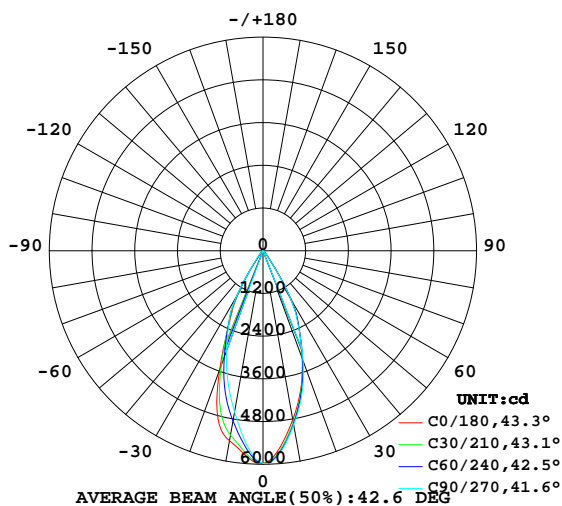


LUMINAIRE PHOTOMETRIC TEST REPORT

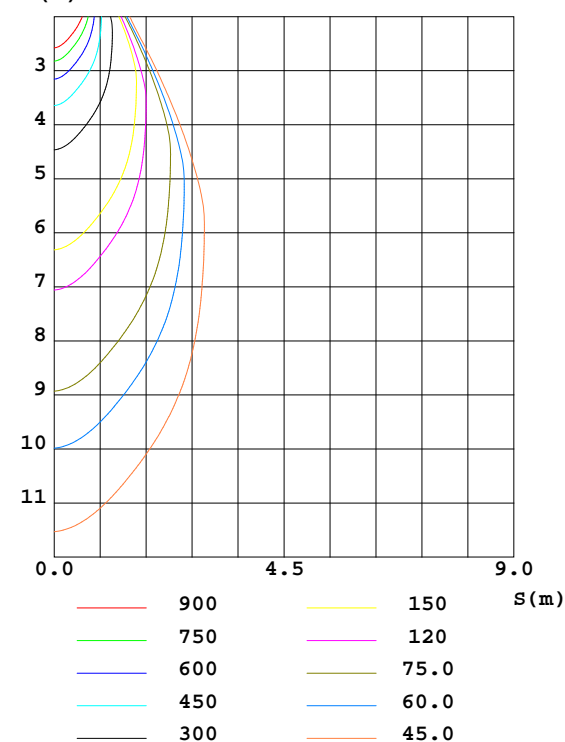
| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.1800A P:38.90W PF:0.9530 Lamp Flux:3363.58x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 86.47 lm/W | | | |
|------------------|-------------------|----------------------------------|--------|-------------------|----------|
| MODEL | DL18-40W-930-W-45 | Imax(cd) | 5993 | S/MH(C0/180) | 0.67 |
| NOMINAL POWER(W) | 38 | LOR(%) | 100.0 | S/MH(C90/270) | 0.68 |
| RATED VOLTAGE(V) | 226 | TOTAL FLUX(lm) | 3363.6 | η UP,DN(C0-180) | 1.3,49.5 |
| NOMINAL FLUX(lm) | 3363.58 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 1.4,47.9 |
| LAMPS INSIDE | 1 | η up(%) | 2.6 | CIBSE SHR NOM | 0.75 |
| TEST VOLTAGE(V) | 226.6 | η down(%) | 97.4 | CIBSE SHR MAX | 0.75 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-07-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.610m [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 | 4818 | 4946 | 4965 | 5133 | 5421 | 5035 | 4603 | 4608 | 0- 10 | 513.0 | 513.0 | 15.3,15.3 |
| 20 | 3224 | 3271 | 3290 | 3398 | 3570 | 3253 | 3008 | 3071 | 10- 20 | 1158 | 1671 | 49.7,49.7 |
| 30 | 1535 | 1616 | 1548 | 1532 | 1411 | 1418 | 1514 | 1509 | 20- 30 | 1072 | 2743 | 81.5,81.5 |
| 40 | 195.5 | 214.1 | 190.4 | 176.1 | 156.4 | 167.3 | 216.6 | 214.2 | 30- 40 | 384.7 | 3128 | 93,93 |
| 50 | 50.56 | 53.60 | 49.88 | 47.33 | 43.96 | 45.82 | 56.75 | 54.51 | 40- 50 | 78.36 | 3206 | 95.3,95.3 |
| 60 | 23.37 | 24.09 | 23.65 | 23.21 | 22.39 | 22.11 | 23.42 | 23.14 | 50- 60 | 30.06 | 3236 | 96.2,96.2 |
| 70 | 13.90 | 14.19 | 14.11 | 13.88 | 13.41 | 13.38 | 13.78 | 13.65 | 60- 70 | 17.67 | 3254 | 96.7,96.7 |
| 80 | 9.022 | 9.103 | 9.216 | 9.191 | 9.629 | 9.505 | 9.456 | 9.367 | 70- 80 | 11.92 | 3266 | 97.1,97.1 |
| 90 | 6.647 | 6.333 | 6.405 | 6.448 | 8.097 | 7.586 | 7.515 | 7.509 | 80- 90 | 8.969 | 3275 | 97.4,97.4 |
| 100 | 6.453 | 6.303 | 6.304 | 6.322 | 8.324 | 8.123 | 8.048 | 8.033 | 90-100 | 7.752 | 3282 | 97.6,97.6 |
| 110 | 7.554 | 7.547 | 7.629 | 7.554 | 9.469 | 9.515 | 9.396 | 9.363 | 100-110 | 8.171 | 3291 | 97.8,97.8 |
| 120 | 10.75 | 10.60 | 10.62 | 10.61 | 12.22 | 12.31 | 12.18 | 12.21 | 110-120 | 9.732 | 3300 | 98.1,98.1 |
| 130 | 15.58 | 15.30 | 15.29 | 15.23 | 16.31 | 16.55 | 16.48 | 16.58 | 120-130 | 12.13 | 3312 | 98.5,98.5 |
| 140 | 20.73 | 20.54 | 20.61 | 20.56 | 21.09 | 21.42 | 21.39 | 21.43 | 130-140 | 14.25 | 3327 | 98.9,98.9 |
| 150 | 24.98 | 24.79 | 24.85 | 24.99 | 25.30 | 25.51 | 25.32 | 25.34 | 140-150 | 14.54 | 3341 | 99.3,99.3 |
| 160 | 26.73 | 26.65 | 26.70 | 26.70 | 27.00 | 27.00 | 26.92 | 26.96 | 150-160 | 12.09 | 3353 | 99.7,99.7 |
| 170 | 26.87 | 27.14 | 27.22 | 27.14 | 27.40 | 27.33 | 27.29 | 27.25 | 160-170 | 7.668 | 3361 | 99.9,99.9 |
| 180 | 27.83 | 27.83 | 27.78 | 27.75 | 27.83 | 27.83 | 27.78 | 27.75 | 170-180 | 2.613 | 3364 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

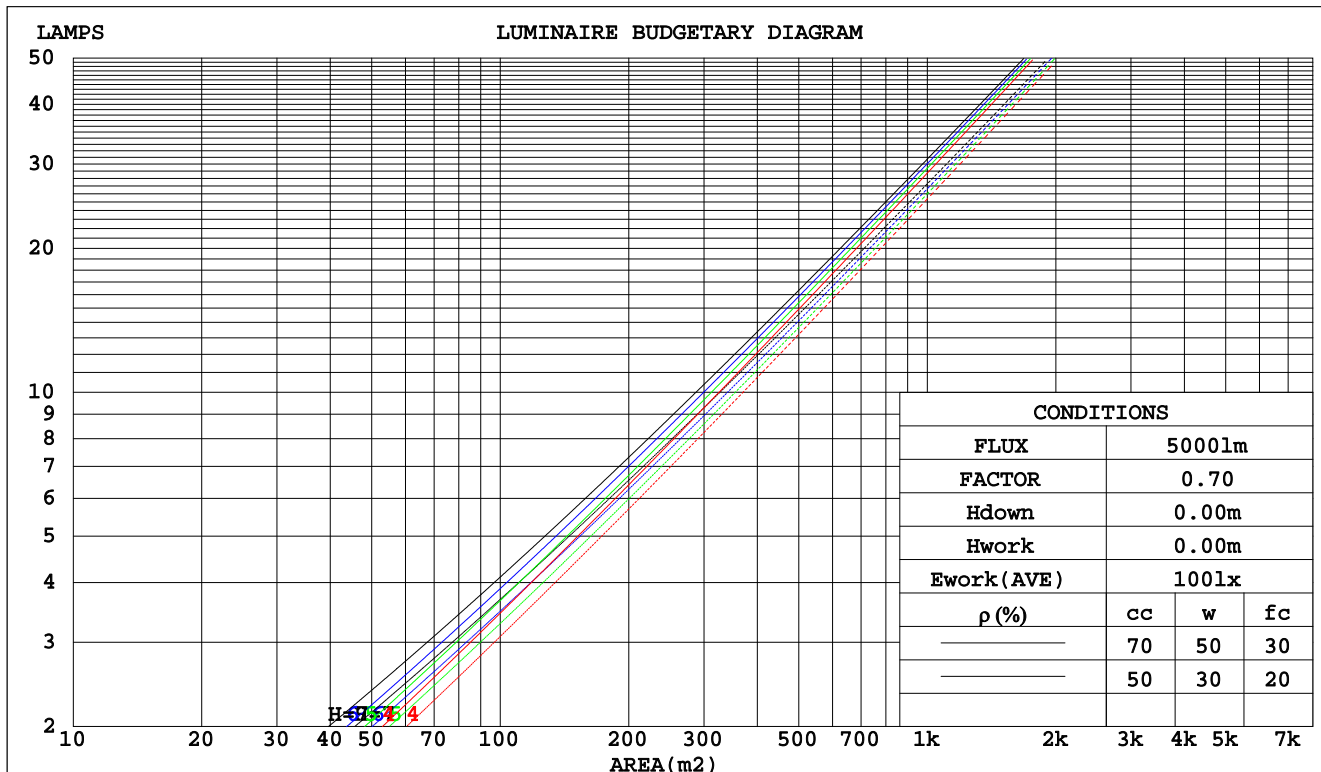
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-07-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.610m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.1800A P:38.90W PF:0.9530 Lamp Flux:3363.58x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | 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 | 1.18 | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 1.10 | 1.10 | 1.10 | 1.04 | 1.04 | 1.04 | .00 | .00 | .00 | .97 | | | | | | | | | | | | | | |
| 1.0 | 1.10 | 1.08 | 1.06 | 1.08 | 1.06 | 1.04 | 1.04 | 1.02 | 1.00 | .99 | .98 | .97 | .96 | .95 | .94 | .92 | | | | | | | | | | | | | | |
| 2.0 | 1.03 | .00 | .96 | 1.02 | .98 | .95 | .98 | .95 | .93 | .95 | .92 | .90 | .91 | .90 | .88 | .86 | | | | | | | | | | | | | | |
| 3.0 | .97 | .93 | .89 | .96 | .91 | .88 | .93 | .89 | .86 | .90 | .87 | .85 | .87 | .85 | .83 | .81 | | | | | | | | | | | | | | |
| 4.0 | .92 | .87 | .83 | .90 | .86 | .82 | .88 | .84 | .81 | .86 | .82 | .80 | .84 | .81 | .78 | .77 | | | | | | | | | | | | | | |
| 5.0 | .87 | .81 | .77 | .86 | .81 | .77 | .84 | .79 | .76 | .82 | .78 | .75 | .80 | .77 | .74 | .73 | | | | | | | | | | | | | | |
| 6.0 | .82 | .77 | .73 | .81 | .76 | .72 | .79 | .75 | .72 | .78 | .74 | .71 | .76 | .73 | .70 | .69 | | | | | | | | | | | | | | |
| 7.0 | .78 | .72 | .69 | .77 | .72 | .68 | .76 | .71 | .68 | .74 | .70 | .67 | .73 | .69 | .67 | .65 | | | | | | | | | | | | | | |
| 8.0 | .74 | .69 | .65 | .73 | .68 | .65 | .72 | .68 | .64 | .71 | .67 | .64 | .70 | .66 | .63 | .62 | | | | | | | | | | | | | | |
| 9.0 | .71 | .65 | .62 | .70 | .65 | .61 | .69 | .64 | .61 | .68 | .64 | .61 | .67 | .63 | .60 | .59 | | | | | | | | | | | | | | |
| 10.0 | .67 | .62 | .59 | .67 | .62 | .58 | .66 | .61 | .58 | .65 | .61 | .58 | .64 | .60 | .58 | .56 | | | | | | | | | | | | | | |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-07-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.610m [K=1.0000]
Remarks:

WEC AND CCEC

| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.1800A P:38.90W PF:0.9530 Lamp Flux:3363.58x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

| pcc | 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 | .171 | .097 | .031 | .163 | .093 | .030 | .149 | .086 | .027 | .136 | .079 | .025 | .124 | .072 | .023 | | |
| 2.0 | .161 | .088 | .027 | .154 | .085 | .026 | .142 | .079 | .025 | .131 | .074 | .023 | .121 | .069 | .022 | | |
| 3.0 | .151 | .081 | .024 | .146 | .078 | .024 | .136 | .074 | .022 | .126 | .069 | .021 | .118 | .065 | .020 | | |
| 4.0 | .143 | .074 | .022 | .138 | .072 | .021 | .130 | .069 | .021 | .121 | .065 | .020 | .114 | .062 | .019 | | |
| 5.0 | .136 | .069 | .020 | .132 | .068 | .020 | .124 | .065 | .019 | .117 | .062 | .018 | .110 | .059 | .018 | | |
| 6.0 | .129 | .065 | .019 | .126 | .063 | .018 | .119 | .061 | .018 | .112 | .058 | .017 | .106 | .056 | .017 | | |
| 7.0 | .123 | .061 | .017 | .120 | .060 | .017 | .114 | .058 | .017 | .108 | .055 | .016 | .103 | .053 | .016 | | |
| 8.0 | .118 | .058 | .016 | .115 | .057 | .016 | .109 | .055 | .016 | .104 | .053 | .015 | .099 | .051 | .015 | | |
| 9.0 | .113 | .055 | .015 | .110 | .054 | .015 | .105 | .052 | .015 | .101 | .050 | .014 | .096 | .049 | .014 | | |
| 10.0 | .108 | .052 | .014 | .106 | .051 | .014 | .101 | .050 | .014 | .097 | .048 | .014 | .093 | .047 | .013 | | |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-----------------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| p _w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| p _{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .211 | .211 | .211 | .180 | .180 | .180 | .123 | .123 | .123 | .071 | .071 | .071 | .023 | .023 | .023 | |
| 1.0 | .191 | .178 | .166 | .163 | .152 | .143 | .112 | .105 | .099 | .064 | .061 | .057 | .021 | .020 | .019 | |
| 2.0 | .175 | .153 | .134 | .150 | .132 | .116 | .103 | .091 | .081 | .059 | .053 | .047 | .019 | .017 | .015 | |
| 3.0 | .162 | .134 | .112 | .139 | .116 | .097 | .095 | .080 | .068 | .055 | .047 | .040 | .018 | .015 | .013 | |
| 4.0 | .151 | .119 | .095 | .130 | .103 | .082 | .089 | .072 | .058 | .052 | .042 | .034 | .017 | .014 | .011 | |
| 5.0 | .142 | .108 | .082 | .122 | .093 | .071 | .084 | .065 | .050 | .049 | .038 | .030 | .016 | .012 | .010 | |
| 6.0 | .134 | .098 | .072 | .116 | .085 | .063 | .080 | .059 | .044 | .046 | .035 | .026 | .015 | .011 | .009 | |
| 7.0 | .128 | .090 | .064 | .110 | .078 | .056 | .076 | .055 | .040 | .044 | .032 | .024 | .014 | .011 | .008 | |
| 8.0 | .122 | .084 | .058 | .105 | .073 | .051 | .073 | .051 | .036 | .042 | .030 | .021 | .014 | .010 | .007 | |
| 9.0 | .117 | .079 | .053 | .100 | .068 | .047 | .070 | .048 | .033 | .041 | .028 | .020 | .013 | .009 | .007 | |
| 10.0 | .112 | .074 | .049 | .097 | .065 | .043 | .067 | .045 | .031 | .039 | .027 | .018 | .013 | .009 | .006 | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-07-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.610m [K=1.0000]
Remarks:

Uncorrected UGR Table

| | | | | | | | | | | | |
|---|-----|------------------|------|------|--------|------|----------------|-------------------|------|------|------|
| Test:U:226.6V I:0.1800A P:38.90W PF:0.9530 Lamp Flux:3363.58x1 lm | | | | | | | | | | | |
| NAME: | | | | | TYPE: | | | WEIGHT: | | | |
| DIM.: | | | | | SPEC.: | | | SERIAL No.: | | | |
| MFR.: Rayconn | | | | | SUR.: | | | 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 | | 18.1 | 18.9 | 18.3 | 19.1 | 19.3 | 18.2 | 19.0 | 18.4 | 19.2 | 19.4 |
| | 3H | 18.1 | 18.8 | 18.3 | 19.1 | 19.3 | 18.1 | 18.9 | 18.4 | 19.2 | 19.4 |
| | 4H | 18.1 | 18.8 | 18.4 | 19.1 | 19.3 | 18.2 | 18.9 | 18.5 | 19.2 | 19.4 |
| | 6H | 18.1 | 18.8 | 18.4 | 19.1 | 19.4 | 18.2 | 18.9 | 18.5 | 19.2 | 19.5 |
| | 8H | 18.1 | 18.8 | 18.5 | 19.1 | 19.4 | 18.2 | 18.9 | 18.6 | 19.2 | 19.5 |
| | 12H | 18.2 | 18.9 | 18.6 | 19.2 | 19.5 | 18.3 | 19.0 | 18.7 | 19.3 | 19.6 |
| 4H | 2H | 17.9 | 18.6 | 18.2 | 18.9 | 19.2 | 18.0 | 18.7 | 18.3 | 19.0 | 19.3 |
| | 3H | 17.9 | 18.6 | 18.3 | 18.9 | 19.2 | 18.0 | 18.6 | 18.4 | 19.0 | 19.3 |
| | 4H | 18.0 | 18.5 | 18.4 | 18.9 | 19.2 | 18.1 | 18.6 | 18.4 | 19.0 | 19.3 |
| | 6H | 18.1 | 18.6 | 18.5 | 19.0 | 19.4 | 18.2 | 18.7 | 18.6 | 19.1 | 19.5 |
| | 8H | 18.2 | 18.7 | 18.6 | 19.1 | 19.5 | 18.3 | 18.8 | 18.7 | 19.1 | 19.6 |
| | 12H | 18.3 | 18.8 | 18.8 | 19.2 | 19.6 | 18.4 | 18.9 | 18.9 | 19.3 | 19.7 |
| 8H | 4H | 17.9 | 18.4 | 18.3 | 18.8 | 19.2 | 18.0 | 18.5 | 18.4 | 18.9 | 19.3 |
| | 6H | 18.1 | 18.5 | 18.6 | 18.9 | 19.4 | 18.2 | 18.6 | 18.7 | 19.0 | 19.5 |
| | 8H | 18.3 | 18.6 | 18.8 | 19.1 | 19.6 | 18.4 | 18.7 | 18.9 | 19.2 | 19.7 |
| | 12H | 18.6 | 18.9 | 19.1 | 19.4 | 19.9 | 18.7 | 19.0 | 19.2 | 19.5 | 20.0 |
| 12H | 4H | 17.9 | 18.3 | 18.3 | 18.7 | 19.2 | 18.0 | 18.4 | 18.4 | 18.8 | 19.3 |
| | 6H | 18.1 | 18.5 | 18.6 | 18.9 | 19.4 | 18.2 | 18.5 | 18.7 | 19.0 | 19.5 |
| | 8H | 18.3 | 18.6 | 18.8 | 19.1 | 19.6 | 18.4 | 18.7 | 18.9 | 19.2 | 19.7 |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | | + 1.8 / - 2.1 | | | | | + 1.7 / - 2.0 | | | | |
| 1.5H | | + 3.4 / - 1.9 | | | | | + 3.3 / - 1.8 | | | | |
| 2.0H | | + 1.8 / - 0.7 | | | | | + 1.7 / - 0.6 | | | | |

CIE Pub.117 Corrected 3364 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.2)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-07-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.610m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.1800A P:38.90W PF:0.9530 Lamp Flux:3363.58x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

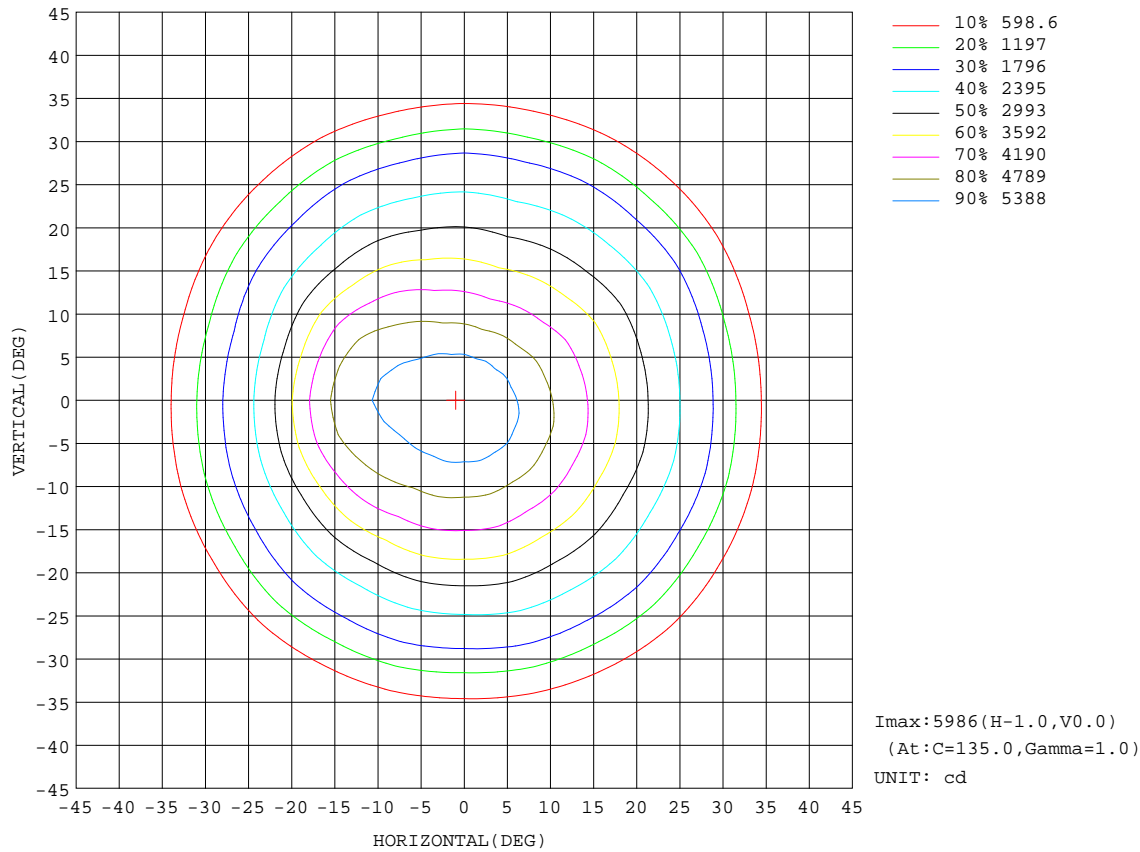
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 87 | 81 | 77 | 87 | 81 | 77 | 86 | 80 | 77 | 73 |
| 0.80 | 94 | 89 | 85 | 94 | 88 | 85 | 92 | 88 | 84 | 81 |
| 1.00 | 99 | 93 | 89 | 98 | 93 | 89 | 96 | 92 | 88 | 84 |
| 1.25 | 102 | 97 | 94 | 101 | 97 | 93 | 99 | 95 | 92 | 88 |
| 1.50 | 105 | 100 | 97 | 104 | 100 | 96 | 101 | 98 | 95 | 90 |
| 2.00 | 108 | 103 | 100 | 106 | 102 | 99 | 103 | 100 | 98 | 92 |
| 2.50 | 109 | 106 | 103 | 108 | 104 | 101 | 104 | 101 | 99 | 93 |
| 3.00 | 111 | 107 | 105 | 109 | 106 | 103 | 105 | 103 | 101 | 94 |
| 4.00 | 113 | 110 | 108 | 111 | 108 | 106 | 107 | 105 | 103 | 95 |
| 5.00 | 114 | 112 | 110 | 112 | 110 | 108 | 108 | 106 | 105 | 96 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-07-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.610m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.1800A P:38.90W PF:0.9530 Lamp Flux:3363.58x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

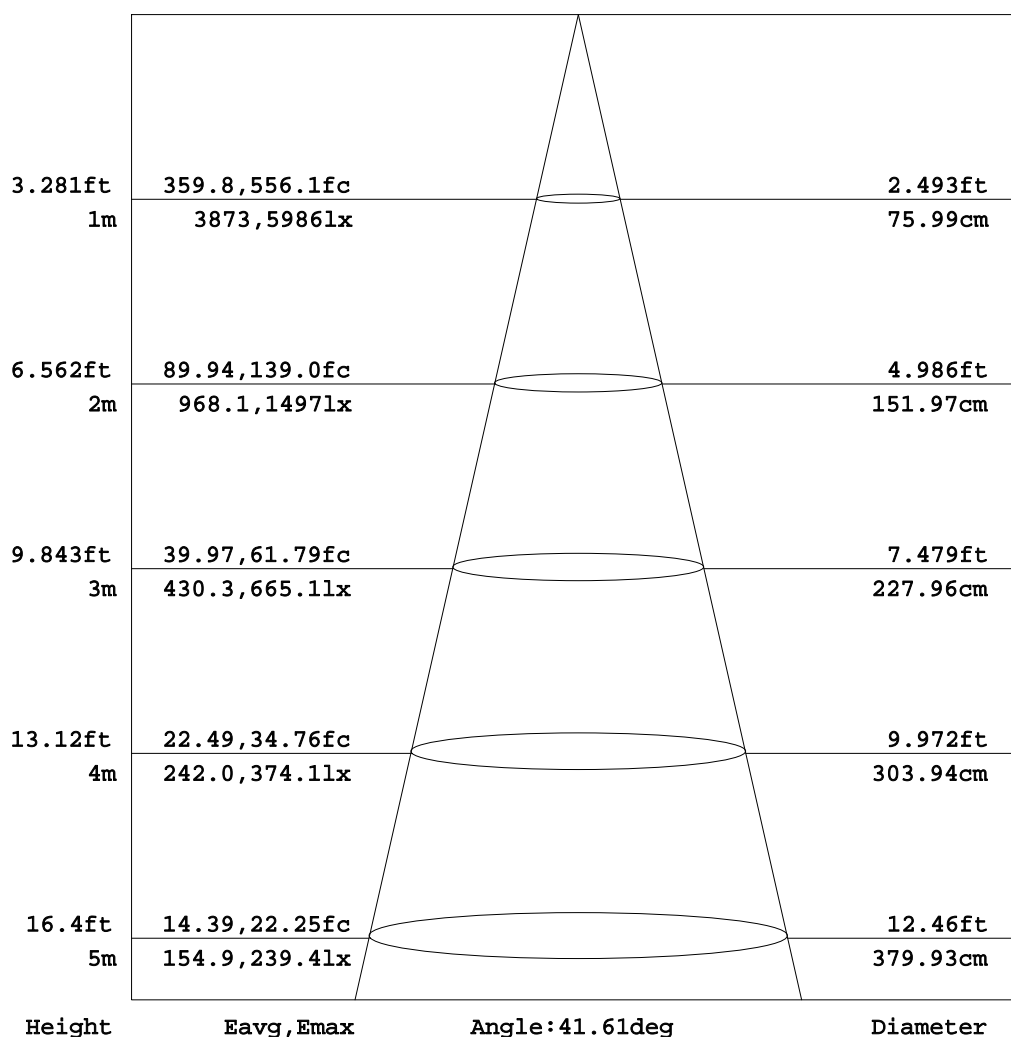


| | |
|----------------------|--|
| C Range: 0 - 360DEG | γ Range: 0 - 180DEG |
| C Interval: 15.0DEG | γ Interval: 1.0DEG |
| Test Speed: HIGH | Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265 |
| Temperature:25.3DEG | Humidity:65.0% |
| Operators:ZhangXiao | Test Distance:6.610m [K=1.0000] |
| Test Date:2016-07-29 | Remarks: |

AAI Figure

| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.1800A P:38.90W PF:0.9530 Lamp Flux:3363.58x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

Flux out:1793 lm



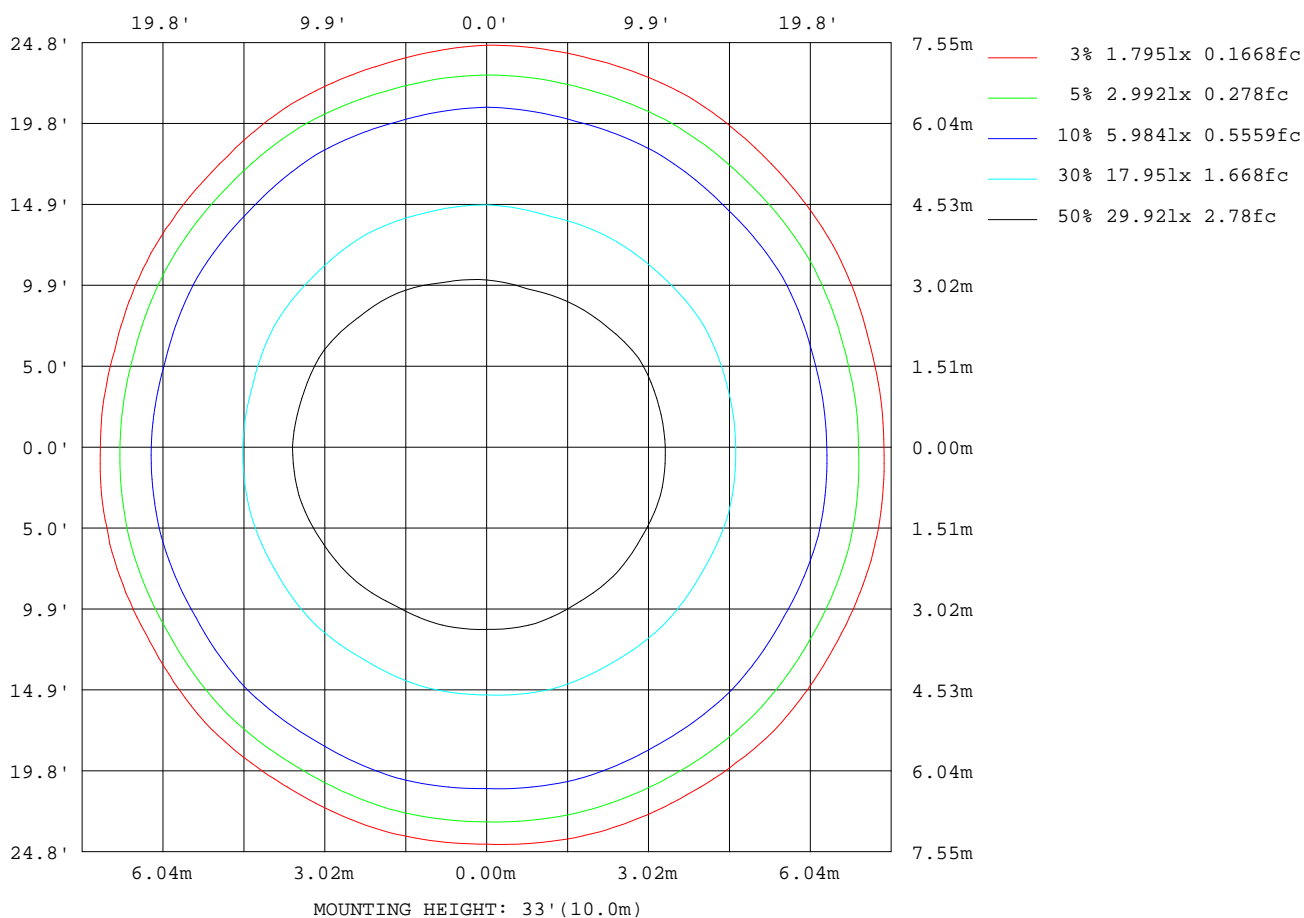
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-07-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.610m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

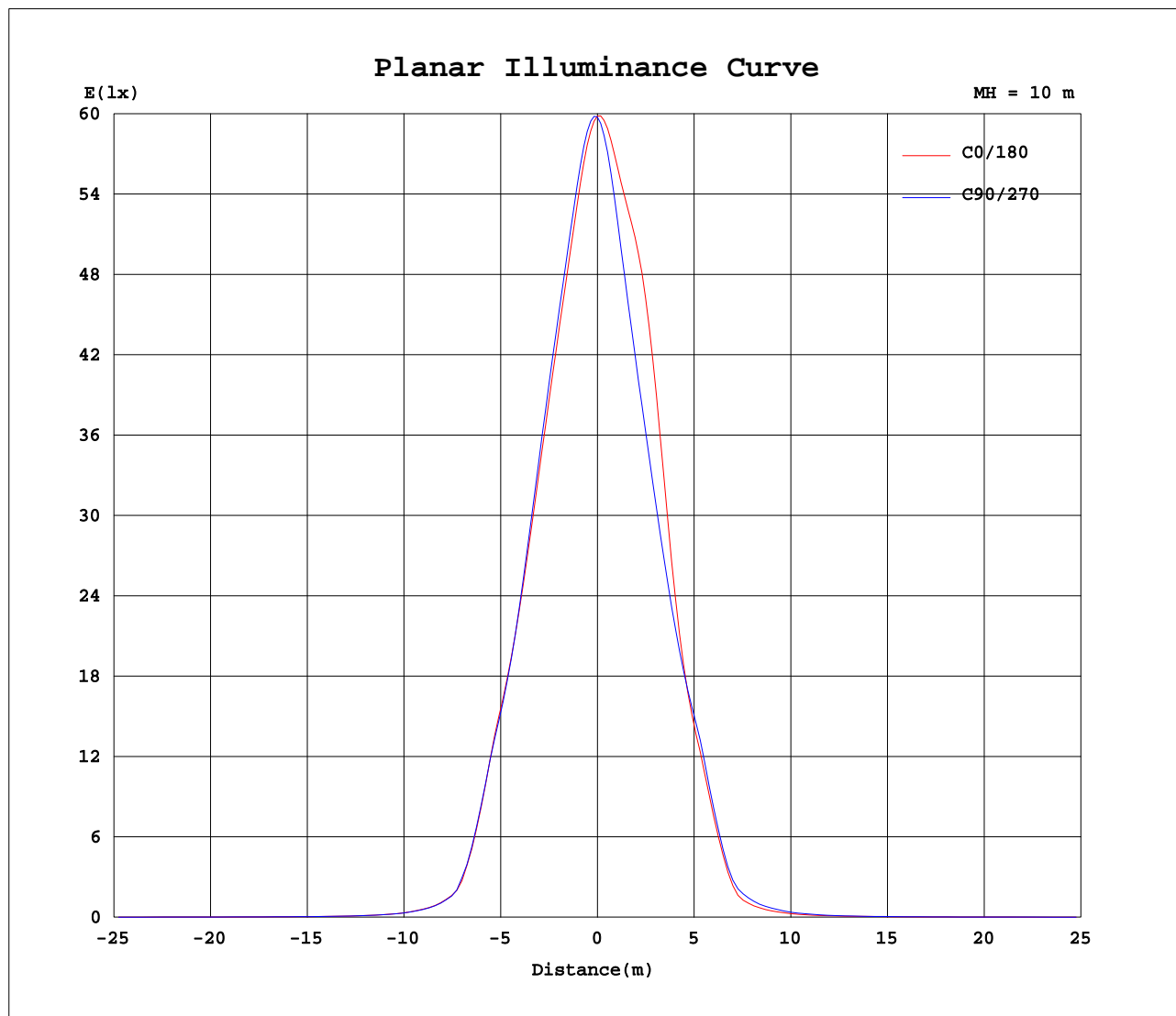
| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.1800A P:38.90W PF:0.9530 Lamp Flux:3363.58x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-07-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.610m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-07-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.610m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--------|--|--|--|--|-------------------|--|--|--|--|
| Test:U:226.6V I:0.1800A P:38.90W PF:0.9530 Lamp Flux:3363.58x1 lm | | | | | | | | | | | | | | | | | | | |
| NAME: | | | | | | | | | | TYPE: | | | | | WEIGHT: | | | | |
| DIM.: | | | | | | | | | | SPEC.: | | | | | SERIAL No.: | | | | |
| MFR.: Rayconn | | | | | | | | | | SUR.: | | | | | PROTECTION ANGLE: | | | | |

Table--1

UNIT: cd

| C(DEG) γ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 5976 | 5976 | 5976 | 5976 | 5976 | 5976 | 5976 | 5976 | 5976 | 5976 | 5976 | 5976 | 5976 | 5976 | 5976 | 5976 | 5976 | 5976 | 5976 |
| 5 | 5540 | 5598 | 5615 | 5660 | 5658 | 5697 | 5680 | 5718 | 5706 | 5742 | 5740 | 5773 | 5760 | 5720 | 5691 | 5606 | 5552 | 5466 | 5441 |
| 10 | 4818 | 4887 | 4900 | 4946 | 4937 | 4978 | 4965 | 5014 | 5029 | 5133 | 5234 | 5367 | 5421 | 5380 | 5258 | 5035 | 4860 | 4674 | 4603 |
| 15 | 4074 | 4128 | 4115 | 4157 | 4144 | 4216 | 4205 | 4255 | 4271 | 4440 | 4602 | 4820 | 4889 | 4779 | 4624 | 4318 | 4111 | 3895 | 3814 |
| 20 | 3224 | 3262 | 3231 | 3271 | 3256 | 3318 | 3290 | 3315 | 3286 | 3398 | 3443 | 3563 | 3570 | 3460 | 3434 | 3253 | 3182 | 3047 | 3008 |
| 25 | 2392 | 2423 | 2394 | 2426 | 2402 | 2425 | 2368 | 2373 | 2318 | 2347 | 2296 | 2305 | 2262 | 2231 | 2293 | 2277 | 2309 | 2279 | 2284 |
| 30 | 1535 | 1593 | 1568 | 1616 | 1581 | 1605 | 1548 | 1575 | 1523 | 1532 | 1455 | 1454 | 1411 | 1359 | 1427 | 1418 | 1484 | 1471 | 1514 |
| 35 | 495 | 545 | 555 | 580 | 567 | 561 | 537 | 532 | 490 | 500 | 448 | 457 | 429 | 402 | 435 | 434 | 479 | 470 | 504 |
| 40 | 196 | 205 | 205 | 214 | 204 | 203 | 190 | 189 | 179 | 176 | 162 | 159 | 156 | 148 | 158 | 167 | 186 | 198 | 217 |
| 45 | 95.2 | 99.6 | 99.8 | 103 | 98.8 | 98.0 | 92.7 | 92.3 | 87.6 | 86.2 | 80.6 | 79.1 | 76.0 | 73.9 | 78.7 | 81.8 | 91.3 | 96.9 | 108 |
| 50 | 50.6 | 52.4 | 52.7 | 53.6 | 52.0 | 51.8 | 49.9 | 49.6 | 47.8 | 47.3 | 45.6 | 45.0 | 44.0 | 43.2 | 44.8 | 45.8 | 49.4 | 52.0 | 56.7 |
| 55 | 32.4 | 33.3 | 33.4 | 33.6 | 33.1 | 33.1 | 32.5 | 32.5 | 31.7 | 31.6 | 31.2 | 31.2 | 30.6 | 30.0 | 30.6 | 30.6 | 31.7 | 32.4 | 34.2 |
| 60 | 23.4 | 24.0 | 23.9 | 24.1 | 23.7 | 24.0 | 23.6 | 23.7 | 23.1 | 23.2 | 22.8 | 22.8 | 22.4 | 22.0 | 22.3 | 22.1 | 22.6 | 22.8 | 23.4 |
| 65 | 17.9 | 18.2 | 18.2 | 18.2 | 18.0 | 18.2 | 18.1 | 18.1 | 17.8 | 17.7 | 17.5 | 17.3 | 17.0 | 16.7 | 17.0 | 16.9 | 17.2 | 17.3 | 17.6 |
| 70 | 13.9 | 14.2 | 14.1 | 14.2 | 14.0 | 14.2 | 14.1 | 14.2 | 14.0 | 13.9 | 13.7 | 13.6 | 13.4 | 13.3 | 13.5 | 13.4 | 13.6 | 13.6 | 13.8 |
| 75 | 11.1 | 11.3 | 11.3 | 11.3 | 11.2 | 11.3 | 11.3 | 11.3 | 11.2 | 11.2 | 11.1 | 11.0 | 11.2 | 11.1 | 11.1 | 11.0 | 11.2 | 11.1 | 11.2 |
| 80 | 9.02 | 9.05 | 9.02 | 9.10 | 9.07 | 9.20 | 9.22 | 9.28 | 9.29 | 9.19 | 9.12 | 9.13 | 9.63 | 9.63 | 9.56 | 9.51 | 9.47 | 9.47 | 9.46 |
| 85 | 7.71 | 7.71 | 7.67 | 7.78 | 7.81 | 7.89 | 7.90 | 7.96 | 7.94 | 7.92 | 7.91 | 8.01 | 8.91 | 8.71 | 8.60 | 8.58 | 8.56 | 8.52 | 8.48 |
| 90 | 6.65 | 6.50 | 6.30 | 6.33 | 6.38 | 6.39 | 6.41 | 6.45 | 6.51 | 6.45 | 6.49 | 6.64 | 8.10 | 7.78 | 7.59 | 7.59 | 7.60 | 7.56 | 7.51 |
| 95 | 6.66 | 6.39 | 6.25 | 6.24 | 6.27 | 6.25 | 6.28 | 6.27 | 6.38 | 6.31 | 6.36 | 6.46 | 8.34 | 8.03 | 7.82 | 7.83 | 7.80 | 7.80 | 7.76 |
| 100 | 6.45 | 6.38 | 6.30 | 6.30 | 6.30 | 6.30 | 6.30 | 6.30 | 6.39 | 6.32 | 6.35 | 6.44 | 8.32 | 8.19 | 8.10 | 8.12 | 8.08 | 8.09 | 8.05 |
| 105 | 6.74 | 6.71 | 6.72 | 6.70 | 6.74 | 6.72 | 6.74 | 6.71 | 6.79 | 6.71 | 6.75 | 6.77 | 8.67 | 8.67 | 8.62 | 8.66 | 8.61 | 8.63 | 8.57 |
| 110 | 7.55 | 7.50 | 7.57 | 7.55 | 7.61 | 7.58 | 7.63 | 7.58 | 7.62 | 7.55 | 7.60 | 7.57 | 9.47 | 9.51 | 9.46 | 9.51 | 9.45 | 9.49 | 9.40 |
| 115 | 8.88 | 8.80 | 8.89 | 8.83 | 8.90 | 8.85 | 8.92 | 8.87 | 8.94 | 8.86 | 8.94 | 8.88 | 10.7 | 10.7 | 10.7 | 10.7 | 10.6 | 10.7 | 10.6 |
| 120 | 10.7 | 10.6 | 10.7 | 10.6 | 10.6 | 10.5 | 10.6 | 10.6 | 10.7 | 10.6 | 10.7 | 10.7 | 12.2 | 12.3 | 12.2 | 12.3 | 12.2 | 12.3 | 12.2 |
| 125 | 13.0 | 12.9 | 12.9 | 12.8 | 12.8 | 12.7 | 12.7 | 12.7 | 12.8 | 12.7 | 12.9 | 12.8 | 14.1 | 14.2 | 14.2 | 14.3 | 14.2 | 14.3 | 14.2 |
| 130 | 15.6 | 15.4 | 15.5 | 15.3 | 15.4 | 15.2 | 15.3 | 15.2 | 15.3 | 15.2 | 15.4 | 15.3 | 16.3 | 16.4 | 16.4 | 16.6 | 16.5 | 16.6 | 16.5 |
| 135 | 18.2 | 18.1 | 18.1 | 18.0 | 18.1 | 18.0 | 18.0 | 17.9 | 18.0 | 17.9 | 18.1 | 18.0 | 18.7 | 18.8 | 18.9 | 19.0 | 18.9 | 19.0 | 19.0 |
| 140 | 20.7 | 20.6 | 20.6 | 20.5 | 20.6 | 20.6 | 20.6 | 20.5 | 20.6 | 20.6 | 20.7 | 20.6 | 21.1 | 21.2 | 21.2 | 21.4 | 21.3 | 21.5 | 21.4 |
| 145 | 23.1 | 22.9 | 22.9 | 22.9 | 22.9 | 23.1 | 23.0 | 22.9 | 23.0 | 23.1 | 23.9 | 23.1 | 23.4 | 23.5 | 23.7 | 24.0 | 23.6 | 23.7 | 23.6 |
| 150 | 25.0 | 24.9 | 24.9 | 24.8 | 24.8 | 24.9 | 24.9 | 24.8 | 24.9 | 25.0 | 25.3 | 25.0 | 25.3 | 25.4 | 25.4 | 25.5 | 25.3 | 25.4 | 25.3 |
| 155 | 26.2 | 26.1 | 26.1 | 26.0 | 26.0 | 26.0 | 26.1 | 26.1 | 26.1 | 26.1 | 26.2 | 26.2 | 26.5 | 26.5 | 26.5 | 26.5 | 26.4 | 26.5 | 26.4 |
| 160 | 26.7 | 26.7 | 26.7 | 26.6 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 26.9 |
| 165 | 26.9 | 26.9 | 26.9 | 27.0 | 27.0 | 27.1 | 27.1 | 27.1 | 27.0 | 27.0 | 27.0 | 27.0 | 27.3 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 |
| 170 | 26.9 | 26.9 | 27.1 | 27.1 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 27.1 | 27.1 | 27.1 | 27.4 | 27.4 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 |
| 175 | 27.3 | 27.3 | 27.4 | 27.4 | 27.5 | 27.5 | 27.4 | 27.4 | 27.4 | 27.4 | 27.3 | 27.3 | 27.6 | 27.6 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 |
| 180 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.7 | 27.7 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-07-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.610m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.1800A P:38.90W PF:0.9530 Lamp Flux:3363.58x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

Table--2

UNIT: cd

| C(DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 5976 | 5976 | 5976 | 5976 | 5976 | | | | | | | | | | | | | | |
| 5 | 5391 | 5416 | 5406 | 5469 | 5486 | | | | | | | | | | | | | | |
| 10 | 4529 | 4577 | 4608 | 4714 | 4754 | | | | | | | | | | | | | | |
| 15 | 3729 | 3799 | 3864 | 3996 | 4029 | | | | | | | | | | | | | | |
| 20 | 2930 | 3007 | 3071 | 3194 | 3197 | | | | | | | | | | | | | | |
| 25 | 2243 | 2294 | 2322 | 2392 | 2382 | | | | | | | | | | | | | | |
| 30 | 1487 | 1520 | 1509 | 1559 | 1521 | | | | | | | | | | | | | | |
| 35 | 491 | 514 | 500 | 516 | 479 | | | | | | | | | | | | | | |
| 40 | 222 | 227 | 214 | 207 | 194 | | | | | | | | | | | | | | |
| 45 | 112 | 114 | 105 | 100 | 93.5 | | | | | | | | | | | | | | |
| 50 | 58.0 | 58.7 | 54.5 | 52.4 | 49.7 | | | | | | | | | | | | | | |
| 55 | 34.3 | 34.5 | 33.2 | 32.6 | 31.7 | | | | | | | | | | | | | | |
| 60 | 23.2 | 23.4 | 23.1 | 23.1 | 22.7 | | | | | | | | | | | | | | |
| 65 | 17.4 | 17.5 | 17.5 | 17.6 | 17.4 | | | | | | | | | | | | | | |
| 70 | 13.6 | 13.7 | 13.6 | 13.8 | 13.6 | | | | | | | | | | | | | | |
| 75 | 11.1 | 11.1 | 11.1 | 11.3 | 11.1 | | | | | | | | | | | | | | |
| 80 | 9.44 | 9.38 | 9.37 | 9.38 | 9.43 | | | | | | | | | | | | | | |
| 85 | 8.46 | 8.42 | 8.43 | 8.44 | 8.53 | | | | | | | | | | | | | | |
| 90 | 7.52 | 7.49 | 7.51 | 7.51 | 7.64 | | | | | | | | | | | | | | |
| 95 | 7.77 | 7.74 | 7.76 | 7.74 | 7.90 | | | | | | | | | | | | | | |
| 100 | 8.06 | 8.02 | 8.03 | 8.01 | 8.07 | | | | | | | | | | | | | | |
| 105 | 8.59 | 8.53 | 8.54 | 8.48 | 8.54 | | | | | | | | | | | | | | |
| 110 | 9.42 | 9.33 | 9.36 | 9.29 | 9.33 | | | | | | | | | | | | | | |
| 115 | 10.6 | 10.5 | 10.6 | 10.5 | 10.5 | | | | | | | | | | | | | | |
| 120 | 12.2 | 12.1 | 12.2 | 12.1 | 12.2 | | | | | | | | | | | | | | |
| 125 | 14.2 | 14.2 | 14.3 | 14.2 | 14.3 | | | | | | | | | | | | | | |
| 130 | 16.6 | 16.5 | 16.6 | 16.5 | 16.6 | | | | | | | | | | | | | | |
| 135 | 19.1 | 19.0 | 19.0 | 18.9 | 19.0 | | | | | | | | | | | | | | |
| 140 | 21.5 | 21.4 | 21.4 | 21.3 | 21.4 | | | | | | | | | | | | | | |
| 145 | 23.8 | 23.6 | 23.6 | 23.4 | 23.5 | | | | | | | | | | | | | | |
| 150 | 25.5 | 25.3 | 25.3 | 25.2 | 25.3 | | | | | | | | | | | | | | |
| 155 | 26.5 | 26.4 | 26.4 | 26.4 | 26.5 | | | | | | | | | | | | | | |
| 160 | 26.9 | 26.9 | 27.0 | 26.9 | 27.0 | | | | | | | | | | | | | | |
| 165 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | | | | | | | | | | | | | | |
| 170 | 27.3 | 27.2 | 27.2 | 27.2 | 27.2 | | | | | | | | | | | | | | |
| 175 | 27.5 | 27.4 | 27.5 | 27.4 | 27.4 | | | | | | | | | | | | | | |
| 180 | 27.8 | 27.7 | 27.8 | 27.7 | 27.7 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-07-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.610m [K=1.0000]
Remarks: