.0 |
| 7.5 | 111.6 | 111.0 | 112.5 | 113.9 | 115.2 | 116.9 |
| 10.0 | 110.6 | 112.9 | 115.3 | 117.5 | 119.6 | 121.9 |
| 12.5 | 111.7 | 115.1 | 118.5 | 121.9 | 124.6 | 127.1 |
| 15.0 | 113.0 | 117.7 | 122.3 | 126.5 | 129.2 | 131.4 |
| 17.5 | 114.5 | 120.6 | 126.2 | 130.2 | 132.3 | 133.7 |
| 20.0 | 116.3 | 123.6 | 129.2 | 132.2 | 133.7 | 134.6 |
| 22.5 | 118.1 | 126.1 | 130.9 | 132.8 | 134.0 | 134.8 |
| 25.0 | 120.0 | 127.6 | 131.1 | 132.8 | 133.8 | 134.5 |
| 27.5 | 121.3 | 127.8 | 130.7 | 132.2 | 133.3 | 133.9 |
| 30.0 | 122.0 | 127.1 | 130.0 | 131.4 | 132.1 | 130.8 |
| 32.5 | 121.7 | 126.0 | 128.8 | 129.6 | 128.2 | 126.9 |
| 35.0 | 120.4 | 124.5 | 127.3 | 125.5 | 124.2 | 122.9 |
| 37.5 | 118.4 | 122.6 | 123.5 | 121.4 | 120.1 | 118.7 |
| 40.0 | 115.7 | 120.3 | 119.2 | 117.1 | 115.6 | 114.2 |
| 42.5 | 112.5 | 115.8 | 114.7 | 112.6 | 110.9 | 109.3 |
| 45.0 | 109.0 | 110.8 | 110.0 | 107.8 | 105.9 | 104.2 |
| 47.5 | 105.2 | 105.4 | 105.1 | 102.6 | 100.5 | 98.70 |
| 50.0 | 99.62 | 99.80 | 99.63 | 97.00 | 94.91 | 93.37 |
| 52.5 | 93.70 | 94.04 | 93.73 | 91.38 | 89.48 | 87.92 |
| 55.0 | 87.72 | 87.89 | 87.62 | 85.75 | 83.93 | 82.45 |
| 57.5 | 81.47 | 81.44 | 81.54 | 80.02 | 78.37 | 76.99 |
| 60.0 | 75.05 | 74.82 | 75.31 | 74.24 | 72.90 | 71.61 |
| 62.5 | 68.30 | 68.31 | 69.06 | 68.63 | 67.41 | 66.01 |
| 65.0 | 61.49 | 61.75 | 62.94 | 62.88 | 61.59 | 60.18 |
| 67.5 | 54.69 | 55.42 | 56.89 | 56.78 | 55.54 | 54.07 |
| 70.0 | 47.99 | 49.09 | 50.44 | 50.52 | 49.28 | 47.73 |
| 72.5 | 41.42 | 42.62 | 43.93 | 44.03 | 42.74 | 41.14 |
| 75.0 | 35.09 | 36.17 | 37.30 | 37.31 | 36.01 | 34.45 |
| 77.5 | 28.74 | 29.63 | 30.58 | 30.49 | 29.39 | 27.93 |
| 80.0 | 22.42 | 23.20 | 24.05 | 24.00 | 23.10 | 21.88 |
| 82.5 | 16.42 | 17.15 | 18.15 | 18.17 | 17.50 | 16.47 |
| 85.0 | 11.22 | 12.16 | 12.98 | 13.09 | 12.49 | 11.66 |
| 87.5 | 7.242 | 8.017 | 8.727 | 8.742 | 8.236 | 7.517 |
| 90.0 | 4.480 | 5.071 | 5.532 | 5.593 | 5.118 | 4.607 |
| 92.5 | 3.273 | 3.511 | 3.650 | 3.645 | 3.160 | 2.817 |
| 95.0 | 4.922 | 4.415 | 3.901 | 3.794 | 3.216 | 3.042 |
| 97.5 | 8.940 | 7.945 | 7.026 | 6.659 | 5.796 | 5.790 |
| 100.0 | 14.76 | 13.46 | 12.07 | 11.44 | 10.44 | 10.53 |
| 102.5 | 20.88 | 20.21 | 18.73 | 17.85 | 16.81 | 16.93 |
| 105.0 | 27.85 | 24.73 | 26.33 | 25.39 | 24.16 | 24.20 |
| 107.5 | 34.30 | 33.32 | 28.54 | 33.34 | 31.90 | 31.83 |
| 110.0 | 40.99 | 40.78 | 37.37 | 33.02 | 35.88 | 39.12 |
| 112.5 | 47.09 | 46.03 | 45.50 | 43.26 | 38.80 | 35.61 |
| 115.0 | 53.33 | 51.87 | 50.55 | 51.51 | 48.76 | 47.08 |
| 117.5 | 59.90 | 57.64 | 55.62 | 56.29 | 56.09 | 55.50 |
| 120.0 | 64.66 | 63.77 | 61.40 | 61.75 | 60.12 | 59.98 |
| 122.5 | 67.83 | 69.35 | 67.22 | 67.84 | 66.01 | 64.74 |
| 125.0 | 71.44 | 73.98 | 72.95 | 72.82 | 72.53 | 71.08 |
| 127.5 | 75.11 | 77.35 | 76.52 | 79.34 | 78.88 | 77.68 |
| 130.0 | 77.96 | 79.17 | 80.82 | 84.38 | 83.89 | 83.73 |
| 132.5 | 80.05 | 81.29 | 83.87 | 87.80 | 89.51 | 89.49 |
| 135.0 | 81.45 | 83.39 | 86.74 | 89.10 | 94.52 | 95.31 |
| 137.5 | 82.54 | 85.28 | 89.00 | 91.47 | 97.87 | 100.7 |
| 140.0 | 83.81 | 86.34 | 90.43 | 93.64 | 102.6 | 104.0 |
| 142.5 | 85.15 | 86.88 | 91.65 | 94.93 | 104.9 | 108.1 |
| 145.0 | 86.65 | 87.20 | 92.17 | 96.83 | 104.8 | 112.9 |
| 147.5 | 87.64 | 88.25 | 91.40 | 97.99 | 104.9 | 117.2 |
| 150.0 | 85.92 | 89.29 | 90.12 | 97.86 | 104.2 | 121.5 |
| 152.5 | 83.39 | 90.13 | 89.46 | 96.74 | 104.3 | 124.2 |
| 155.0 | 79.51 | 90.17 | 90.19 | 93.98 | 104.4 | 123.5 |
| 157.5 | 72.73 | 87.04 | 89.19 | 90.68 | 101.5 | 120.7 |
| 160.0 | 67.93 | 80.07 | 85.48 | 86.51 | 95.52 | 114.4 |
| 162.5 | 62.87 | 72.50 | 80.11 | 77.92 | 83.30 | 99.58 |
| 165.0 | 57.20 | 65.88 | 71.19 | 68.73 | 70.49 | 79.57 |
| 167.5 | 50.90 | 58.19 | 61.86 | 60.67 | 58.96 | 60.83 |
| 170.0 | 44.09 | 49.99 | 53.05 | 51.15 | 46.70 | 45.89 |
| 172.5 | 36.95 | 41.03 | 43.24 | 40.50 | 35.13 | 33.63 |
| 175.0 | 29.43 | 31.62 | 32.65 | 30.42 | 26.26 | 22.41 |
| 177.5 | 21.72 | 21.98 | 21.78 | 19.48 | 16.17 | 12.17 |
| 180.0 | 13.86 | 12.32 | 10.83 | 8.538 | 6.568 | 3.889 |

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: yechihong
Test Date: 2020-06-11

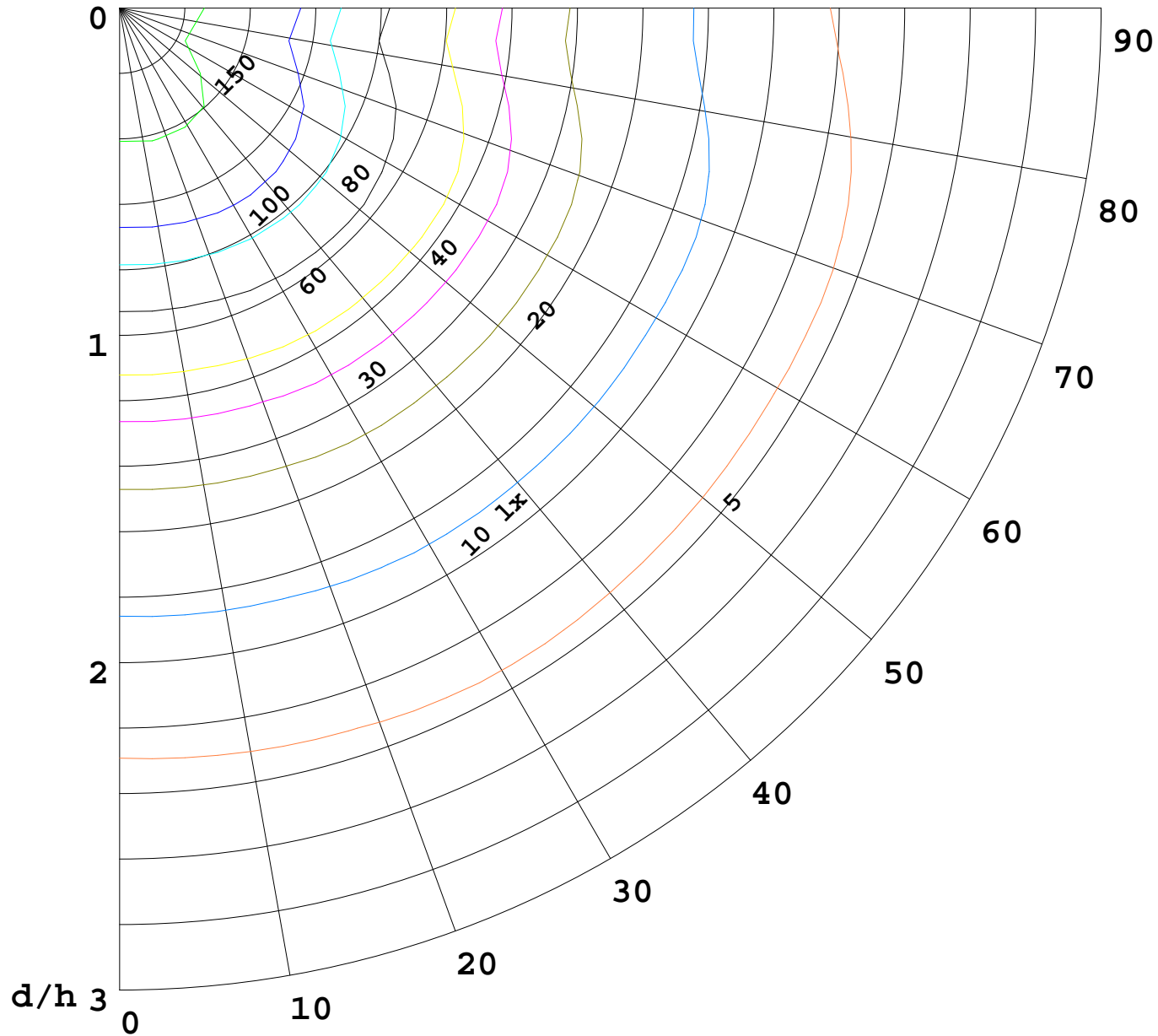
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.272
Humidity: 70%
Test Distance: 8.425m [K=1.0000]
Remarks:

I(cd)



1000 lm

$K = 1$



F = 5000 lm
K = 0.7
Hcc = 0.0 m
Hfc = 0.0 m
Eave = 100 lx

| | Pcc | Pw | Pfc |
|-------|------------|-----------|------------|
| ————— | 70 | 50 | 30 |
| ————— | 50 | 30 | 20 |

