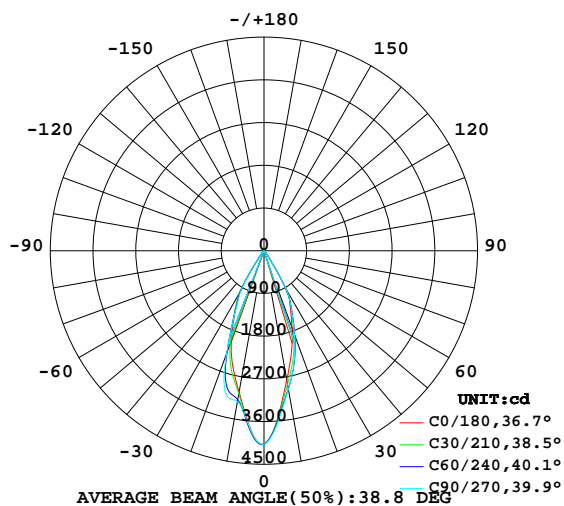


LUMINAIRE PHOTOMETRIC TEST REPORT

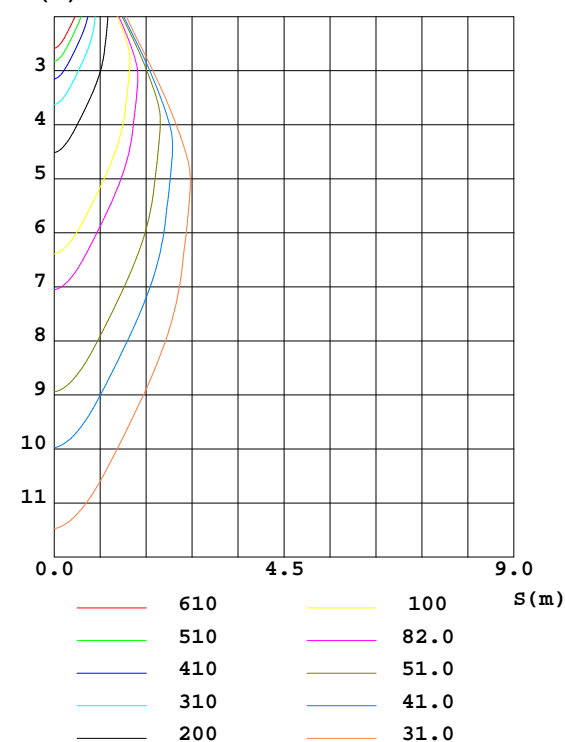
| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.0900A P:19.50W PF:0.9540 Lamp Flux:2049.74x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 105.11 lm/W | | | |
|------------------|--------------------|-----------------------------------|--------|------------------------|----------|
| MODEL | SD041-20W-840-W-38 | Imax(cd) | 4083 | S/MH(C0/180) | 0.53 |
| NOMINAL POWER(W) | 20 | LOR(%) | 100.0 | S/MH(C90/270) | 0.58 |
| RATED VOLTAGE(V) | 226 | TOTAL FLUX(lm) | 2049.7 | η UP,DN(C0-180) | 1.3,47.1 |
| NOMINAL FLUX(lm) | 2049.74 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 1.4,50.3 |
| LAMPS INSIDE | 1 | η up(%) | 2.6 | CIBSE SHR NOM | 0.50 |
| TEST VOLTAGE(V) | 226.6 | η down(%) | 97.4 | CIBSE SHR MAX | 0.70 |

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:2016-08-01

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 | 2766 | 2930 | 2966 | 2968 | 3027 | 3100 | 3226 | 2945 | 0- 10 | 323.6 | 323.6 | 15.8,15.8 |
| 20 | 1736 | 1906 | 1875 | 1928 | 2014 | 2143 | 2312 | 1960 | 10- 20 | 702.6 | 1026 | 50.1,50.1 |
| 30 | 918.6 | 934.9 | 904.9 | 1020 | 1050 | 1015 | 992.1 | 998.9 | 20- 30 | 657.3 | 1684 | 82.1,82.1 |
| 40 | 115.7 | 97.13 | 90.37 | 102.1 | 100.3 | 92.65 | 83.55 | 102.9 | 30- 40 | 221.3 | 1905 | 92.9,92.9 |
| 50 | 35.58 | 30.44 | 29.52 | 31.45 | 31.45 | 30.63 | 29.59 | 31.70 | 40- 50 | 43.11 | 1948 | 95,95 |
| 60 | 16.49 | 16.10 | 16.10 | 16.54 | 16.61 | 16.59 | 16.55 | 16.41 | 50- 60 | 20.02 | 1968 | 96,96 |
| 70 | 10.31 | 10.30 | 10.33 | 10.54 | 10.65 | 10.59 | 10.50 | 10.61 | 60- 70 | 13.03 | 1981 | 96.6,96.6 |
| 80 | 6.560 | 6.504 | 6.504 | 6.622 | 6.989 | 6.965 | 7.023 | 6.977 | 70- 80 | 9.000 | 1990 | 97.1,97.1 |
| 90 | 4.182 | 3.728 | 3.752 | 3.782 | 4.781 | 4.604 | 4.605 | 4.601 | 80- 90 | 6.005 | 1996 | 97.4,97.4 |
| 100 | 3.746 | 3.698 | 3.749 | 3.722 | 4.926 | 4.824 | 4.813 | 4.883 | 90-100 | 4.663 | 2001 | 97.6,97.6 |
| 110 | 4.615 | 4.586 | 4.599 | 4.579 | 5.636 | 5.603 | 5.604 | 5.673 | 100-110 | 4.888 | 2006 | 97.8,97.8 |
| 120 | 6.515 | 6.553 | 6.627 | 6.438 | 7.205 | 7.207 | 7.232 | 7.323 | 110-120 | 5.863 | 2011 | 98.1,98.1 |
| 130 | 9.482 | 9.535 | 9.611 | 9.340 | 9.718 | 9.667 | 9.699 | 9.880 | 120-130 | 7.314 | 2019 | 98.5,98.5 |
| 140 | 12.77 | 12.76 | 12.80 | 12.64 | 12.78 | 12.68 | 12.65 | 12.90 | 130-140 | 8.639 | 2027 | 98.9,98.9 |
| 150 | 15.26 | 15.24 | 15.32 | 15.16 | 15.30 | 15.32 | 15.26 | 15.39 | 140-150 | 8.823 | 2036 | 99.3,99.3 |
| 160 | 16.20 | 16.23 | 16.26 | 16.23 | 16.34 | 16.35 | 16.41 | 16.39 | 150-160 | 7.353 | 2044 | 99.7,99.7 |
| 170 | 16.34 | 16.20 | 16.33 | 16.53 | 16.61 | 16.62 | 16.60 | 16.62 | 160-170 | 4.654 | 2048 | 99.9,99.9 |
| 180 | 16.65 | 16.73 | 16.84 | 16.80 | 16.65 | 16.73 | 16.84 | 16.80 | 170-180 | 1.581 | 2050 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

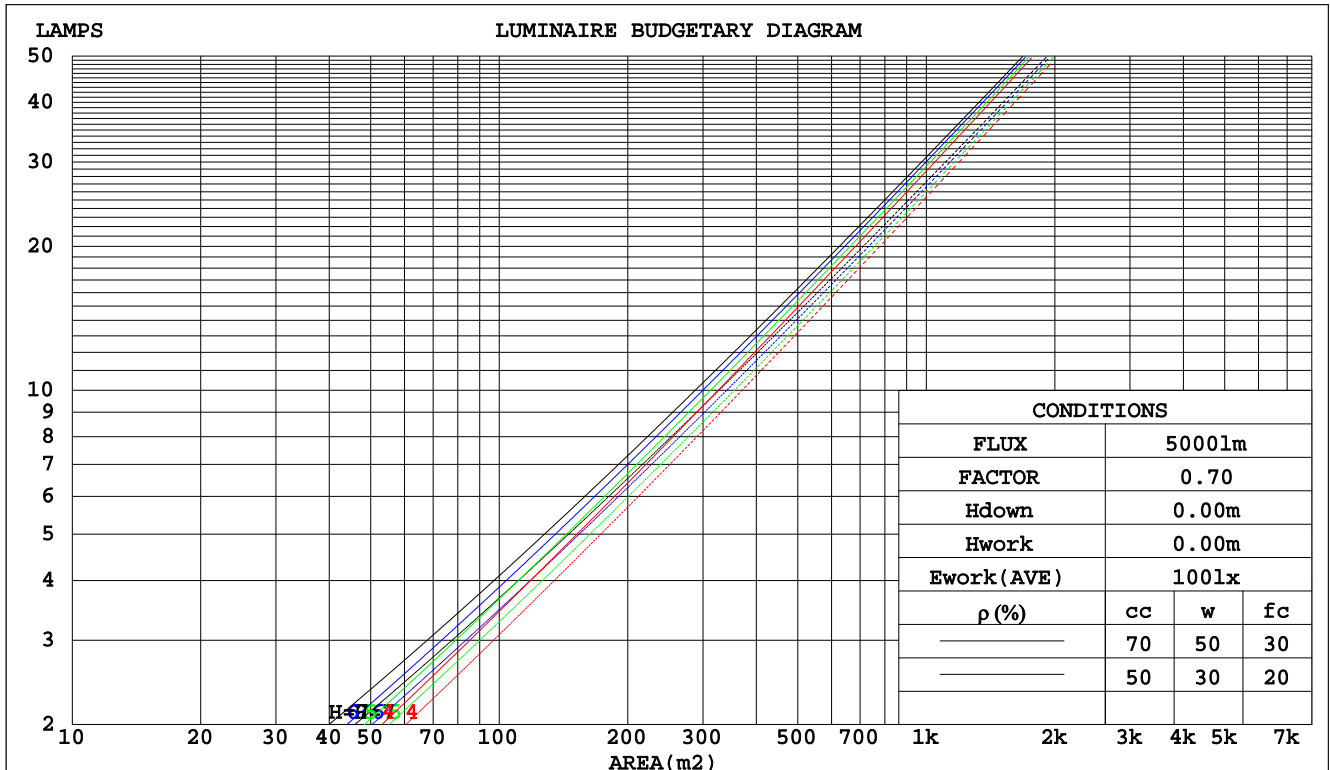
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-08-01

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.0900A P:19.50W PF:0.9540 Lamp Flux:2049.74x1 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 | .82 |
| 4.0 | .92 | .87 | .83 | .90 | .86 | .82 | .88 | .84 | .81 | .86 | .82 | .80 | .84 | .81 | .79 | .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 | .73 | .80 | .75 | .72 | .78 | .74 | .71 | .76 | .73 | .70 | .69 |
| 7.0 | .78 | .73 | .69 | .77 | .72 | .69 | .76 | .71 | .68 | .74 | .70 | .67 | .73 | .70 | .67 | .66 |
| 8.0 | .74 | .69 | .65 | .74 | .69 | .65 | .72 | .68 | .65 | .71 | .67 | .64 | .70 | .66 | .64 | .62 |
| 9.0 | .71 | .66 | .62 | .70 | .65 | .62 | .69 | .65 | .61 | .68 | .64 | .61 | .67 | .63 | .61 | .60 |
| 10.0 | .68 | .62 | .59 | .67 | .62 | .59 | .66 | .62 | .59 | .65 | .61 | .58 | .64 | .61 | .58 | .57 |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-08-01

