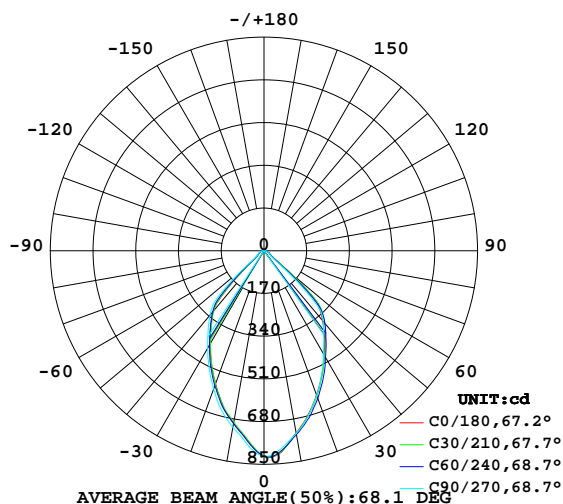


LUMINAIRE PHOTOMETRIC TEST REPORT

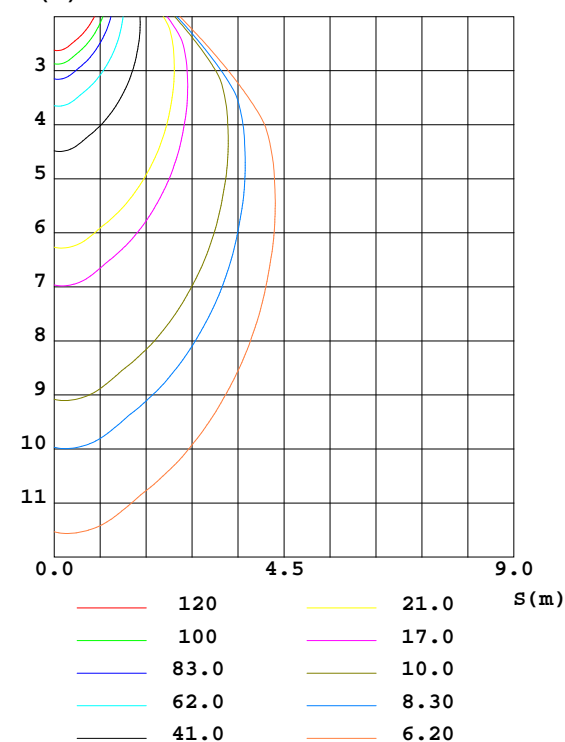
| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.0650A P:11.90W PF:0.8090 Lamp Flux:1032.14x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 86.73 lm/W | | | |
|------------------|--------------------|----------------------------------|--------|-------------------|----------|
| MODEL | BL161-12W-940-W-60 | Imax(cd) | 824.1 | S/MH(C0/180) | 0.93 |
| NOMINAL POWER(W) | 12 | LOR(%) | 100.0 | S/MH(C90/270) | 0.92 |
| RATED VOLTAGE(V) | 226 | TOTAL FLUX(lm) | 1032.1 | η UP,DN(C0-180) | 1.1,50.2 |
| NOMINAL FLUX(lm) | 1032.14 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 1.2,47.4 |
| LAMPS INSIDE | 1 | η up(%) | 2.3 | CIBSE SHR NOM | 1.00 |
| TEST VOLTAGE(V) | 226.6 | η down(%) | 97.7 | CIBSE SHR MAX | 1.05 |

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:2016-08-25

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 | 737.5 | 743.5 | 738.7 | 721.4 | 697.8 | 691.8 | 714.0 | 728.7 | 0- 10 | 72.49 | 72.49 | 7.02,7.02 |
| 20 | 610.6 | 623.6 | 612.8 | 600.0 | 563.6 | 564.7 | 585.5 | 610.7 | 10- 20 | 185.6 | 258.1 | 25,25 |
| 30 | 480.6 | 491.3 | 473.5 | 466.4 | 428.1 | 428.0 | 448.6 | 482.6 | 20- 30 | 242.9 | 501.0 | 48.5,48.5 |
| 40 | 362.3 | 381.7 | 364.8 | 346.3 | 313.8 | 310.4 | 334.0 | 358.8 | 30- 40 | 251.5 | 752.5 | 72.9,72.9 |
| 50 | 134.9 | 118.2 | 71.95 | 45.50 | 42.17 | 45.07 | 67.11 | 107.4 | 40- 50 | 179.8 | 932.4 | 90.3,90.3 |
| 60 | 28.57 | 28.31 | 26.30 | 24.61 | 23.80 | 24.00 | 25.69 | 27.54 | 50- 60 | 33.92 | 966.3 | 93.6,93.6 |
| 70 | 18.53 | 18.15 | 16.51 | 14.59 | 14.32 | 14.38 | 15.80 | 17.45 | 60- 70 | 21.20 | 987.5 | 95.7,95.7 |
| 80 | 11.48 | 11.00 | 9.596 | 8.561 | 8.594 | 9.281 | 10.35 | 11.18 | 70- 80 | 13.74 | 1001 | 97,97 |
| 90 | 2.912 | 1.845 | 1.685 | 1.756 | 1.992 | 1.956 | 1.932 | 2.485 | 80- 90 | 6.728 | 1008 | 97.7,97.7 |
| 100 | 1.993 | 2.015 | 2.099 | 2.190 | 2.501 | 2.461 | 2.395 | 2.293 | 90-100 | 2.206 | 1010 | 97.9,97.9 |
| 110 | 2.548 | 2.562 | 2.663 | 2.770 | 3.136 | 3.097 | 3.027 | 2.905 | 100-110 | 2.672 | 1013 | 98.1,98.1 |
| 120 | 3.266 | 3.263 | 3.379 | 3.509 | 3.879 | 3.842 | 3.756 | 3.621 | 110-120 | 3.160 | 1016 | 98.4,98.4 |
| 130 | 4.097 | 4.083 | 4.194 | 4.333 | 4.722 | 4.678 | 4.568 | 4.430 | 120-130 | 3.553 | 1020 | 98.8,98.8 |
| 140 | 4.961 | 4.940 | 5.020 | 5.160 | 5.509 | 5.451 | 5.359 | 5.235 | 130-140 | 3.709 | 1023 | 99.1,99.1 |
| 150 | 5.688 | 5.650 | 5.702 | 5.810 | 6.050 | 5.980 | 5.886 | 5.785 | 140-150 | 3.461 | 1027 | 99.5,99.5 |
| 160 | 6.355 | 6.323 | 6.371 | 6.462 | 6.669 | 6.595 | 6.497 | 6.405 | 150-160 | 2.830 | 1030 | 99.7,99.7 |
| 170 | 6.994 | 6.978 | 7.006 | 7.077 | 7.217 | 7.135 | 7.079 | 6.994 | 160-170 | 1.906 | 1031 | 99.9,99.9 |
| 180 | 7.513 | 7.478 | 7.474 | 7.466 | 7.536 | 7.464 | 7.484 | 7.464 | 170-180 | 0.6901 | 1032 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

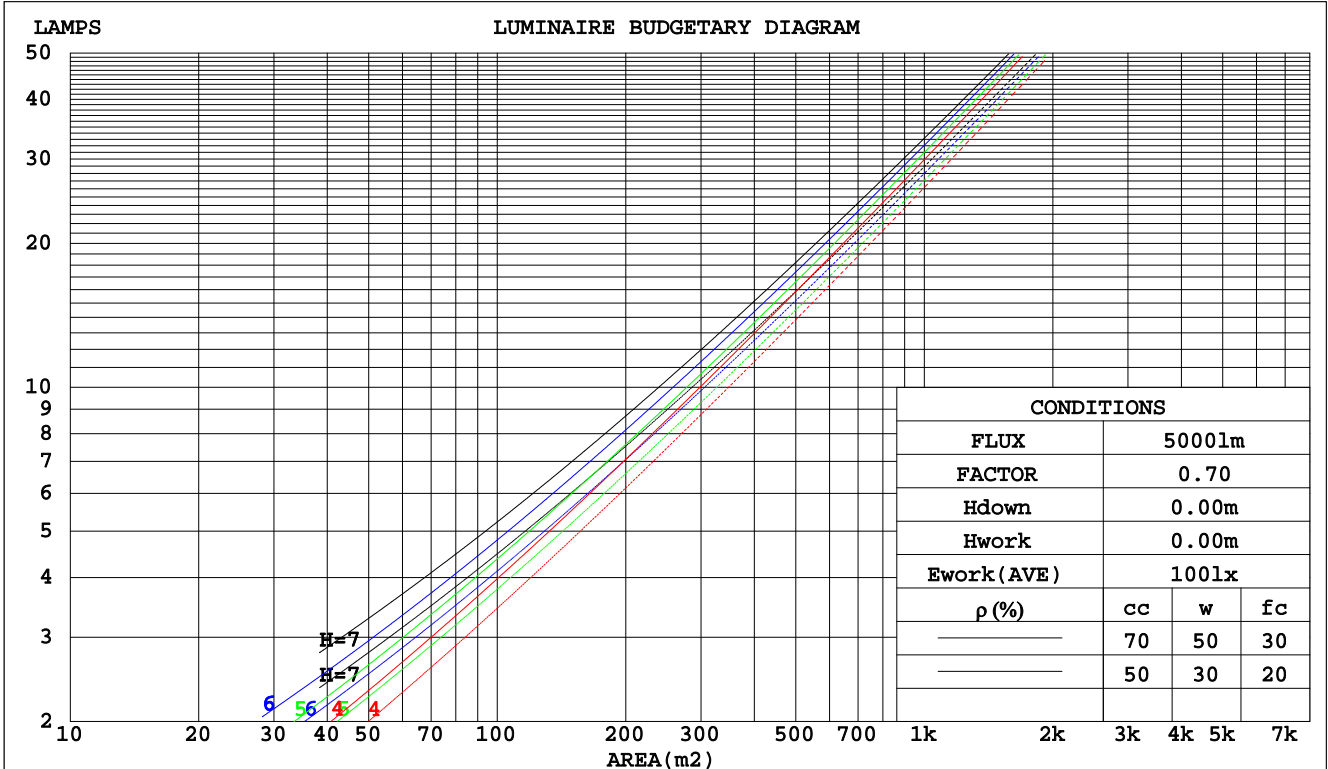
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-08-25

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:226.6V I:0.0650A P:11.90W PF:0.8090 Lamp Flux:1032.14x1 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 | 1.08 | 1.05 | 1.02 | 1.06 | 1.03 | 1.01 | 1.01 | .99 | .97 | .97 | .95 | .94 | .93 | .92 | .91 | .88 |
| 2.0 | .99 | .94 | .90 | .97 | .92 | .88 | .93 | .89 | .86 | .90 | .86 | .84 | .86 | .84 | .82 | .80 |
| 3.0 | .90 | .84 | .79 | .89 | .83 | .79 | .85 | .81 | .77 | .83 | .79 | .75 | .80 | .77 | .74 | .72 |
| 4.0 | .83 | .76 | .71 | .81 | .75 | .70 | .79 | .73 | .69 | .76 | .72 | .68 | .74 | .70 | .67 | .65 |
| 5.0 | .76 | .69 | .64 | .75 | .68 | .64 | .73 | .67 | .63 | .71 | .66 | .62 | .69 | .65 | .61 | .59 |
| 6.0 | .70 | .63 | .58 | .69 | .63 | .58 | .67 | .61 | .57 | .66 | .60 | .57 | .64 | .59 | .56 | .54 |
| 7.0 | .65 | .58 | .53 | .64 | .57 | .53 | .63 | .57 | .52 | .61 | .56 | .52 | .60 | .55 | .51 | .50 |
| 8.0 | .60 | .53 | .49 | .60 | .53 | .48 | .58 | .52 | .48 | .57 | .52 | .48 | .56 | .51 | .47 | .46 |
| 9.0 | .56 | .49 | .45 | .56 | .49 | .45 | .54 | .48 | .44 | .53 | .48 | .44 | .52 | .47 | .44 | .42 |
| 10.0 | .52 | .46 | .41 | .52 | .46 | .41 | .51 | .45 | .41 | .50 | .45 | .41 | .49 | .44 | .40 | .39 |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-08-25

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:226.6V I:0.0650A P:11.90W PF:0.8090 Lamp Flux:1032.14x1 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 | .218 | .124 | .039 | .210 | .120 | .038 | .196 | .112 | .036 | .183 | .106 | .034 | .171 | .099 | .032 | |
| 2.0 | .208 | .114 | .035 | .201 | .111 | .034 | .189 | .105 | .033 | .178 | .100 | .031 | .168 | .095 | .030 | |
| 3.0 | .197 | .105 | .031 | .191 | .103 | .031 | .181 | .098 | .030 | .171 | .094 | .029 | .162 | .090 | .028 | |
| 4.0 | .187 | .097 | .029 | .182 | .095 | .028 | .172 | .091 | .027 | .164 | .088 | .027 | .156 | .085 | .026 | |
| 5.0 | .177 | .090 | .026 | .172 | .089 | .026 | .164 | .085 | .025 | .156 | .083 | .025 | .149 | .080 | .024 | |
| 6.0 | .168 | .084 | .024 | .164 | .083 | .024 | .156 | .080 | .023 | .149 | .078 | .023 | .143 | .075 | .022 | |
| 7.0 | .159 | .079 | .022 | .156 | .078 | .022 | .149 | .075 | .022 | .143 | .073 | .021 | .137 | .071 | .021 | |
| 8.0 | .151 | .074 | .021 | .148 | .073 | .021 | .142 | .071 | .020 | .137 | .069 | .020 | .131 | .067 | .020 | |
| 9.0 | .144 | .070 | .019 | .141 | .069 | .019 | .136 | .067 | .019 | .131 | .066 | .019 | .126 | .064 | .018 | |
| 10.0 | .137 | .066 | .018 | .135 | .065 | .018 | .130 | .064 | .018 | .125 | .062 | .018 | .121 | .061 | .017 | |

| 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 | .208 | .208 | .208 | .178 | .178 | .178 | .122 | .122 | .122 | .070 | .070 | .070 | .022 | .022 | .022 | |
| 1.0 | .192 | .175 | .160 | .164 | .150 | .137 | .112 | .103 | .095 | .065 | .060 | .055 | .021 | .019 | .018 | |
| 2.0 | .179 | .150 | .126 | .153 | .129 | .109 | .105 | .090 | .076 | .061 | .052 | .045 | .019 | .017 | .015 | |
| 3.0 | .169 | .132 | .103 | .145 | .114 | .089 | .099 | .079 | .063 | .057 | .046 | .037 | .018 | .015 | .012 | |
| 4.0 | .160 | .118 | .086 | .137 | .102 | .075 | .094 | .071 | .053 | .055 | .042 | .031 | .018 | .014 | .010 | |
| 5.0 | .152 | .107 | .073 | .131 | .092 | .064 | .090 | .065 | .045 | .052 | .038 | .027 | .017 | .012 | .009 | |
| 6.0 | .145 | .098 | .064 | .125 | .085 | .056 | .086 | .059 | .040 | .050 | .035 | .024 | .016 | .011 | .008 | |
| 7.0 | .139 | .091 | .057 | .120 | .079 | .050 | .083 | .055 | .035 | .048 | .033 | .021 | .015 | .011 | .007 | |
| 8.0 | .133 | .085 | .052 | .115 | .074 | .045 | .079 | .052 | .032 | .046 | .030 | .019 | .015 | .010 | .006 | |
| 9.0 | .128 | .080 | .047 | .110 | .069 | .041 | .076 | .049 | .029 | .045 | .029 | .017 | .014 | .009 | .006 | |
| 10.0 | .123 | .076 | .044 | .106 | .066 | .038 | .074 | .046 | .027 | .043 | .027 | .016 | .014 | .009 | .005 | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-08-25

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:226.6V I:0.0650A P:11.90W PF:0.8090 Lamp Flux:1032.14x1 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 | 2H | 24.2 | 25.3 | 24.5 | 25.5 | 25.8 | 23.7 | 24.8 | 24.0 | 25.1 | 25.3 |
| | 3H | 24.2 | 25.2 | 24.5 | 25.5 | 25.7 | 23.7 | 24.7 | 24.0 | 25.0 | 25.3 |
| | 4H | 24.2 | 25.2 | 24.6 | 25.5 | 25.8 | 23.7 | 24.7 | 24.1 | 25.0 | 25.3 |
| | 6H | 24.3 | 25.2 | 24.6 | 25.5 | 25.8 | 23.8 | 24.7 | 24.1 | 25.0 | 25.3 |
| | 8H | 24.4 | 25.2 | 24.7 | 25.5 | 25.9 | 23.8 | 24.7 | 24.2 | 25.0 | 25.3 |
| | 12H | 24.4 | 25.3 | 24.8 | 25.6 | 25.9 | 23.8 | 24.7 | 24.2 | 25.0 | 25.3 |
| 4H | 2H | 24.0 | 25.0 | 24.3 | 25.2 | 25.5 | 23.5 | 24.5 | 23.8 | 24.8 | 25.1 |
| | 3H | 24.1 | 24.9 | 24.4 | 25.2 | 25.6 | 23.6 | 24.4 | 24.0 | 24.8 | 25.1 |
| | 4H | 24.2 | 24.9 | 24.6 | 25.3 | 25.7 | 23.7 | 24.5 | 24.1 | 24.8 | 25.2 |
| | 6H | 24.4 | 25.0 | 24.8 | 25.4 | 25.8 | 23.8 | 24.5 | 24.3 | 24.9 | 25.3 |
| | 8H | 24.5 | 25.1 | 24.9 | 25.5 | 25.9 | 23.9 | 24.6 | 24.4 | 25.0 | 25.4 |
| | 12H | 24.7 | 25.2 | 25.1 | 25.6 | 26.1 | 24.0 | 24.6 | 24.5 | 25.0 | 25.5 |
| 8H | 4H | 24.2 | 24.8 | 24.6 | 25.2 | 25.6 | 23.7 | 24.3 | 24.1 | 24.7 | 25.1 |
| | 6H | 24.4 | 24.9 | 24.9 | 25.4 | 25.8 | 23.9 | 24.4 | 24.4 | 24.9 | 25.4 |
| | 8H | 24.6 | 25.1 | 25.1 | 25.5 | 26.0 | 24.1 | 24.6 | 24.6 | 25.0 | 25.5 |
| | 12H | 24.9 | 25.3 | 25.4 | 25.8 | 26.3 | 24.3 | 24.7 | 24.8 | 25.2 | 25.7 |
| 12H | 4H | 24.1 | 24.7 | 24.6 | 25.1 | 25.6 | 23.7 | 24.2 | 24.1 | 24.7 | 25.1 |
| | 6H | 24.4 | 24.9 | 24.9 | 25.3 | 25.8 | 24.0 | 24.4 | 24.4 | 24.9 | 25.4 |
| | 8H | 24.7 | 25.1 | 25.2 | 25.6 | 26.1 | 24.2 | 24.6 | 24.7 | 25.0 | 25.6 |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | + 2.1 / - 3.1 | | | | | + 2.2 / - 3.5 | | | | | |
| 1.5H | + 2.1 / - 4.3 | | | | | + 1.9 / - 4.3 | | | | | |
| 2.0H | + 5.3 / - 2.9 | | | | | + 5.3 / - 2.6 | | | | | |

CIE Pub.117 Corrected 1032 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.1)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-08-25

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:226.6V I:0.0650A P:11.90W PF:0.8090 Lamp Flux:1032.14x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

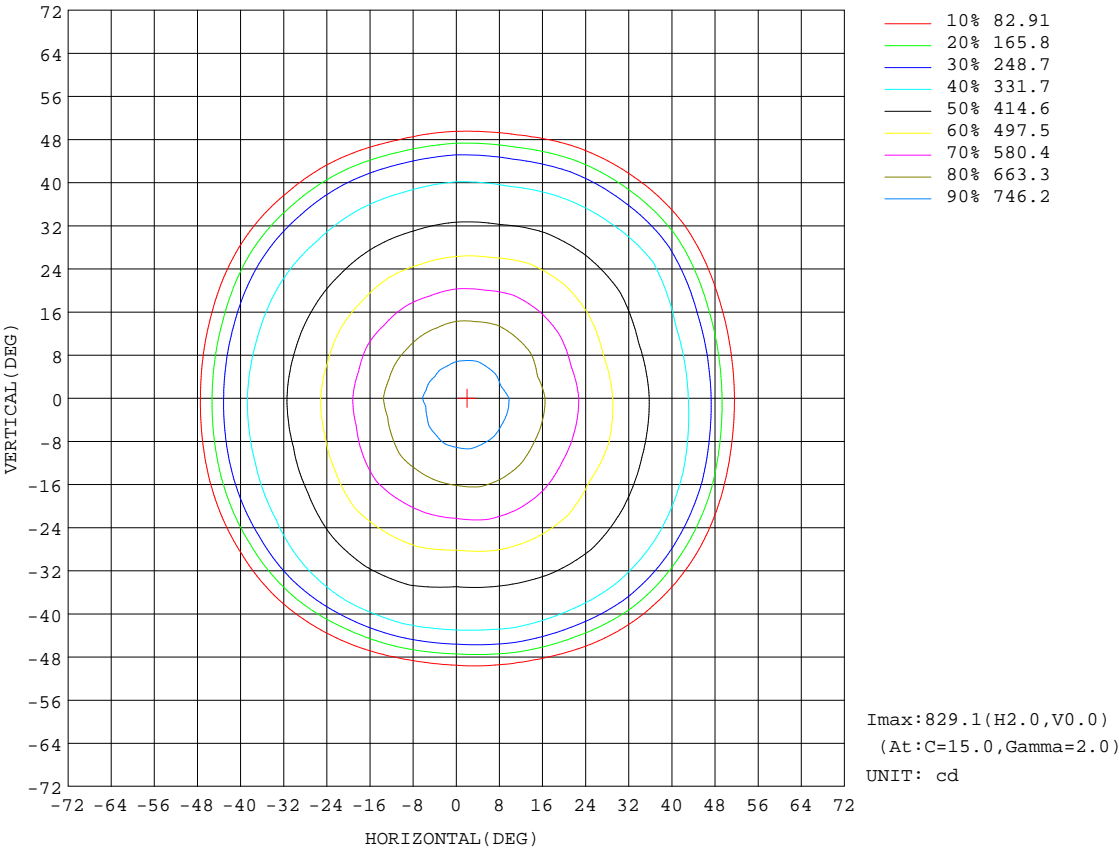
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 75 | 66 | 61 | 74 | 66 | 61 | 73 | 65 | 61 | 56 |
| 0.80 | 84 | 76 | 70 | 83 | 75 | 70 | 81 | 74 | 70 | 65 |
| 1.00 | 90 | 83 | 78 | 89 | 82 | 77 | 87 | 82 | 77 | 71 |
| 1.25 | 96 | 89 | 84 | 94 | 88 | 83 | 92 | 86 | 82 | 77 |
| 1.50 | 99 | 93 | 88 | 98 | 92 | 88 | 95 | 90 | 86 | 81 |
| 2.00 | 104 | 98 | 94 | 102 | 97 | 93 | 99 | 94 | 91 | 85 |
| 2.50 | 106 | 101 | 97 | 104 | 99 | 96 | 100 | 97 | 94 | 86 |
| 3.00 | 108 | 103 | 100 | 106 | 102 | 99 | 102 | 99 | 96 | 88 |
| 4.00 | 111 | 107 | 104 | 108 | 105 | 102 | 104 | 101 | 99 | 91 |
| 5.00 | 112 | 109 | 106 | 110 | 107 | 104 | 105 | 103 | 101 | 92 |
| 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:2016-08-25

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

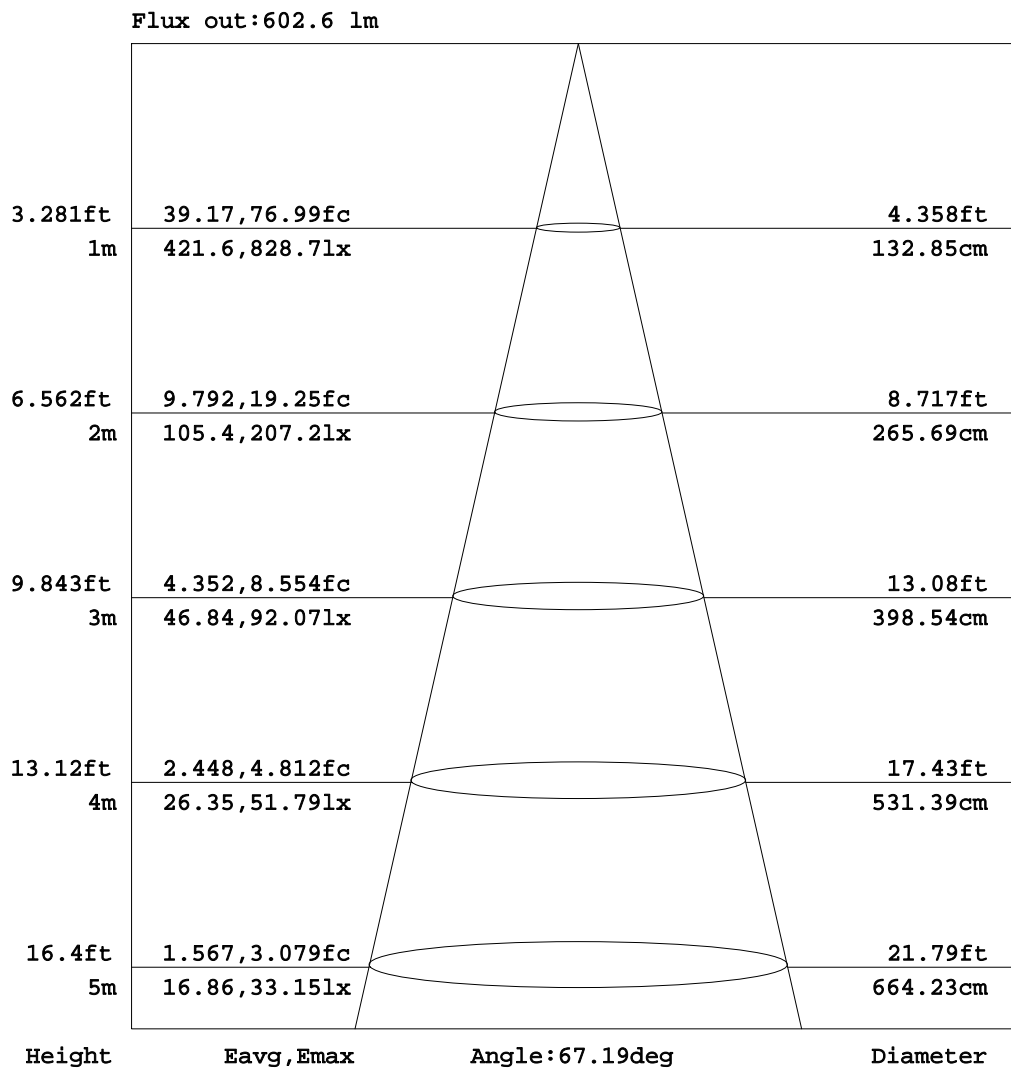
| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.0650A P:11.90W PF:0.8090 Lamp Flux:1032.14x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |



| | |
|----------------------|--|
| C Range: 0 - 360DEG | γ Range: 0 - 180DEG |
| C Interval: 15.0DEG | γ Interval: 1.0DEG |
| Test Speed: HIGH | Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265 |
| Temperature:25.3DEG | Humidity:65.0% |
| Operators:ZhangXiao | Test Distance:6.590m [K=1.0000] |
| Test Date:2016-08-25 | Remarks: |

AAI Figure

| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.0650A P:11.90W PF:0.8090 Lamp Flux:1032.14x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |



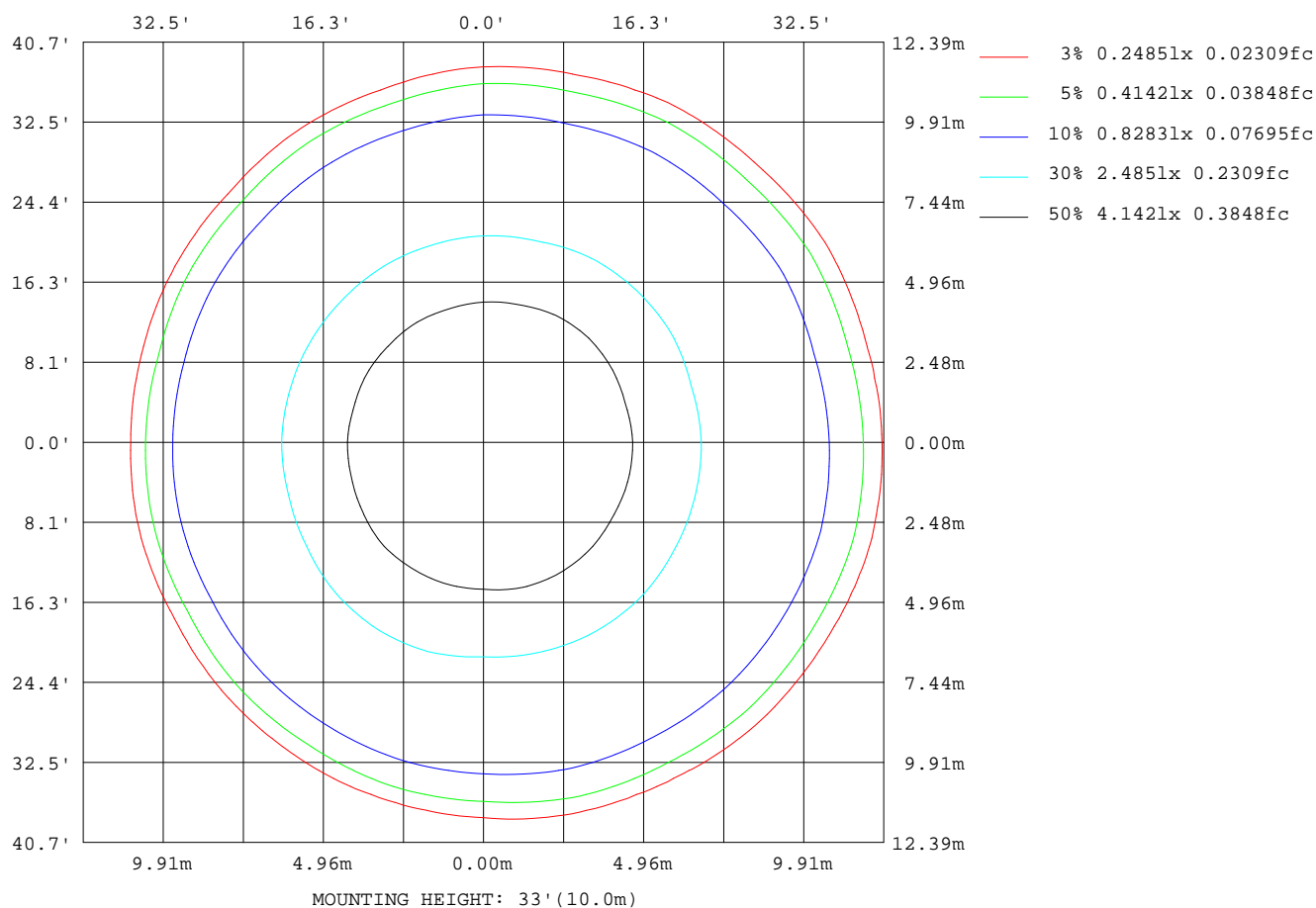
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-08-25

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

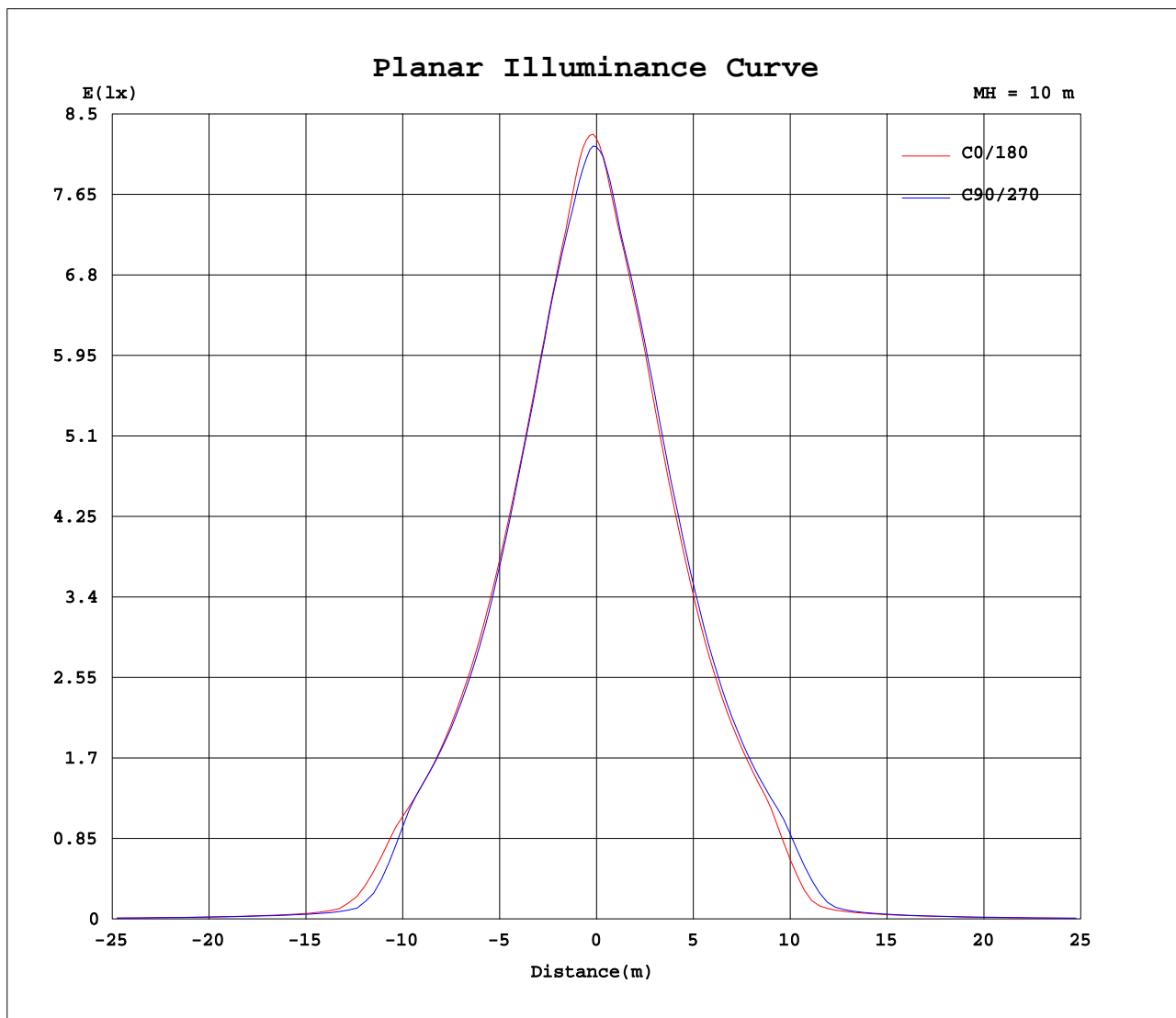
| | | |
|---|--------|-------------------|
| Test:U:226.6V I:0.0650A P:11.90W PF:0.8090 Lamp Flux:1032.14x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZhangXiao
Test Date: 2016-08-25

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: 2016-08-25

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:226.6V I:0.0650A P:11.90W PF:0.8090 Lamp Flux:1032.14x1 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 | 817 | 817 | 817 | 817 | 817 | 817 | 817 | 817 | 817 | 817 | 817 | 817 | 817 | 817 | 817 | 817 | 817 | 817 | 817 |
| 5 | 804 | 805 | 802 | 803 | 798 | 797 | 791 | 784 | 778 | 772 | 765 | 761 | 757 | 753 | 755 | 753 | 760 | 763 | 773 |
| 10 | 737 | 740 | 740 | 743 | 743 | 744 | 739 | 734 | 726 | 721 | 711 | 704 | 698 | 693 | 693 | 692 | 698 | 704 | 714 |
| 15 | 676 | 680 | 679 | 686 | 689 | 690 | 680 | 673 | 667 | 664 | 650 | 641 | 637 | 633 | 635 | 633 | 642 | 645 | 656 |
| 20 | 611 | 614 | 617 | 624 | 626 | 625 | 613 | 607 | 603 | 600 | 585 | 572 | 564 | 560 | 564 | 565 | 572 | 574 | 586 |
| 25 | 546 | 549 | 548 | 556 | 559 | 556 | 543 | 541 | 536 | 533 | 515 | 504 | 495 | 491 | 493 | 494 | 503 | 506 | 517 |
| 30 | 481 | 487 | 481 | 491 | 490 | 485 | 473 | 479 | 474 | 466 | 445 | 434 | 428 | 425 | 426 | 428 | 435 | 440 | 449 |
| 35 | 420 | 423 | 428 | 433 | 430 | 423 | 415 | 422 | 417 | 403 | 383 | 374 | 369 | 365 | 365 | 365 | 372 | 379 | 388 |
| 40 | 362 | 369 | 377 | 382 | 377 | 372 | 365 | 368 | 362 | 346 | 328 | 321 | 314 | 310 | 310 | 310 | 317 | 324 | 334 |
| 45 | 304 | 315 | 319 | 317 | 308 | 301 | 276 | 261 | 237 | 218 | 193 | 187 | 176 | 172 | 185 | 191 | 214 | 229 | 254 |
| 50 | 135 | 145 | 127 | 118 | 95.4 | 82.9 | 71.9 | 55.6 | 47.5 | 45.5 | 42.9 | 42.9 | 42.2 | 41.8 | 44.0 | 45.1 | 49.6 | 60.3 | 67.1 |
| 55 | 38.4 | 38.7 | 37.4 | 36.7 | 34.5 | 33.1 | 31.6 | 30.8 | 30.0 | 29.6 | 29.0 | 28.9 | 28.9 | 28.9 | 29.7 | 29.8 | 31.0 | 31.4 | 32.6 |
| 60 | 28.6 | 28.7 | 28.4 | 28.3 | 27.6 | 27.1 | 26.3 | 25.6 | 24.9 | 24.6 | 24.2 | 23.9 | 23.8 | 23.7 | 24.1 | 24.0 | 24.8 | 25.0 | 25.7 |
| 65 | 24.2 | 24.5 | 24.3 | 24.3 | 23.8 | 23.6 | 22.4 | 21.4 | 20.0 | 19.8 | 19.5 | 19.3 | 18.9 | 18.7 | 19.3 | 19.3 | 20.1 | 20.6 | 21.5 |
| 70 | 18.5 | 18.7 | 18.3 | 18.2 | 17.5 | 17.1 | 16.5 | 15.8 | 15.1 | 14.6 | 14.3 | 14.3 | 14.3 | 14.2 | 14.3 | 14.4 | 14.8 | 15.2 | 15.8 |
| 75 | 14.9 | 15.0 | 14.8 | 14.7 | 14.2 | 13.8 | 12.9 | 12.5 | 11.7 | 11.4 | 11.1 | 11.1 | 11.3 | 11.4 | 11.6 | 11.8 | 12.2 | 12.5 | 13.0 |
| 80 | 11.5 | 11.5 | 11.2 | 11.0 | 10.5 | 10.2 | 9.60 | 9.13 | 8.70 | 8.56 | 8.33 | 8.36 | 8.59 | 8.81 | 9.10 | 9.28 | 9.65 | 9.93 | 10.3 |
| 85 | 8.66 | 8.65 | 8.25 | 8.04 | 7.44 | 6.72 | 5.80 | 5.12 | 3.99 | 3.83 | 3.71 | 3.57 | 3.55 | 3.81 | 4.59 | 5.07 | 6.18 | 6.66 | 7.32 |
| 90 | 2.91 | 2.70 | 2.02 | 1.85 | 1.71 | 1.67 | 1.69 | 1.72 | 1.72 | 1.76 | 1.75 | 1.77 | 1.99 | 1.97 | 1.97 | 1.96 | 1.94 | 1.93 | 1.93 |
| 95 | 1.80 | 1.80 | 1.79 | 1.81 | 1.81 | 1.85 | 1.87 | 1.91 | 1.92 | 1.96 | 1.95 | 1.97 | 2.22 | 2.21 | 2.21 | 2.18 | 2.17 | 2.14 | 2.13 |
| 100 | 1.99 | 2.00 | 2.00 | 2.01 | 2.03 | 2.07 | 2.10 | 2.14 | 2.16 | 2.19 | 2.19 | 2.21 | 2.50 | 2.49 | 2.49 | 2.46 | 2.45 | 2.42 | 2.40 |
| 105 | 2.25 | 2.26 | 2.25 | 2.27 | 2.29 | 2.33 | 2.36 | 2.41 | 2.43 | 2.46 | 2.47 | 2.50 | 2.80 | 2.80 | 2.79 | 2.77 | 2.75 | 2.72 | 2.70 |
| 110 | 2.55 | 2.54 | 2.54 | 2.56 | 2.58 | 2.62 | 2.66 | 2.70 | 2.73 | 2.77 | 2.79 | 2.81 | 3.14 | 3.14 | 3.12 | 3.10 | 3.08 | 3.05 | 3.03 |
| 115 | 2.88 | 2.88 | 2.87 | 2.89 | 2.92 | 2.96 | 3.00 | 3.05 | 3.09 | 3.12 | 3.15 | 3.17 | 3.49 | 3.49 | 3.48 | 3.46 | 3.43 | 3.41 | 3.37 |
| 120 | 3.27 | 3.26 | 3.25 | 3.26 | 3.29 | 3.34 | 3.38 | 3.43 | 3.47 | 3.51 | 3.54 | 3.56 | 3.88 | 3.88 | 3.86 | 3.84 | 3.82 | 3.79 | 3.76 |
| 125 | 3.68 | 3.66 | 3.65 | 3.66 | 3.69 | 3.74 | 3.78 | 3.82 | 3.87 | 3.92 | 3.96 | 3.97 | 4.30 | 4.29 | 4.28 | 4.25 | 4.23 | 4.19 | 4.16 |
| 130 | 4.10 | 4.09 | 4.08 | 4.08 | 4.11 | 4.15 | 4.19 | 4.24 | 4.30 | 4.33 | 4.38 | 4.41 | 4.72 | 4.71 | 4.70 | 4.68 | 4.65 | 4.61 | 4.57 |
| 135 | 4.53 | 4.52 | 4.50 | 4.51 | 4.54 | 4.57 | 4.62 | 4.66 | 4.71 | 4.76 | 4.80 | 4.84 | 5.14 | 5.12 | 5.12 | 5.09 | 5.06 | 5.02 | 4.98 |
| 140 | 4.96 | 4.95 | 4.93 | 4.94 | 4.96 | 4.99 | 5.02 | 5.07 | 5.12 | 5.16 | 5.20 | 5.24 | 5.51 | 5.49 | 5.48 | 5.45 | 5.43 | 5.38 | 5.36 |
| 145 | 5.36 | 5.35 | 5.32 | 5.33 | 5.33 | 5.36 | 5.38 | 5.42 | 5.46 | 5.51 | 5.54 | 5.57 | 5.79 | 5.78 | 5.77 | 5.73 | 5.70 | 5.67 | 5.64 |
| 150 | 5.69 | 5.68 | 5.65 | 5.65 | 5.64 | 5.67 | 5.70 | 5.73 | 5.77 | 5.81 | 5.84 | 5.87 | 6.05 | 6.05 | 6.02 | 5.98 | 5.96 | 5.92 | 5.89 |
| 155 | 6.02 | 6.02 | 5.99 | 5.99 | 5.99 | 6.02 | 6.04 | 6.07 | 6.11 | 6.14 | 6.17 | 6.20 | 6.37 | 6.35 | 6.33 | 6.29 | 6.26 | 6.22 | 6.19 |
| 160 | 6.35 | 6.36 | 6.33 | 6.32 | 6.33 | 6.36 | 6.37 | 6.39 | 6.42 | 6.46 | 6.49 | 6.51 | 6.67 | 6.65 | 6.63 | 6.59 | 6.56 | 6.52 | 6.50 |
| 165 | 6.68 | 6.68 | 6.66 | 6.66 | 6.65 | 6.67 | 6.69 | 6.72 | 6.74 | 6.78 | 6.79 | 6.82 | 6.96 | 6.94 | 6.92 | 6.87 | 6.85 | 6.81 | 6.79 |
| 170 | 6.99 | 7.01 | 6.97 | 6.98 | 6.97 | 6.99 | 7.01 | 7.03 | 7.05 | 7.08 | 7.08 | 7.10 | 7.22 | 7.20 | 7.18 | 7.14 | 7.13 | 7.10 | 7.08 |
| 175 | 7.30 | 7.31 | 7.26 | 7.27 | 7.26 | 7.29 | 7.29 | 7.31 | 7.32 | 7.34 | 7.34 | 7.35 | 7.44 | 7.41 | 7.39 | 7.36 | 7.36 | 7.33 | 7.33 |
| 180 | 7.51 | 7.53 | 7.48 | 7.48 | 7.46 | 7.48 | 7.47 | 7.48 | 7.47 | 7.47 | 7.45 | 7.46 | 7.54 | 7.51 | 7.50 | 7.46 | 7.47 | 7.47 | 7.48 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-08-25

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:226.6V I:0.0650A P:11.90W PF:0.8090 Lamp Flux:1032.14x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.: |
| MFR.: Rayconn | SUR.: | PROTECTION ANGLE: |

Table--2

UNIT: cd

| C(DEC) γ (DEC) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 817 | 817 | 817 | 817 | 817 | | | | | | | | | | | | | |
| 5 | 777 | 786 | 791 | 797 | 797 | | | | | | | | | | | | | |
| 10 | 717 | 726 | 729 | 733 | 732 | | | | | | | | | | | | | |
| 15 | 661 | 672 | 676 | 680 | 674 | | | | | | | | | | | | | |
| 20 | 591 | 605 | 611 | 616 | 611 | | | | | | | | | | | | | |
| 25 | 524 | 542 | 549 | 549 | 545 | | | | | | | | | | | | | |
| 30 | 456 | 475 | 483 | 484 | 478 | | | | | | | | | | | | | |
| 35 | 393 | 409 | 419 | 424 | 418 | | | | | | | | | | | | | |
| 40 | 336 | 348 | 359 | 372 | 363 | | | | | | | | | | | | | |
| 45 | 261 | 285 | 294 | 309 | 299 | | | | | | | | | | | | | |
| 50 | 76.9 | 99.0 | 107 | 130 | 125 | | | | | | | | | | | | | |
| 55 | 33.6 | 35.3 | 35.9 | 37.4 | 37.2 | | | | | | | | | | | | | |
| 60 | 26.2 | 27.2 | 27.5 | 28.2 | 28.1 | | | | | | | | | | | | | |
| 65 | 22.1 | 22.9 | 23.3 | 23.8 | 23.8 | | | | | | | | | | | | | |
| 70 | 16.2 | 17.1 | 17.5 | 18.1 | 18.2 | | | | | | | | | | | | | |
| 75 | 13.3 | 13.9 | 14.2 | 14.6 | 14.7 | | | | | | | | | | | | | |
| 80 | 10.6 | 11.0 | 11.2 | 11.4 | 11.4 | | | | | | | | | | | | | |
| 85 | 7.67 | 8.21 | 8.40 | 8.69 | 8.66 | | | | | | | | | | | | | |
| 90 | 2.06 | 2.38 | 2.48 | 3.06 | 3.09 | | | | | | | | | | | | | |
| 95 | 2.09 | 2.08 | 2.04 | 2.03 | 2.00 | | | | | | | | | | | | | |
| 100 | 2.35 | 2.33 | 2.29 | 2.27 | 2.24 | | | | | | | | | | | | | |
| 105 | 2.65 | 2.62 | 2.59 | 2.56 | 2.53 | | | | | | | | | | | | | |
| 110 | 2.98 | 2.94 | 2.91 | 2.87 | 2.84 | | | | | | | | | | | | | |
| 115 | 3.33 | 3.29 | 3.25 | 3.22 | 3.18 | | | | | | | | | | | | | |
| 120 | 3.71 | 3.66 | 3.62 | 3.58 | 3.54 | | | | | | | | | | | | | |
| 125 | 4.11 | 4.07 | 4.02 | 3.98 | 3.94 | | | | | | | | | | | | | |
| 130 | 4.52 | 4.47 | 4.43 | 4.39 | 4.35 | | | | | | | | | | | | | |
| 135 | 4.93 | 4.89 | 4.84 | 4.80 | 4.77 | | | | | | | | | | | | | |
| 140 | 5.30 | 5.27 | 5.24 | 5.20 | 5.17 | | | | | | | | | | | | | |
| 145 | 5.60 | 5.57 | 5.55 | 5.52 | 5.51 | | | | | | | | | | | | | |
| 150 | 5.84 | 5.81 | 5.79 | 5.78 | 5.77 | | | | | | | | | | | | | |
| 155 | 6.14 | 6.11 | 6.08 | 6.07 | 6.06 | | | | | | | | | | | | | |
| 160 | 6.45 | 6.43 | 6.40 | 6.38 | 6.38 | | | | | | | | | | | | | |
| 165 | 6.74 | 6.73 | 6.70 | 6.69 | 6.68 | | | | | | | | | | | | | |
| 170 | 7.03 | 7.01 | 6.99 | 6.99 | 6.98 | | | | | | | | | | | | | |
| 175 | 7.29 | 7.29 | 7.26 | 7.25 | 7.25 | | | | | | | | | | | | | |
| 180 | 7.47 | 7.47 | 7.46 | 7.46 | 7.46 | | | | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangXiao
Test Date:2016-08-25

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: