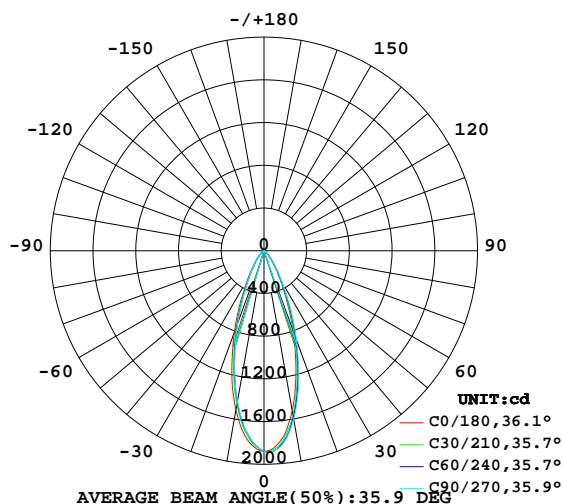


LUMINAIRE PHOTOMETRIC TEST REPORT

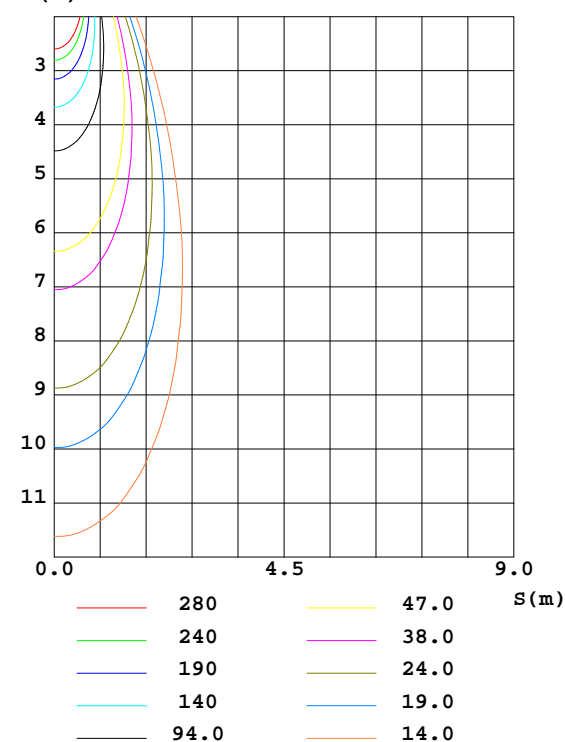
| | | |
|---|--------|-------------------|
| Test:U:226.4V I:0.0440A P:8.490W PF:0.8390 Lamp Flux:948.909x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 111.77 lm/W | | | |
|------------------|------------------|-----------------------------------|--------|-------------------|----------|
| MODEL | M022-9W-840-S-38 | Imax(cd) | 1893 | S/MH(C0/180) | 0.59 |
| NOMINAL POWER(W) | 9 | LOR(%) | 100.0 | S/MH(C90/270) | 0.63 |
| RATED VOLTAGE(V) | 226 | TOTAL FLUX(lm) | 948.91 | η UP,DN(C0-180) | 1.2,51.8 |
| NOMINAL FLUX(lm) | 948.909 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 1.4,45.6 |
| LAMPS INSIDE | 1 | η up(%) | 2.6 | CIBSE SHR NOM | 0.50 |
| TEST VOLTAGE(V) | 226.4 | η down(%) | 97.4 | CIBSE SHR MAX | 0.60 |

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:2015-12-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.590m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | ℓlum, lamp |
|-----|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|------------|
| 10 | 1524 | 1584 | 1603 | 1581 | 1514 | 1435 | 1432 | 1461 | 0- 10 | 161.4 | 161.4 | 17,17 |
| 20 | 796.4 | 864.2 | 889.6 | 892.8 | 810.3 | 731.7 | 722.2 | 738.5 | 10- 20 | 318.0 | 479.4 | 50.5,50.5 |
| 30 | 292.4 | 330.9 | 337.0 | 344.6 | 300.1 | 262.8 | 260.9 | 269.5 | 20- 30 | 233.1 | 712.5 | 75.1,75.1 |
| 40 | 102.1 | 111.7 | 119.7 | 123.0 | 106.6 | 96.93 | 93.10 | 99.44 | 30- 40 | 112.9 | 825.4 | 87,87 |
| 50 | 38.49 | 42.43 | 46.33 | 47.72 | 40.60 | 37.15 | 34.37 | 37.40 | 40- 50 | 52.30 | 877.7 | 92.5,92.5 |
| 60 | 17.31 | 18.32 | 19.41 | 19.71 | 18.40 | 16.29 | 16.29 | 16.63 | 50- 60 | 23.67 | 901.4 | 95,95 |
| 70 | 9.160 | 9.777 | 10.10 | 10.01 | 9.444 | 8.580 | 8.374 | 8.449 | 60- 70 | 12.81 | 914.2 | 96.3,96.3 |
| 80 | 4.240 | 4.582 | 4.809 | 4.666 | 4.505 | 4.028 | 3.781 | 3.841 | 70- 80 | 7.049 | 921.3 | 97.1,97.1 |
| 90 | 1.806 | 1.934 | 1.812 | 1.786 | 2.146 | 2.133 | 2.016 | 2.019 | 80- 90 | 3.328 | 924.6 | 97.4,97.4 |
| 100 | 1.775 | 1.797 | 1.660 | 1.653 | 2.304 | 2.312 | 2.206 | 2.196 | 90-100 | 2.217 | 926.8 | 97.7,97.7 |
| 110 | 2.097 | 2.084 | 1.926 | 1.935 | 2.608 | 2.634 | 2.559 | 2.541 | 100-110 | 2.352 | 929.2 | 97.9,97.9 |
| 120 | 2.924 | 2.860 | 2.663 | 2.692 | 3.284 | 3.353 | 3.304 | 3.280 | 110-120 | 2.711 | 931.9 | 98.2,98.2 |
| 130 | 4.204 | 4.104 | 3.909 | 3.945 | 4.409 | 4.533 | 4.499 | 4.462 | 120-130 | 3.283 | 935.2 | 98.6,98.6 |
| 140 | 5.624 | 5.537 | 5.345 | 5.367 | 5.771 | 5.882 | 5.851 | 5.802 | 130-140 | 3.833 | 939.0 | 99,99 |
| 150 | 6.734 | 6.684 | 6.520 | 6.530 | 6.826 | 6.888 | 6.845 | 6.810 | 140-150 | 3.910 | 942.9 | 99.4,99.4 |
| 160 | 7.212 | 7.169 | 7.126 | 7.117 | 7.294 | 7.269 | 7.260 | 7.218 | 150-160 | 3.254 | 946.2 | 99.7,99.7 |
| 170 | 7.273 | 7.279 | 7.223 | 7.183 | 7.335 | 7.293 | 7.271 | 7.215 | 160-170 | 2.051 | 948.2 | 99.9,99.9 |
| 180 | 7.435 | 7.423 | 7.365 | 7.335 | 7.449 | 7.402 | 7.372 | 7.330 | 170-180 | 0.6940 | 948.9 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

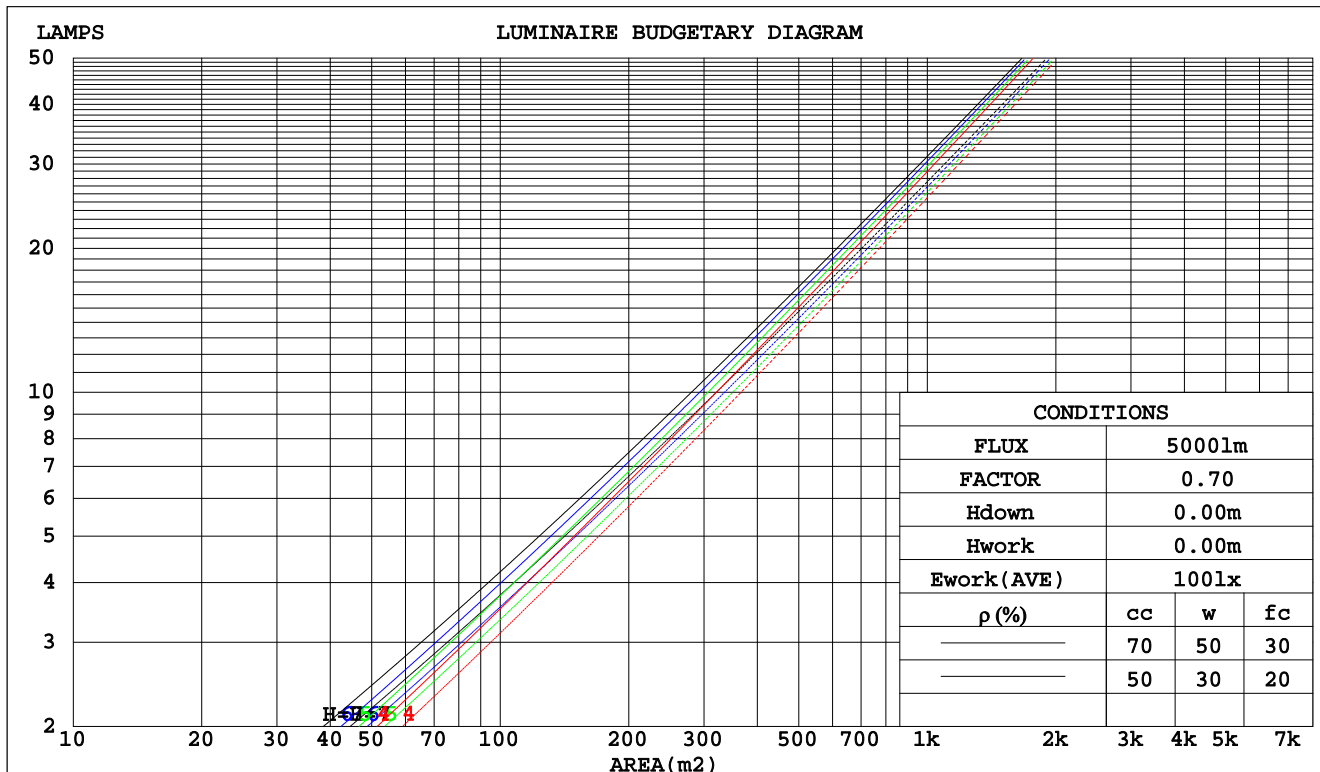
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2015-12-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.590m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|--------|-------------------|
| Test:U:226.4V I:0.0440A P:8.490W PF:0.8390 Lamp Flux:948.909x1 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 | 1.05 | 1.08 | 1.05 | 1.03 | 1.03 | 1.01 | .00 | .99 | .98 | .96 | .95 | .94 | .93 | .91 |
| 2.0 | 1.03 | .99 | .95 | 1.01 | .97 | .94 | .97 | .94 | .92 | .94 | .91 | .89 | .91 | .89 | .87 | .85 |
| 3.0 | .96 | .91 | .87 | .94 | .90 | .86 | .91 | .88 | .85 | .89 | .86 | .83 | .86 | .84 | .82 | .80 |
| 4.0 | .90 | .85 | .81 | .89 | .84 | .80 | .86 | .82 | .79 | .84 | .81 | .78 | .82 | .79 | .77 | .75 |
| 5.0 | .85 | .79 | .75 | .84 | .79 | .75 | .82 | .77 | .74 | .80 | .76 | .73 | .78 | .75 | .72 | .71 |
| 6.0 | .80 | .75 | .71 | .80 | .74 | .70 | .78 | .73 | .70 | .76 | .72 | .69 | .75 | .71 | .68 | .67 |
| 7.0 | .76 | .71 | .67 | .76 | .70 | .66 | .74 | .69 | .66 | .73 | .68 | .65 | .71 | .68 | .65 | .63 |
| 8.0 | .73 | .67 | .63 | .72 | .67 | .63 | .71 | .66 | .62 | .69 | .65 | .62 | .68 | .65 | .62 | .60 |
| 9.0 | .69 | .64 | .60 | .69 | .63 | .60 | .67 | .63 | .59 | .66 | .62 | .59 | .65 | .62 | .59 | .58 |
| 10.0 | .66 | .61 | .57 | .66 | .60 | .57 | .65 | .60 | .57 | .64 | .59 | .56 | .63 | .59 | .56 | .55 |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2015-12-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.590m [K=1.0000]
Remarks:

WEC AND CCEC

| | | | | | | | | |
|---|--|--|--------|--|--|-------------------|--|--|
| Test:U:226.4V I:0.0440A P:8.490W PF:0.8390 Lamp Flux:948.909x1 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 | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .180 | .102 | .032 | .172 | .098 | .031 | .158 | .091 | .029 | .145 | .084 | .027 | .133 | .077 | .025 | |
| 2.0 | .169 | .093 | .028 | .163 | .090 | .028 | .151 | .084 | .026 | .140 | .079 | .025 | .130 | .073 | .023 | |
| 3.0 | .159 | .085 | .025 | .154 | .082 | .025 | .144 | .078 | .024 | .134 | .073 | .023 | .125 | .069 | .021 | |
| 4.0 | .150 | .078 | .023 | .145 | .076 | .022 | .136 | .072 | .022 | .128 | .069 | .021 | .120 | .065 | .020 | |
| 5.0 | .142 | .072 | .021 | .138 | .071 | .021 | .130 | .068 | .020 | .123 | .065 | .019 | .116 | .062 | .019 | |
| 6.0 | .134 | .067 | .019 | .131 | .066 | .019 | .124 | .063 | .018 | .117 | .061 | .018 | .111 | .059 | .017 | |
| 7.0 | .128 | .063 | .018 | .124 | .062 | .018 | .118 | .060 | .017 | .112 | .058 | .017 | .107 | .056 | .016 | |
| 8.0 | .122 | .059 | .017 | .119 | .058 | .017 | .113 | .057 | .016 | .108 | .055 | .016 | .103 | .053 | .015 | |
| 9.0 | .116 | .056 | .016 | .113 | .055 | .016 | .108 | .054 | .015 | .104 | .052 | .015 | .099 | .050 | .015 | |
| 10.0 | .111 | .053 | .015 | .109 | .052 | .015 | .104 | .051 | .014 | .100 | .050 | .014 | .096 | .048 | .014 | |

| 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 | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .210 | .210 | .210 | .179 | .179 | .179 | .122 | .122 | .122 | .070 | .070 | .070 | .022 | .022 | .022 | |
| 1.0 | .191 | .177 | .164 | .163 | .152 | .141 | .112 | .104 | .098 | .064 | .060 | .057 | .021 | .019 | .018 | |
| 2.0 | .176 | .152 | .133 | .150 | .131 | .115 | .103 | .091 | .080 | .059 | .053 | .047 | .019 | .017 | .015 | |
| 3.0 | .163 | .133 | .110 | .140 | .115 | .095 | .096 | .080 | .067 | .055 | .047 | .039 | .018 | .015 | .013 | |
| 4.0 | .152 | .119 | .093 | .131 | .103 | .081 | .090 | .072 | .057 | .052 | .042 | .034 | .017 | .014 | .011 | |
| 5.0 | .143 | .107 | .080 | .123 | .093 | .070 | .085 | .065 | .049 | .049 | .038 | .029 | .016 | .012 | .010 | |
| 6.0 | .136 | .098 | .071 | .117 | .085 | .062 | .080 | .059 | .044 | .047 | .035 | .026 | .015 | .011 | .009 | |
| 7.0 | .129 | .090 | .063 | .111 | .078 | .055 | .077 | .055 | .039 | .044 | .032 | .023 | .014 | .011 | .008 | |
| 8.0 | .123 | .084 | .057 | .106 | .073 | .050 | .073 | .051 | .035 | .043 | .030 | .021 | .014 | .010 | .007 | |
| 9.0 | .117 | .079 | .052 | .101 | .068 | .046 | .070 | .048 | .032 | .041 | .028 | .019 | .013 | .009 | .006 | |
| 10.0 | .113 | .074 | .048 | .097 | .064 | .042 | .067 | .045 | .030 | .039 | .027 | .018 | .013 | .009 | .006 | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2015-12-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.590m [K=1.0000]
Remarks:

Uncorrected UGR Table

| | | | | | | | | | | | |
|---|---------------|------------------|------|------|--------|---------------|----------------|-------------------|------|------|--|
| Test:U:226.4V I:0.0440A P:8.490W PF:0.8390 Lamp Flux:948.909x1 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 | 21.3 | 22.1 | 21.5 | 22.3 | 22.6 | 21.8 | 22.6 | 22.0 | 22.9 | 23.1 | |
| | 3H | 21.5 | 22.3 | 21.8 | 22.6 | 22.8 | 22.0 | 22.8 | 22.3 | 23.1 | |
| | 4H | 21.7 | 22.4 | 22.0 | 22.7 | 23.0 | 22.1 | 22.9 | 22.4 | 23.2 | |
| | 6H | 21.8 | 22.5 | 22.1 | 22.8 | 23.1 | 22.3 | 23.0 | 22.6 | 23.3 | |
| | 8H | 21.8 | 22.5 | 22.2 | 22.8 | 23.1 | 22.3 | 23.0 | 22.7 | 23.3 | |
| | 12H | 21.9 | 22.5 | 22.2 | 22.8 | 23.2 | 22.4 | 23.1 | 22.8 | 23.4 | |
| 4H | 2H | 21.3 | 22.0 | 21.6 | 22.3 | 22.6 | 21.7 | 22.5 | 22.0 | 22.8 | |
| | 3H | 21.7 | 22.3 | 22.0 | 22.6 | 23.0 | 22.1 | 22.8 | 22.5 | 23.1 | |
| | 4H | 21.9 | 22.5 | 22.3 | 22.8 | 23.2 | 22.3 | 22.9 | 22.7 | 23.3 | |
| | 6H | 22.1 | 22.6 | 22.5 | 23.0 | 23.4 | 22.6 | 23.1 | 23.0 | 23.5 | |
| | 8H | 22.2 | 22.7 | 22.6 | 23.1 | 23.5 | 22.7 | 23.2 | 23.2 | 23.6 | |
| | 12H | 22.3 | 22.8 | 22.7 | 23.2 | 23.6 | 22.9 | 23.3 | 23.3 | 23.8 | |
| 8H | 4H | 21.9 | 22.4 | 22.3 | 22.8 | 23.2 | 22.3 | 22.8 | 22.8 | 23.2 | |
| | 6H | 22.2 | 22.6 | 22.7 | 23.1 | 23.6 | 22.7 | 23.1 | 23.2 | 23.6 | |
| | 8H | 22.4 | 22.8 | 22.9 | 23.2 | 23.7 | 23.0 | 23.3 | 23.5 | 23.8 | |
| | 12H | 22.6 | 22.9 | 23.1 | 23.4 | 23.9 | 23.2 | 23.5 | 23.7 | 24.0 | |
| 12H | 4H | 21.9 | 22.4 | 22.3 | 22.8 | 23.2 | 22.3 | 22.7 | 22.7 | 23.2 | |
| | 6H | 22.3 | 22.6 | 22.7 | 23.1 | 23.6 | 22.7 | 23.1 | 23.2 | 23.6 | |
| | 8H | 22.5 | 22.8 | 23.0 | 23.3 | 23.8 | 23.0 | 23.3 | 23.5 | 23.8 | |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | + 1.2 / - 1.6 | | | | | + 1.3 / - 1.6 | | | | | |
| 1.5H | + 2.0 / - 1.3 | | | | | + 2.3 / - 1.6 | | | | | |
| 2.0H | + 2.2 / - 1.1 | | | | | + 2.3 / - 1.1 | | | | | |

CIE Pub.117 Corrected 948.9 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.2)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2015-12-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.590m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|--------|-------------------|
| Test:U:226.4V I:0.0440A P:8.490W PF:0.8390 Lamp Flux:948.909x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

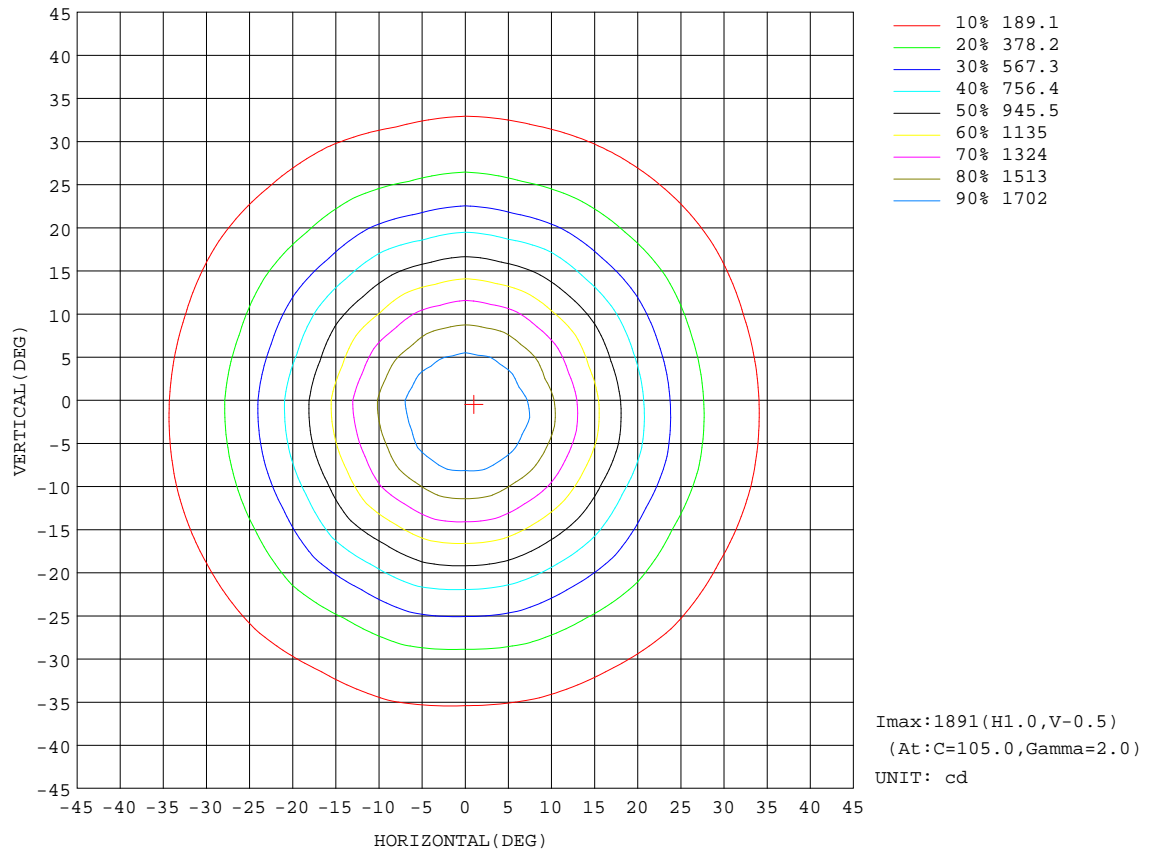
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 83 | 77 | 72 | 83 | 76 | 72 | 82 | 76 | 72 | 68 |
| 0.80 | 91 | 85 | 81 | 90 | 84 | 80 | 89 | 83 | 80 | 76 |
| 1.00 | 96 | 90 | 86 | 95 | 89 | 85 | 93 | 89 | 85 | 80 |
| 1.25 | 100 | 95 | 91 | 99 | 94 | 90 | 97 | 92 | 89 | 84 |
| 1.50 | 103 | 98 | 94 | 102 | 97 | 94 | 99 | 95 | 92 | 87 |
| 2.00 | 106 | 102 | 98 | 105 | 100 | 97 | 102 | 98 | 95 | 89 |
| 2.50 | 108 | 104 | 101 | 106 | 103 | 100 | 103 | 100 | 97 | 91 |
| 3.00 | 110 | 106 | 103 | 108 | 105 | 102 | 104 | 102 | 99 | 92 |
| 4.00 | 112 | 109 | 107 | 110 | 107 | 105 | 106 | 104 | 102 | 94 |
| 5.00 | 114 | 111 | 109 | 111 | 109 | 107 | 107 | 105 | 104 | 95 |
| 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:2015-12-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.590m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|--------|-------------------|
| Test:U:226.4V I:0.0440A P:8.490W PF:0.8390 Lamp Flux:948.909x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |



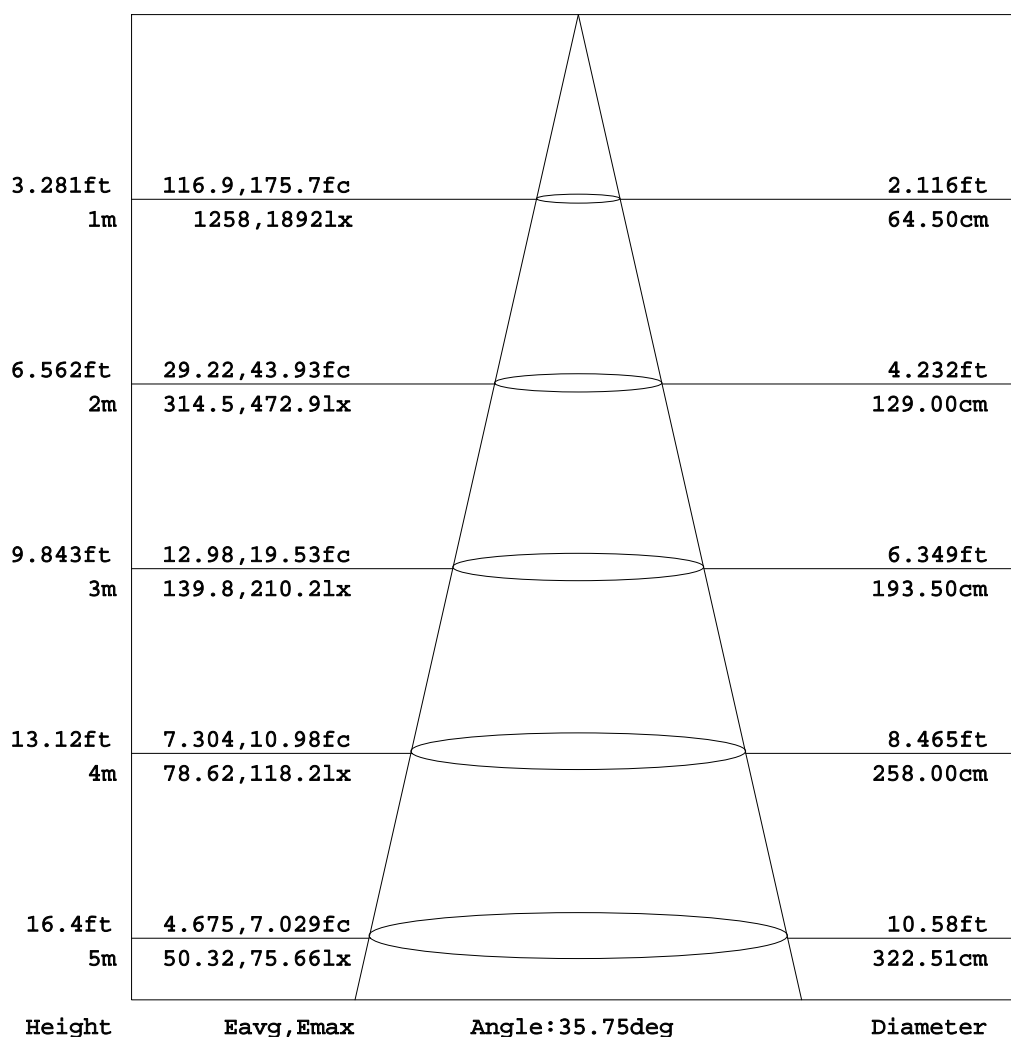
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2015-12-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.590m [K=1.0000]
Remarks:

AAI Figure

| | | |
|---|--------|-------------------|
| Test:U:226.4V I:0.0440A P:8.490W PF:0.8390 Lamp Flux:948.909x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

Flux out:417.2 lm



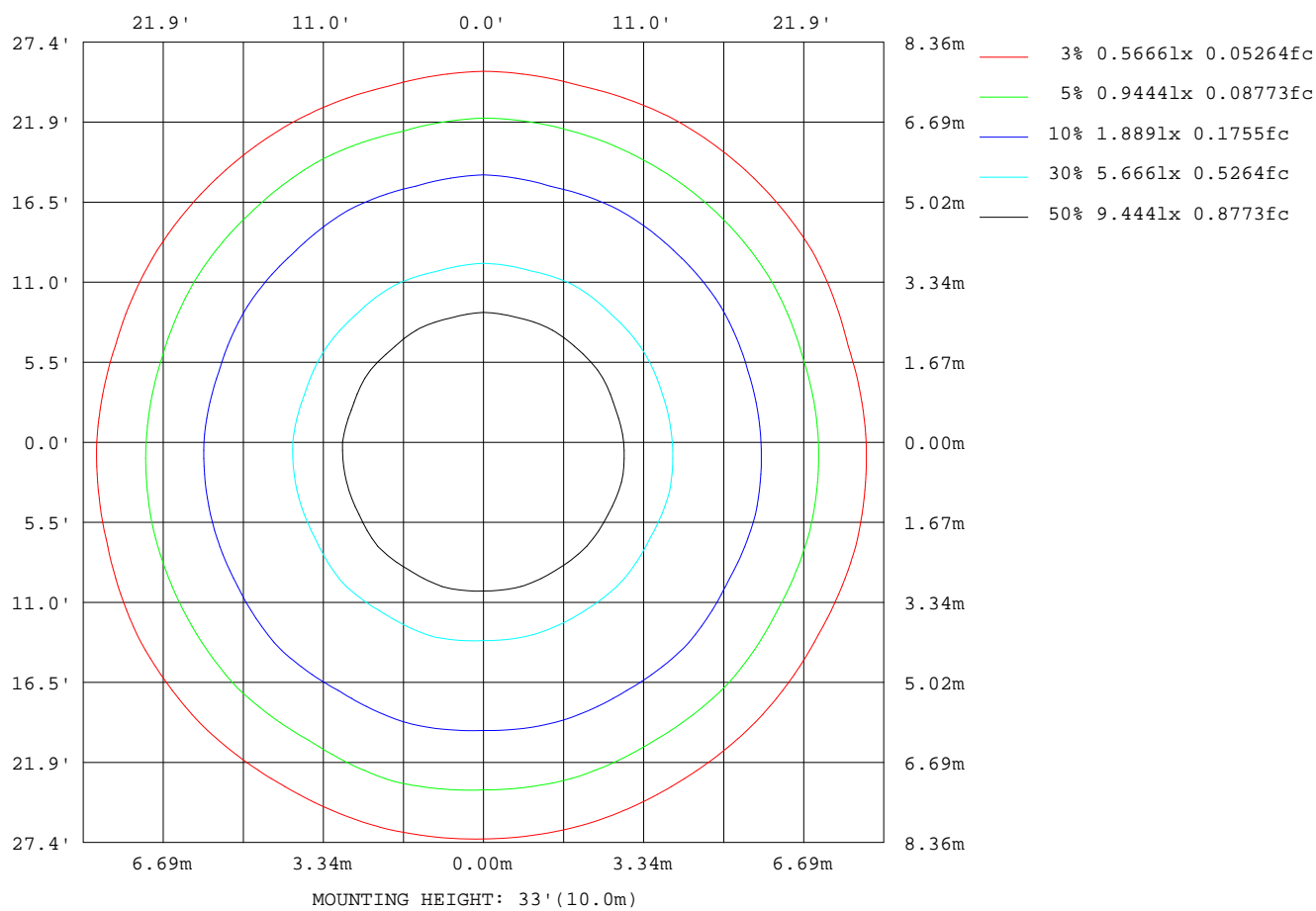
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2015-12-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.590m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

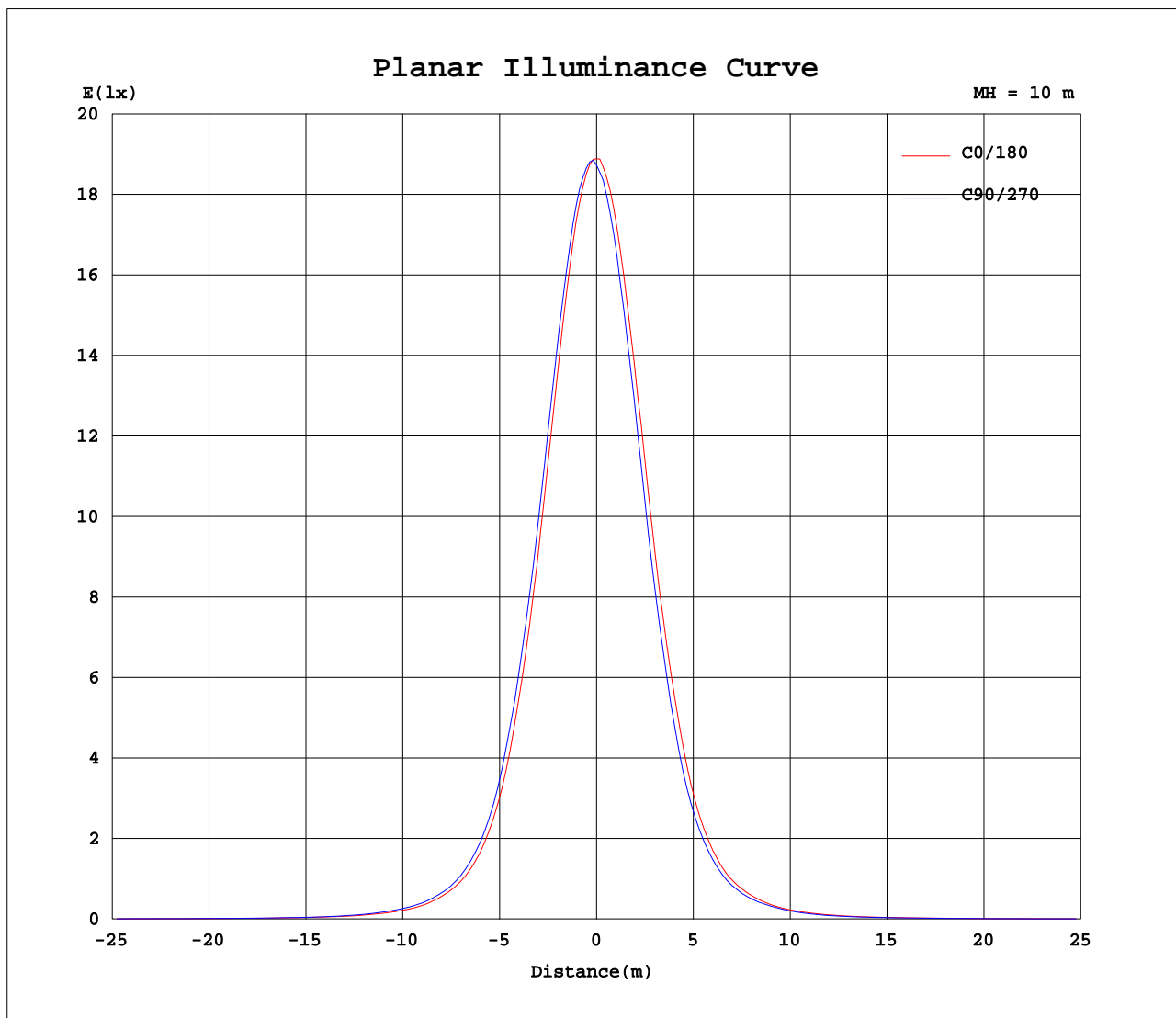
| | | |
|---|--------|-------------------|
| Test:U:226.4V I:0.0440A P:8.490W PF:0.8390 Lamp Flux:948.909x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2015-12-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.590m [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: 2015-12-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.590m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--------|--|--|--|--|-------------------|--|--|--|--|
| Test:U:226.4V I:0.0440A P:8.490W PF:0.8390 Lamp Flux:948.909x1 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 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 |
| 5 | 1787 | 1801 | 1811 | 1827 | 1825 | 1835 | 1836 | 1838 | 1826 | 1815 | 1801 | 1787 | 1777 | 1749 | 1744 | 1728 | 1725 | 1715 | 1728 |
| 10 | 1524 | 1552 | 1564 | 1584 | 1586 | 1604 | 1603 | 1608 | 1590 | 1581 | 1551 | 1541 | 1514 | 1470 | 1465 | 1435 | 1439 | 1420 | 1432 |
| 15 | 1161 | 1189 | 1198 | 1229 | 1234 | 1255 | 1257 | 1272 | 1245 | 1250 | 1206 | 1193 | 1167 | 1110 | 1106 | 1068 | 1070 | 1049 | 1065 |
| 20 | 796 | 827 | 831 | 864 | 868 | 889 | 890 | 908 | 884 | 893 | 852 | 838 | 810 | 763 | 759 | 732 | 734 | 704 | 722 |
| 25 | 494 | 518 | 522 | 556 | 554 | 576 | 573 | 590 | 562 | 574 | 539 | 528 | 508 | 474 | 465 | 444 | 447 | 424 | 438 |
| 30 | 292 | 306 | 307 | 331 | 329 | 340 | 337 | 348 | 333 | 345 | 323 | 313 | 300 | 279 | 276 | 263 | 264 | 251 | 261 |
| 35 | 170 | 176 | 177 | 190 | 189 | 198 | 198 | 206 | 194 | 198 | 190 | 185 | 174 | 165 | 162 | 157 | 153 | 146 | 152 |
| 40 | 102 | 108 | 106 | 112 | 113 | 118 | 120 | 122 | 121 | 123 | 120 | 113 | 107 | 101 | 98.8 | 96.9 | 94.0 | 90.8 | 93.1 |
| 45 | 61.5 | 67.0 | 65.7 | 69.2 | 67.8 | 72.0 | 74.0 | 76.8 | 74.9 | 75.3 | 75.2 | 70.5 | 64.4 | 63.4 | 61.6 | 60.0 | 57.4 | 57.2 | 57.8 |
| 50 | 38.5 | 40.1 | 41.7 | 42.4 | 41.6 | 44.9 | 46.3 | 47.0 | 47.0 | 47.7 | 45.5 | 43.0 | 40.6 | 38.2 | 37.0 | 37.1 | 34.6 | 34.5 | 34.4 |
| 55 | 25.4 | 24.7 | 26.2 | 26.0 | 25.2 | 27.5 | 28.9 | 29.0 | 27.5 | 28.8 | 27.4 | 26.4 | 26.5 | 24.9 | 24.2 | 23.5 | 21.8 | 21.5 | 22.7 |
| 60 | 17.3 | 17.9 | 17.8 | 18.3 | 17.9 | 18.4 | 19.4 | 21.0 | 19.2 | 19.7 | 19.6 | 18.9 | 18.4 | 17.5 | 17.0 | 16.3 | 15.7 | 15.1 | 16.3 |
| 65 | 12.5 | 13.0 | 12.8 | 13.4 | 13.2 | 13.4 | 14.1 | 14.6 | 13.9 | 14.0 | 13.9 | 13.5 | 13.2 | 12.5 | 12.4 | 11.9 | 11.4 | 11.0 | 11.6 |
| 70 | 9.16 | 9.41 | 9.19 | 9.78 | 9.48 | 9.63 | 10.1 | 10.4 | 9.88 | 10.0 | 9.60 | 9.59 | 9.44 | 9.03 | 8.76 | 8.58 | 8.20 | 8.04 | 8.37 |
| 75 | 6.47 | 6.71 | 6.55 | 6.86 | 6.79 | 6.94 | 7.14 | 7.29 | 6.91 | 6.98 | 6.67 | 6.73 | 6.66 | 6.35 | 6.11 | 6.01 | 5.81 | 6.43 | 5.84 |
| 80 | 4.24 | 4.45 | 4.44 | 4.58 | 5.14 | 5.64 | 4.81 | 4.86 | 4.62 | 4.67 | 7.07 | 5.23 | 4.51 | 4.23 | 4.16 | 4.03 | 4.37 | 4.88 | 3.78 |
| 85 | 2.54 | 2.69 | 2.73 | 2.82 | 3.11 | 3.62 | 2.86 | 2.88 | 2.78 | 2.78 | 4.40 | 3.46 | 2.83 | 2.71 | 2.68 | 2.60 | 2.75 | 2.81 | 2.39 |
| 90 | 1.81 | 1.83 | 1.87 | 1.93 | 2.10 | 1.96 | 1.81 | 1.82 | 1.80 | 1.79 | 2.11 | 2.13 | 2.15 | 2.12 | 2.13 | 2.13 | 2.30 | 2.19 | 2.02 |
| 95 | 1.78 | 1.78 | 1.78 | 1.79 | 2.05 | 1.86 | 1.64 | 1.65 | 1.65 | 1.64 | 2.02 | 2.03 | 2.21 | 2.17 | 2.19 | 2.21 | 2.46 | 2.30 | 2.10 |
| 100 | 1.77 | 1.79 | 1.78 | 1.80 | 2.15 | 1.86 | 1.66 | 1.65 | 1.66 | 1.65 | 2.05 | 2.06 | 2.30 | 2.25 | 2.28 | 2.31 | 2.70 | 2.34 | 2.21 |
| 105 | 1.88 | 1.88 | 1.85 | 1.88 | 2.37 | 1.95 | 1.72 | 1.74 | 1.72 | 1.74 | 2.16 | 2.23 | 2.42 | 2.39 | 2.41 | 2.44 | 2.87 | 2.56 | 2.35 |
| 110 | 2.10 | 2.09 | 2.07 | 2.08 | 2.66 | 2.19 | 1.93 | 1.92 | 1.94 | 1.93 | 2.32 | 2.40 | 2.61 | 2.57 | 2.60 | 2.63 | 3.11 | 2.81 | 2.56 |
| 115 | 2.44 | 2.41 | 2.38 | 2.41 | 2.89 | 2.56 | 2.23 | 2.23 | 2.23 | 2.24 | 2.66 | 2.68 | 2.88 | 2.85 | 2.88 | 2.94 | 3.20 | 3.17 | 2.87 |
| 120 | 2.92 | 2.87 | 2.84 | 2.86 | 3.20 | 2.95 | 2.66 | 2.67 | 2.68 | 2.69 | 3.06 | 3.08 | 3.28 | 3.25 | 3.30 | 3.35 | 3.49 | 3.43 | 3.30 |
| 125 | 3.52 | 3.45 | 3.42 | 3.44 | 3.66 | 3.34 | 3.24 | 3.24 | 3.26 | 3.27 | 3.60 | 3.59 | 3.80 | 3.78 | 3.82 | 3.90 | 4.01 | 3.93 | 3.86 |
| 130 | 4.20 | 4.13 | 4.09 | 4.10 | 4.18 | 3.94 | 3.91 | 3.91 | 3.92 | 3.95 | 4.21 | 4.24 | 4.41 | 4.40 | 4.45 | 4.53 | 4.61 | 4.54 | 4.50 |
| 135 | 4.91 | 4.84 | 4.81 | 4.83 | 4.86 | 4.66 | 4.62 | 4.62 | 4.64 | 4.65 | 4.78 | 4.92 | 5.09 | 5.08 | 5.13 | 5.21 | 5.28 | 5.20 | 5.19 |
| 140 | 5.62 | 5.56 | 5.52 | 5.54 | 5.54 | 5.37 | 5.35 | 5.35 | 5.36 | 5.37 | 5.45 | 5.62 | 5.77 | 5.74 | 5.80 | 5.88 | 5.92 | 5.87 | 5.85 |
| 145 | 6.23 | 6.17 | 6.14 | 6.19 | 6.17 | 6.01 | 5.98 | 5.99 | 5.99 | 6.01 | 6.09 | 6.27 | 6.36 | 6.34 | 6.37 | 6.44 | 6.53 | 6.44 | 6.42 |
| 150 | 6.73 | 6.67 | 6.65 | 6.68 | 6.75 | 6.71 | 6.52 | 6.53 | 6.52 | 6.53 | 6.68 | 6.79 | 6.83 | 6.78 | 6.82 | 6.89 | 7.03 | 6.95 | 6.84 |
| 155 | 7.04 | 7.01 | 7.01 | 7.01 | 6.93 | 7.06 | 6.91 | 6.91 | 6.89 | 6.90 | 7.07 | 7.29 | 7.15 | 7.09 | 7.11 | 7.16 | 7.39 | 7.23 | 7.13 |
| 160 | 7.21 | 7.17 | 7.16 | 7.17 | 7.12 | 7.14 | 7.13 | 7.13 | 7.11 | 7.12 | 7.12 | 7.15 | 7.29 | 7.23 | 7.26 | 7.27 | 7.28 | 7.25 | 7.26 |
| 165 | 7.26 | 7.24 | 7.24 | 7.25 | 7.22 | 7.22 | 7.21 | 7.23 | 7.18 | 7.18 | 7.18 | 7.18 | 7.33 | 7.28 | 7.31 | 7.30 | 7.29 | 7.27 | 7.28 |
| 170 | 7.27 | 7.26 | 7.26 | 7.28 | 7.24 | 7.23 | 7.22 | 7.23 | 7.19 | 7.18 | 7.19 | 7.18 | 7.34 | 7.29 | 7.29 | 7.29 | 7.28 | 7.25 | 7.27 |
| 175 | 7.33 | 7.30 | 7.30 | 7.30 | 7.27 | 7.27 | 7.26 | 7.27 | 7.23 | 7.23 | 7.22 | 7.22 | 7.37 | 7.32 | 7.33 | 7.32 | 7.30 | 7.28 | 7.29 |
| 180 | 7.44 | 7.41 | 7.40 | 7.42 | 7.38 | 7.37 | 7.37 | 7.38 | 7.35 | 7.33 | 7.34 | 7.34 | 7.45 | 7.40 | 7.41 | 7.40 | 7.39 | 7.36 | 7.37 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2015-12-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.590m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|--------|-------------------|
| Test:U:226.4V I:0.0440A P:8.490W PF:0.8390 Lamp Flux:948.909x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

Table--2

UNIT: cd

| C(DEC) γ (DEC) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 1876 | 1876 | 1876 | 1876 | 1876 | | | | | | | | | | | | | | |
| 5 | 1728 | 1748 | 1746 | 1764 | 1771 | | | | | | | | | | | | | | |
| 10 | 1435 | 1456 | 1461 | 1492 | 1495 | | | | | | | | | | | | | | |
| 15 | 1060 | 1084 | 1090 | 1126 | 1130 | | | | | | | | | | | | | | |
| 20 | 713 | 744 | 739 | 768 | 776 | | | | | | | | | | | | | | |
| 25 | 428 | 445 | 447 | 470 | 478 | | | | | | | | | | | | | | |
| 30 | 253 | 267 | 270 | 282 | 283 | | | | | | | | | | | | | | |
| 35 | 151 | 153 | 158 | 163 | 163 | | | | | | | | | | | | | | |
| 40 | 91.3 | 98.1 | 99.4 | 101 | 99.9 | | | | | | | | | | | | | | |
| 45 | 59.1 | 61.1 | 62.3 | 65.3 | 62.3 | | | | | | | | | | | | | | |
| 50 | 35.0 | 38.1 | 37.4 | 39.4 | 37.8 | | | | | | | | | | | | | | |
| 55 | 23.1 | 23.7 | 24.3 | 24.5 | 24.5 | | | | | | | | | | | | | | |
| 60 | 16.2 | 16.3 | 16.6 | 17.2 | 17.4 | | | | | | | | | | | | | | |
| 65 | 11.6 | 11.6 | 11.6 | 12.1 | 12.2 | | | | | | | | | | | | | | |
| 70 | 8.27 | 8.30 | 8.45 | 8.51 | 8.78 | | | | | | | | | | | | | | |
| 75 | 5.71 | 5.79 | 5.90 | 6.97 | 6.52 | | | | | | | | | | | | | | |
| 80 | 3.71 | 3.79 | 3.84 | 6.47 | 5.22 | | | | | | | | | | | | | | |
| 85 | 2.40 | 2.42 | 2.46 | 3.00 | 3.20 | | | | | | | | | | | | | | |
| 90 | 2.02 | 2.01 | 2.02 | 2.39 | 2.39 | | | | | | | | | | | | | | |
| 95 | 2.09 | 2.10 | 2.09 | 2.46 | 2.53 | | | | | | | | | | | | | | |
| 100 | 2.20 | 2.21 | 2.20 | 2.61 | 2.60 | | | | | | | | | | | | | | |
| 105 | 2.35 | 2.35 | 2.35 | 2.80 | 2.69 | | | | | | | | | | | | | | |
| 110 | 2.56 | 2.55 | 2.54 | 2.91 | 2.89 | | | | | | | | | | | | | | |
| 115 | 2.87 | 2.87 | 2.86 | 3.33 | 3.12 | | | | | | | | | | | | | | |
| 120 | 3.32 | 3.30 | 3.28 | 3.52 | 3.63 | | | | | | | | | | | | | | |
| 125 | 3.88 | 3.84 | 3.84 | 4.05 | 3.98 | | | | | | | | | | | | | | |
| 130 | 4.52 | 4.49 | 4.46 | 4.55 | 4.55 | | | | | | | | | | | | | | |
| 135 | 5.19 | 5.16 | 5.15 | 5.18 | 5.24 | | | | | | | | | | | | | | |
| 140 | 5.85 | 5.82 | 5.80 | 5.86 | 5.91 | | | | | | | | | | | | | | |
| 145 | 6.43 | 6.38 | 6.37 | 6.46 | 6.49 | | | | | | | | | | | | | | |
| 150 | 6.85 | 6.83 | 6.81 | 6.96 | 6.92 | | | | | | | | | | | | | | |
| 155 | 7.12 | 7.12 | 7.10 | 7.23 | 7.18 | | | | | | | | | | | | | | |
| 160 | 7.26 | 7.25 | 7.22 | 7.22 | 7.23 | | | | | | | | | | | | | | |
| 165 | 7.27 | 7.26 | 7.22 | 7.25 | 7.25 | | | | | | | | | | | | | | |
| 170 | 7.26 | 7.24 | 7.22 | 7.23 | 7.23 | | | | | | | | | | | | | | |
| 175 | 7.28 | 7.27 | 7.23 | 7.25 | 7.25 | | | | | | | | | | | | | | |
| 180 | 7.37 | 7.36 | 7.33 | 7.34 | 7.34 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2015-12-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.590m [K=1.0000]
Remarks: