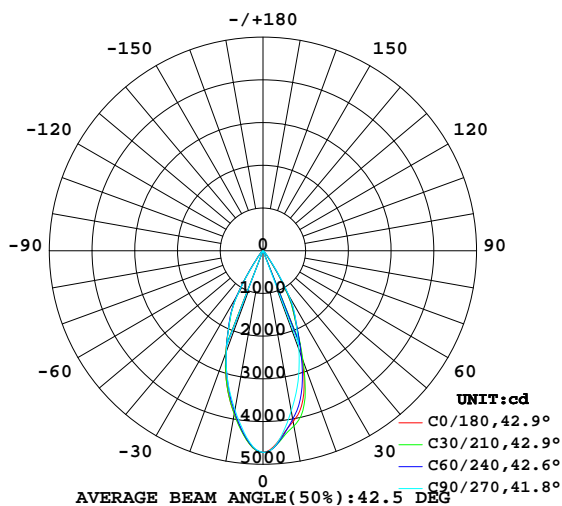


LUMINAIRE PHOTOMETRIC TEST REPORT

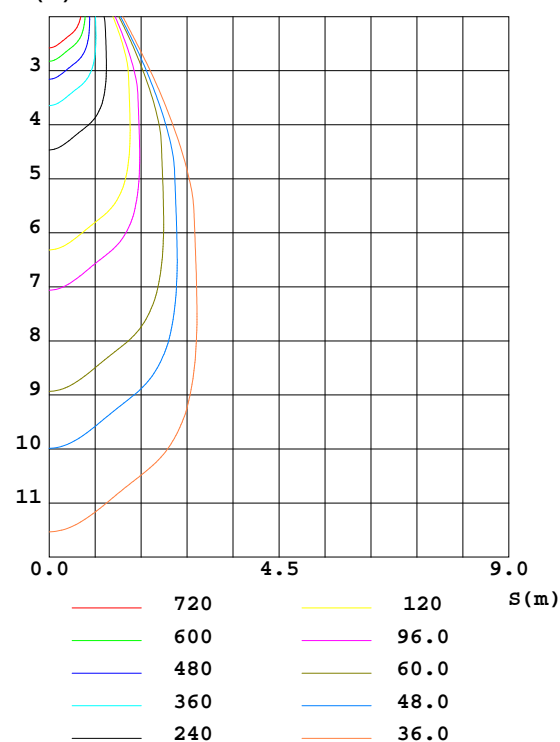
| | | |
|---|--------|-------------------|
| Test:U:226.4V I:0.1270A P:27.70W PF:0.9600 Lamp Flux:2650.68x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 95.69 lm/W | | | |
|------------------|-------------------|----------------------------------|--------|-------------------|----------|
| MODEL | TL24-30W-827-W-45 | Imax(cd) | 4722 | S/MH(C0/180) | 0.70 |
| NOMINAL POWER(W) | 28 | LOR(%) | 100.0 | S/MH(C90/270) | 0.65 |
| RATED VOLTAGE(V) | 226 | TOTAL FLUX(lm) | 2650.7 | η UP,DN(C0-180) | 1.3,49.1 |
| NOMINAL FLUX(lm) | 2650.68 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 1.4,48.2 |
| LAMPS INSIDE | 1 | η up(%) | 2.6 | CIBSE SHR NOM | 0.75 |
| TEST VOLTAGE(V) | 226.4 | 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:2016-08-16

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 | 4058 | 4118 | 3811 | 3768 | 3875 | 3839 | 3783 | 3766 | 0- 10 | 404.1 | 404.1 | 15.2,15.2 |
| 20 | 2687 | 2746 | 2456 | 2425 | 2553 | 2497 | 2511 | 2460 | 10- 20 | 905.6 | 1310 | 49.4,49.4 |
| 30 | 1111 | 1170 | 1224 | 1261 | 1252 | 1209 | 1204 | 1148 | 20- 30 | 840.3 | 2150 | 81.1,81.1 |
| 40 | 128.1 | 141.0 | 168.1 | 180.3 | 156.4 | 158.0 | 154.5 | 142.1 | 30- 40 | 306.9 | 2457 | 92.7,92.7 |
| 50 | 37.60 | 39.06 | 45.86 | 49.60 | 41.80 | 42.03 | 41.51 | 39.38 | 40- 50 | 63.91 | 2521 | 95.1,95.1 |
| 60 | 19.84 | 20.28 | 21.02 | 21.52 | 20.23 | 20.18 | 20.14 | 19.72 | 50- 60 | 25.68 | 2546 | 96.1,96.1 |
| 70 | 12.48 | 12.67 | 12.86 | 13.01 | 12.66 | 12.69 | 12.66 | 12.59 | 60- 70 | 15.95 | 2562 | 96.7,96.7 |
| 80 | 7.962 | 8.027 | 8.070 | 8.188 | 8.414 | 8.407 | 8.358 | 8.356 | 70- 80 | 10.85 | 2573 | 97.1,97.1 |
| 90 | 5.126 | 5.018 | 5.009 | 4.881 | 6.015 | 5.927 | 5.911 | 6.009 | 80- 90 | 7.451 | 2581 | 97.4,97.4 |
| 100 | 5.016 | 4.998 | 4.899 | 4.865 | 6.320 | 6.325 | 6.354 | 6.389 | 90-100 | 6.082 | 2587 | 97.6,97.6 |
| 110 | 6.006 | 5.987 | 5.997 | 5.918 | 7.313 | 7.385 | 7.404 | 7.472 | 100-110 | 6.417 | 2593 | 97.8,97.8 |
| 120 | 8.499 | 8.417 | 8.447 | 8.328 | 9.542 | 9.648 | 9.557 | 9.638 | 110-120 | 7.668 | 2601 | 98.1,98.1 |
| 130 | 12.18 | 12.11 | 12.08 | 12.08 | 12.92 | 13.01 | 12.94 | 12.92 | 120-130 | 9.554 | 2610 | 98.5,98.5 |
| 140 | 16.25 | 16.21 | 16.28 | 16.30 | 16.70 | 16.78 | 16.80 | 16.80 | 130-140 | 11.22 | 2622 | 98.9,98.9 |
| 150 | 19.61 | 19.62 | 19.58 | 19.59 | 19.87 | 19.95 | 19.99 | 19.97 | 140-150 | 11.43 | 2633 | 99.3,99.3 |
| 160 | 20.97 | 21.01 | 20.97 | 20.99 | 21.23 | 21.29 | 21.29 | 21.24 | 150-160 | 9.519 | 2643 | 99.7,99.7 |
| 170 | 21.23 | 21.33 | 21.32 | 21.24 | 21.44 | 21.31 | 21.46 | 21.54 | 160-170 | 6.030 | 2649 | 99.9,99.9 |
| 180 | 21.78 | 21.86 | 21.75 | 21.76 | 21.86 | 21.82 | 21.78 | 21.74 | 170-180 | 2.049 | 2651 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

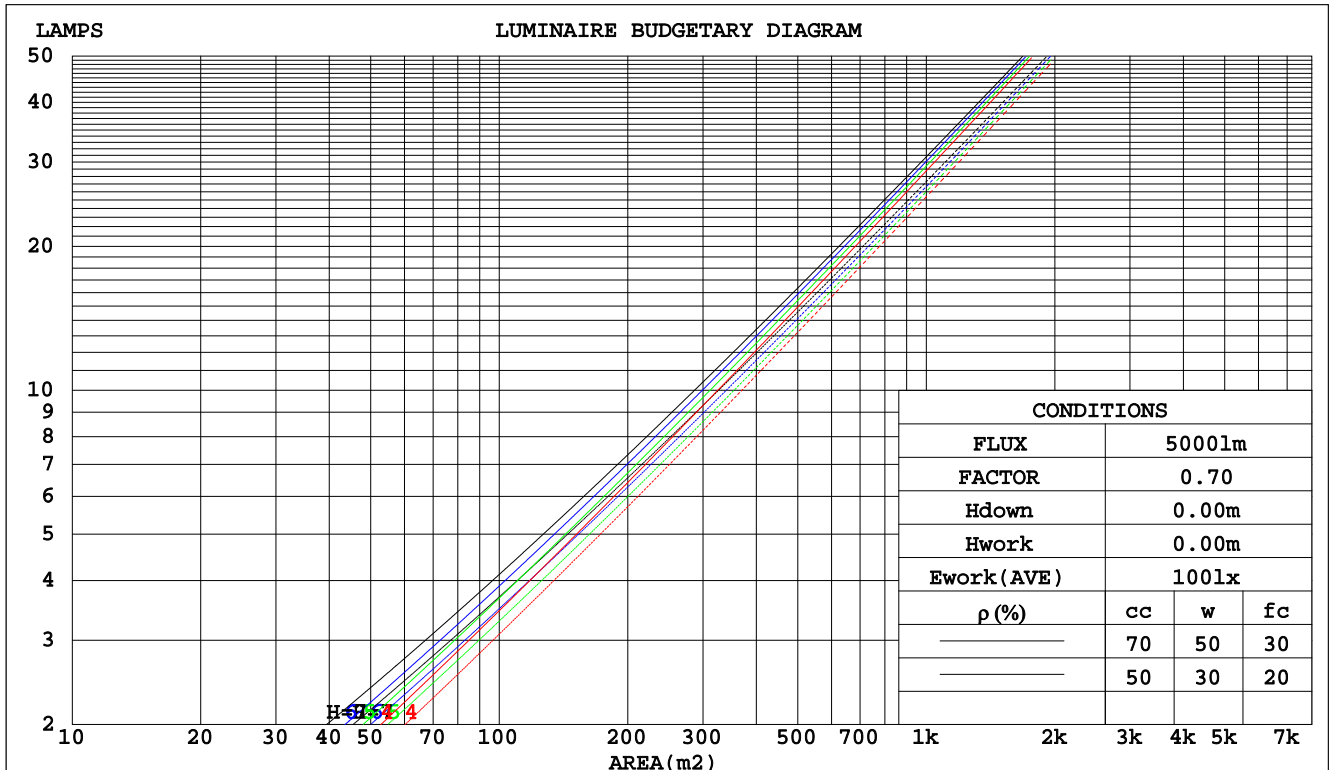
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-08-16

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:0.1270A P:27.70W PF:0.9600 Lamp Flux:2650.68x1 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 | 1.01 | .98 | .95 | .98 | .95 | .93 | .94 | .92 | .90 | .91 | .90 | .88 | .86 |
| 3.0 | .97 | .92 | .89 | .96 | .91 | .88 | .93 | .89 | .86 | .90 | .87 | .85 | .87 | .85 | .83 | .81 |
| 4.0 | .91 | .86 | .82 | .90 | .85 | .82 | .88 | .84 | .81 | .86 | .82 | .79 | .83 | .81 | .78 | .77 |
| 5.0 | .86 | .81 | .77 | .85 | .80 | .77 | .83 | .79 | .76 | .81 | .78 | .75 | .80 | .77 | .74 | .73 |
| 6.0 | .82 | .76 | .72 | .81 | .76 | .72 | .79 | .75 | .71 | .78 | .74 | .71 | .76 | .73 | .70 | .69 |
| 7.0 | .78 | .72 | .68 | .77 | .72 | .68 | .75 | .71 | .68 | .74 | .70 | .67 | .73 | .69 | .67 | .65 |
| 8.0 | .74 | .68 | .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 | .57 | .56 |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-08-16

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:0.1270A P:27.70W PF:0.9600 Lamp Flux:2650.68x1 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 | .172 | .098 | .031 | .164 | .094 | .030 | .150 | .086 | .028 | .137 | .079 | .025 | .125 | .073 | .023 | | |
| 2.0 | .162 | .089 | .027 | .155 | .085 | .026 | .143 | .080 | .025 | .132 | .074 | .023 | .122 | .069 | .022 | | |
| 3.0 | .152 | .081 | .024 | .147 | .079 | .024 | .137 | .074 | .022 | .127 | .070 | .021 | .118 | .066 | .020 | | |
| 4.0 | .144 | .075 | .022 | .139 | .073 | .022 | .130 | .069 | .021 | .122 | .066 | .020 | .114 | .062 | .019 | | |
| 5.0 | .136 | .070 | .020 | .132 | .068 | .020 | .125 | .065 | .019 | .117 | .062 | .018 | .111 | .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 | .109 | .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 | .111 | .054 | .015 | .106 | .052 | .015 | .101 | .051 | .014 | .097 | .049 | .014 | | |
| 10.0 | .109 | .052 | .014 | .106 | .051 | .014 | .102 | .050 | .014 | .098 | .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 | .096 | .080 | .068 | .055 | .047 | .040 | .018 | .015 | .013 | | |
| 4.0 | .151 | .119 | .095 | .130 | .103 | .082 | .089 | .072 | .058 | .052 | .042 | .034 | .017 | .014 | .011 | | |
| 5.0 | .142 | .108 | .082 | .122 | .093 | .071 | .084 | .065 | .050 | .049 | .038 | .030 | .016 | .012 | .010 | | |
| 6.0 | .135 | .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:2016-08-16

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:0.1270A P:27.70W PF:0.9600 Lamp Flux:2650.68x1 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 | 16.4 | 17.3 | 16.7 | 17.5 | 17.7 | 17.3 | 18.2 | 17.6 | 18.4 | 18.6 | |
| | 3H | 16.5 | 17.3 | 16.8 | 17.5 | 17.7 | 17.3 | 18.1 | 17.6 | 18.4 | |
| | 4H | 16.5 | 17.3 | 16.9 | 17.5 | 17.8 | 17.4 | 18.1 | 17.7 | 18.4 | |
| | 6H | 16.7 | 17.4 | 17.0 | 17.6 | 17.9 | 17.4 | 18.1 | 17.8 | 18.4 | |
| | 8H | 16.7 | 17.4 | 17.1 | 17.7 | 18.0 | 17.5 | 18.2 | 17.8 | 18.5 | |
| | 12H | 16.9 | 17.5 | 17.2 | 17.8 | 18.1 | 17.6 | 18.2 | 17.9 | 18.5 | |
| 4H | 2H | 16.3 | 17.0 | 16.6 | 17.3 | 17.5 | 17.2 | 17.9 | 17.5 | 18.2 | |
| | 3H | 16.4 | 17.1 | 16.8 | 17.4 | 17.7 | 17.2 | 17.9 | 17.6 | 18.2 | |
| | 4H | 16.6 | 17.1 | 16.9 | 17.5 | 17.8 | 17.3 | 17.9 | 17.7 | 18.3 | |
| | 6H | 16.8 | 17.3 | 17.2 | 17.7 | 18.1 | 17.5 | 18.0 | 17.9 | 18.4 | |
| | 8H | 16.9 | 17.4 | 17.4 | 17.8 | 18.2 | 17.6 | 18.1 | 18.0 | 18.5 | |
| | 12H | 17.2 | 17.6 | 17.6 | 18.0 | 18.5 | 17.8 | 18.2 | 18.2 | 18.6 | |
| 8H | 4H | 16.5 | 17.0 | 17.0 | 17.4 | 17.8 | 17.3 | 17.8 | 17.7 | 18.2 | |
| | 6H | 16.9 | 17.3 | 17.4 | 17.7 | 18.2 | 17.5 | 17.9 | 18.0 | 18.4 | |
| | 8H | 17.2 | 17.5 | 17.7 | 18.0 | 18.5 | 17.8 | 18.1 | 18.3 | 18.6 | |
| | 12H | 17.5 | 17.8 | 18.1 | 18.3 | 18.9 | 18.1 | 18.4 | 18.6 | 18.9 | |
| 12H | 4H | 16.5 | 17.0 | 17.0 | 17.4 | 17.8 | 17.3 | 17.7 | 17.7 | 18.1 | |
| | 6H | 16.9 | 17.3 | 17.4 | 17.7 | 18.2 | 17.6 | 17.9 | 18.0 | 18.4 | |
| | 8H | 17.2 | 17.5 | 17.8 | 18.0 | 18.6 | 17.8 | 18.1 | 18.3 | 18.6 | |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | + 1.4 / - 1.3 | | | | | + 1.9 / - 1.7 | | | | | |
| 1.5H | + 2.8 / - 1.1 | | | | | + 3.5 / - 1.5 | | | | | |
| 2.0H | + 1.2 / - 0.4 | | | | | + 1.9 / - 0.6 | | | | | |

CIE Pub.117 Corrected 2651 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.4)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-08-16

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:0.1270A P:27.70W PF:0.9600 Lamp Flux:2650.68x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

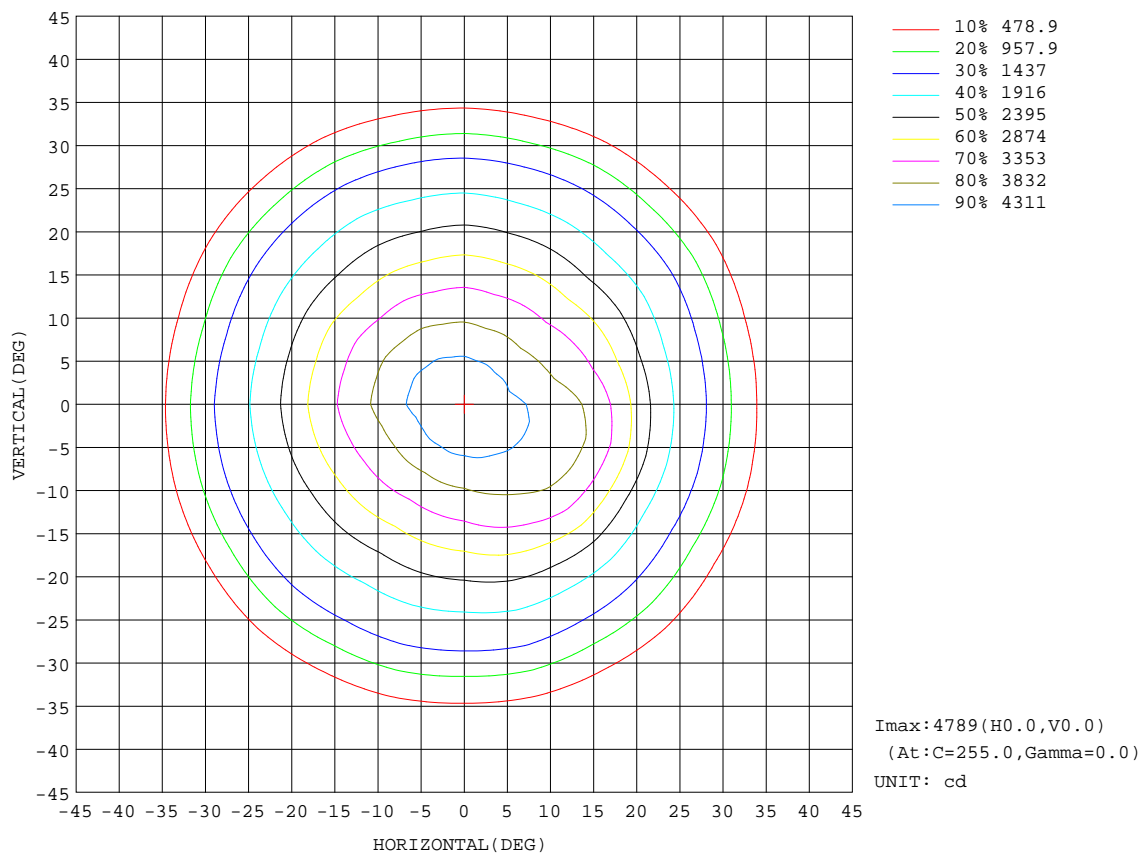
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 86 | 81 | 77 | 86 | 80 | 77 | 73 |
| 0.80 | 94 | 88 | 85 | 94 | 88 | 85 | 92 | 87 | 84 | 80 |
| 1.00 | 98 | 93 | 89 | 98 | 92 | 89 | 96 | 92 | 88 | 84 |
| 1.25 | 102 | 97 | 94 | 101 | 96 | 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:2016-08-16

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:0.1270A P:27.70W PF:0.9600 Lamp Flux:2650.68x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |



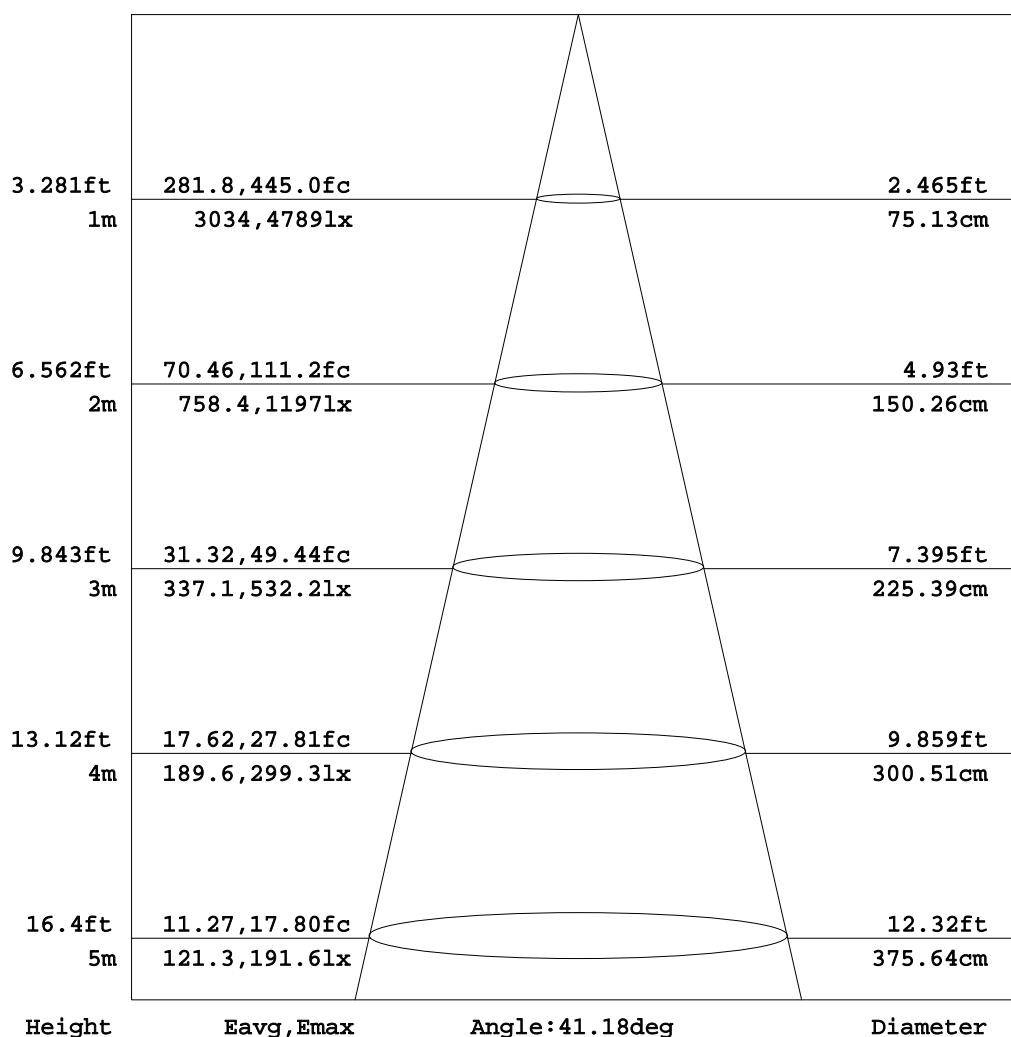
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-08-16

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:0.1270A P:27.70W PF:0.9600 Lamp Flux:2650.68x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

Flux out:1404 lm



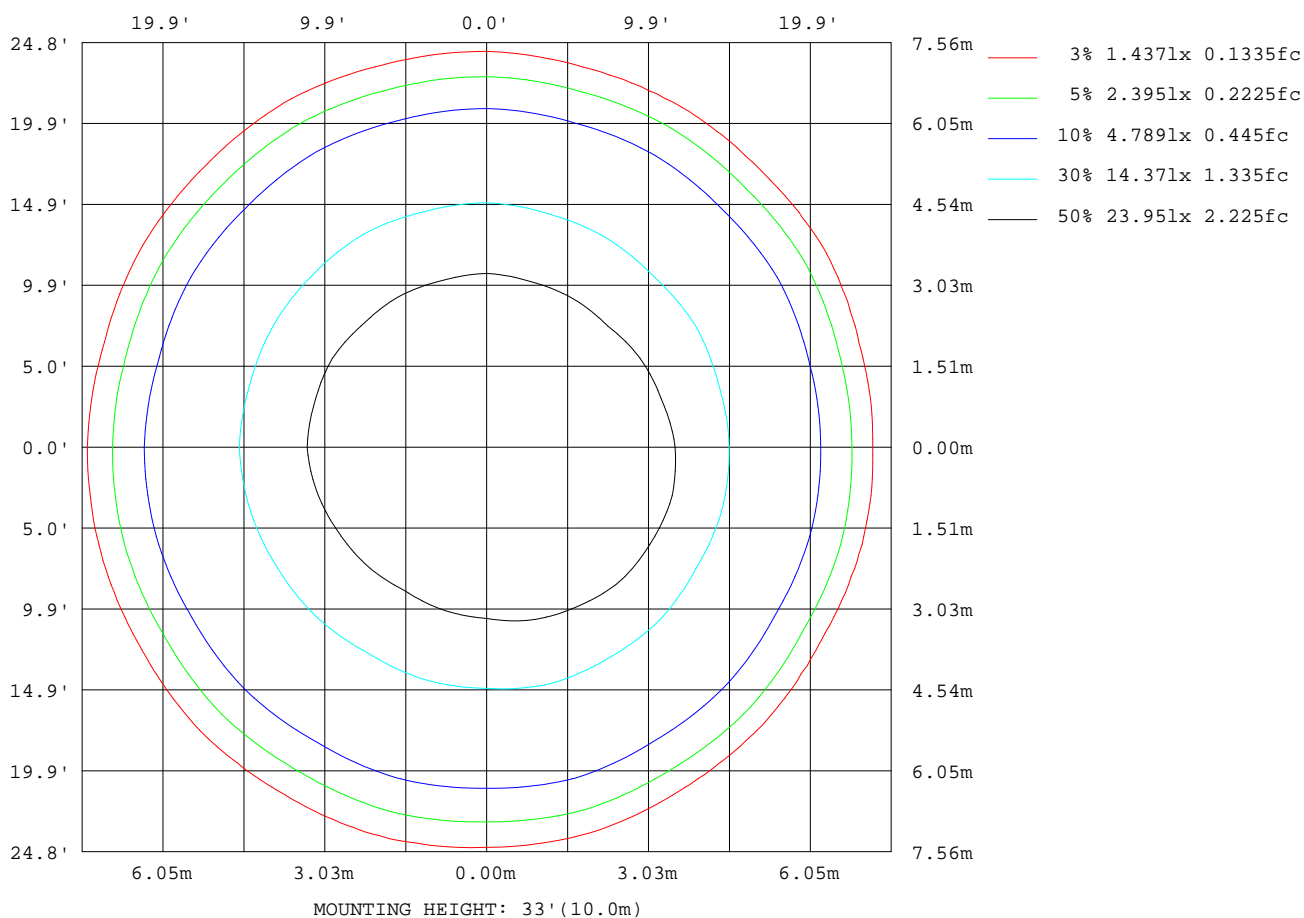
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-08-16

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

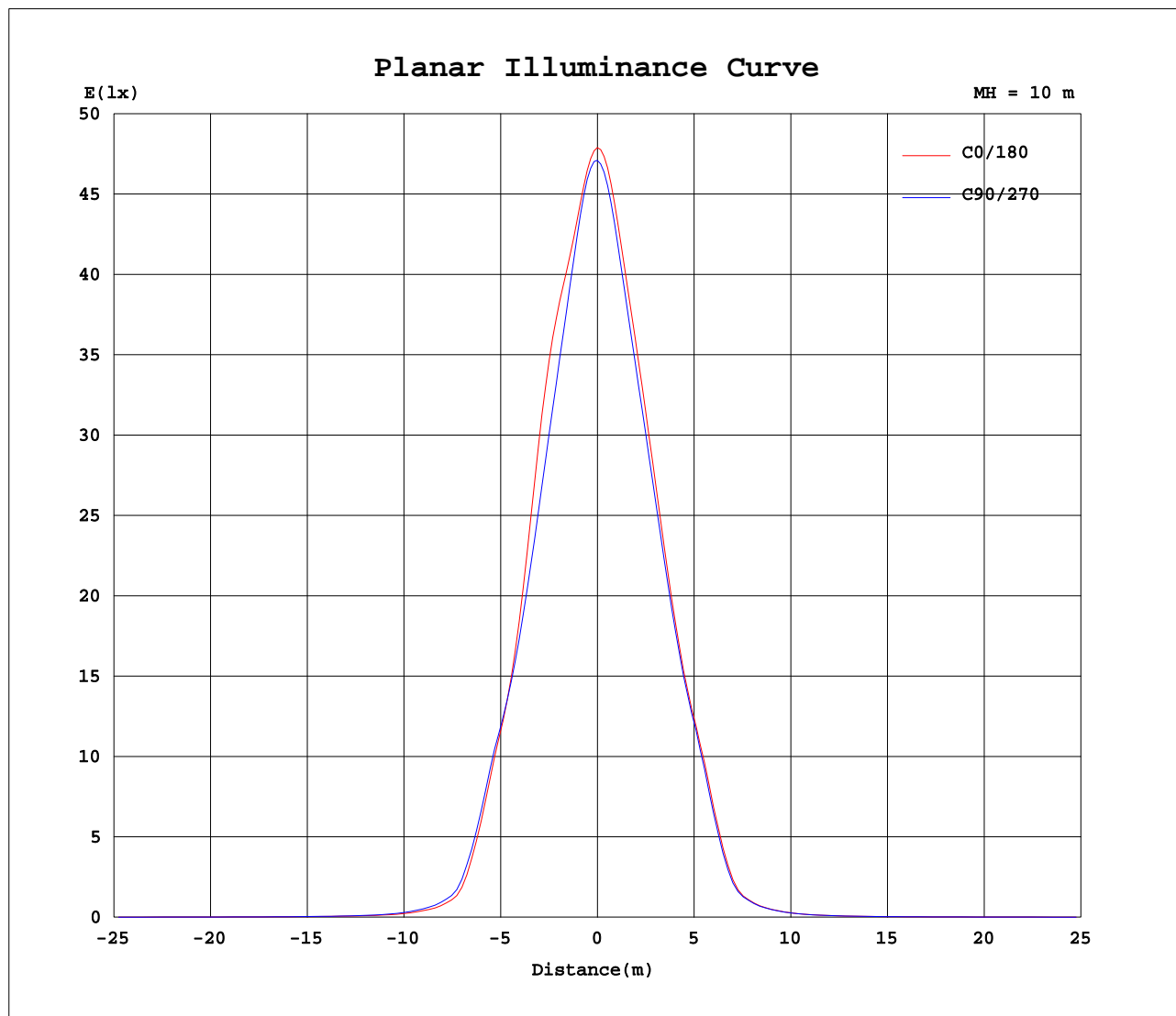
| | | |
|---|--------|-------------------|
| Test:U:226.4V I:0.1270A P:27.70W PF:0.9600 Lamp Flux:2650.68x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-08-16

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: 2016-08-16

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:0.1270A P:27.70W PF:0.9600 Lamp Flux:2650.68x1 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 | 4722 | 4722 | 4722 | 4722 | 4722 | 4722 | 4722 | 4722 | 4722 | 4722 | 4722 | 4722 | 4722 | 4722 | 4722 | 4722 | 4722 | 4722 | 4722 |
| 5 | 4435 | 4474 | 4482 | 4494 | 4467 | 4466 | 4434 | 4434 | 4406 | 4426 | 4414 | 4440 | 4439 | 4428 | 4446 | 4419 | 4419 | 4384 | 4387 |
| 10 | 4058 | 4152 | 4166 | 4118 | 4007 | 3915 | 3811 | 3776 | 3734 | 3768 | 3790 | 3851 | 3875 | 3866 | 3883 | 3839 | 3833 | 3783 | 3783 |
| 15 | 3615 | 3748 | 3726 | 3655 | 3462 | 3322 | 3170 | 3111 | 3055 | 3115 | 3162 | 3250 | 3268 | 3249 | 3259 | 3195 | 3192 | 3159 | 3180 |
| 20 | 2687 | 2784 | 2741 | 2746 | 2627 | 2571 | 2456 | 2424 | 2367 | 2425 | 2465 | 2549 | 2553 | 2531 | 2546 | 2497 | 2511 | 2479 | 2511 |
| 25 | 1788 | 1806 | 1786 | 1840 | 1833 | 1866 | 1819 | 1820 | 1782 | 1821 | 1834 | 1878 | 1872 | 1844 | 1861 | 1857 | 1879 | 1847 | 1864 |
| 30 | 1111 | 1127 | 1098 | 1170 | 1172 | 1256 | 1224 | 1253 | 1215 | 1261 | 1238 | 1272 | 1252 | 1196 | 1228 | 1209 | 1237 | 1190 | 1204 |
| 35 | 334 | 354 | 341 | 390 | 399 | 443 | 433 | 457 | 434 | 451 | 424 | 440 | 420 | 398 | 420 | 407 | 420 | 393 | 390 |
| 40 | 128 | 128 | 126 | 141 | 146 | 162 | 168 | 180 | 179 | 180 | 169 | 165 | 156 | 152 | 159 | 158 | 162 | 156 | 155 |
| 45 | 65.4 | 64.3 | 63.3 | 68.7 | 73.3 | 80.4 | 84.7 | 91.8 | 92.9 | 93.5 | 85.3 | 81.6 | 76.9 | 74.0 | 77.4 | 76.9 | 79.4 | 76.3 | 75.8 |
| 50 | 37.6 | 37.4 | 37.2 | 39.1 | 40.5 | 43.5 | 45.9 | 49.0 | 49.5 | 49.6 | 46.2 | 44.0 | 41.8 | 40.7 | 41.9 | 42.0 | 42.8 | 41.6 | 41.5 |
| 55 | 26.4 | 26.4 | 26.2 | 26.9 | 27.3 | 28.3 | 29.1 | 30.3 | 30.3 | 30.4 | 29.3 | 28.4 | 27.4 | 26.9 | 27.4 | 27.4 | 27.6 | 27.2 | 27.3 |
| 60 | 19.8 | 19.9 | 19.8 | 20.3 | 20.3 | 20.7 | 21.0 | 21.5 | 21.2 | 21.5 | 21.1 | 20.9 | 20.2 | 19.9 | 20.3 | 20.2 | 20.3 | 20.0 | 20.1 |
| 65 | 15.6 | 15.7 | 15.6 | 15.9 | 15.8 | 16.1 | 16.3 | 16.5 | 16.3 | 16.5 | 16.4 | 16.4 | 15.9 | 15.7 | 15.9 | 15.9 | 16.0 | 15.8 | 15.9 |
| 70 | 12.5 | 12.5 | 12.5 | 12.7 | 12.6 | 12.8 | 12.9 | 13.0 | 12.9 | 13.0 | 13.0 | 13.0 | 12.7 | 12.6 | 12.7 | 12.7 | 12.7 | 12.6 | 12.7 |
| 75 | 9.93 | 10.1 | 10.0 | 10.2 | 10.0 | 10.2 | 10.2 | 10.3 | 10.2 | 10.3 | 10.3 | 10.3 | 10.3 | 10.2 | 10.3 | 10.3 | 10.3 | 10.2 | 10.3 |
| 80 | 7.96 | 8.02 | 8.00 | 8.03 | 7.96 | 8.05 | 8.07 | 8.15 | 8.11 | 8.19 | 8.11 | 8.15 | 8.41 | 8.53 | 8.46 | 8.41 | 8.36 | 8.30 | 8.36 |
| 85 | 6.40 | 6.53 | 6.52 | 6.45 | 6.44 | 6.53 | 6.47 | 6.52 | 6.46 | 6.51 | 6.46 | 6.52 | 7.16 | 7.47 | 7.18 | 7.07 | 7.07 | 7.03 | 7.04 |
| 90 | 5.13 | 5.63 | 5.31 | 5.02 | 5.05 | 5.11 | 5.01 | 4.98 | 4.94 | 4.88 | 4.90 | 4.93 | 6.02 | 6.54 | 6.06 | 5.93 | 5.92 | 5.93 | 5.91 |
| 95 | 5.05 | 5.23 | 5.27 | 4.97 | 4.96 | 4.91 | 4.90 | 4.84 | 4.84 | 4.84 | 4.83 | 4.86 | 6.15 | 6.57 | 6.24 | 6.11 | 6.11 | 6.11 | 6.12 |
| 100 | 5.02 | 5.10 | 5.12 | 5.00 | 4.96 | 4.94 | 4.90 | 4.88 | 4.86 | 4.87 | 4.86 | 4.89 | 6.32 | 6.55 | 6.37 | 6.33 | 6.34 | 6.35 | 6.35 |
| 105 | 5.33 | 5.35 | 5.37 | 5.33 | 5.32 | 5.27 | 5.26 | 5.23 | 5.23 | 5.22 | 5.22 | 5.22 | 6.69 | 6.75 | 6.71 | 6.73 | 6.73 | 6.76 | 6.76 |
| 110 | 6.01 | 6.01 | 6.03 | 5.99 | 6.00 | 5.97 | 6.00 | 5.96 | 5.96 | 5.92 | 5.94 | 5.92 | 7.31 | 7.35 | 7.33 | 7.39 | 7.39 | 7.42 | 7.40 |
| 115 | 7.07 | 7.04 | 7.08 | 7.01 | 7.05 | 7.01 | 7.06 | 6.99 | 7.01 | 6.94 | 6.99 | 6.95 | 8.26 | 8.31 | 8.29 | 8.36 | 8.33 | 8.35 | 8.33 |
| 120 | 8.50 | 8.46 | 8.50 | 8.42 | 8.46 | 8.39 | 8.45 | 8.37 | 8.39 | 8.33 | 8.40 | 8.36 | 9.54 | 9.61 | 9.59 | 9.65 | 9.59 | 9.62 | 9.56 |
| 125 | 10.2 | 10.2 | 10.2 | 10.1 | 10.2 | 10.1 | 10.1 | 10.0 | 10.1 | 10.0 | 10.1 | 10.1 | 11.1 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.1 |
| 130 | 12.2 | 12.1 | 12.2 | 12.1 | 12.1 | 12.0 | 12.1 | 12.0 | 12.1 | 12.1 | 12.2 | 12.1 | 12.9 | 13.0 | 13.0 | 13.0 | 12.9 | 13.0 | 12.9 |
| 135 | 14.2 | 14.2 | 14.2 | 14.2 | 14.3 | 14.2 | 14.2 | 14.2 | 14.3 | 14.2 | 14.3 | 14.2 | 14.8 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 |
| 140 | 16.3 | 16.2 | 16.2 | 16.2 | 16.3 | 16.2 | 16.3 | 16.3 | 16.4 | 16.3 | 16.3 | 16.2 | 16.7 | 16.8 | 16.7 | 16.8 | 16.7 | 16.8 | 16.8 |
| 145 | 18.1 | 18.1 | 18.1 | 18.1 | 18.3 | 18.1 | 18.1 | 18.1 | 18.2 | 18.2 | 18.1 | 18.1 | 18.4 | 18.6 | 18.5 | 18.5 | 18.5 | 18.6 | 18.6 |
| 150 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.5 | 19.9 | 19.9 | 19.9 | 20.0 | 19.9 | 20.0 | 20.0 |
| 155 | 20.5 | 20.6 | 20.6 | 20.6 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.8 | 20.8 | 20.9 | 20.9 | 20.9 | 20.8 | 20.9 |
| 160 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.2 | 21.2 | 21.3 | 21.3 | 21.3 | 21.3 | 21.3 |
| 165 | 21.1 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.1 | 21.1 | 21.4 | 21.3 | 21.4 | 21.4 | 21.4 | 21.4 | 21.5 |
| 170 | 21.2 | 21.3 | 21.3 | 21.3 | 21.3 | 21.3 | 21.3 | 21.3 | 21.3 | 21.2 | 21.2 | 21.1 | 21.4 | 21.4 | 21.4 | 21.3 | 21.4 | 21.4 | 21.5 |
| 175 | 21.4 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.4 | 21.4 | 21.4 | 21.4 | 21.6 | 21.6 | 21.6 | 21.5 | 21.5 | 21.5 | 21.5 |
| 180 | 21.8 | 21.9 | 21.8 | 21.9 | 21.8 | 21.8 | 21.7 | 21.8 | 21.7 | 21.8 | 21.7 | 21.8 | 21.9 | 21.8 | 21.9 | 21.8 | 21.8 | 21.8 | 21.8 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-08-16

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:0.1270A P:27.70W PF:0.9600 Lamp Flux:2650.68x1 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 | 4722 | 4722 | 4722 | 4722 | 4722 | | | | | | | | | | | | | | |
| 5 | 4356 | 4366 | 4352 | 4388 | 4395 | | | | | | | | | | | | | | |
| 10 | 3743 | 3761 | 3766 | 3855 | 3940 | | | | | | | | | | | | | | |
| 15 | 3143 | 3163 | 3171 | 3304 | 3444 | | | | | | | | | | | | | | |
| 20 | 2469 | 2479 | 2460 | 2561 | 2608 | | | | | | | | | | | | | | |
| 25 | 1820 | 1818 | 1790 | 1830 | 1801 | | | | | | | | | | | | | | |
| 30 | 1165 | 1186 | 1148 | 1183 | 1129 | | | | | | | | | | | | | | |
| 35 | 366 | 377 | 355 | 371 | 340 | | | | | | | | | | | | | | |
| 40 | 148 | 151 | 142 | 147 | 133 | | | | | | | | | | | | | | |
| 45 | 73.8 | 72.6 | 71.3 | 70.3 | 67.2 | | | | | | | | | | | | | | |
| 50 | 40.4 | 40.4 | 39.4 | 39.5 | 38.0 | | | | | | | | | | | | | | |
| 55 | 26.9 | 26.9 | 26.5 | 26.7 | 26.3 | | | | | | | | | | | | | | |
| 60 | 19.9 | 20.0 | 19.7 | 19.9 | 19.7 | | | | | | | | | | | | | | |
| 65 | 15.8 | 15.8 | 15.6 | 15.7 | 15.5 | | | | | | | | | | | | | | |
| 70 | 12.7 | 12.7 | 12.6 | 12.7 | 12.5 | | | | | | | | | | | | | | |
| 75 | 10.2 | 10.3 | 10.2 | 10.3 | 10.1 | | | | | | | | | | | | | | |
| 80 | 8.35 | 8.46 | 8.36 | 8.41 | 8.28 | | | | | | | | | | | | | | |
| 85 | 7.02 | 7.14 | 7.06 | 7.10 | 6.98 | | | | | | | | | | | | | | |
| 90 | 5.92 | 6.03 | 6.01 | 6.01 | 5.94 | | | | | | | | | | | | | | |
| 95 | 6.11 | 6.13 | 6.13 | 6.13 | 6.14 | | | | | | | | | | | | | | |
| 100 | 6.37 | 6.36 | 6.39 | 6.37 | 6.36 | | | | | | | | | | | | | | |
| 105 | 6.78 | 6.77 | 6.80 | 6.78 | 6.79 | | | | | | | | | | | | | | |
| 110 | 7.45 | 7.44 | 7.47 | 7.43 | 7.45 | | | | | | | | | | | | | | |
| 115 | 8.38 | 8.37 | 8.41 | 8.37 | 8.41 | | | | | | | | | | | | | | |
| 120 | 9.60 | 9.57 | 9.64 | 9.58 | 9.65 | | | | | | | | | | | | | | |
| 125 | 11.2 | 11.1 | 11.1 | 11.1 | 11.2 | | | | | | | | | | | | | | |
| 130 | 13.0 | 12.9 | 12.9 | 12.9 | 12.9 | | | | | | | | | | | | | | |
| 135 | 14.9 | 14.8 | 14.9 | 14.8 | 14.8 | | | | | | | | | | | | | | |
| 140 | 16.8 | 16.8 | 16.8 | 16.7 | 16.7 | | | | | | | | | | | | | | |
| 145 | 18.6 | 18.5 | 18.6 | 18.5 | 18.6 | | | | | | | | | | | | | | |
| 150 | 20.0 | 19.9 | 20.0 | 19.9 | 20.0 | | | | | | | | | | | | | | |
| 155 | 20.9 | 20.8 | 20.8 | 20.8 | 20.8 | | | | | | | | | | | | | | |
| 160 | 21.3 | 21.3 | 21.2 | 21.2 | 21.2 | | | | | | | | | | | | | | |
| 165 | 21.5 | 21.5 | 21.5 | 21.5 | 21.4 | | | | | | | | | | | | | | |
| 170 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | | | | | | | | | | | | | | |
| 175 | 21.5 | 21.6 | 21.6 | 21.6 | 21.6 | | | | | | | | | | | | | | |
| 180 | 21.7 | 21.8 | 21.7 | 21.8 | 21.8 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-08-16

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: