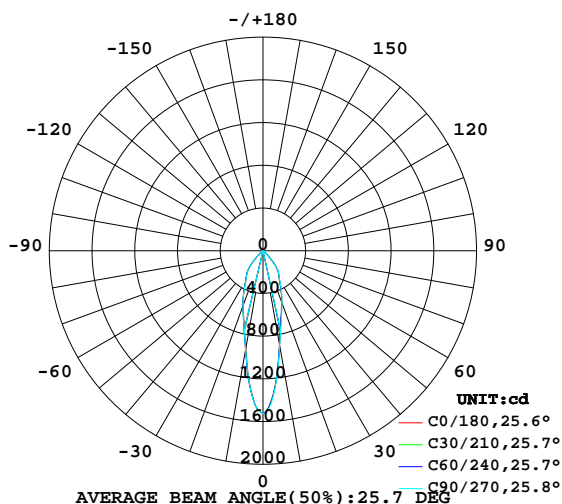


LUMINAIRE PHOTOMETRIC TEST REPORT

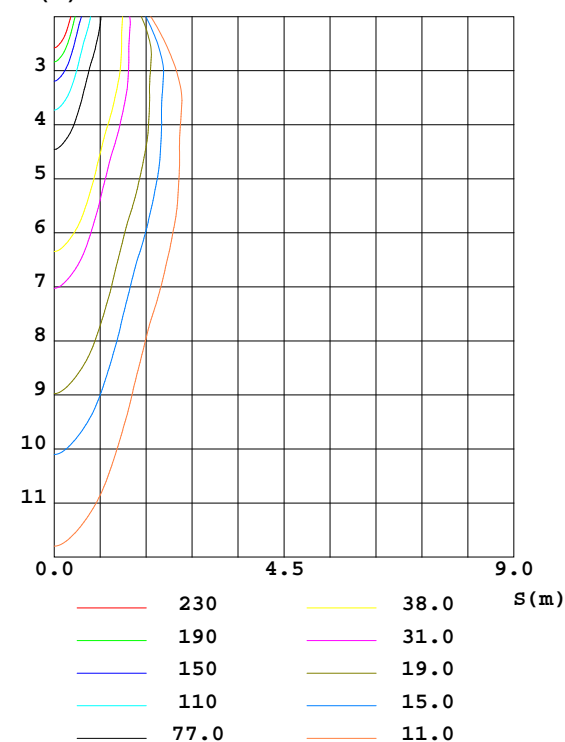
| | | |
|---|--------|-------------------|
| Test:U:226.4V I:0.0440A P:8.540W PF:0.8410 Lamp Flux:778.725x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 91.19 lm/W | | | |
|------------------|------------------|----------------------------------|--------|-------------------|----------|
| MODEL | M021-9W-827-S-28 | Imax(cd) | 1526 | S/MH(C0/180) | 0.41 |
| NOMINAL POWER(W) | 9 | LOR(%) | 100.0 | S/MH(C90/270) | 0.41 |
| RATED VOLTAGE(V) | 226 | TOTAL FLUX(lm) | 778.73 | η UP,DN(C0-180) | 1.1,48.4 |
| NOMINAL FLUX(lm) | 778.725 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 1.2,49.3 |
| LAMPS INSIDE | 1 | η up(%) | 2.4 | CIBSE SHR NOM | 0.50 |
| TEST VOLTAGE(V) | 226.4 | η down(%) | 97.6 | CIBSE SHR MAX | 0.55 |

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 | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10 | 899.1 | 898.5 | 901.2 | 923.3 | 926.8 | 931.0 | 940.6 | 904.9 | 0- 10 | 111.1 | 111.1 | 14.3,14.3 |
| 20 | 516.2 | 513.5 | 520.7 | 534.5 | 542.7 | 543.5 | 546.2 | 529.6 | 10- 20 | 190.4 | 301.6 | 38.7,38.7 |
| 30 | 305.7 | 309.6 | 313.1 | 322.9 | 322.7 | 325.0 | 321.3 | 313.0 | 20- 30 | 190.2 | 491.8 | 63.2,63.2 |
| 40 | 180.9 | 177.8 | 181.6 | 181.7 | 183.8 | 189.1 | 188.2 | 180.6 | 30- 40 | 159.0 | 650.8 | 83.6,83.6 |
| 50 | 26.68 | 26.64 | 25.76 | 28.21 | 27.24 | 27.29 | 27.34 | 27.32 | 40- 50 | 69.66 | 720.5 | 92.5,92.5 |
| 60 | 13.52 | 13.42 | 13.15 | 13.48 | 13.16 | 13.20 | 13.46 | 13.53 | 50- 60 | 16.45 | 736.9 | 94.6,94.6 |
| 70 | 8.414 | 8.588 | 8.490 | 8.608 | 8.202 | 8.017 | 8.319 | 8.316 | 60- 70 | 10.67 | 747.6 | 96.96 |
| 80 | 6.092 | 6.467 | 6.240 | 6.352 | 5.869 | 5.656 | 6.006 | 5.834 | 70- 80 | 7.536 | 755.1 | 97.97 |
| 90 | 1.612 | 1.269 | 1.255 | 1.246 | 1.454 | 1.486 | 1.456 | 1.471 | 80- 90 | 5.080 | 760.2 | 97.6,97.6 |
| 100 | 1.367 | 1.390 | 1.371 | 1.373 | 1.703 | 1.693 | 1.707 | 1.702 | 90-100 | 1.564 | 761.8 | 97.8,97.8 |
| 110 | 1.765 | 1.789 | 1.769 | 1.766 | 2.071 | 2.063 | 2.079 | 2.076 | 100-110 | 1.811 | 763.6 | 98.1,98.1 |
| 120 | 2.363 | 2.388 | 2.375 | 2.348 | 2.607 | 2.595 | 2.617 | 2.626 | 110-120 | 2.170 | 765.8 | 98.3,98.3 |
| 130 | 3.241 | 3.259 | 3.247 | 3.214 | 3.395 | 3.390 | 3.418 | 3.441 | 120-130 | 2.578 | 768.3 | 98.7,98.7 |
| 140 | 4.233 | 4.266 | 4.254 | 4.222 | 4.331 | 4.325 | 4.354 | 4.368 | 130-140 | 2.949 | 771.3 | 99.99 |
| 150 | 4.900 | 4.928 | 4.926 | 4.914 | 4.971 | 4.962 | 4.988 | 5.002 | 140-150 | 2.914 | 774.2 | 99.4,99.4 |
| 160 | 5.377 | 5.396 | 5.415 | 5.407 | 5.443 | 5.442 | 5.472 | 5.470 | 150-160 | 2.399 | 776.6 | 99.7,99.7 |
| 170 | 5.694 | 5.720 | 5.752 | 5.739 | 5.751 | 5.743 | 5.786 | 5.764 | 160-170 | 1.583 | 778.2 | 99.9,99.9 |
| 180 | 5.853 | 5.869 | 5.893 | 5.891 | 5.853 | 5.872 | 5.891 | 5.891 | 170-180 | 0.5535 | 778.7 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

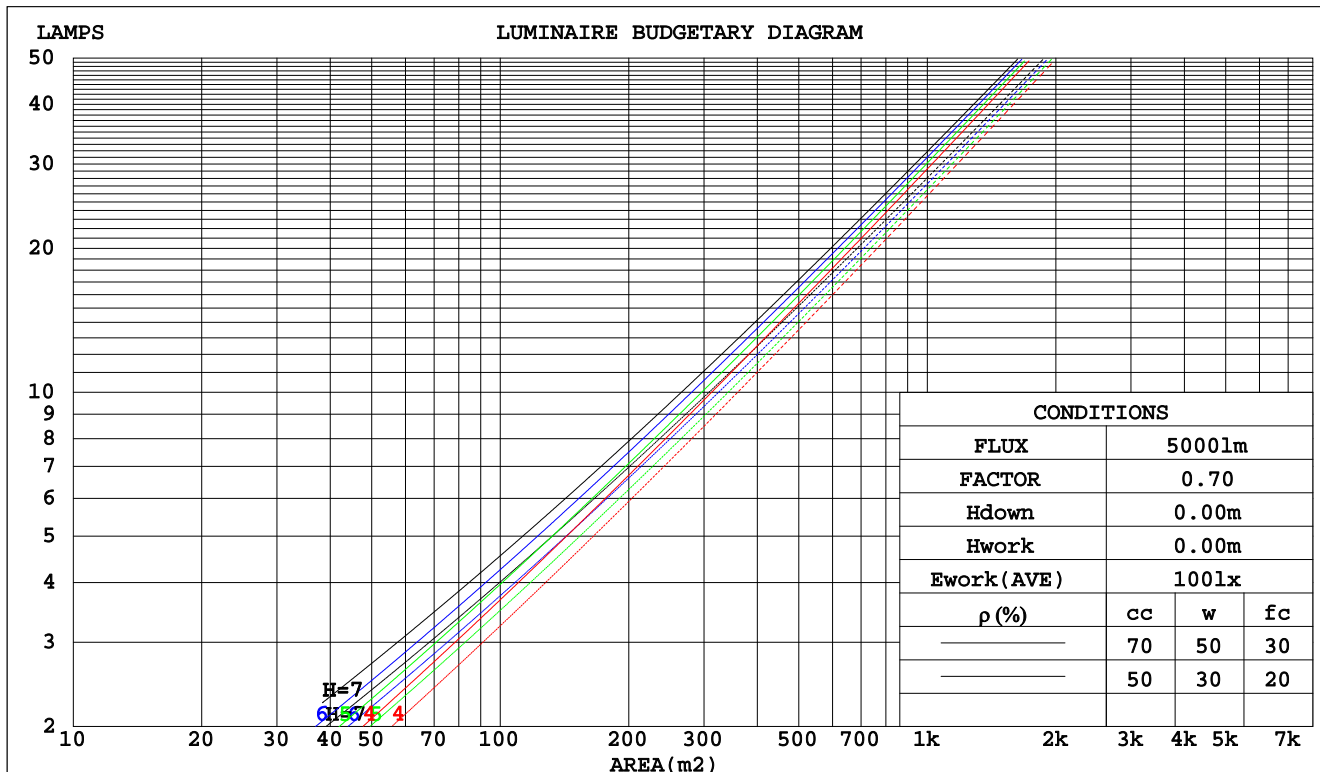
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2015-12-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ 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:8.540W PF:0.8410 Lamp Flux:778.725x1 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 | 1.05 | 1.05 | 1.05 | .00 | .00 | .00 | .98 | | | | | | | | | | | | | | |
| 1.0 | 1.09 | 1.07 | 1.04 | 1.07 | 1.04 | 1.02 | 1.02 | 1.00 | .99 | .98 | .97 | .95 | .94 | .93 | .92 | .90 | | | | | | | | | | | | | | |
| 2.0 | 1.01 | .97 | .93 | .99 | .95 | .92 | .95 | .92 | .89 | .92 | .90 | .87 | .89 | .87 | .85 | .83 | | | | | | | | | | | | | | |
| 3.0 | .94 | .89 | .84 | .92 | .87 | .83 | .89 | .85 | .82 | .86 | .83 | .80 | .84 | .81 | .79 | .77 | | | | | | | | | | | | | | |
| 4.0 | .87 | .82 | .77 | .86 | .81 | .77 | .84 | .79 | .75 | .81 | .77 | .74 | .79 | .76 | .73 | .71 | | | | | | | | | | | | | | |
| 5.0 | .82 | .76 | .71 | .81 | .75 | .71 | .78 | .74 | .70 | .77 | .72 | .69 | .75 | .71 | .68 | .67 | | | | | | | | | | | | | | |
| 6.0 | .77 | .70 | .66 | .76 | .70 | .66 | .74 | .69 | .65 | .72 | .68 | .64 | .71 | .67 | .64 | .62 | | | | | | | | | | | | | | |
| 7.0 | .72 | .66 | .61 | .71 | .65 | .61 | .70 | .64 | .61 | .68 | .64 | .60 | .67 | .63 | .60 | .58 | | | | | | | | | | | | | | |
| 8.0 | .68 | .62 | .57 | .67 | .61 | .57 | .66 | .61 | .57 | .65 | .60 | .57 | .63 | .59 | .56 | .55 | | | | | | | | | | | | | | |
| 9.0 | .64 | .58 | .54 | .64 | .58 | .54 | .62 | .57 | .54 | .61 | .57 | .53 | .60 | .56 | .53 | .52 | | | | | | | | | | | | | | |
| 10.0 | .61 | .55 | .51 | .60 | .55 | .51 | .59 | .54 | .51 | .58 | .54 | .50 | .57 | .53 | .50 | .49 | | | | | | | | | | | | | | |



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:8.540W PF:0.8410 Lamp Flux:778.725x1 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 | .195 | .111 | .035 | .188 | .107 | .034 | .174 | .100 | .032 | .161 | .093 | .030 | .149 | .086 | .028 | |
| 2.0 | .184 | .101 | .031 | .178 | .098 | .030 | .166 | .092 | .029 | .155 | .087 | .027 | .145 | .082 | .026 | |
| 3.0 | .174 | .092 | .028 | .168 | .090 | .027 | .158 | .085 | .026 | .148 | .081 | .025 | .139 | .077 | .024 | |
| 4.0 | .164 | .085 | .025 | .159 | .083 | .025 | .150 | .080 | .024 | .142 | .076 | .023 | .134 | .073 | .022 | |
| 5.0 | .155 | .079 | .023 | .151 | .077 | .023 | .143 | .074 | .022 | .136 | .072 | .021 | .129 | .069 | .021 | |
| 6.0 | .147 | .074 | .021 | .143 | .072 | .021 | .136 | .070 | .020 | .130 | .067 | .020 | .124 | .065 | .019 | |
| 7.0 | .140 | .069 | .020 | .136 | .068 | .019 | .130 | .066 | .019 | .124 | .064 | .019 | .119 | .062 | .018 | |
| 8.0 | .133 | .065 | .018 | .130 | .064 | .018 | .124 | .062 | .018 | .119 | .060 | .017 | .114 | .059 | .017 | |
| 9.0 | .127 | .061 | .017 | .124 | .061 | .017 | .119 | .059 | .017 | .114 | .057 | .016 | .110 | .056 | .016 | |
| 10.0 | .121 | .058 | .016 | .119 | .057 | .016 | .114 | .056 | .016 | .110 | .055 | .015 | .106 | .053 | .015 | |

| 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 | .209 | .209 | .209 | .178 | .178 | .178 | .122 | .122 | .122 | .070 | .070 | .070 | .022 | .022 | .022 | |
| 1.0 | .191 | .175 | .162 | .163 | .151 | .139 | .112 | .104 | .096 | .064 | .060 | .056 | .021 | .019 | .018 | |
| 2.0 | .176 | .151 | .129 | .151 | .130 | .112 | .103 | .090 | .078 | .060 | .052 | .046 | .019 | .017 | .015 | |
| 3.0 | .164 | .132 | .106 | .141 | .114 | .092 | .097 | .079 | .065 | .056 | .046 | .038 | .018 | .015 | .012 | |
| 4.0 | .154 | .118 | .090 | .133 | .102 | .078 | .091 | .071 | .055 | .053 | .042 | .032 | .017 | .014 | .011 | |
| 5.0 | .146 | .106 | .077 | .125 | .092 | .067 | .086 | .064 | .047 | .050 | .038 | .028 | .016 | .012 | .009 | |
| 6.0 | .138 | .097 | .067 | .119 | .084 | .059 | .082 | .059 | .042 | .048 | .035 | .025 | .015 | .011 | .008 | |
| 7.0 | .132 | .090 | .060 | .113 | .078 | .052 | .078 | .054 | .037 | .046 | .032 | .022 | .015 | .011 | .007 | |
| 8.0 | .126 | .083 | .054 | .109 | .072 | .047 | .075 | .051 | .034 | .044 | .030 | .020 | .014 | .010 | .007 | |
| 9.0 | .121 | .078 | .050 | .104 | .068 | .043 | .072 | .048 | .031 | .042 | .028 | .018 | .014 | .009 | .006 | |
| 10.0 | .116 | .074 | .046 | .100 | .064 | .040 | .069 | .045 | .028 | .040 | .027 | .017 | .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:8.540W PF:0.8410 Lamp Flux:778.725x1 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 | 23.1 | 24.1 | 23.3 | 24.3 | 24.5 | 23.1 | 24.1 | 23.3 | 24.3 | 24.5 | |
| | 3H | 23.1 | 24.0 | 23.4 | 24.3 | 24.5 | 23.1 | 24.0 | 23.4 | 24.3 | 24.5 |
| | 4H | 23.2 | 24.1 | 23.5 | 24.3 | 24.6 | 23.2 | 24.1 | 23.5 | 24.3 | 24.6 |
| | 6H | 23.4 | 24.2 | 23.7 | 24.5 | 24.8 | 23.4 | 24.2 | 23.7 | 24.5 | 24.8 |
| | 8H | 23.5 | 24.3 | 23.9 | 24.6 | 24.9 | 23.5 | 24.3 | 23.9 | 24.6 | 24.9 |
| | 12H | 23.7 | 24.5 | 24.1 | 24.8 | 25.1 | 23.7 | 24.5 | 24.1 | 24.8 | 25.1 |
| 4H | 2H | 22.9 | 23.8 | 23.2 | 24.0 | 24.3 | 22.9 | 23.8 | 23.2 | 24.0 | 24.3 |
| | 3H | 23.1 | 23.8 | 23.4 | 24.1 | 24.5 | 23.1 | 23.8 | 23.4 | 24.1 | 24.5 |
| | 4H | 23.3 | 23.9 | 23.7 | 24.3 | 24.6 | 23.3 | 23.9 | 23.7 | 24.3 | 24.6 |
| | 6H | 23.6 | 24.2 | 24.0 | 24.6 | 25.0 | 23.6 | 24.2 | 24.0 | 24.6 | 25.0 |
| | 8H | 23.8 | 24.4 | 24.3 | 24.8 | 25.2 | 23.8 | 24.4 | 24.3 | 24.8 | 25.2 |
| | 12H | 24.2 | 24.7 | 24.6 | 25.1 | 25.5 | 24.2 | 24.7 | 24.6 | 25.1 | 25.5 |
| 8H | 4H | 23.3 | 23.8 | 23.7 | 24.2 | 24.7 | 23.3 | 23.8 | 23.7 | 24.2 | 24.7 |
| | 6H | 23.8 | 24.2 | 24.3 | 24.7 | 25.1 | 23.8 | 24.2 | 24.3 | 24.7 | 25.1 |
| | 8H | 24.2 | 24.6 | 24.7 | 25.0 | 25.5 | 24.2 | 24.6 | 24.7 | 25.0 | 25.5 |
| | 12H | 24.7 | 25.1 | 25.2 | 25.6 | 26.1 | 24.7 | 25.1 | 25.2 | 25.5 | 26.1 |
| 12H | 4H | 23.3 | 23.8 | 23.7 | 24.2 | 24.6 | 23.3 | 23.8 | 23.7 | 24.2 | 24.6 |
| | 6H | 23.9 | 24.3 | 24.3 | 24.7 | 25.2 | 23.9 | 24.3 | 24.3 | 24.7 | 25.2 |
| | 8H | 24.3 | 24.7 | 24.8 | 25.1 | 25.7 | 24.3 | 24.7 | 24.8 | 25.1 | 25.7 |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | + 1.6 / - 2.7 | | | | | + 1.7 / - 2.7 | | | | | |
| 1.5H | + 3.4 / - 2.7 | | | | | + 3.4 / - 2.8 | | | | | |
| 2.0H | + 3.3 / - 0.8 | | | | | + 3.2 / - 0.8 | | | | | |

CIE Pub.117 Corrected 778.7 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.9)

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:8.540W PF:0.8410 Lamp Flux:778.725x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

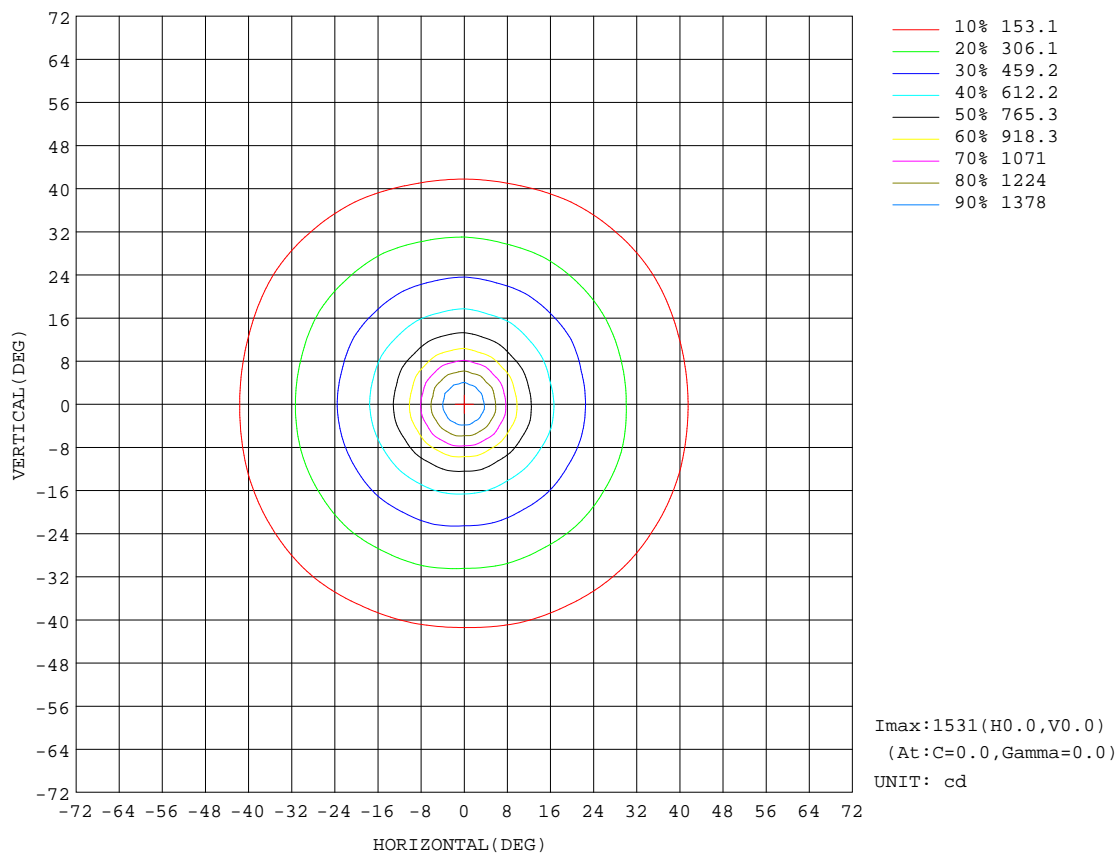
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 81 | 74 | 70 | 81 | 74 | 70 | 80 | 73 | 69 | 65 |
| 0.80 | 89 | 83 | 78 | 89 | 82 | 78 | 87 | 81 | 77 | 73 |
| 1.00 | 95 | 88 | 84 | 94 | 88 | 84 | 92 | 87 | 83 | 78 |
| 1.25 | 99 | 93 | 89 | 98 | 92 | 89 | 96 | 91 | 88 | 83 |
| 1.50 | 102 | 97 | 93 | 101 | 96 | 92 | 98 | 94 | 91 | 86 |
| 2.00 | 106 | 101 | 97 | 104 | 100 | 96 | 101 | 97 | 94 | 88 |
| 2.50 | 108 | 103 | 100 | 106 | 102 | 99 | 102 | 99 | 96 | 90 |
| 3.00 | 109 | 105 | 102 | 107 | 104 | 101 | 104 | 101 | 98 | 91 |
| 4.00 | 112 | 108 | 106 | 109 | 107 | 104 | 105 | 103 | 101 | 93 |
| 5.00 | 113 | 110 | 108 | 111 | 108 | 106 | 106 | 105 | 103 | 94 |
| 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:8.540W PF:0.8410 Lamp Flux:778.725x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |



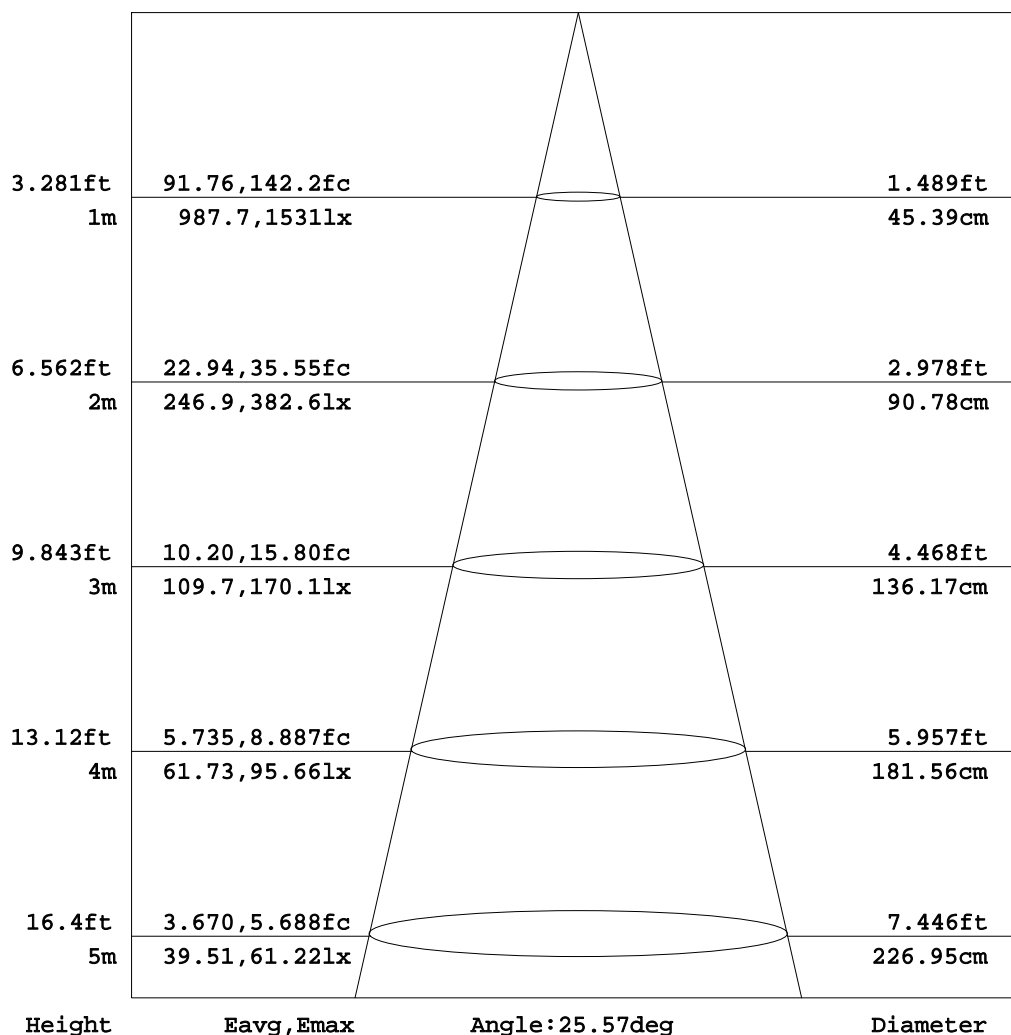
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZhangXiao
 Test Date:2015-12-07

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:8.540W PF:0.8410 Lamp Flux:778.725x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

Flux out:165.4 lm



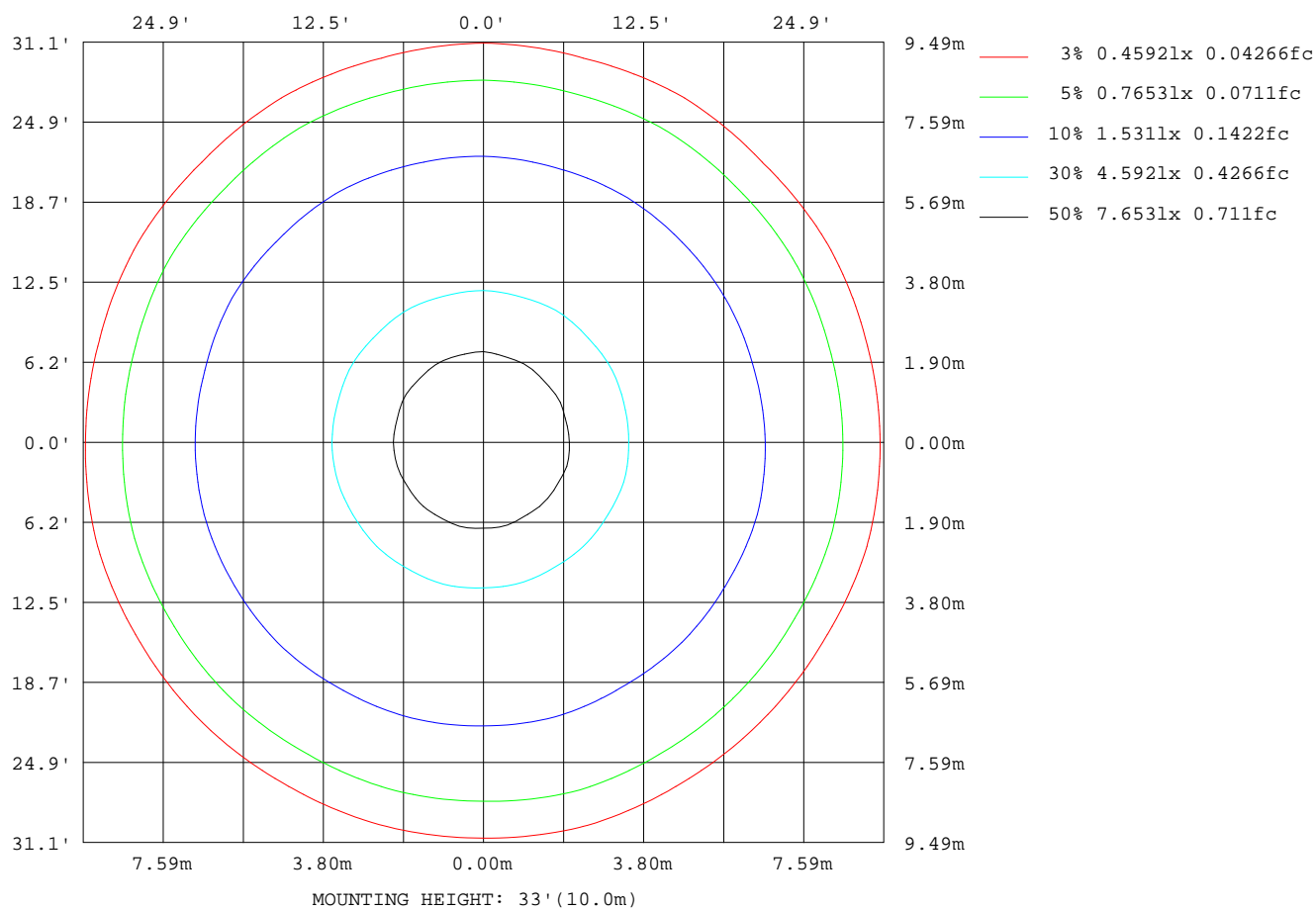
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

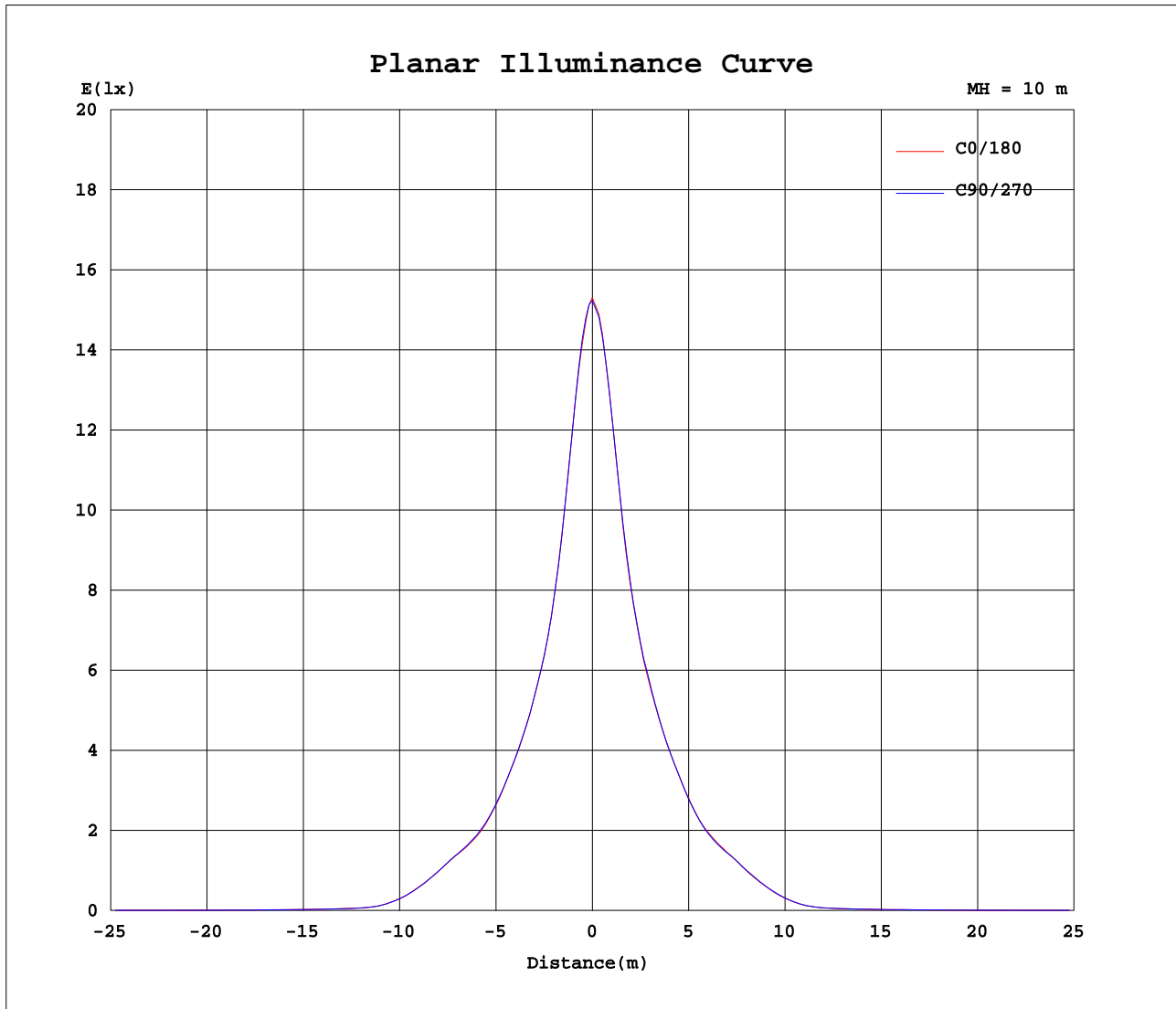
| | | |
|---|--------|-------------------|
| Test:U:226.4V I:0.0440A P:8.540W PF:0.8410 Lamp Flux:778.725x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |



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:8.540W PF:0.8410 Lamp Flux:778.725x1 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 | 1526 | 1526 | 1526 | 1526 | 1526 | 1526 | 1526 | 1526 | 1526 | 1526 | 1526 | 1526 | 1526 | 1526 | 1526 | 1526 | 1526 | 1526 | 1526 |
| 5 | 1287 | 1298 | 1285 | 1294 | 1288 | 1307 | 1294 | 1304 | 1299 | 1309 | 1301 | 1313 | 1307 | 1296 | 1317 | 1300 | 1317 | 1305 | 1317 |
| 10 | 899 | 909 | 892 | 898 | 890 | 907 | 901 | 914 | 908 | 923 | 914 | 928 | 927 | 920 | 939 | 931 | 944 | 934 | 941 |
| 15 | 662 | 664 | 654 | 654 | 651 | 660 | 667 | 671 | 670 | 679 | 679 | 688 | 688 | 691 | 698 | 693 | 701 | 695 | 698 |
| 20 | 516 | 520 | 511 | 514 | 511 | 520 | 521 | 528 | 526 | 535 | 535 | 543 | 543 | 540 | 550 | 544 | 551 | 544 | 546 |
| 25 | 400 | 404 | 401 | 402 | 399 | 406 | 405 | 413 | 413 | 420 | 420 | 425 | 425 | 424 | 431 | 427 | 430 | 424 | 427 |
| 30 | 306 | 310 | 308 | 310 | 309 | 313 | 313 | 319 | 318 | 323 | 322 | 326 | 323 | 323 | 328 | 325 | 326 | 321 | 321 |
| 35 | 255 | 258 | 253 | 253 | 253 | 259 | 258 | 259 | 258 | 263 | 262 | 266 | 263 | 264 | 269 | 265 | 268 | 263 | 262 |
| 40 | 181 | 182 | 178 | 178 | 180 | 185 | 182 | 181 | 179 | 182 | 183 | 186 | 184 | 184 | 190 | 189 | 192 | 187 | 188 |
| 45 | 84.6 | 85.3 | 80.2 | 79.9 | 79.6 | 85.2 | 83.1 | 86.1 | 82.3 | 89.2 | 87.2 | 89.8 | 87.5 | 85.6 | 88.5 | 83.8 | 88.2 | 86.1 | 89.1 |
| 50 | 26.7 | 26.9 | 26.2 | 26.6 | 25.9 | 25.7 | 25.8 | 27.0 | 27.5 | 28.2 | 27.4 | 28.0 | 27.2 | 26.7 | 27.6 | 27.3 | 27.8 | 27.0 | 27.3 |
| 55 | 18.0 | 17.8 | 17.5 | 17.5 | 17.3 | 17.2 | 17.2 | 17.7 | 17.9 | 18.1 | 17.8 | 17.9 | 17.7 | 17.2 | 17.5 | 17.3 | 17.7 | 17.7 | 17.9 |
| 60 | 13.5 | 13.5 | 13.4 | 13.4 | 13.3 | 13.3 | 13.1 | 13.3 | 13.4 | 13.5 | 13.3 | 13.3 | 13.2 | 13.1 | 13.3 | 13.2 | 13.4 | 13.4 | 13.5 |
| 65 | 10.8 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.8 | 10.8 | 10.8 | 10.9 | 10.8 | 10.7 | 10.5 | 10.5 | 10.6 | 10.6 | 10.7 | 10.7 | 10.8 |
| 70 | 8.41 | 8.51 | 8.56 | 8.59 | 8.50 | 8.52 | 8.49 | 8.57 | 8.55 | 8.61 | 8.45 | 8.34 | 8.20 | 8.06 | 8.09 | 8.02 | 8.16 | 8.23 | 8.32 |
| 75 | 7.10 | 7.27 | 7.35 | 7.36 | 7.28 | 7.27 | 7.27 | 7.36 | 7.35 | 7.38 | 7.23 | 7.06 | 6.92 | 6.79 | 6.75 | 6.71 | 6.81 | 6.93 | 7.00 |
| 80 | 6.09 | 6.30 | 6.43 | 6.47 | 6.39 | 6.29 | 6.24 | 6.30 | 6.32 | 6.35 | 6.32 | 6.03 | 5.87 | 5.71 | 5.67 | 5.66 | 5.80 | 5.94 | 6.01 |
| 85 | 5.22 | 5.44 | 5.56 | 5.61 | 5.50 | 5.36 | 5.25 | 5.29 | 5.32 | 5.39 | 5.39 | 5.10 | 4.95 | 4.75 | 4.73 | 4.78 | 5.01 | 5.09 | 5.18 |
| 90 | 1.61 | 1.24 | 1.26 | 1.27 | 1.29 | 1.24 | 1.26 | 1.24 | 1.25 | 1.25 | 1.34 | 1.25 | 1.45 | 1.47 | 1.46 | 1.49 | 1.50 | 1.47 | 1.46 |
| 95 | 1.35 | 1.28 | 1.27 | 1.29 | 1.30 | 1.28 | 1.27 | 1.27 | 1.27 | 1.28 | 1.29 | 1.28 | 1.56 | 1.56 | 1.56 | 1.55 | 1.58 | 1.55 | 1.56 |
| 100 | 1.37 | 1.37 | 1.37 | 1.39 | 1.37 | 1.38 | 1.37 | 1.37 | 1.36 | 1.37 | 1.37 | 1.37 | 1.70 | 1.70 | 1.71 | 1.69 | 1.71 | 1.69 | 1.71 |
| 105 | 1.53 | 1.55 | 1.55 | 1.56 | 1.55 | 1.55 | 1.54 | 1.54 | 1.53 | 1.54 | 1.53 | 1.54 | 1.87 | 1.86 | 1.87 | 1.86 | 1.87 | 1.86 | 1.87 |
| 110 | 1.76 | 1.78 | 1.78 | 1.79 | 1.78 | 1.78 | 1.77 | 1.77 | 1.76 | 1.77 | 1.75 | 1.76 | 2.07 | 2.06 | 2.07 | 2.06 | 2.07 | 2.07 | 2.08 |
| 115 | 2.04 | 2.05 | 2.06 | 2.06 | 2.06 | 2.06 | 2.04 | 2.04 | 2.03 | 2.03 | 2.03 | 2.02 | 2.32 | 2.30 | 2.32 | 2.30 | 2.32 | 2.31 | 2.32 |
| 120 | 2.36 | 2.38 | 2.38 | 2.39 | 2.38 | 2.38 | 2.37 | 2.37 | 2.35 | 2.35 | 2.34 | 2.33 | 2.61 | 2.59 | 2.61 | 2.59 | 2.61 | 2.60 | 2.62 |
| 125 | 2.76 | 2.77 | 2.78 | 2.78 | 2.78 | 2.78 | 2.77 | 2.75 | 2.75 | 2.74 | 2.73 | 2.72 | 2.97 | 2.96 | 2.97 | 2.95 | 2.97 | 2.97 | 2.98 |
| 130 | 3.24 | 3.25 | 3.26 | 3.26 | 3.26 | 3.25 | 3.25 | 3.23 | 3.22 | 3.21 | 3.20 | 3.19 | 3.39 | 3.39 | 3.40 | 3.39 | 3.40 | 3.41 | 3.42 |
| 135 | 3.75 | 3.77 | 3.79 | 3.78 | 3.78 | 3.77 | 3.77 | 3.74 | 3.74 | 3.73 | 3.72 | 3.71 | 3.88 | 3.88 | 3.88 | 3.87 | 3.88 | 3.89 | 3.90 |
| 140 | 4.23 | 4.26 | 4.27 | 4.27 | 4.26 | 4.27 | 4.25 | 4.24 | 4.22 | 4.22 | 4.21 | 4.20 | 4.33 | 4.33 | 4.34 | 4.32 | 4.34 | 4.34 | 4.35 |
| 145 | 4.62 | 4.64 | 4.64 | 4.63 | 4.65 | 4.64 | 4.64 | 4.62 | 4.61 | 4.61 | 4.60 | 4.59 | 4.68 | 4.68 | 4.69 | 4.69 | 4.70 | 4.70 | 4.72 |
| 150 | 4.90 | 4.92 | 4.93 | 4.93 | 4.92 | 4.93 | 4.93 | 4.91 | 4.90 | 4.91 | 4.90 | 4.89 | 4.97 | 4.96 | 4.96 | 4.96 | 4.99 | 4.98 | 4.99 |
| 155 | 5.15 | 5.17 | 5.17 | 5.18 | 5.18 | 5.19 | 5.18 | 5.16 | 5.16 | 5.18 | 5.16 | 5.15 | 5.22 | 5.21 | 5.23 | 5.21 | 5.24 | 5.23 | 5.25 |
| 160 | 5.38 | 5.40 | 5.40 | 5.40 | 5.40 | 5.42 | 5.42 | 5.41 | 5.40 | 5.41 | 5.41 | 5.39 | 5.44 | 5.44 | 5.46 | 5.44 | 5.46 | 5.46 | 5.47 |
| 165 | 5.55 | 5.57 | 5.58 | 5.57 | 5.57 | 5.59 | 5.59 | 5.58 | 5.58 | 5.60 | 5.58 | 5.58 | 5.62 | 5.62 | 5.63 | 5.62 | 5.64 | 5.64 | 5.65 |
| 170 | 5.69 | 5.72 | 5.72 | 5.72 | 5.73 | 5.74 | 5.75 | 5.74 | 5.74 | 5.74 | 5.75 | 5.74 | 5.75 | 5.75 | 5.77 | 5.74 | 5.77 | 5.77 | 5.79 |
| 175 | 5.78 | 5.79 | 5.80 | 5.80 | 5.80 | 5.82 | 5.82 | 5.81 | 5.81 | 5.83 | 5.82 | 5.81 | 5.81 | 5.82 | 5.84 | 5.82 | 5.84 | 5.84 | 5.85 |
| 180 | 5.85 | 5.86 | 5.88 | 5.87 | 5.88 | 5.89 | 5.89 | 5.88 | 5.89 | 5.89 | 5.89 | 5.88 | 5.85 | 5.86 | 5.87 | 5.87 | 5.88 | 5.89 | 5.89 |

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:8.540W PF:0.8410 Lamp Flux:778.725x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

Table--2

UNIT: cd

| C(DEC) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| γ (DEC) | | | | | | | | | | | | | | | | | | | |
| 0 | 1526 | 1526 | 1526 | 1526 | 1526 | | | | | | | | | | | | | | |
| 5 | 1292 | 1302 | 1285 | 1297 | 1282 | | | | | | | | | | | | | | |
| 10 | 916 | 922 | 905 | 912 | 895 | | | | | | | | | | | | | | |
| 15 | 684 | 678 | 668 | 663 | 655 | | | | | | | | | | | | | | |
| 20 | 537 | 541 | 530 | 529 | 519 | | | | | | | | | | | | | | |
| 25 | 420 | 420 | 413 | 412 | 404 | | | | | | | | | | | | | | |
| 30 | 315 | 316 | 313 | 311 | 308 | | | | | | | | | | | | | | |
| 35 | 257 | 258 | 255 | 254 | 254 | | | | | | | | | | | | | | |
| 40 | 182 | 186 | 181 | 182 | 179 | | | | | | | | | | | | | | |
| 45 | 86.9 | 87.4 | 85.6 | 86.3 | 83.4 | | | | | | | | | | | | | | |
| 50 | 27.0 | 27.6 | 27.3 | 27.7 | 26.8 | | | | | | | | | | | | | | |
| 55 | 18.0 | 18.3 | 18.1 | 18.4 | 18.0 | | | | | | | | | | | | | | |
| 60 | 13.4 | 13.6 | 13.5 | 13.7 | 13.5 | | | | | | | | | | | | | | |
| 65 | 10.6 | 10.8 | 10.8 | 10.9 | 10.8 | | | | | | | | | | | | | | |
| 70 | 8.28 | 8.35 | 8.32 | 8.46 | 8.40 | | | | | | | | | | | | | | |
| 75 | 6.96 | 6.94 | 6.92 | 7.02 | 7.05 | | | | | | | | | | | | | | |
| 80 | 5.94 | 5.88 | 5.83 | 5.94 | 6.02 | | | | | | | | | | | | | | |
| 85 | 5.12 | 5.04 | 4.98 | 5.10 | 5.15 | | | | | | | | | | | | | | |
| 90 | 1.47 | 1.46 | 1.47 | 1.50 | 1.47 | | | | | | | | | | | | | | |
| 95 | 1.55 | 1.57 | 1.55 | 1.58 | 1.56 | | | | | | | | | | | | | | |
| 100 | 1.69 | 1.71 | 1.70 | 1.72 | 1.70 | | | | | | | | | | | | | | |
| 105 | 1.87 | 1.88 | 1.87 | 1.89 | 1.87 | | | | | | | | | | | | | | |
| 110 | 2.07 | 2.08 | 2.08 | 2.09 | 2.08 | | | | | | | | | | | | | | |
| 115 | 2.32 | 2.33 | 2.33 | 2.34 | 2.34 | | | | | | | | | | | | | | |
| 120 | 2.60 | 2.62 | 2.63 | 2.64 | 2.63 | | | | | | | | | | | | | | |
| 125 | 2.97 | 2.99 | 3.00 | 3.02 | 3.02 | | | | | | | | | | | | | | |
| 130 | 3.41 | 3.43 | 3.44 | 3.45 | 3.46 | | | | | | | | | | | | | | |
| 135 | 3.90 | 3.91 | 3.92 | 3.94 | 3.94 | | | | | | | | | | | | | | |
| 140 | 4.34 | 4.36 | 4.37 | 4.38 | 4.39 | | | | | | | | | | | | | | |
| 145 | 4.70 | 4.72 | 4.73 | 4.75 | 4.74 | | | | | | | | | | | | | | |
| 150 | 4.97 | 4.99 | 5.00 | 5.01 | 5.00 | | | | | | | | | | | | | | |
| 155 | 5.22 | 5.24 | 5.24 | 5.26 | 5.25 | | | | | | | | | | | | | | |
| 160 | 5.45 | 5.47 | 5.47 | 5.48 | 5.46 | | | | | | | | | | | | | | |
| 165 | 5.64 | 5.64 | 5.64 | 5.64 | 5.63 | | | | | | | | | | | | | | |
| 170 | 5.77 | 5.77 | 5.76 | 5.78 | 5.75 | | | | | | | | | | | | | | |
| 175 | 5.83 | 5.85 | 5.85 | 5.85 | 5.82 | | | | | | | | | | | | | | |
| 180 | 5.88 | 5.88 | 5.89 | 5.89 | 5.88 | | | | | | | | | | | | | | |

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

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