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:0.0900A P:19.50W PF:0.9540 Lamp Flux:2049.74x1 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 | .171 | .097 | .031 | .164 | .093 | .030 | .150 | .086 | .027 | .137 | .079 | .025 | .125 | .072 | .023 | | |
| 2.0 | .161 | .088 | .027 | .154 | .085 | .026 | .142 | .079 | .025 | .131 | .074 | .023 | .121 | .069 | .022 | | |
| 3.0 | .151 | .080 | .024 | .146 | .078 | .024 | .136 | .073 | .022 | .126 | .069 | .021 | .117 | .065 | .020 | | |
| 4.0 | .143 | .074 | .022 | .138 | .072 | .021 | .129 | .069 | .020 | .121 | .065 | .020 | .113 | .062 | .019 | | |
| 5.0 | .135 | .069 | .020 | .131 | .067 | .020 | .124 | .064 | .019 | .116 | .061 | .018 | .110 | .059 | .018 | | |
| 6.0 | .129 | .065 | .018 | .125 | .063 | .018 | .118 | .061 | .018 | .112 | .058 | .017 | .106 | .056 | .017 | | |
| 7.0 | .123 | .061 | .017 | .120 | .060 | .017 | .113 | .057 | .017 | .108 | .055 | .016 | .102 | .053 | .016 | | |
| 8.0 | .117 | .057 | .016 | .114 | .056 | .016 | .109 | .054 | .016 | .104 | .053 | .015 | .099 | .051 | .015 | | |
| 9.0 | .112 | .054 | .015 | .110 | .053 | .015 | .105 | .052 | .015 | .100 | .050 | .014 | .096 | .049 | .014 | | |
| 10.0 | .108 | .052 | .014 | .105 | .051 | .014 | .101 | .049 | .014 | .097 | .048 | .014 | .093 | .047 | .013 | | |

| 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 | .180 | .180 | .180 | .123 | .123 | .123 | .071 | .071 | .071 | .023 | .023 | .023 | | |
| 1.0 | .191 | .178 | .165 | .163 | .152 | .142 | .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 | .111 | .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 | .107 | .082 | .122 | .093 | .071 | .084 | .065 | .050 | .049 | .038 | .030 | .016 | .012 | .010 | | |
| 6.0 | .134 | .098 | .072 | .115 | .085 | .063 | .080 | .059 | .044 | .046 | .035 | .026 | .015 | .011 | .009 | | |
| 7.0 | .127 | .090 | .064 | .110 | .078 | .056 | .076 | .055 | .040 | .044 | .032 | .024 | .014 | .011 | .008 | | |
| 8.0 | .121 | .084 | .058 | .105 | .073 | .051 | .072 | .051 | .036 | .042 | .030 | .021 | .014 | .010 | .007 | | |
| 9.0 | .116 | .079 | .053 | .100 | .068 | .046 | .069 | .048 | .033 | .040 | .028 | .020 | .013 | .009 | .007 | | |
| 10.0 | .112 | .074 | .049 | .096 | .064 | .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:2016-08-01

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:0.0900A P:19.50W PF:0.9540 Lamp Flux:2049.74x1 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 | 15.3 | 16.2 | 15.6 | 16.4 | 16.6 | 14.8 | 15.6 | 15.0 | 15.8 | 16.0 | |
| | 3H | 15.4 | 16.2 | 15.7 | 16.4 | 16.7 | 14.9 | 15.7 | 15.2 | 15.9 | |
| | 4H | 15.5 | 16.2 | 15.8 | 16.5 | 16.8 | 15.0 | 15.8 | 15.3 | 16.0 | |
| | 6H | 15.7 | 16.3 | 16.0 | 16.6 | 16.9 | 15.2 | 15.9 | 15.5 | 16.2 | |
| | 8H | 15.8 | 16.4 | 16.1 | 16.7 | 17.0 | 15.3 | 16.0 | 15.7 | 16.3 | |
| | 12H | 15.9 | 16.5 | 16.3 | 16.8 | 17.2 | 15.5 | 16.1 | 15.8 | 16.4 | |
| 4H | 2H | 15.2 | 15.9 | 15.5 | 16.2 | 16.5 | 14.7 | 15.4 | 15.0 | 15.7 | |
| | 3H | 15.4 | 16.0 | 15.7 | 16.3 | 16.7 | 14.9 | 15.6 | 15.3 | 15.9 | |
| | 4H | 15.6 | 16.1 | 15.9 | 16.5 | 16.8 | 15.1 | 15.7 | 15.5 | 16.1 | |
| | 6H | 15.8 | 16.3 | 16.2 | 16.7 | 17.1 | 15.4 | 16.0 | 15.9 | 16.3 | |
| | 8H | 16.0 | 16.5 | 16.5 | 16.9 | 17.3 | 15.6 | 16.1 | 16.1 | 16.5 | |
| | 12H | 16.3 | 16.7 | 16.7 | 17.1 | 17.6 | 15.9 | 16.3 | 16.4 | 16.8 | |
| 8H | 4H | 15.6 | 16.0 | 16.0 | 16.4 | 16.9 | 15.2 | 15.6 | 15.6 | 16.0 | |
| | 6H | 16.0 | 16.4 | 16.4 | 16.8 | 17.3 | 15.6 | 16.0 | 16.1 | 16.4 | |
| | 8H | 16.3 | 16.6 | 16.8 | 17.1 | 17.6 | 15.9 | 16.3 | 16.4 | 16.7 | |
| | 12H | 16.7 | 17.0 | 17.2 | 17.5 | 18.0 | 16.4 | 16.7 | 16.9 | 17.1 | |
| 12H | 4H | 15.6 | 16.0 | 16.0 | 16.4 | 16.8 | 15.1 | 15.6 | 15.6 | 16.0 | |
| | 6H | 16.0 | 16.3 | 16.5 | 16.8 | 17.3 | 15.7 | 16.0 | 16.1 | 16.5 | |
| | 8H | 16.4 | 16.7 | 16.9 | 17.1 | 17.7 | 16.0 | 16.3 | 16.5 | 16.8 | |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | + 1.4 / - 1.3 | | | | | + 1.2 / - 1.0 | | | | | |
| 1.5H | + 2.7 / - 1.2 | | | | | + 2.3 / - 0.8 | | | | | |
| 2.0H | + 1.7 / - 0.6 | | | | | + 0.9 / - 0.4 | | | | | |

CIE Pub.117 Corrected 2050 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.5)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-08-01

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:0.0900A P:19.50W PF:0.9540 Lamp Flux:2049.74x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

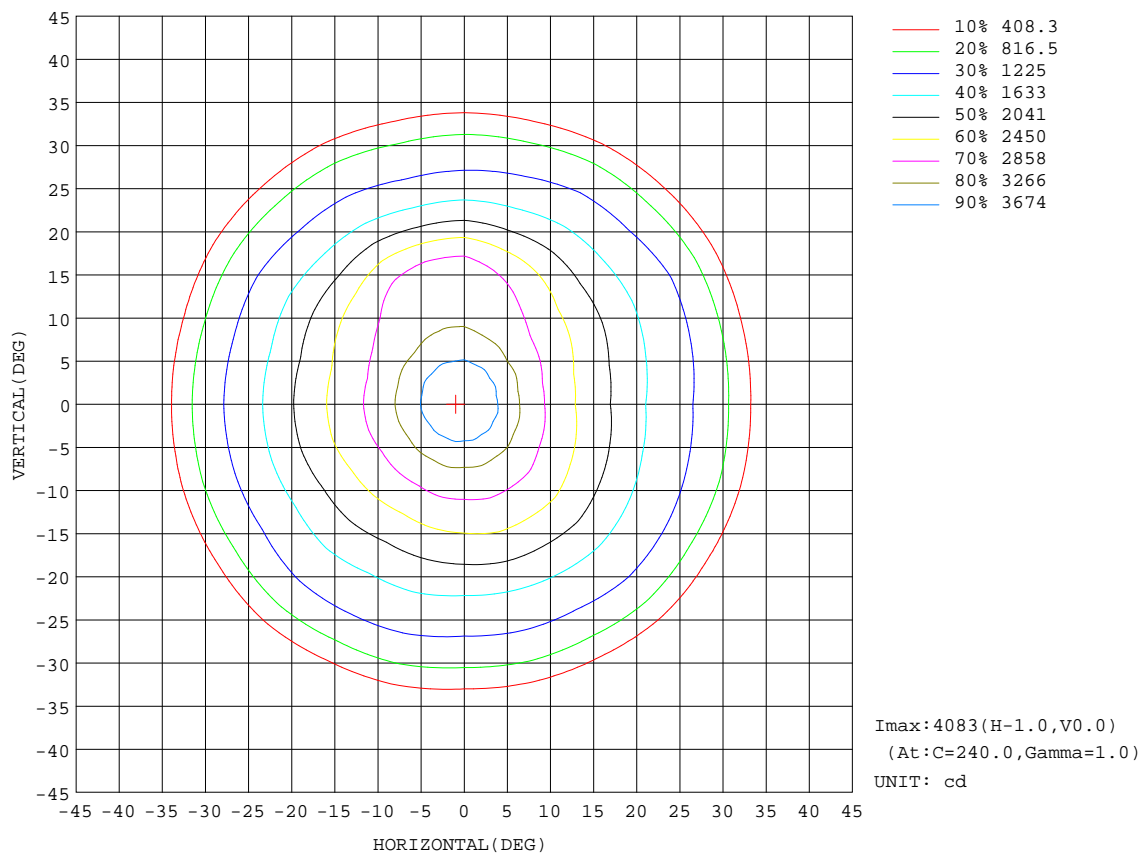
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 87 | 84 | 81 |
| 1.00 | 99 | 93 | 89 | 98 | 92 | 89 | 96 | 92 | 88 | 84 |
| 1.25 | 102 | 97 | 94 | 101 | 97 | 93 | 99 | 95 | 92 | 88 |
| 1.50 | 105 | 100 | 97 | 104 | 99 | 96 | 101 | 98 | 95 | 90 |
| 2.00 | 108 | 103 | 100 | 106 | 102 | 99 | 103 | 100 | 97 | 92 |
| 2.50 | 109 | 105 | 102 | 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 | 107 | 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:2016-08-01

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:0.0900A P:19.50W PF:0.9540 Lamp Flux:2049.74x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |



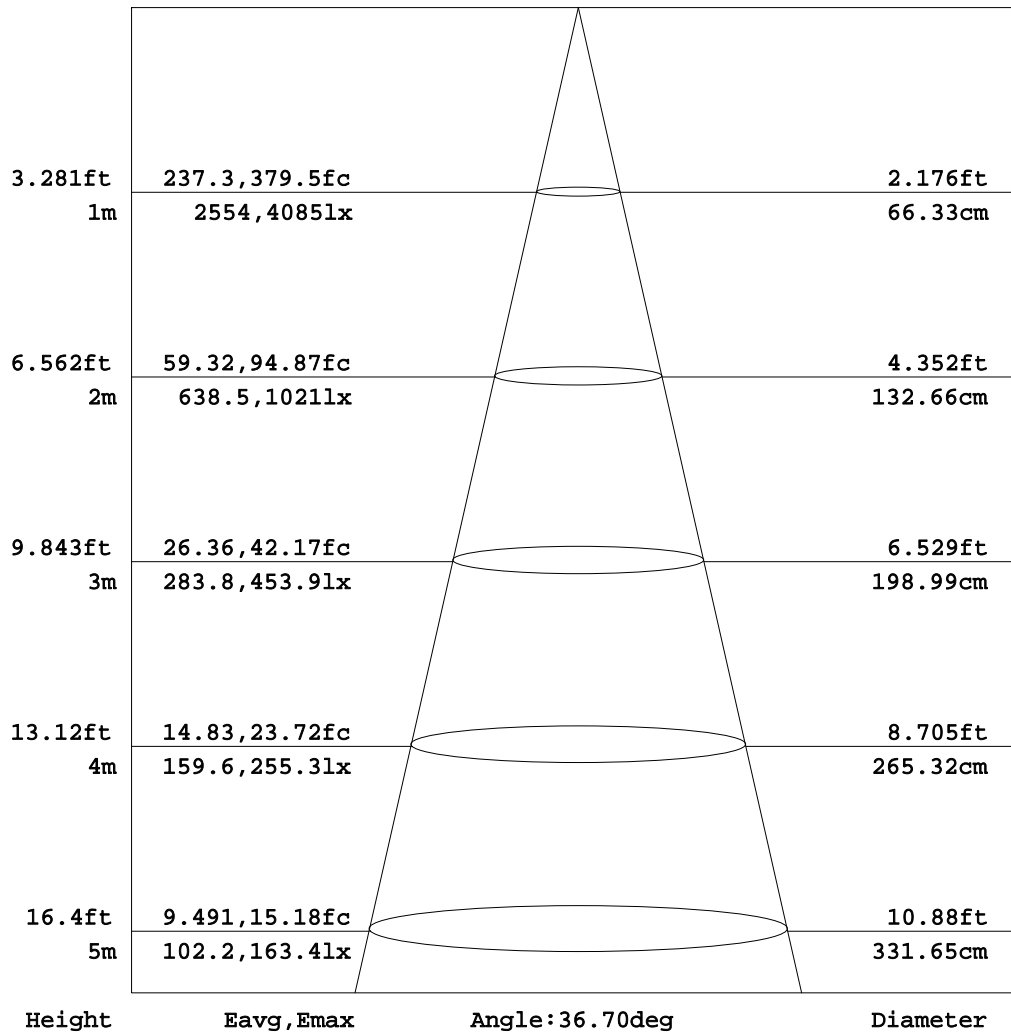
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-08-01

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:

AAI Figure

| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.0900A P:19.50W PF:0.9540 Lamp Flux:2049.74x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

Flux out:951.3 lm



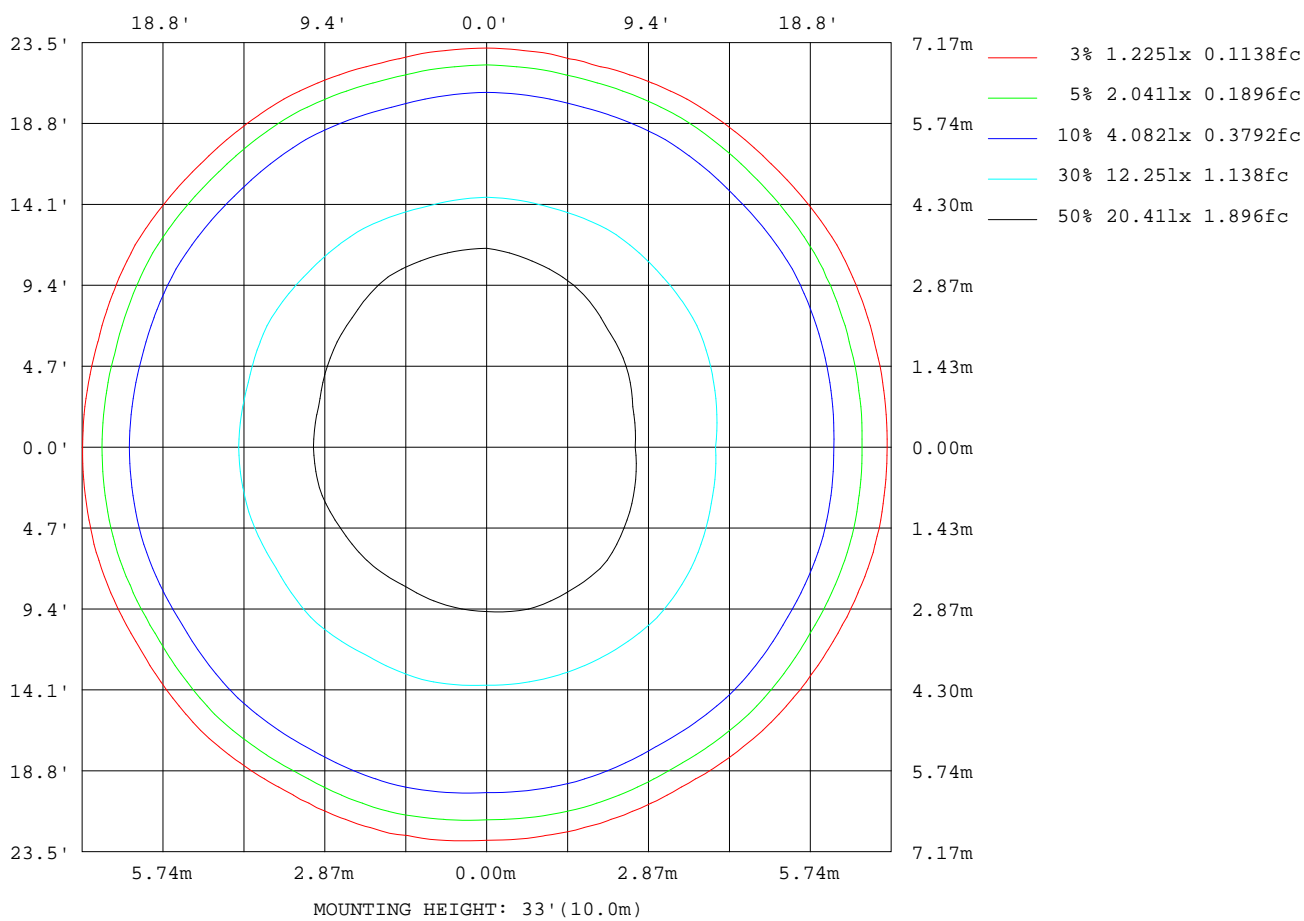
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-08-01

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

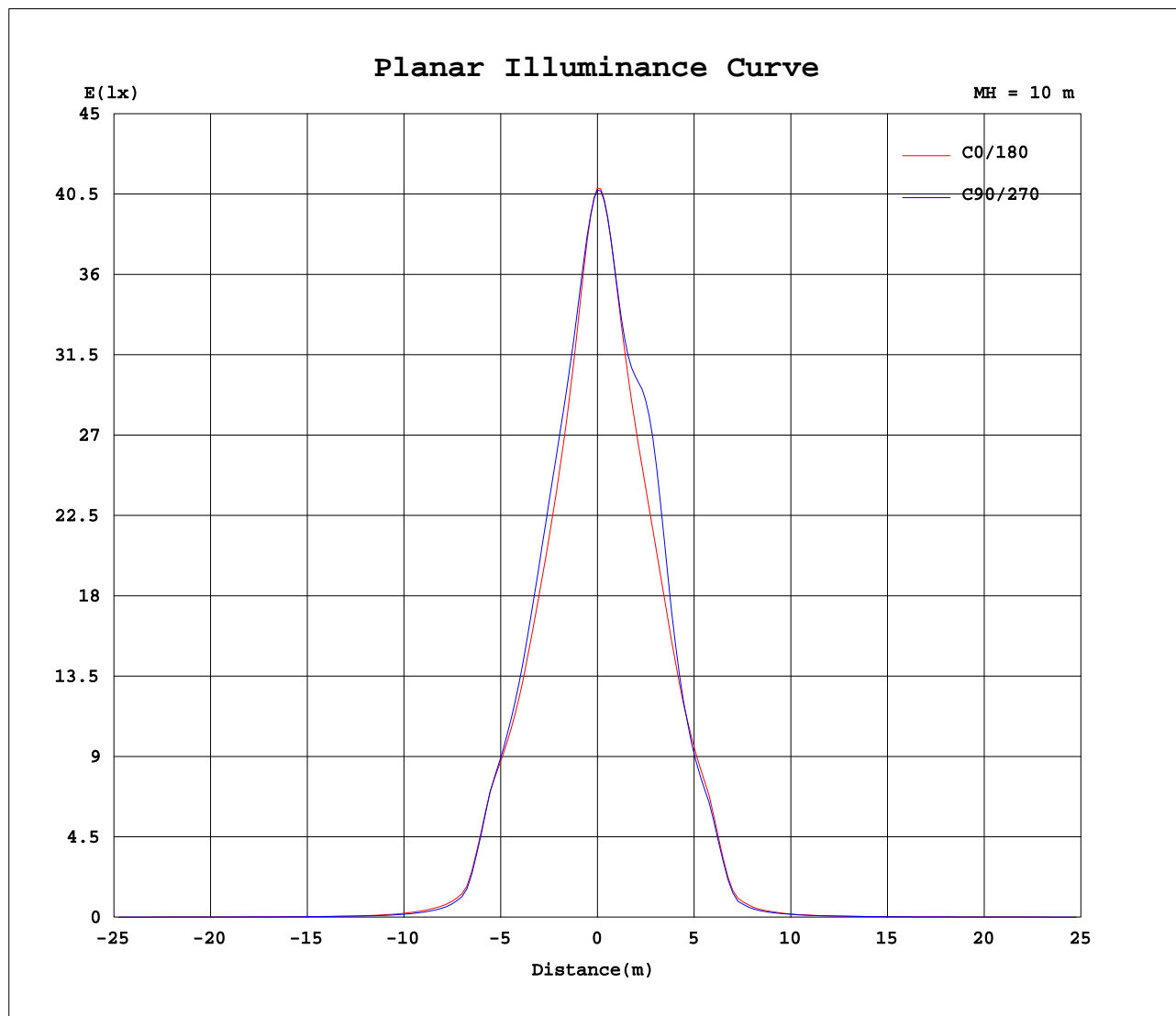
| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.0900A P:19.50W PF:0.9540 Lamp Flux:2049.74x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-08-01

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: 2016-08-01

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:0.0900A P:19.50W PF:0.9540 Lamp Flux:2049.74x1 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 | 4077 | 4077 | 4077 | 4077 | 4077 | 4077 | 4077 | 4077 | 4077 | 4077 | 4077 | 4077 | 4077 | 4077 | 4077 | 4077 | 4077 | 4077 | 4077 |
| 5 | 3490 | 3512 | 3507 | 3547 | 3544 | 3578 | 3575 | 3605 | 3593 | 3630 | 3624 | 3671 | 3680 | 3670 | 3714 | 3689 | 3722 | 3684 | 3696 |
| 10 | 2766 | 2808 | 2856 | 2930 | 2955 | 2981 | 2966 | 2974 | 2950 | 2968 | 2966 | 3012 | 3027 | 3019 | 3062 | 3100 | 3187 | 3226 | 3226 |
| 15 | 2229 | 2287 | 2364 | 2452 | 2461 | 2482 | 2446 | 2428 | 2396 | 2438 | 2461 | 2531 | 2538 | 2533 | 2633 | 2768 | 2997 | 3119 | 3120 |
| 20 | 1736 | 1772 | 1838 | 1906 | 1902 | 1899 | 1875 | 1881 | 1868 | 1928 | 1932 | 2000 | 2014 | 2001 | 2088 | 2143 | 2284 | 2285 | 2312 |
| 25 | 1318 | 1334 | 1381 | 1408 | 1382 | 1378 | 1377 | 1415 | 1413 | 1450 | 1415 | 1459 | 1472 | 1454 | 1503 | 1470 | 1482 | 1427 | 1462 |
| 30 | 919 | 941 | 912 | 935 | 888 | 922 | 905 | 975 | 967 | 1020 | 996 | 1042 | 1050 | 1035 | 1052 | 1015 | 1019 | 960 | 992 |
| 35 | 239 | 238 | 228 | 222 | 207 | 210 | 211 | 232 | 232 | 255 | 246 | 271 | 272 | 261 | 284 | 264 | 273 | 239 | 247 |
| 40 | 116 | 115 | 105 | 97.1 | 88.9 | 89.9 | 90.4 | 97.1 | 98.6 | 102 | 99.3 | 102 | 100 | 97.5 | 99.3 | 92.6 | 88.9 | 83.2 | 83.6 |
| 45 | 63.4 | 62.2 | 56.0 | 51.1 | 47.1 | 47.2 | 47.6 | 50.7 | 51.6 | 53.2 | 52.2 | 53.3 | 52.5 | 51.5 | 52.5 | 49.9 | 48.5 | 46.1 | 46.8 |
| 50 | 35.6 | 35.2 | 32.5 | 30.4 | 29.0 | 29.2 | 29.5 | 30.7 | 30.9 | 31.5 | 31.3 | 31.9 | 31.5 | 31.0 | 31.5 | 30.6 | 30.3 | 29.3 | 29.6 |
| 55 | 22.8 | 22.6 | 21.8 | 21.1 | 20.7 | 20.9 | 21.0 | 21.5 | 21.5 | 21.8 | 21.9 | 22.2 | 21.8 | 21.6 | 22.0 | 21.7 | 21.8 | 21.3 | 21.5 |
| 60 | 16.5 | 16.4 | 16.2 | 16.1 | 15.9 | 16.0 | 16.1 | 16.4 | 16.4 | 16.5 | 16.7 | 17.0 | 16.6 | 16.4 | 16.8 | 16.6 | 16.6 | 16.3 | 16.5 |
| 65 | 12.9 | 12.9 | 12.8 | 12.9 | 12.7 | 12.9 | 12.9 | 13.1 | 13.1 | 13.2 | 13.3 | 13.5 | 13.1 | 13.0 | 13.2 | 13.1 | 13.0 | 12.8 | 12.9 |
| 70 | 10.3 | 10.3 | 10.3 | 10.3 | 10.2 | 10.3 | 10.3 | 10.5 | 10.5 | 10.5 | 10.7 | 10.8 | 10.6 | 10.6 | 10.7 | 10.6 | 10.5 | 10.4 | 10.5 |
| 75 | 8.25 | 8.16 | 8.12 | 8.14 | 8.08 | 8.18 | 8.20 | 8.37 | 8.32 | 8.43 | 8.50 | 8.65 | 8.67 | 8.67 | 8.78 | 8.61 | 8.63 | 8.58 | 8.64 |
| 80 | 6.56 | 6.50 | 6.55 | 6.50 | 6.45 | 6.51 | 6.50 | 6.58 | 6.57 | 6.62 | 6.67 | 6.77 | 6.99 | 7.02 | 7.14 | 6.96 | 6.98 | 6.98 | 7.02 |
| 85 | 5.26 | 5.22 | 5.32 | 5.04 | 4.99 | 5.05 | 5.05 | 5.14 | 5.16 | 5.25 | 5.27 | 5.35 | 5.86 | 5.98 | 6.20 | 5.78 | 5.81 | 5.77 | 5.81 |
| 90 | 4.18 | 3.97 | 4.22 | 3.73 | 3.74 | 3.75 | 3.75 | 3.75 | 3.78 | 3.78 | 3.81 | 3.84 | 4.78 | 4.95 | 5.28 | 4.60 | 4.66 | 4.59 | 4.60 |
| 95 | 4.11 | 3.84 | 4.03 | 3.66 | 3.68 | 3.69 | 3.71 | 3.71 | 3.72 | 3.70 | 3.72 | 3.71 | 5.12 | 5.01 | 5.07 | 4.67 | 4.66 | 4.67 | 4.66 |
| 100 | 3.75 | 3.72 | 3.82 | 3.70 | 3.72 | 3.72 | 3.75 | 3.74 | 3.74 | 3.72 | 3.72 | 3.71 | 4.93 | 4.94 | 4.93 | 4.82 | 4.80 | 4.82 | 4.81 |
| 105 | 4.04 | 4.02 | 4.07 | 4.01 | 4.03 | 4.02 | 4.04 | 4.02 | 4.04 | 4.02 | 4.03 | 4.00 | 5.15 | 5.16 | 5.14 | 5.12 | 5.09 | 5.12 | 5.10 |
| 110 | 4.61 | 4.58 | 4.63 | 4.59 | 4.61 | 4.56 | 4.60 | 4.57 | 4.62 | 4.58 | 4.60 | 4.55 | 5.64 | 5.65 | 5.61 | 5.60 | 5.58 | 5.62 | 5.60 |
| 115 | 5.44 | 5.40 | 5.46 | 5.42 | 5.46 | 5.41 | 5.46 | 5.41 | 5.46 | 5.38 | 5.38 | 5.32 | 6.30 | 6.33 | 6.28 | 6.29 | 6.28 | 6.33 | 6.31 |
| 120 | 6.51 | 6.48 | 6.58 | 6.55 | 6.63 | 6.58 | 6.63 | 6.55 | 6.57 | 6.44 | 6.42 | 6.33 | 7.21 | 7.22 | 7.17 | 7.21 | 7.19 | 7.26 | 7.23 |
| 125 | 7.86 | 7.85 | 7.99 | 7.94 | 8.04 | 7.97 | 8.03 | 7.92 | 7.90 | 7.76 | 7.74 | 7.62 | 8.35 | 8.35 | 8.30 | 8.33 | 8.32 | 8.38 | 8.38 |
| 130 | 9.48 | 9.48 | 9.59 | 9.54 | 9.64 | 9.56 | 9.61 | 9.48 | 9.46 | 9.34 | 9.33 | 9.20 | 9.72 | 9.70 | 9.64 | 9.67 | 9.64 | 9.69 | 9.70 |
| 135 | 11.2 | 11.2 | 11.3 | 11.2 | 11.3 | 11.2 | 11.3 | 11.1 | 11.1 | 11.0 | 11.1 | 10.9 | 11.3 | 11.2 | 11.1 | 11.2 | 11.1 | 11.2 | 11.2 |
| 140 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.7 | 12.7 | 12.6 | 12.6 | 12.5 | 12.8 | 12.8 | 12.7 | 12.7 | 12.6 | 12.7 | 12.6 |
| 145 | 14.2 | 14.2 | 14.2 | 14.1 | 14.2 | 14.1 | 14.2 | 14.1 | 14.1 | 14.0 | 14.0 | 14.0 | 14.2 | 14.2 | 14.1 | 14.1 | 14.0 | 14.1 | 14.0 |
| 150 | 15.3 | 15.3 | 15.3 | 15.2 | 15.3 | 15.3 | 15.3 | 15.2 | 15.2 | 15.2 | 15.2 | 15.1 | 15.3 | 15.3 | 15.3 | 15.3 | 15.2 | 15.3 | 15.3 |
| 155 | 15.9 | 15.9 | 15.9 | 15.9 | 16.0 | 15.9 | 16.0 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.1 | 16.1 |
| 160 | 16.2 | 16.2 | 16.2 | 16.2 | 16.3 | 16.2 | 16.3 | 16.2 | 16.2 | 16.2 | 16.3 | 16.3 | 16.3 | 16.3 | 16.4 | 16.4 | 16.4 | 16.4 | 16.4 |
| 165 | 16.3 | 16.3 | 16.3 | 16.3 | 16.3 | 16.2 | 16.3 | 16.3 | 16.4 | 16.4 | 16.5 | 16.5 | 16.6 | 16.5 | 16.6 | 16.5 | 16.5 | 16.5 | 16.5 |
| 170 | 16.3 | 16.3 | 16.3 | 16.2 | 16.2 | 16.2 | 16.3 | 16.4 | 16.5 | 16.5 | 16.5 | 16.5 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 |
| 175 | 16.4 | 16.4 | 16.4 | 16.4 | 16.5 | 16.5 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 |
| 180 | 16.7 | 16.7 | 16.7 | 16.7 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.7 | 16.7 | 16.7 | 16.7 | 16.8 | 16.8 | 16.8 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-08-01

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:0.0900A P:19.50W PF:0.9540 Lamp Flux:2049.74x1 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 | 4077 | 4077 | 4077 | 4077 | 4077 | | | | | | | | | | | | | | |
| 5 | 3639 | 3630 | 3561 | 3552 | 3495 | | | | | | | | | | | | | | |
| 10 | 3150 | 3064 | 2945 | 2876 | 2789 | | | | | | | | | | | | | | |
| 15 | 2915 | 2702 | 2495 | 2389 | 2270 | | | | | | | | | | | | | | |
| 20 | 2172 | 2092 | 1960 | 1897 | 1799 | | | | | | | | | | | | | | |
| 25 | 1444 | 1477 | 1443 | 1442 | 1381 | | | | | | | | | | | | | | |
| 30 | 994 | 1035 | 999 | 1028 | 967 | | | | | | | | | | | | | | |
| 35 | 229 | 254 | 248 | 259 | 244 | | | | | | | | | | | | | | |
| 40 | 85.9 | 96.2 | 103 | 111 | 114 | | | | | | | | | | | | | | |
| 45 | 47.4 | 51.3 | 53.7 | 58.5 | 60.7 | | | | | | | | | | | | | | |
| 50 | 29.7 | 31.1 | 31.7 | 33.6 | 34.6 | | | | | | | | | | | | | | |
| 55 | 21.4 | 21.9 | 21.9 | 22.5 | 22.6 | | | | | | | | | | | | | | |
| 60 | 16.4 | 16.6 | 16.4 | 16.7 | 16.5 | | | | | | | | | | | | | | |
| 65 | 13.0 | 13.1 | 13.1 | 13.2 | 13.0 | | | | | | | | | | | | | | |
| 70 | 10.5 | 10.6 | 10.6 | 10.7 | 10.5 | | | | | | | | | | | | | | |
| 75 | 8.64 | 8.70 | 8.61 | 8.66 | 8.50 | | | | | | | | | | | | | | |
| 80 | 7.00 | 7.04 | 6.98 | 6.97 | 6.88 | | | | | | | | | | | | | | |
| 85 | 5.76 | 5.81 | 5.78 | 5.75 | 5.67 | | | | | | | | | | | | | | |
| 90 | 4.55 | 4.57 | 4.60 | 4.56 | 4.55 | | | | | | | | | | | | | | |
| 95 | 4.68 | 4.68 | 4.72 | 4.68 | 4.68 | | | | | | | | | | | | | | |
| 100 | 4.84 | 4.84 | 4.88 | 4.83 | 4.85 | | | | | | | | | | | | | | |
| 105 | 5.14 | 5.13 | 5.21 | 5.14 | 5.18 | | | | | | | | | | | | | | |
| 110 | 5.64 | 5.63 | 5.67 | 5.67 | 5.69 | | | | | | | | | | | | | | |
| 115 | 6.35 | 6.33 | 6.39 | 6.38 | 6.42 | | | | | | | | | | | | | | |
| 120 | 7.28 | 7.26 | 7.32 | 7.32 | 7.38 | | | | | | | | | | | | | | |
| 125 | 8.44 | 8.42 | 8.49 | 8.48 | 8.56 | | | | | | | | | | | | | | |
| 130 | 9.79 | 9.79 | 9.88 | 9.85 | 9.97 | | | | | | | | | | | | | | |
| 135 | 11.3 | 11.3 | 11.4 | 11.4 | 11.5 | | | | | | | | | | | | | | |
| 140 | 12.8 | 12.8 | 12.9 | 12.9 | 13.0 | | | | | | | | | | | | | | |
| 145 | 14.1 | 14.2 | 14.3 | 14.3 | 14.4 | | | | | | | | | | | | | | |
| 150 | 15.3 | 15.4 | 15.4 | 15.4 | 15.5 | | | | | | | | | | | | | | |
| 155 | 16.1 | 16.1 | 16.1 | 16.1 | 16.1 | | | | | | | | | | | | | | |
| 160 | 16.4 | 16.4 | 16.4 | 16.4 | 16.4 | | | | | | | | | | | | | | |
| 165 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | | | | | | | | | | | | | | |
| 170 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | | | | | | | | | | | | | | |
| 175 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | | | | | | | | | | | | | | |
| 180 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-08-01

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: