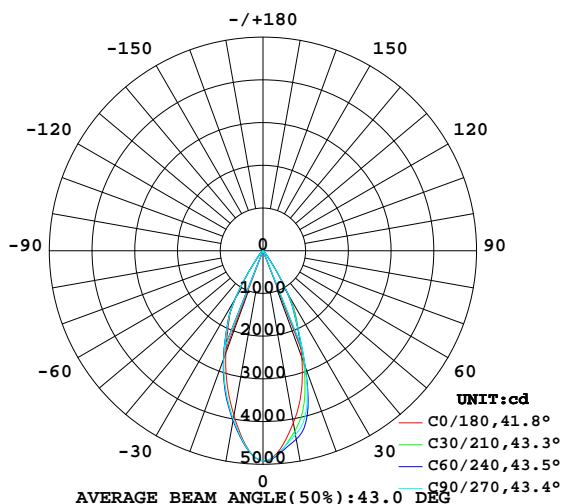


LUMINAIRE PHOTOMETRIC TEST REPORT

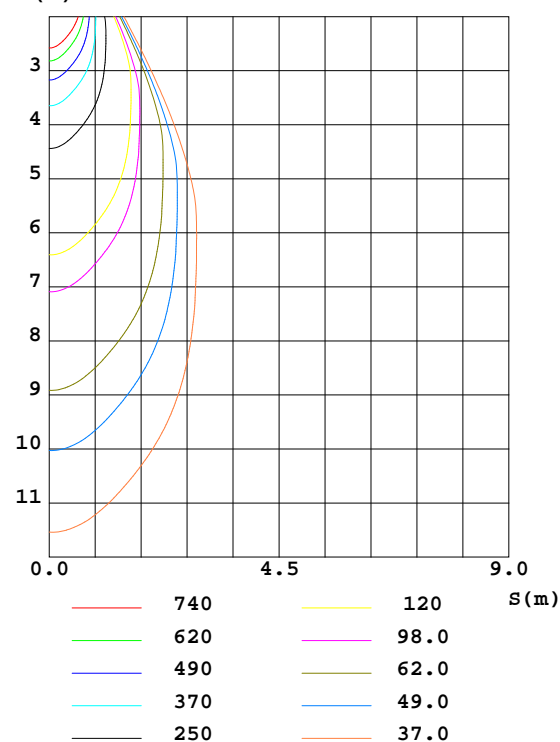
| | | |
|---|--------|-------------------|
| Test:U:226.5V I:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 102.35 lm/W | | | |
|------------------|-------------------|-----------------------------------|--------|-------------------|----------|
| MODEL | TL24-30W-830-W-45 | Imax(cd) | 4922 | S/MH(C0/180) | 0.68 |
| NOMINAL POWER(W) | 28 | LOR(%) | 100.0 | S/MH(C90/270) | 0.70 |
| RATED VOLTAGE(V) | 226 | TOTAL FLUX(lm) | 2804.3 | η UP,DN(C0-180) | 1.3,48.9 |
| NOMINAL FLUX(lm) | 2804.32 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 1.4,48.5 |
| LAMPS INSIDE | 1 | η up(%) | 2.6 | CIBSE SHR NOM | 0.75 |
| TEST VOLTAGE(V) | 226.5 | 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:2016-09-07

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 | 4096 | 4420 | 4378 | 4015 | 3919 | 4009 | 4008 | 3988 | 0- 10 | 424.9 | 424.9 | 15.2,15.2 |
| 20 | 2655 | 2903 | 2886 | 2669 | 2548 | 2680 | 2685 | 2670 | 10- 20 | 963.2 | 1388 | 49.5,49.5 |
| 30 | 1211 | 1197 | 1149 | 1317 | 1315 | 1295 | 1315 | 1263 | 20- 30 | 891.9 | 2280 | 81.3,81.3 |
| 40 | 150.1 | 142.6 | 133.2 | 171.9 | 198.1 | 168.8 | 174.6 | 164.9 | 30- 40 | 324.6 | 2605 | 92.9,92.9 |
| 50 | 39.98 | 38.76 | 37.86 | 44.91 | 51.55 | 43.26 | 44.16 | 42.20 | 40- 50 | 66.89 | 2671 | 95.3,95.3 |
| 60 | 19.69 | 19.75 | 19.41 | 20.31 | 20.67 | 19.81 | 20.09 | 19.80 | 50- 60 | 25.71 | 2697 | 96.2,96.2 |
| 70 | 12.13 | 12.08 | 11.88 | 12.24 | 12.18 | 12.05 | 12.17 | 12.08 | 60- 70 | 15.40 | 2713 | 96.7,96.7 |
| 80 | 7.981 | 7.866 | 7.856 | 7.842 | 8.217 | 8.116 | 8.210 | 8.159 | 70- 80 | 10.43 | 2723 | 97.1,97.1 |
| 90 | 5.844 | 5.312 | 5.313 | 5.358 | 6.586 | 6.228 | 6.258 | 6.251 | 80- 90 | 7.502 | 2730 | 97.4,97.4 |
| 100 | 5.422 | 5.270 | 5.271 | 5.191 | 6.815 | 6.635 | 6.665 | 6.707 | 90-100 | 6.414 | 2737 | 97.6,97.6 |
| 110 | 6.388 | 6.308 | 6.335 | 6.305 | 7.731 | 7.729 | 7.732 | 7.847 | 100-110 | 6.770 | 2744 | 97.8,97.8 |
| 120 | 8.952 | 8.910 | 8.960 | 8.872 | 9.997 | 10.10 | 10.10 | 10.13 | 110-120 | 8.081 | 2752 | 98.1,98.1 |
| 130 | 12.83 | 12.81 | 12.88 | 12.76 | 13.58 | 13.68 | 13.66 | 13.68 | 120-130 | 10.09 | 2762 | 98.5,98.5 |
| 140 | 17.21 | 17.18 | 17.20 | 17.21 | 17.62 | 17.65 | 17.63 | 17.76 | 130-140 | 11.84 | 2774 | 98.9,98.9 |
| 150 | 20.69 | 20.86 | 20.82 | 20.71 | 20.97 | 20.95 | 20.98 | 21.09 | 140-150 | 12.09 | 2786 | 99.3,99.3 |
| 160 | 22.14 | 22.17 | 22.24 | 22.18 | 22.29 | 22.38 | 22.46 | 22.46 | 150-160 | 10.05 | 2796 | 99.7,99.7 |
| 170 | 22.49 | 22.48 | 22.52 | 22.51 | 22.62 | 22.58 | 22.50 | 22.65 | 160-170 | 6.364 | 2802 | 99.9,99.9 |
| 180 | 23.03 | 23.05 | 23.05 | 22.97 | 23.04 | 23.05 | 23.05 | 22.97 | 170-180 | 2.164 | 2804 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

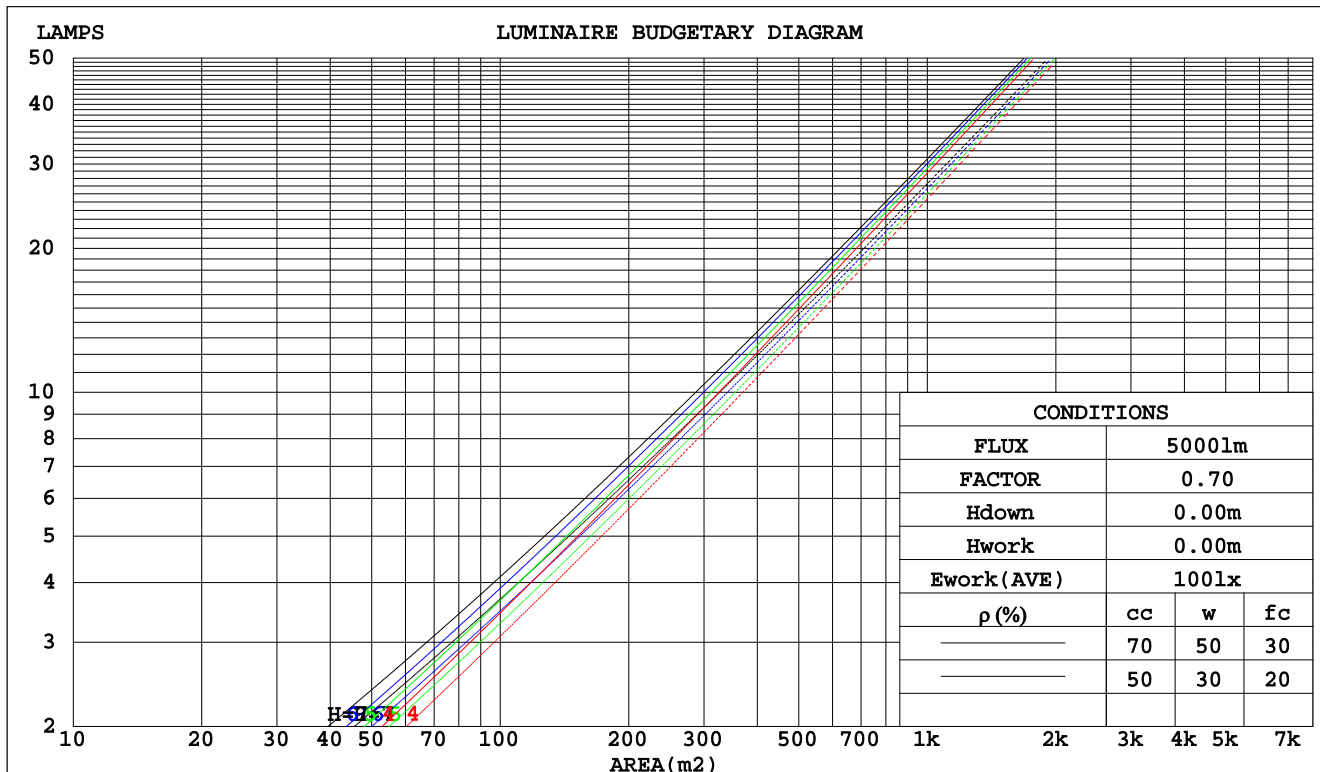
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-09-07

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:226.5V I:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 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 | 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 | 1.01 | .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 | .86 | .83 | .90 | .86 | .82 | .88 | .84 | .81 | .86 | .82 | .80 | .83 | .81 | .78 | .77 |
| 5.0 | .87 | .81 | .77 | .85 | .80 | .77 | .83 | .79 | .76 | .82 | .78 | .75 | .80 | .77 | .74 | .73 |
| 6.0 | .82 | .76 | .73 | .81 | .76 | .72 | .79 | .75 | .72 | .78 | .74 | .71 | .76 | .73 | .70 | .69 |
| 7.0 | .78 | .72 | .68 | .77 | .72 | .68 | .76 | .71 | .68 | .74 | .70 | .67 | .73 | .69 | .67 | .65 |
| 8.0 | .74 | .69 | .65 | .73 | .68 | .65 | .72 | .67 | .64 | .71 | .67 | .64 | .70 | .66 | .63 | .62 |
| 9.0 | .70 | .65 | .61 | .70 | .65 | .61 | .69 | .64 | .61 | .68 | .64 | .61 | .67 | .63 | .60 | .59 |
| 10.0 | .67 | .62 | .58 | .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:2016-09-07

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:226.5V I:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 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 | .155 | .085 | .026 | .143 | .079 | .025 | .132 | .074 | .023 | .122 | .069 | .022 | | |
| 3.0 | .152 | .081 | .024 | .146 | .078 | .024 | .136 | .074 | .022 | .127 | .069 | .021 | .118 | .065 | .020 | | |
| 4.0 | .144 | .075 | .022 | .139 | .073 | .021 | .130 | .069 | .021 | .122 | .065 | .020 | .114 | .062 | .019 | | |
| 5.0 | .136 | .069 | .020 | .132 | .068 | .020 | .124 | .065 | .019 | .117 | .062 | .018 | .110 | .059 | .018 | | |
| 6.0 | .130 | .065 | .019 | .126 | .064 | .018 | .119 | .061 | .018 | .113 | .059 | .017 | .107 | .056 | .017 | | |
| 7.0 | .124 | .061 | .017 | .120 | .060 | .017 | .114 | .058 | .017 | .108 | .056 | .016 | .103 | .054 | .016 | | |
| 8.0 | .118 | .058 | .016 | .115 | .057 | .016 | .110 | .055 | .016 | .105 | .053 | .015 | .100 | .051 | .015 | | |
| 9.0 | .113 | .055 | .015 | .110 | .054 | .015 | .106 | .052 | .015 | .101 | .051 | .014 | .096 | .049 | .014 | | |
| 10.0 | .108 | .052 | .014 | .106 | .051 | .014 | .102 | .050 | .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 | .211 | .211 | .211 | .180 | .180 | .180 | .123 | .123 | .123 | .071 | .071 | .071 | .023 | .023 | .023 | | |
| 1.0 | .191 | .178 | .166 | .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 | .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 | .101 | .068 | .046 | .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:2016-09-07

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:226.5V I:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 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 | | 16.8 | 17.7 | 17.1 | 17.9 | 18.1 | 16.4 | 17.3 | 16.7 | 17.5 | 17.7 |
| | 3H | 16.9 | 17.6 | 17.1 | 17.9 | 18.1 | 16.5 | 17.2 | 16.7 | 17.5 | 17.7 |
| | 4H | 16.9 | 17.6 | 17.2 | 17.9 | 18.2 | 16.5 | 17.2 | 16.8 | 17.5 | 17.8 |
| | 6H | 17.0 | 17.7 | 17.3 | 17.9 | 18.2 | 16.6 | 17.3 | 16.9 | 17.6 | 17.9 |
| | 8H | 17.0 | 17.7 | 17.4 | 18.0 | 18.3 | 16.7 | 17.3 | 17.0 | 17.6 | 17.9 |
| | 12H | 17.1 | 17.8 | 17.5 | 18.1 | 18.4 | 16.8 | 17.4 | 17.1 | 17.7 | 18.1 |
| 4H | 2H | 16.7 | 17.4 | 17.0 | 17.7 | 17.9 | 16.3 | 17.0 | 16.6 | 17.3 | 17.5 |
| | 3H | 16.7 | 17.4 | 17.1 | 17.7 | 18.0 | 16.4 | 17.0 | 16.7 | 17.3 | 17.6 |
| | 4H | 16.8 | 17.4 | 17.2 | 17.8 | 18.1 | 16.5 | 17.1 | 16.9 | 17.4 | 17.8 |
| | 6H | 17.0 | 17.5 | 17.4 | 17.9 | 18.3 | 16.7 | 17.2 | 17.1 | 17.6 | 18.0 |
| | 8H | 17.2 | 17.6 | 17.6 | 18.0 | 18.4 | 16.8 | 17.3 | 17.3 | 17.7 | 18.1 |
| | 12H | 17.4 | 17.8 | 17.8 | 18.2 | 18.7 | 17.0 | 17.5 | 17.5 | 17.9 | 18.3 |
| 8H | 4H | 16.8 | 17.3 | 17.2 | 17.7 | 18.1 | 16.4 | 16.9 | 16.9 | 17.3 | 17.7 |
| | 6H | 17.1 | 17.5 | 17.5 | 17.9 | 18.4 | 16.8 | 17.1 | 17.2 | 17.6 | 18.1 |
| | 8H | 17.3 | 17.7 | 17.8 | 18.1 | 18.6 | 17.0 | 17.4 | 17.5 | 17.8 | 18.3 |
| | 12H | 17.7 | 18.0 | 18.2 | 18.5 | 19.0 | 17.4 | 17.7 | 17.9 | 18.2 | 18.7 |
| 12H | 4H | 16.8 | 17.2 | 17.2 | 17.6 | 18.1 | 16.4 | 16.9 | 16.9 | 17.3 | 17.7 |
| | 6H | 17.1 | 17.4 | 17.6 | 17.9 | 18.4 | 16.8 | 17.1 | 17.3 | 17.6 | 18.1 |
| | 8H | 17.4 | 17.7 | 17.9 | 18.2 | 18.7 | 17.1 | 17.4 | 17.6 | 17.9 | 18.4 |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | + 1.7 / - 1.6 | | | | | + 1.5 / - 1.4 | | | | | |
| 1.5H | + 3.3 / - 1.4 | | | | | + 3.0 / - 1.2 | | | | | |
| 2.0H | + 1.6 / - 0.5 | | | | | + 1.3 / - 0.5 | | | | | |

CIE Pub.117 Corrected 2804 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.6)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-09-07

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:226.5V I:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

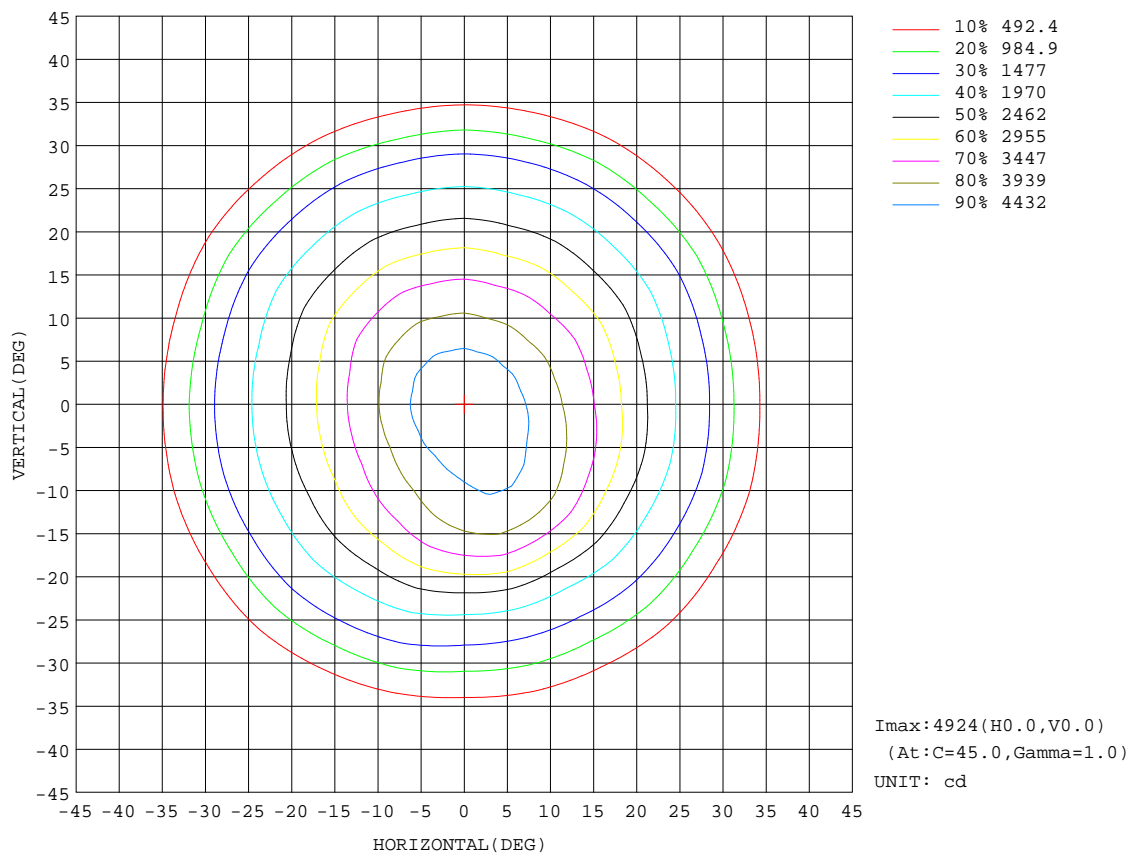
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 98 | 92 |
| 2.50 | 109 | 106 | 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 | 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:2016-09-07

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:226.5V I:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |



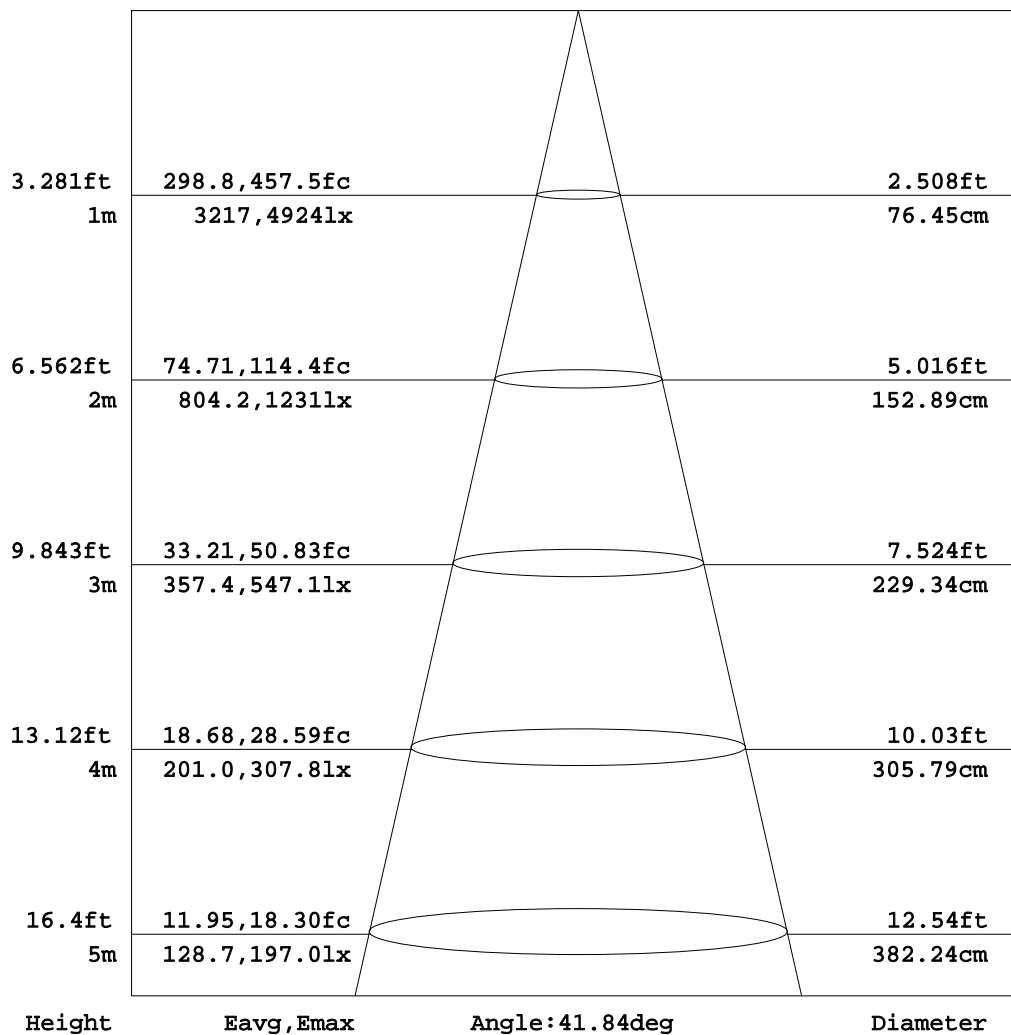
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-09-07

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:226.5V I:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

Flux out:1489 lm



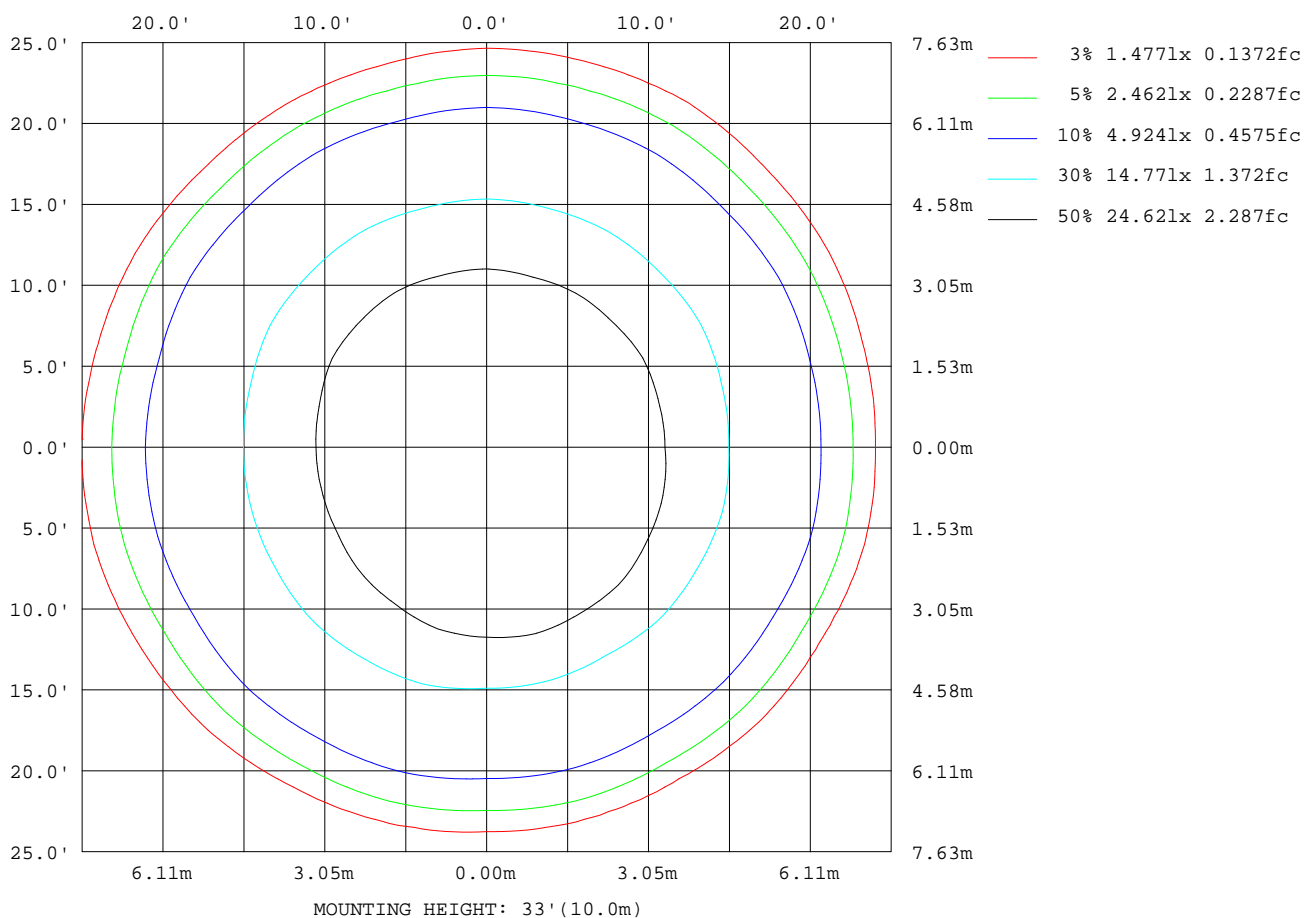
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-09-07

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

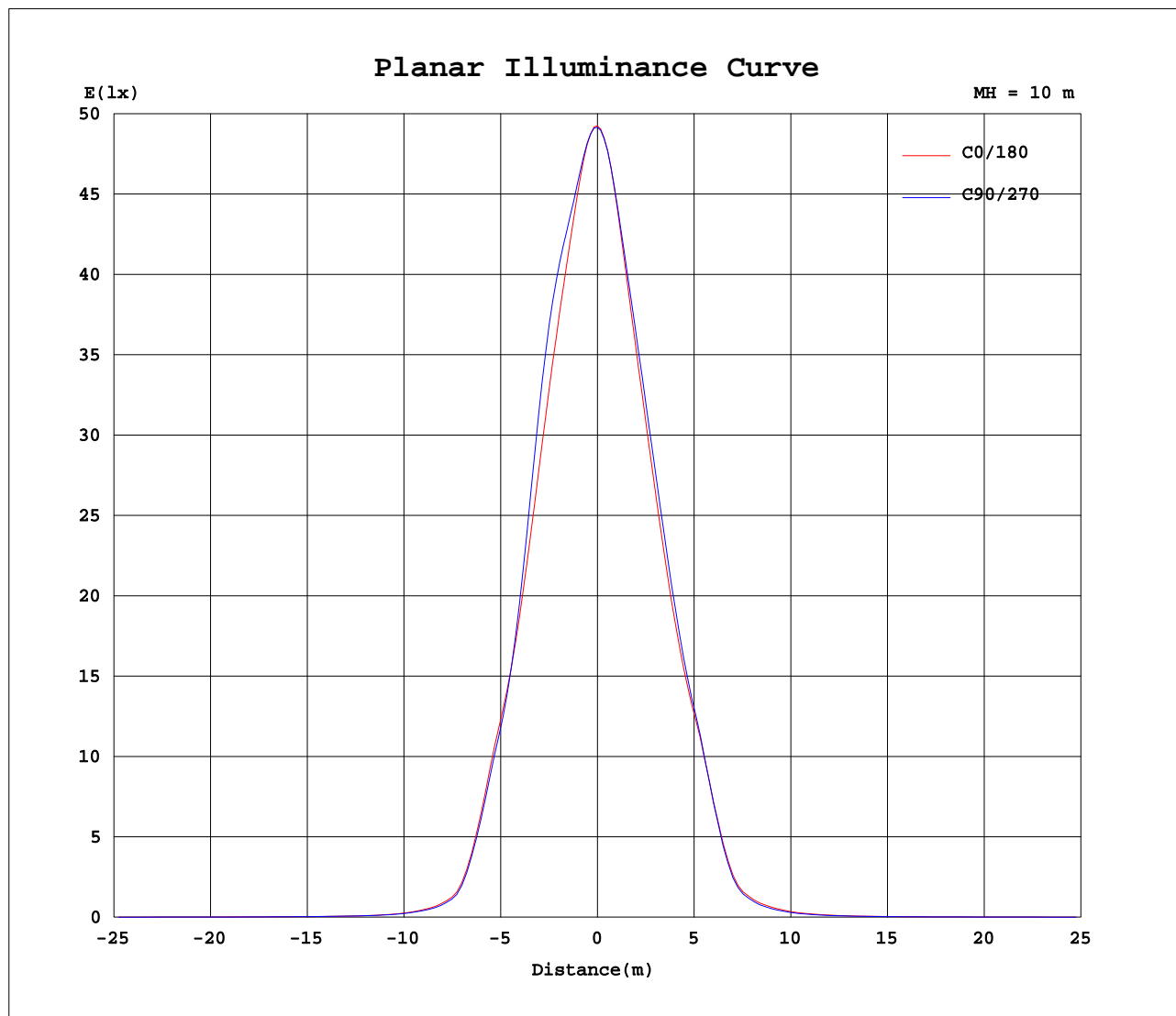
| | | |
|---|--------|-------------------|
| Test:U:226.5V I:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-09-07

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: 2016-09-07

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:226.5V I:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 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 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 |
| 5 | 4655 | 4700 | 4717 | 4750 | 4747 | 4743 | 4704 | 4676 | 4626 | 4608 | 4576 | 4584 | 4581 | 4570 | 4604 | 4594 | 4612 | 4589 | 4601 |
| 10 | 4096 | 4188 | 4292 | 4420 | 4483 | 4475 | 4378 | 4249 | 4108 | 4015 | 3935 | 3916 | 3919 | 3930 | 4007 | 4009 | 4038 | 4003 | 4008 |
| 15 | 3451 | 3577 | 3710 | 3913 | 3999 | 4034 | 3900 | 3740 | 3526 | 3403 | 3278 | 3247 | 3244 | 3283 | 3381 | 3395 | 3420 | 3377 | 3384 |
| 20 | 2655 | 2741 | 2783 | 2903 | 2893 | 2967 | 2886 | 2855 | 2717 | 2669 | 2574 | 2553 | 2548 | 2580 | 2686 | 2680 | 2713 | 2667 | 2685 |
| 25 | 1901 | 1936 | 1909 | 1921 | 1846 | 1872 | 1866 | 1950 | 1941 | 1963 | 1928 | 1929 | 1926 | 1934 | 2004 | 1992 | 2013 | 1981 | 1999 |
| 30 | 1211 | 1248 | 1188 | 1197 | 1137 | 1166 | 1149 | 1248 | 1255 | 1317 | 1275 | 1318 | 1315 | 1283 | 1337 | 1295 | 1319 | 1277 | 1315 |
| 35 | 394 | 412 | 378 | 391 | 361 | 379 | 364 | 402 | 409 | 454 | 447 | 484 | 479 | 463 | 481 | 443 | 447 | 429 | 450 |
| 40 | 150 | 153 | 140 | 143 | 131 | 137 | 133 | 149 | 154 | 172 | 182 | 197 | 198 | 189 | 181 | 169 | 168 | 168 | 175 |
| 45 | 73.9 | 72.6 | 70.1 | 68.3 | 66.1 | 66.0 | 67.1 | 71.2 | 75.5 | 84.4 | 90.5 | 99.4 | 100 | 93.8 | 89.3 | 81.8 | 82.2 | 80.8 | 84.6 |
| 50 | 40.0 | 40.1 | 39.0 | 38.8 | 37.7 | 38.0 | 37.9 | 39.6 | 41.3 | 44.9 | 47.8 | 51.6 | 51.6 | 48.4 | 46.2 | 43.3 | 43.0 | 42.7 | 44.2 |
| 55 | 26.7 | 27.0 | 26.7 | 26.8 | 26.4 | 26.4 | 26.2 | 26.7 | 27.1 | 28.3 | 29.4 | 30.7 | 30.4 | 29.1 | 28.5 | 27.5 | 27.5 | 27.4 | 27.9 |
| 60 | 19.7 | 20.0 | 19.7 | 19.8 | 19.5 | 19.6 | 19.4 | 19.7 | 19.7 | 20.3 | 20.6 | 21.2 | 20.7 | 20.3 | 20.3 | 19.8 | 19.9 | 19.8 | 20.1 |
| 65 | 15.3 | 15.5 | 15.3 | 15.2 | 15.0 | 15.1 | 15.0 | 15.2 | 15.3 | 15.7 | 15.7 | 16.0 | 15.5 | 15.4 | 15.5 | 15.3 | 15.3 | 15.2 | 15.4 |
| 70 | 12.1 | 12.3 | 12.1 | 12.1 | 12.0 | 12.0 | 11.9 | 12.0 | 12.0 | 12.2 | 12.3 | 12.5 | 12.2 | 12.1 | 12.2 | 12.1 | 12.1 | 12.1 | 12.2 |
| 75 | 9.68 | 9.84 | 9.67 | 9.70 | 9.62 | 9.67 | 9.59 | 9.71 | 9.66 | 9.81 | 9.81 | 9.94 | 9.94 | 9.86 | 9.88 | 9.85 | 9.91 | 9.86 | 9.93 |
| 80 | 7.98 | 8.01 | 7.90 | 7.87 | 7.84 | 7.88 | 7.86 | 7.86 | 7.82 | 7.84 | 7.83 | 7.88 | 8.22 | 8.12 | 8.13 | 8.12 | 8.20 | 8.21 | 8.21 |
| 85 | 6.88 | 6.70 | 6.56 | 6.56 | 6.53 | 6.51 | 6.49 | 6.54 | 6.50 | 6.54 | 6.43 | 6.44 | 7.28 | 7.08 | 7.07 | 7.07 | 7.13 | 7.10 | 7.12 |
| 90 | 5.84 | 5.53 | 5.36 | 5.31 | 5.39 | 5.29 | 5.31 | 5.37 | 5.38 | 5.36 | 5.25 | 5.19 | 6.59 | 6.29 | 6.22 | 6.23 | 6.32 | 6.25 | 6.26 |
| 95 | 5.60 | 5.41 | 5.25 | 5.23 | 5.28 | 5.23 | 5.25 | 5.22 | 5.26 | 5.16 | 5.15 | 5.11 | 6.77 | 6.54 | 6.42 | 6.41 | 6.45 | 6.43 | 6.44 |
| 100 | 5.42 | 5.32 | 5.29 | 5.27 | 5.29 | 5.28 | 5.27 | 5.26 | 5.30 | 5.19 | 5.16 | 5.15 | 6.81 | 6.68 | 6.63 | 6.64 | 6.65 | 6.66 | 6.67 |
| 105 | 5.66 | 5.61 | 5.62 | 5.61 | 5.63 | 5.61 | 5.62 | 5.60 | 5.67 | 5.55 | 5.55 | 5.53 | 7.11 | 7.07 | 7.03 | 7.05 | 7.04 | 7.07 | 7.06 |
| 110 | 6.39 | 6.33 | 6.35 | 6.31 | 6.35 | 6.31 | 6.34 | 6.30 | 6.35 | 6.30 | 6.33 | 6.27 | 7.73 | 7.74 | 7.70 | 7.73 | 7.69 | 7.74 | 7.73 |
| 115 | 7.50 | 7.43 | 7.48 | 7.41 | 7.47 | 7.41 | 7.45 | 7.40 | 7.46 | 7.41 | 7.46 | 7.37 | 8.69 | 8.72 | 8.67 | 8.72 | 8.69 | 8.75 | 8.73 |
| 120 | 8.95 | 8.89 | 8.97 | 8.91 | 8.99 | 8.91 | 8.96 | 8.88 | 8.94 | 8.87 | 8.92 | 8.82 | 10.00 | 10.1 | 10.0 | 10.1 | 10.1 | 10.2 | 10.1 |
| 125 | 10.7 | 10.7 | 10.8 | 10.7 | 10.8 | 10.7 | 10.8 | 10.7 | 10.8 | 10.7 | 10.7 | 10.6 | 11.6 | 11.7 | 11.7 | 11.8 | 11.8 | 11.8 | 11.8 |
| 130 | 12.8 | 12.8 | 12.9 | 12.8 | 12.9 | 12.8 | 12.9 | 12.8 | 12.9 | 12.8 | 12.8 | 12.8 | 13.6 | 13.6 | 13.6 | 13.7 | 13.7 | 13.7 | 13.7 |
| 135 | 15.1 | 15.0 | 15.1 | 15.0 | 15.0 | 15.0 | 15.1 | 15.1 | 15.1 | 15.0 | 15.1 | 15.1 | 15.6 | 15.7 | 15.6 | 15.7 | 15.6 | 15.7 | 15.7 |
| 140 | 17.2 | 17.2 | 17.3 | 17.2 | 17.2 | 17.1 | 17.2 | 17.2 | 17.3 | 17.2 | 17.3 | 17.2 | 17.6 | 17.7 | 17.6 | 17.6 | 17.6 | 17.7 | 17.6 |
| 145 | 19.1 | 19.1 | 19.6 | 19.4 | 19.2 | 19.1 | 19.2 | 19.7 | 19.3 | 19.1 | 19.2 | 19.2 | 19.6 | 19.5 | 19.4 | 19.4 | 19.5 | 19.6 | 19.5 |
| 150 | 20.7 | 20.7 | 20.9 | 20.9 | 20.8 | 20.7 | 20.8 | 20.9 | 20.8 | 20.7 | 20.7 | 20.7 | 21.0 | 20.9 | 20.9 | 20.9 | 21.0 | 21.0 | 21.0 |
| 155 | 21.7 | 21.7 | 21.7 | 21.7 | 21.8 | 21.8 | 21.8 | 21.8 | 21.7 | 21.7 | 21.7 | 21.7 | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 | 22.0 | 22.0 |
| 160 | 22.1 | 22.1 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.3 | 22.3 | 22.3 | 22.4 | 22.4 | 22.4 | 22.5 |
| 165 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 |
| 170 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.4 | 22.6 | 22.6 | 22.6 | 22.6 | 22.5 | 22.5 | 22.5 |
| 175 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.6 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.7 |
| 180 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.1 | 23.1 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.1 | 23.0 | 23.1 | 23.1 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-09-07

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:226.5V I:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 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 | 4918 | 4918 | 4918 | 4918 | 4918 | | | | | | | | | | | | | | |
| 5 | 4578 | 4595 | 4585 | 4621 | 4622 | | | | | | | | | | | | | | |
| 10 | 3974 | 4000 | 3988 | 4036 | 4044 | | | | | | | | | | | | | | |
| 15 | 3346 | 3377 | 3374 | 3429 | 3416 | | | | | | | | | | | | | | |
| 20 | 2648 | 2686 | 2670 | 2713 | 2657 | | | | | | | | | | | | | | |
| 25 | 1974 | 1989 | 1967 | 1981 | 1922 | | | | | | | | | | | | | | |
| 30 | 1289 | 1301 | 1263 | 1288 | 1227 | | | | | | | | | | | | | | |
| 35 | 439 | 446 | 415 | 419 | 396 | | | | | | | | | | | | | | |
| 40 | 173 | 176 | 165 | 161 | 153 | | | | | | | | | | | | | | |
| 45 | 83.1 | 84.6 | 79.2 | 78.1 | 73.9 | | | | | | | | | | | | | | |
| 50 | 43.7 | 44.0 | 42.2 | 41.8 | 40.3 | | | | | | | | | | | | | | |
| 55 | 27.7 | 27.9 | 27.3 | 27.2 | 26.6 | | | | | | | | | | | | | | |
| 60 | 19.9 | 20.1 | 19.8 | 19.9 | 19.5 | | | | | | | | | | | | | | |
| 65 | 15.3 | 15.3 | 15.3 | 15.3 | 15.1 | | | | | | | | | | | | | | |
| 70 | 12.1 | 12.1 | 12.1 | 12.1 | 12.0 | | | | | | | | | | | | | | |
| 75 | 9.86 | 9.85 | 9.79 | 9.86 | 9.77 | | | | | | | | | | | | | | |
| 80 | 8.19 | 8.16 | 8.16 | 8.17 | 8.22 | | | | | | | | | | | | | | |
| 85 | 7.12 | 7.12 | 7.12 | 7.14 | 7.16 | | | | | | | | | | | | | | |
| 90 | 6.24 | 6.24 | 6.25 | 6.26 | 6.28 | | | | | | | | | | | | | | |
| 95 | 6.45 | 6.45 | 6.46 | 6.47 | 6.49 | | | | | | | | | | | | | | |
| 100 | 6.67 | 6.69 | 6.71 | 6.71 | 6.74 | | | | | | | | | | | | | | |
| 105 | 7.10 | 7.11 | 7.15 | 7.15 | 7.17 | | | | | | | | | | | | | | |
| 110 | 7.80 | 7.79 | 7.85 | 7.83 | 7.88 | | | | | | | | | | | | | | |
| 115 | 8.81 | 8.77 | 8.83 | 8.79 | 8.86 | | | | | | | | | | | | | | |
| 120 | 10.2 | 10.1 | 10.1 | 10.1 | 10.2 | | | | | | | | | | | | | | |
| 125 | 11.8 | 11.7 | 11.8 | 11.7 | 11.7 | | | | | | | | | | | | | | |
| 130 | 13.7 | 13.6 | 13.7 | 13.6 | 13.6 | | | | | | | | | | | | | | |
| 135 | 15.7 | 15.7 | 15.8 | 15.7 | 15.7 | | | | | | | | | | | | | | |
| 140 | 17.7 | 17.7 | 17.8 | 17.7 | 17.7 | | | | | | | | | | | | | | |
| 145 | 19.5 | 19.5 | 19.7 | 19.7 | 19.6 | | | | | | | | | | | | | | |
| 150 | 21.0 | 21.0 | 21.1 | 21.1 | 21.1 | | | | | | | | | | | | | | |
| 155 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | | | | | | | | | | | | | | |
| 160 | 22.4 | 22.4 | 22.5 | 22.4 | 22.4 | | | | | | | | | | | | | | |
| 165 | 22.6 | 22.6 | 22.6 | 22.7 | 22.7 | | | | | | | | | | | | | | |
| 170 | 22.5 | 22.6 | 22.6 | 22.7 | 22.7 | | | | | | | | | | | | | | |
| 175 | 22.7 | 22.7 | 22.7 | 22.8 | 22.8 | | | | | | | | | | | | | | |
| 180 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-09-07

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: