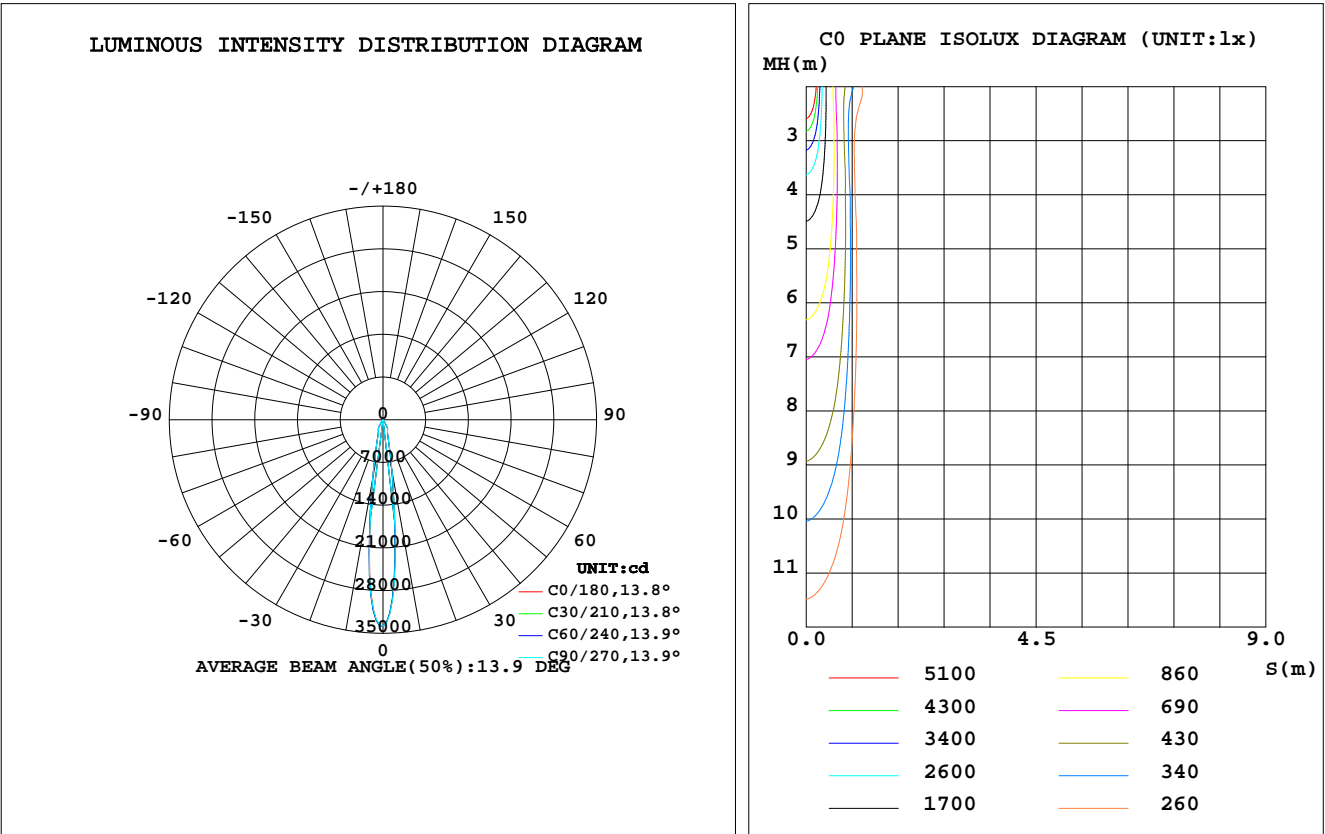


LUMINAIRE PHOTOMETRIC TEST REPORT

|   |        |                   |
|---|--------|-------------------|
| Test:U:226.6V I:0.1800A P:38.70W PF:0.9490 Lamp Flux:4213.72x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP     |                   | PHOTOMETRIC DATA Eff: 108.88 lm/W |        |                   |          |
|------------------|-------------------|-----------------------------------|--------|-------------------|----------|
| MODEL            | GL10-40W-830-W-15 | Imax(cd)                          | 33825  | S/MH(C0/180)      | 0.23     |
| NOMINAL POWER(W) | 40                | LOR(%)                            | 100.0  | S/MH(C90/270)     | 0.23     |
| RATED VOLTAGE(V) | 226               | TOTAL FLUX(lm)                    | 4213.7 | η UP,DN(C0-180)   | 1.3,47.6 |
| NOMINAL FLUX(lm) | 4213.72           | CIE CLASS                         | DIRECT | η UP,DN(C180-360) | 1.4,49.8 |
| LAMPS INSIDE     | 1                 | η up(%)                           | 2.7    | CIBSE SHR NOM     | 0.00     |
| TEST VOLTAGE(V)  | 226.6             | η down(%)                         | 97.3   | CIBSE SHR MAX     | 1.00     |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-07-28

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:

| $\gamma$ | C0                       | C45    | C90    | C135   | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | $\%lum, lamp$ |
|----------|--------------------------|--------|--------|--------|-------|-------|-------|-------|----------|-------------|--------------|---------------|
| 10       | 848.5                    | 841.6  | 851.0  | 935.7  | 963.5 | 950.3 | 980.2 | 897.4 | 0- 10    | 1758        | 1758         | 41.7,41.7     |
| 20       | 219.3                    | 219.5  | 222.0  | 223.5  | 228.3 | 227.3 | 228.9 | 224.0 | 10- 20   | 1147        | 2905         | 69,69         |
| 30       | 125.6                    | 127.3  | 125.6  | 135.3  | 139.4 | 138.0 | 138.5 | 129.1 | 20- 30   | 824.0       | 3729         | 88.5,88.5     |
| 40       | 7.155                    | 6.903  | 7.793  | 8.336  | 8.362 | 8.272 | 8.336 | 7.517 | 30- 40   | 290.8       | 4020         | 95.4,95.4     |
| 50       | 1.582                    | 1.594  | 1.687  | 1.814  | 1.592 | 1.511 | 1.705 | 1.791 | 40- 50   | 26.10       | 4046         | 96,96         |
| 60       | 1.587                    | 1.616  | 1.670  | 1.688  | 1.534 | 1.605 | 1.561 | 1.637 | 50- 60   | 13.91       | 4060         | 96.4,96.4     |
| 70       | 1.367                    | 1.370  | 1.397  | 1.451  | 1.376 | 1.386 | 1.367 | 1.382 | 60- 70   | 15.81       | 4076         | 96.7,96.7     |
| 80       | 1.199                    | 1.175  | 1.190  | 1.210  | 1.179 | 1.189 | 1.189 | 1.227 | 70- 80   | 13.29       | 4089         | 97,97         |
| 90       | 0.9586                   | 0.8524 | 0.8504 | 0.8593 | 1.180 | 1.020 | 1.019 | 1.034 | 80- 90   | 12.13       | 4101         | 97.3,97.3     |
| 100      | 0.6498                   | 0.6151 | 0.6169 | 0.6141 | 1.073 | 1.047 | 1.046 | 1.054 | 90-100   | 9.598       | 4111         | 97.6,97.6     |
| 110      | 0.9045                   | 0.8990 | 0.9038 | 0.8868 | 1.149 | 1.147 | 1.140 | 1.150 | 100-110  | 9.670       | 4121         | 97.8,97.8     |
| 120      | 1.146                    | 1.144  | 1.150  | 1.134  | 1.338 | 1.340 | 1.332 | 1.349 | 110-120  | 11.16       | 4132         | 98.1,98.1     |
| 130      | 1.837                    | 1.836  | 1.839  | 1.791  | 1.926 | 1.919 | 1.918 | 1.959 | 120-130  | 13.35       | 4145         | 98.4,98.4     |
| 140      | 2.911                    | 2.925  | 2.908  | 2.879  | 2.926 | 2.914 | 2.913 | 2.939 | 130-140  | 18.68       | 4164         | 98.8,98.8     |
| 150      | 3.360                    | 3.420  | 3.356  | 3.352  | 3.436 | 3.396 | 3.421 | 3.408 | 140-150  | 20.03       | 4184         | 99.3,99.3     |
| 160      | 3.564                    | 3.567  | 3.568  | 3.562  | 3.586 | 3.575 | 3.580 | 3.587 | 150-160  | 16.12       | 4200         | 99.7,99.7     |
| 170      | 3.610                    | 3.617  | 3.614  | 3.629  | 3.657 | 3.653 | 3.655 | 3.644 | 160-170  | 10.28       | 4210         | 99.9,99.9     |
| 180      | 3.280                    | 3.303  | 3.316  | 3.326  | 3.292 | 3.297 | 3.320 | 3.324 | 170-180  | 3.357       | 4214         | 100,100       |
| DEG      | LUMINOUS INTENSITY:×10cd |        |        |        |       |       |       |       |          | UNIT:lm     |              |               |

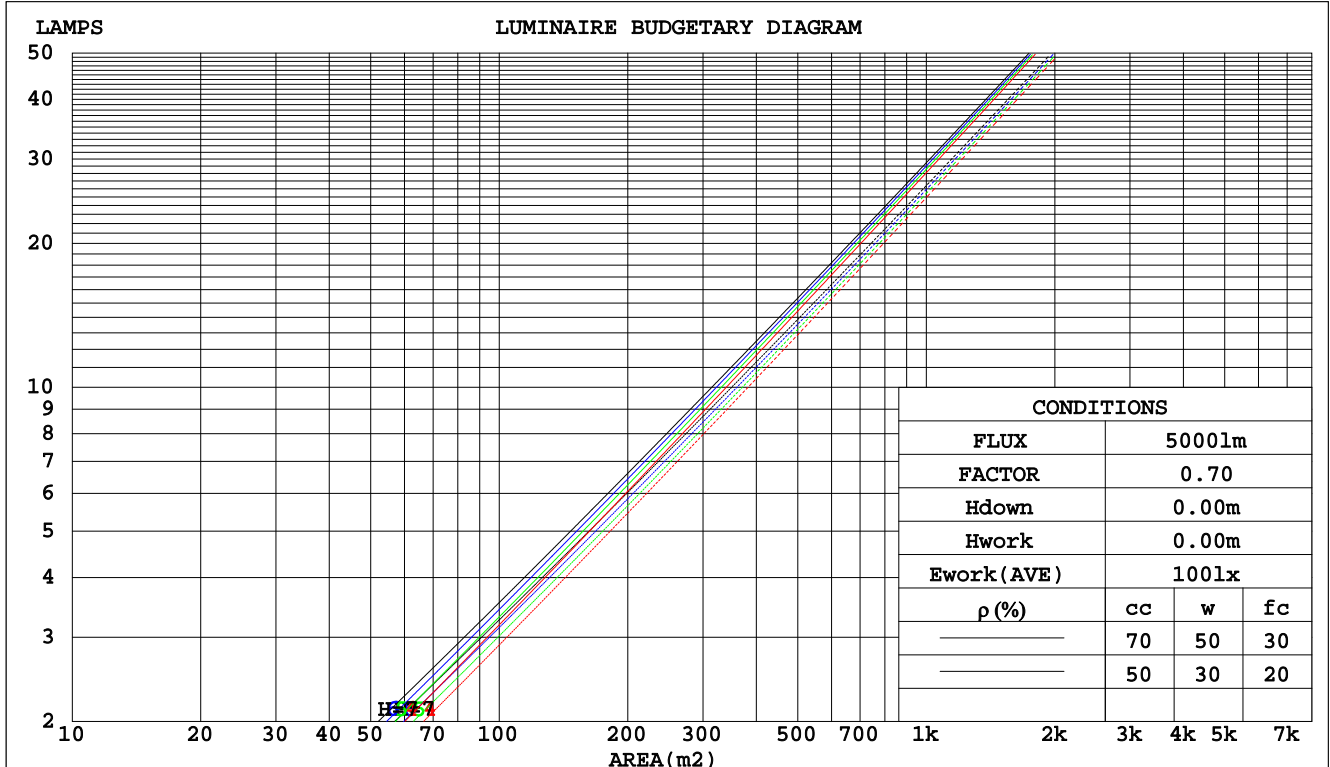
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-07-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  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:0.1800A P:38.70W PF:0.9490 Lamp Flux:4213.72x1 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  | 1.12                  | 1.10 | 1.08 | 1.09 | 1.08 | 1.06 | 1.05                            | 1.04 | 1.02 | 1.01 | .00  | .99  | .97 | .96 | .95 | .94 |
| 2.0  | 1.06                  | 1.03 | 1.00 | 1.04 | 1.02 | .99  | 1.01                            | .99  | .97  | .98  | .96  | .94  | .94 | .93 | .92 | .90 |
| 3.0  | 1.01                  | .98  | .95  | .00  | .96  | .94  | .97                             | .94  | .92  | .94  | .92  | .90  | .92 | .90 | .89 | .87 |
| 4.0  | .97                   | .93  | .90  | .96  | .92  | .89  | .94                             | .91  | .88  | .92  | .89  | .87  | .89 | .87 | .86 | .84 |
| 5.0  | .94                   | .89  | .86  | .93  | .89  | .86  | .91                             | .87  | .85  | .89  | .86  | .84  | .87 | .85 | .83 | .82 |
| 6.0  | .90                   | .86  | .83  | .89  | .85  | .82  | .88                             | .84  | .82  | .86  | .83  | .81  | .85 | .82 | .80 | .79 |
| 7.0  | .87                   | .83  | .80  | .87  | .82  | .80  | .85                             | .82  | .79  | .84  | .81  | .78  | .83 | .80 | .78 | .77 |
| 8.0  | .85                   | .80  | .77  | .84  | .80  | .77  | .83                             | .79  | .77  | .82  | .79  | .76  | .81 | .78 | .76 | .75 |
| 9.0  | .82                   | .78  | .75  | .82  | .78  | .75  | .81                             | .77  | .74  | .80  | .76  | .74  | .79 | .76 | .74 | .73 |
| 10.0 | .80                   | .76  | .73  | .79  | .75  | .73  | .78                             | .75  | .73  | .78  | .74  | .72  | .77 | .74 | .72 | .71 |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-07-28

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:0.1800A P:38.70W PF:0.9490 Lamp Flux:4213.72x1 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  | .145                  | .083 | .026 | .138 | .079 | .025 | .124                            | .071 | .023 | .111 | .064 | .021 | .099 | .058 | .019 |   |
| 2.0  | .134                  | .073 | .023 | .128 | .070 | .022 | .116                            | .065 | .020 | .105 | .059 | .018 | .095 | .054 | .017 |   |
| 3.0  | .124                  | .066 | .020 | .119 | .064 | .019 | .109                            | .059 | .018 | .100 | .055 | .017 | .092 | .051 | .016 |   |
| 4.0  | .116                  | .060 | .018 | .112 | .058 | .017 | .103                            | .055 | .016 | .095 | .051 | .015 | .088 | .048 | .015 |   |
| 5.0  | .109                  | .056 | .016 | .105 | .054 | .016 | .098                            | .051 | .015 | .091 | .048 | .014 | .085 | .045 | .014 |   |
| 6.0  | .103                  | .052 | .015 | .099 | .050 | .014 | .093                            | .048 | .014 | .087 | .045 | .013 | .081 | .043 | .013 |   |
| 7.0  | .097                  | .048 | .014 | .094 | .047 | .013 | .089                            | .045 | .013 | .083 | .043 | .012 | .079 | .041 | .012 |   |
| 8.0  | .093                  | .045 | .013 | .090 | .044 | .013 | .085                            | .042 | .012 | .080 | .041 | .012 | .076 | .039 | .011 |   |
| 9.0  | .088                  | .043 | .012 | .086 | .042 | .012 | .081                            | .040 | .011 | .077 | .039 | .011 | .073 | .037 | .011 |   |
| 10.0 | .084                  | .040 | .011 | .082 | .040 | .011 | .078                            | .038 | .011 | .074 | .037 | .010 | .071 | .036 | .010 |   |

|      |                       |      |      |      |      |      |  |      |      |      |      |      |      |      |      |   |  |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|--|
| 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  | .189                  | .178 | .168 | .162 | .153 | .144 | .111                                       | .105 | .100 | .064 | .061 | .058 | .020 | .020 | .019 |   |  |
| 2.0  | .172                  | .153 | .138 | .147 | .132 | .119 | .101                                       | .091 | .083 | .058 | .053 | .049 | .019 | .017 | .016 |   |  |
| 3.0  | .157                  | .134 | .116 | .135 | .116 | .100 | .092                                       | .080 | .070 | .053 | .047 | .041 | .017 | .015 | .014 |   |  |
| 4.0  | .145                  | .119 | .099 | .124 | .103 | .086 | .085                                       | .072 | .061 | .049 | .042 | .036 | .016 | .014 | .012 |   |  |
| 5.0  | .134                  | .107 | .086 | .116 | .092 | .075 | .080                                       | .064 | .053 | .046 | .038 | .031 | .015 | .012 | .010 |   |  |
| 6.0  | .126                  | .097 | .076 | .108 | .084 | .066 | .075                                       | .059 | .047 | .043 | .035 | .028 | .014 | .011 | .009 |   |  |
| 7.0  | .118                  | .089 | .068 | .102 | .077 | .059 | .070                                       | .054 | .042 | .041 | .032 | .025 | .013 | .010 | .008 |   |  |
| 8.0  | .112                  | .082 | .062 | .096 | .071 | .054 | .066                                       | .050 | .038 | .039 | .029 | .023 | .013 | .010 | .008 |   |  |
| 9.0  | .106                  | .076 | .056 | .091 | .066 | .049 | .063                                       | .047 | .035 | .037 | .028 | .021 | .012 | .009 | .007 |   |  |
| 10.0 | .101                  | .072 | .052 | .087 | .062 | .045 | .060                                       | .044 | .032 | .035 | .026 | .019 | .011 | .008 | .006 |   |  |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-07-28

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:0.1800A P:38.70W PF:0.9490 Lamp Flux:4213.72x1 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   | 14.5          | 15.2             | 14.8 | 15.4 | 15.6   | 14.5          | 15.2           | 14.8              | 15.4 | 15.6 |      |
|   | 3H            | 14.7             | 15.3 | 14.9 | 15.5   | 15.7          | 14.7           | 15.3              | 15.0 | 15.5 | 15.8 |
|   | 4H            | 14.8             | 15.4 | 15.1 | 15.7   | 15.9          | 14.8           | 15.4              | 15.1 | 15.7 | 15.9 |
|   | 6H            | 15.1             | 15.7 | 15.5 | 16.0   | 16.3          | 15.1           | 15.7              | 15.5 | 16.0 | 16.3 |
|   | 8H            | 15.4             | 15.9 | 15.7 | 16.2   | 16.5          | 15.4           | 15.9              | 15.7 | 16.2 | 16.5 |
|   | 12H           | 16.0             | 16.5 | 16.4 | 16.8   | 17.2          | 15.8           | 16.3              | 16.1 | 16.6 | 16.9 |
| 4H  | 2H            | 14.4             | 15.0 | 14.7 | 15.2   | 15.5          | 14.4           | 15.0              | 14.7 | 15.2 | 15.5 |
|   | 3H            | 14.6             | 15.2 | 15.0 | 15.5   | 15.8          | 14.7           | 15.2              | 15.0 | 15.5 | 15.8 |
|   | 4H            | 14.9             | 15.4 | 15.3 | 15.7   | 16.1          | 14.9           | 15.4              | 15.3 | 15.7 | 16.1 |
|   | 6H            | 15.5             | 15.9 | 15.9 | 16.3   | 16.7          | 15.4           | 15.9              | 15.9 | 16.2 | 16.6 |
|   | 8H            | 15.9             | 16.3 | 16.3 | 16.7   | 17.1          | 15.9           | 16.2              | 16.3 | 16.6 | 17.1 |
|   | 12H           | 16.7             | 17.1 | 17.2 | 17.5   | 18.0          | 16.4           | 16.8              | 16.9 | 17.2 | 17.6 |
| 8H  | 4H            | 15.0             | 15.4 | 15.4 | 15.8   | 16.2          | 15.0           | 15.4              | 15.4 | 15.8 | 16.2 |
|   | 6H            | 15.8             | 16.1 | 16.2 | 16.5   | 17.0          | 15.7           | 16.1              | 16.2 | 16.5 | 17.0 |
|   | 8H            | 16.4             | 16.7 | 16.9 | 17.1   | 17.6          | 16.3           | 16.6              | 16.8 | 17.1 | 17.6 |
|   | 12H           | 17.4             | 17.7 | 18.0 | 18.2   | 18.7          | 17.1           | 17.4              | 17.7 | 17.9 | 18.4 |
| 12H   | 4H            | 15.0             | 15.4 | 15.5 | 15.8   | 16.2          | 15.0           | 15.4              | 15.5 | 15.8 | 16.2 |
|   | 6H            | 15.9             | 16.2 | 16.4 | 16.6   | 17.1          | 15.9           | 16.1              | 16.3 | 16.6 | 17.1 |
|   | 8H            | 16.6             | 16.8 | 17.1 | 17.3   | 17.8          | 16.5           | 16.8              | 17.1 | 17.3 | 17.8 |
| Variations with the observer position at spacings:                |               |                  |      |      |        |               |                |                   |      |      |      |
| S = 1.0H  | + 0.7 / - 0.5 |                  |      |      |        | + 0.7 / - 0.4 |                |                   |      |      |      |
| 1.5H  | + 1.6 / - 0.4 |                  |      |      |        | + 1.6 / - 0.3 |                |                   |      |      |      |
| 2.0H  | + 0.4 / - 0.3 |                  |      |      |        | + 0.3 / - 0.3 |                |                   |      |      |      |

CIE Pub.117 Corrected 4214 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.0)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-07-28

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:0.1800A P:38.70W PF:0.9490 Lamp Flux:4213.72x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

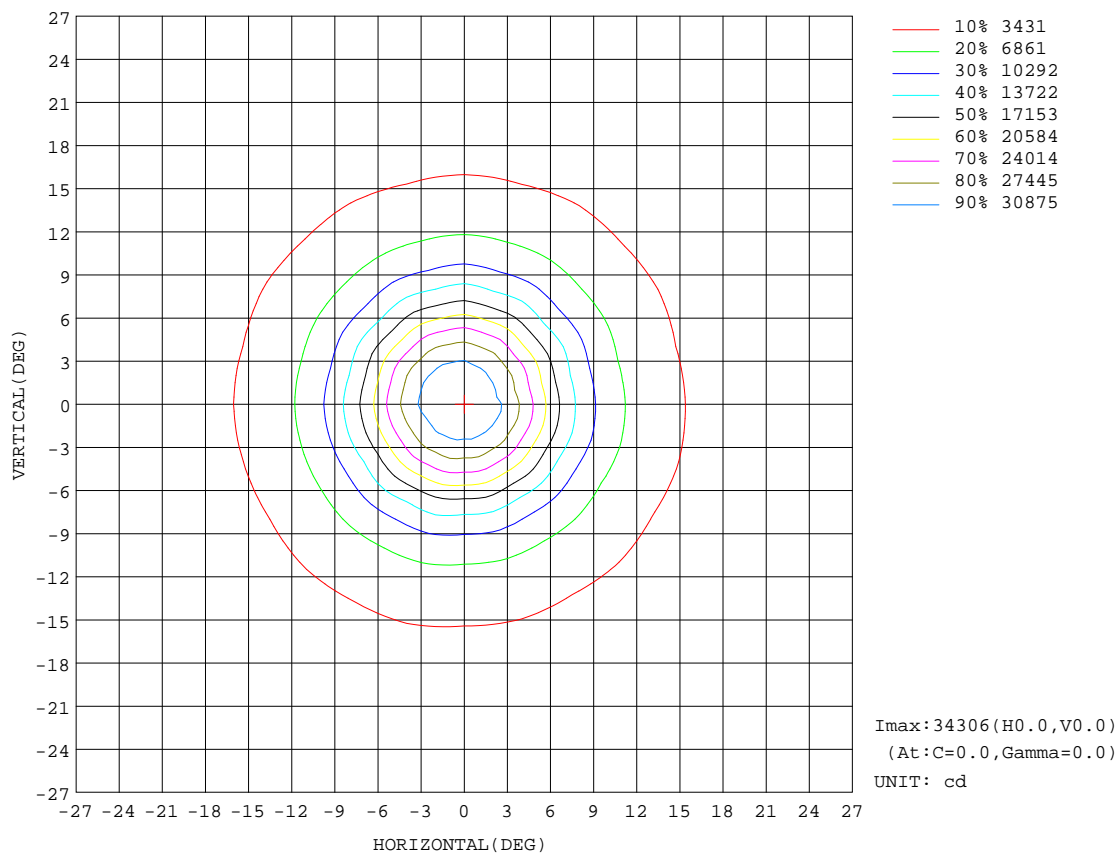
| REFLECTANCE                      |   |     |           |     |     |     |     |               |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 89  | 83  | 79        | 88  | 83  | 79  | 87  | 82            | 79  | 76     |
| 0.80                             | 96  | 90  | 87        | 95  | 90  | 87  | 94  | 89            | 86  | 83     |
| 1.00                             | 100   | 94  | 91        | 99  | 94  | 91  | 97  | 93            | 90  | 86     |
| 1.25                             | 103   | 98  | 95        | 102 | 98  | 95  | 100 | 96            | 94  | 89     |
| 1.50                             | 106   | 101 | 98        | 104 | 100 | 97  | 102 | 99            | 96  | 91     |
| 2.00                             | 108   | 104 | 101       | 107 | 103 | 100 | 104 | 101           | 98  | 93     |
| 2.50                             | 110   | 106 | 103       | 108 | 105 | 102 | 105 | 102           | 100 | 93     |
| 3.00                             | 111   | 108 | 105       | 109 | 106 | 104 | 106 | 103           | 101 | 94     |
| 4.00                             | 113   | 111 | 108       | 111 | 109 | 107 | 107 | 105           | 104 | 96     |
| 5.00                             | 115   | 112 | 111       | 112 | 110 | 109 | 108 | 106           | 105 | 97     |
| 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:2016-07-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  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:0.1800A P:38.70W PF:0.9490 Lamp Flux:4213.72x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |



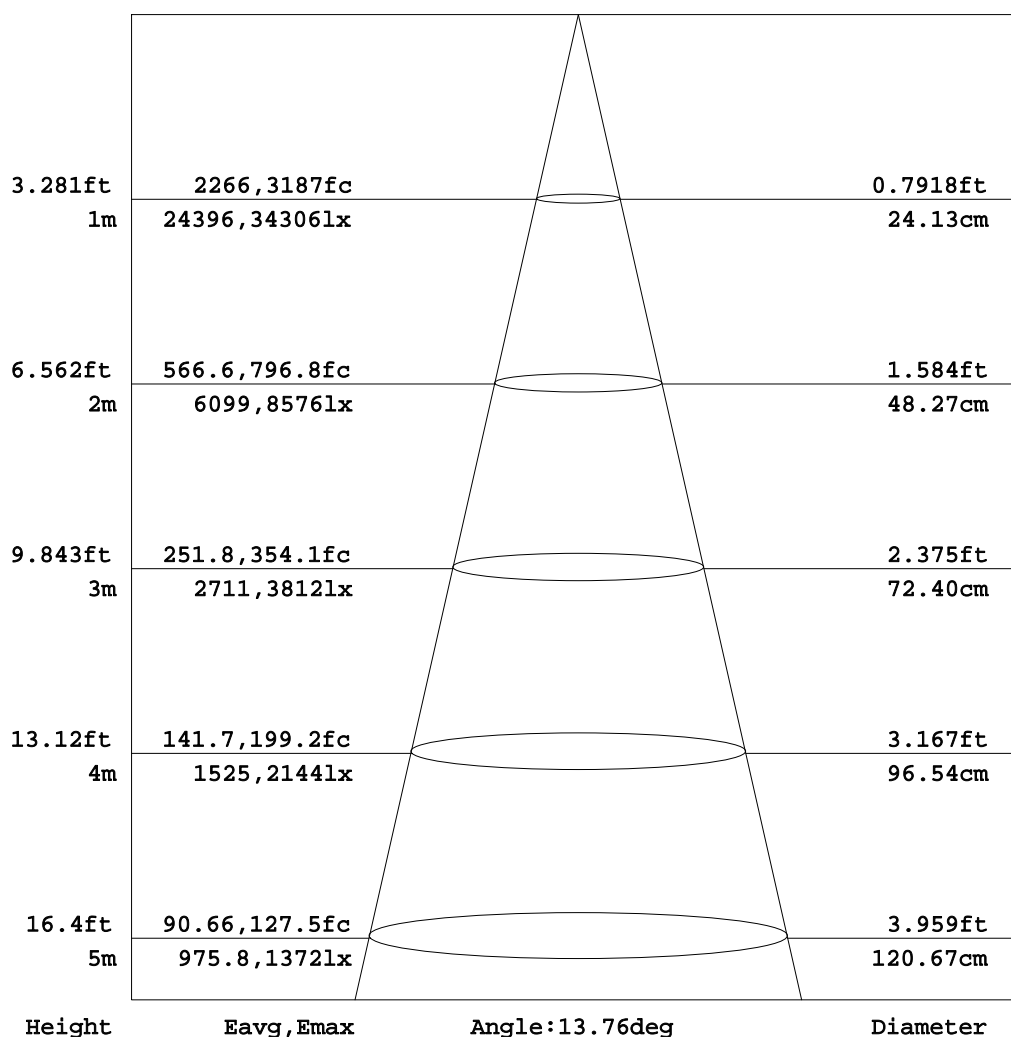
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZhangXiao  
Test Date: 2016-07-28

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:0.1800A P:38.70W PF:0.9490 Lamp Flux:4213.72x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

Flux out:1155 lm



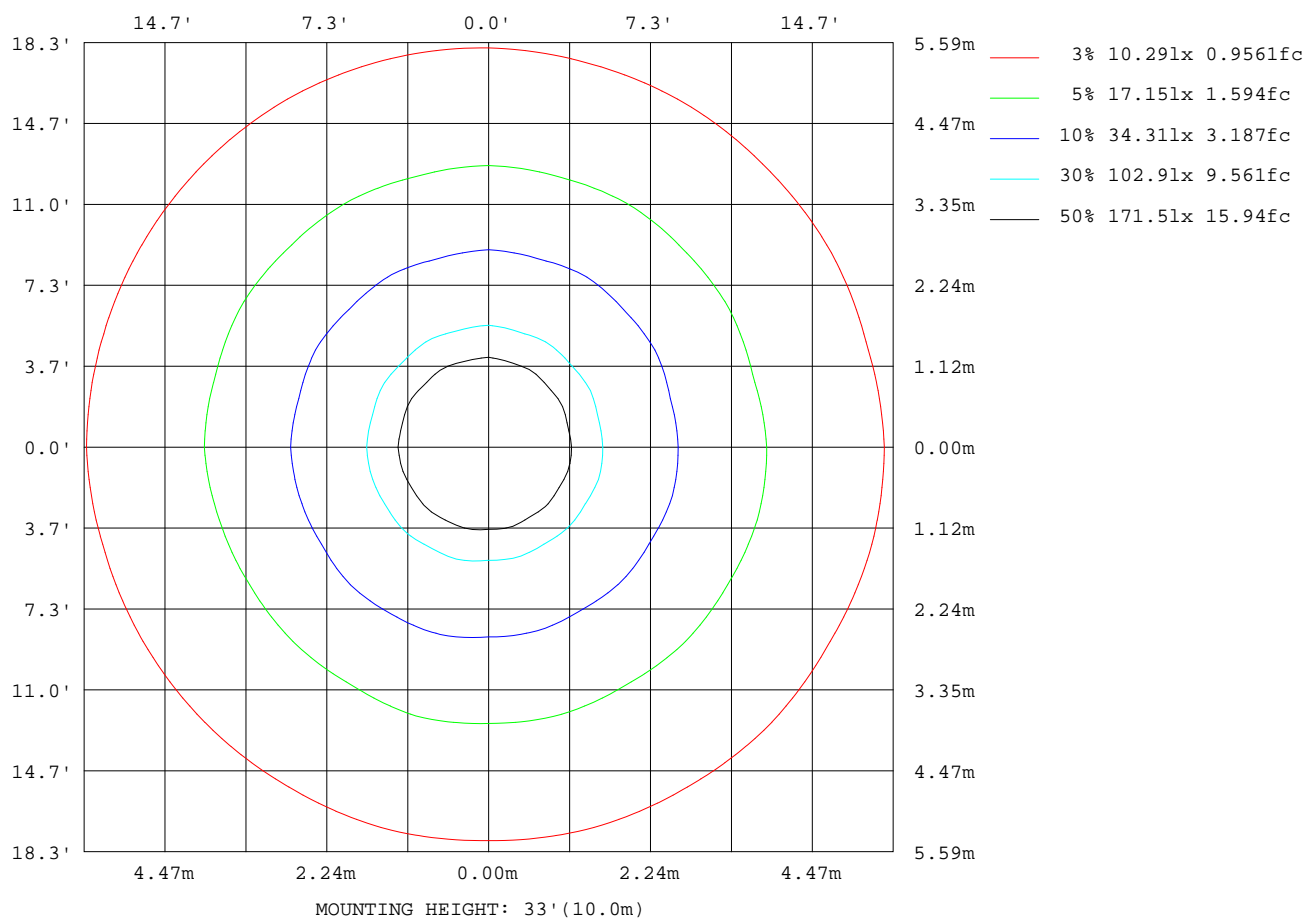
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-07-28

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

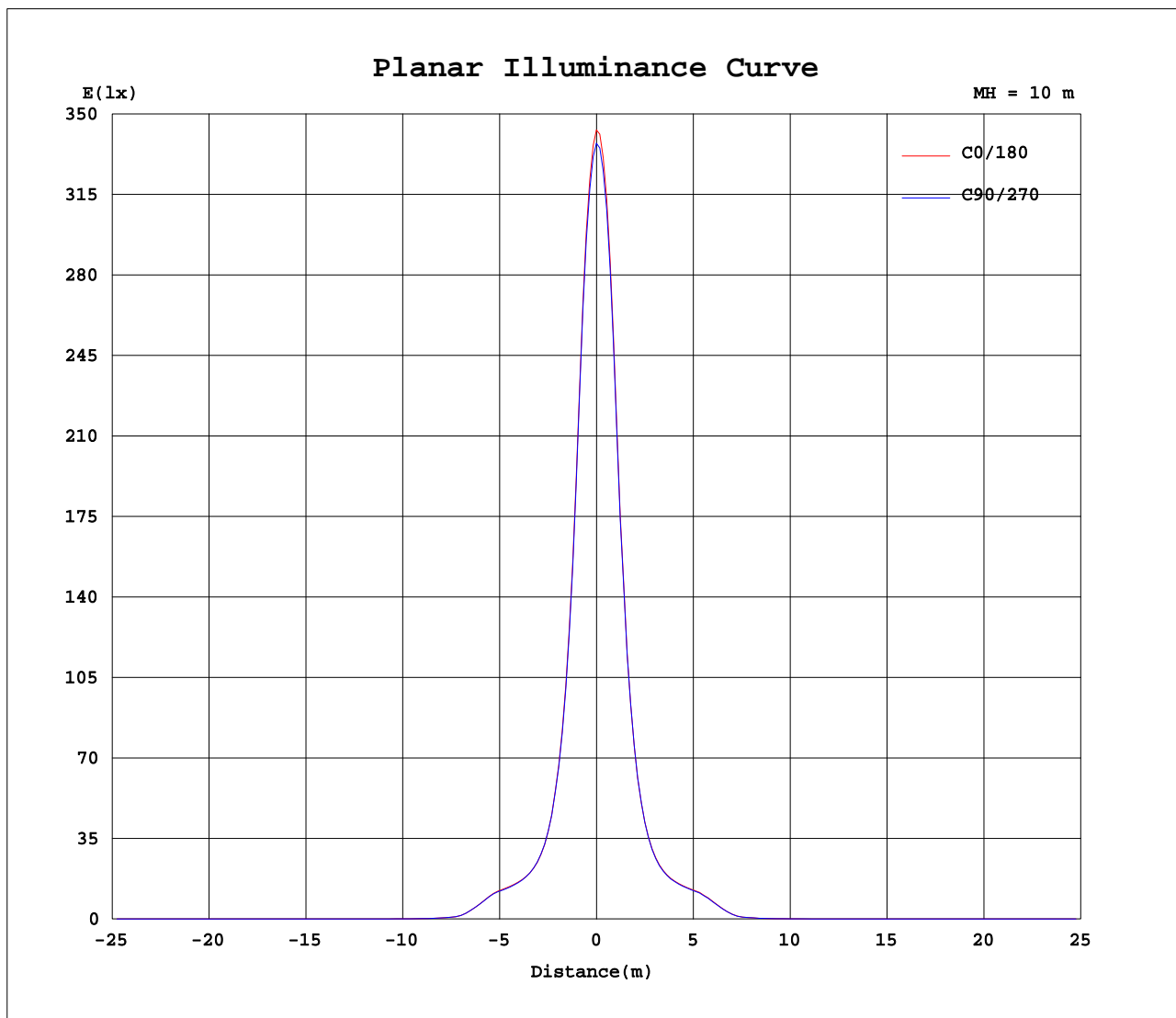
|   |        |                   |
|---|--------|-------------------|
| Test:U:226.6V I:0.1800A P:38.70W PF:0.9490 Lamp Flux:4213.72x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZhangXiao  
Test Date: 2016-07-28

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: 2016-07-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.1800A P:38.70W PF:0.9490 Lamp Flux:4213.72x1 lm |  |  |  |  |  |  |  |  |  |        |  |  |  |  |                   |  |  |  |  |
| NAME:   |  |  |  |  |  |  |  |  |  | TYPE:  |  |  |  |  | WEIGHT:           |  |  |  |  |
| DIM.:   |  |  |  |  |  |  |  |  |  | SPEC.: |  |  |  |  | SERIAL No.:       |  |  |  |  |
| MFR.: Rayconn   |  |  |  |  |  |  |  |  |  | SUR.:  |  |  |  |  | PROTECTION ANGLE: |  |  |  |  |

Table--1

UNIT: ×10cd

| C(DEG)<br>γ (DEG) | 0    | 15   | 30   | 45   | 60   | 75   | 90   | 105  | 120  | 135  | 150  | 165  | 180  | 195  | 210  | 225  | 240  | 255  | 270  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                 | 3383 | 3383 | 3383 | 3383 | 3383 | 3383 | 3383 | 3383 | 3383 | 3383 | 3383 | 3383 | 3383 | 3383 | 3383 | 3383 | 3383 | 3383 | 3383 |
| 5                 | 2290 | 2303 | 2255 | 2292 | 2265 | 2322 | 2309 | 2375 | 2376 | 2449 | 2445 | 2518 | 2522 | 2498 | 2561 | 2520 | 2566 | 2506 | 2535 |
| 10                | 849  | 856  | 823  | 842  | 819  | 852  | 851  | 897  | 895  | 936  | 925  | 959  | 963  | 936  | 983  | 950  | 990  | 948  | 980  |
| 15                | 354  | 359  | 348  | 356  | 350  | 363  | 362  | 380  | 377  | 388  | 378  | 389  | 392  | 383  | 398  | 386  | 397  | 383  | 396  |
| 20                | 219  | 220  | 218  | 219  | 218  | 222  | 222  | 226  | 222  | 224  | 223  | 227  | 228  | 226  | 231  | 227  | 230  | 225  | 229  |
| 25                | 179  | 179  | 179  | 180  | 179  | 179  | 178  | 180  | 176  | 177  | 178  | 181  | 182  | 181  | 183  | 182  | 183  | 181  | 182  |
| 30                | 126  | 128  | 123  | 127  | 126  | 129  | 126  | 132  | 129  | 135  | 134  | 139  | 139  | 136  | 140  | 138  | 142  | 138  | 138  |
| 35                | 27.7 | 29.6 | 27.6 | 30.2 | 29.3 | 31.1 | 28.9 | 32.3 | 30.8 | 35.6 | 35.5 | 38.8 | 38.3 | 36.5 | 40.8 | 39.6 | 42.7 | 38.7 | 38.2 |
| 40                | 7.16 | 7.32 | 7.38 | 6.90 | 7.07 | 7.20 | 7.79 | 7.72 | 7.59 | 8.34 | 8.41 | 8.70 | 8.36 | 8.04 | 8.53 | 8.27 | 8.61 | 8.12 | 8.34 |
| 45                | 2.48 | 2.49 | 2.37 | 2.40 | 2.39 | 2.56 | 2.60 | 2.87 | 2.90 | 3.03 | 2.94 | 3.01 | 2.87 | 2.69 | 2.83 | 2.76 | 2.95 | 2.83 | 2.97 |
| 50                | 1.58 | 1.56 | 1.56 | 1.59 | 1.61 | 1.64 | 1.69 | 1.78 | 1.83 | 1.81 | 1.74 | 1.66 | 1.59 | 1.49 | 1.50 | 1.51 | 1.57 | 1.65 | 1.70 |
| 55                | 1.48 | 1.45 | 1.48 | 1.51 | 1.54 | 1.53 | 1.57 | 1.63 | 1.65 | 1.62 | 1.56 | 1.50 | 1.43 | 1.36 | 1.36 | 1.42 | 1.38 | 1.44 | 1.50 |
| 60                | 1.59 | 1.59 | 1.60 | 1.62 | 1.64 | 1.62 | 1.67 | 1.72 | 1.73 | 1.69 | 1.66 | 1.61 | 1.53 | 1.51 | 1.51 | 1.60 | 1.48 | 1.49 | 1.56 |
| 65                | 1.64 | 1.65 | 1.65 | 1.67 | 1.68 | 1.66 | 1.71 | 1.74 | 1.73 | 1.75 | 1.75 | 1.71 | 1.64 | 1.63 | 1.64 | 1.68 | 1.63 | 1.61 | 1.62 |
| 70                | 1.37 | 1.36 | 1.35 | 1.37 | 1.37 | 1.37 | 1.40 | 1.44 | 1.44 | 1.45 | 1.44 | 1.43 | 1.38 | 1.36 | 1.38 | 1.39 | 1.38 | 1.35 | 1.37 |
| 75                | 1.25 | 1.23 | 1.23 | 1.24 | 1.24 | 1.23 | 1.25 | 1.28 | 1.29 | 1.27 | 1.26 | 1.25 | 1.22 | 1.21 | 1.22 | 1.23 | 1.23 | 1.23 | 1.23 |
| 80                | 1.20 | 1.18 | 1.17 | 1.18 | 1.18 | 1.17 | 1.19 | 1.21 | 1.22 | 1.21 | 1.20 | 1.19 | 1.18 | 1.18 | 1.18 | 1.19 | 1.19 | 1.19 | 1.19 |
| 85                | 1.48 | 1.11 | 1.07 | 1.07 | 1.07 | 1.06 | 1.07 | 1.09 | 1.10 | 1.10 | 1.10 | 1.11 | 1.40 | 1.32 | 1.14 | 1.15 | 1.15 | 1.14 | 1.14 |
| 90                | 0.96 | 0.95 | 0.86 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.86 | 0.86 | 0.88 | 1.18 | 1.10 | 1.03 | 1.02 | 1.02 | 1.02 | 1.02 |
| 95                | 0.75 | 0.72 | 0.69 | 0.68 | 0.68 | 0.68 | 0.68 | 0.69 | 0.69 | 0.69 | 0.70 | 0.70 | 1.10 | 1.08 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| 100               | 0.65 | 0.63 | 0.62 | 0.62 | 0.62 | 0.61 | 0.62 | 0.61 | 0.62 | 0.61 | 0.62 | 0.62 | 1.07 | 1.07 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| 105               | 0.74 | 0.73 | 0.74 | 0.73 | 0.74 | 0.72 | 0.73 | 0.72 | 0.73 | 0.72 | 0.72 | 0.71 | 1.10 | 1.09 | 1.08 | 1.08 | 1.08 | 1.09 | 1.08 |
| 110               | 0.90 | 0.90 | 0.91 | 0.90 | 0.91 | 0.90 | 0.90 | 0.89 | 0.90 | 0.89 | 0.89 | 0.88 | 1.15 | 1.15 | 1.14 | 1.15 | 1.14 | 1.14 | 1.14 |
| 115               | 1.02 | 1.02 | 1.03 | 1.02 | 1.03 | 1.02 | 1.03 | 1.02 | 1.02 | 1.01 | 1.02 | 1.01 | 1.22 | 1.22 | 1.22 | 1.23 | 1.22 | 1.22 | 1.22 |
| 120               | 1.15 | 1.14 | 1.15 | 1.14 | 1.15 | 1.14 | 1.15 | 1.14 | 1.14 | 1.13 | 1.14 | 1.13 | 1.34 | 1.34 | 1.33 | 1.34 | 1.33 | 1.34 | 1.33 |
| 125               | 1.38 | 1.37 | 1.38 | 1.37 | 1.39 | 1.37 | 1.38 | 1.36 | 1.37 | 1.35 | 1.36 | 1.34 | 1.55 | 1.55 | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 |
| 130               | 1.84 | 1.83 | 1.85 | 1.84 | 1.85 | 1.83 | 1.84 | 1.81 | 1.82 | 1.79 | 1.79 | 1.77 | 1.93 | 1.93 | 1.91 | 1.92 | 1.91 | 1.92 | 1.92 |
| 135               | 2.44 | 2.43 | 2.46 | 2.45 | 2.46 | 2.43 | 2.44 | 2.42 | 2.43 | 2.39 | 2.39 | 2.37 | 2.46 | 2.47 | 2.44 | 2.45 | 2.44 | 2.46 | 2.45 |
| 140               | 2.91 | 2.91 | 2.92 | 2.93 | 2.92 | 2.90 | 2.91 | 2.89 | 2.91 | 2.88 | 2.88 | 2.86 | 2.93 | 2.93 | 2.91 | 2.91 | 2.91 | 2.92 | 2.91 |
| 145               | 3.19 | 3.19 | 3.21 | 3.31 | 3.21 | 3.18 | 3.18 | 3.21 | 3.29 | 3.17 | 3.17 | 3.16 | 3.28 | 3.28 | 3.21 | 3.21 | 3.21 | 3.30 | 3.26 |
| 150               | 3.36 | 3.36 | 3.37 | 3.42 | 3.37 | 3.35 | 3.36 | 3.38 | 3.42 | 3.35 | 3.35 | 3.34 | 3.44 | 3.42 | 3.40 | 3.40 | 3.40 | 3.43 | 3.42 |
| 155               | 3.47 | 3.48 | 3.48 | 3.48 | 3.48 | 3.47 | 3.48 | 3.47 | 3.48 | 3.47 | 3.47 | 3.46 | 3.52 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 |
| 160               | 3.56 | 3.57 | 3.57 | 3.57 | 3.57 | 3.57 | 3.57 | 3.56 | 3.56 | 3.56 | 3.56 | 3.56 | 3.59 | 3.58 | 3.58 | 3.58 | 3.58 | 3.58 | 3.58 |
| 165               | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.66 | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 |
| 170               | 3.61 | 3.62 | 3.61 | 3.62 | 3.61 | 3.62 | 3.61 | 3.62 | 3.62 | 3.63 | 3.63 | 3.64 | 3.66 | 3.65 | 3.66 | 3.65 | 3.66 | 3.65 | 3.66 |
| 175               | 3.38 | 3.39 | 3.38 | 3.39 | 3.38 | 3.40 | 3.40 | 3.41 | 3.42 | 3.43 | 3.43 | 3.45 | 3.48 | 3.47 | 3.49 | 3.49 | 3.50 | 3.49 | 3.49 |
| 180               | 3.28 | 3.29 | 3.29 | 3.30 | 3.30 | 3.31 | 3.32 | 3.32 | 3.32 | 3.33 | 3.32 | 3.32 | 3.29 | 3.28 | 3.30 | 3.30 | 3.31 | 3.31 | 3.32 |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZhangXiao  
Test Date: 2016-07-28

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:0.1800A P:38.70W PF:0.9490 Lamp Flux:4213.72x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

Table--2

UNIT: x10cd

| C(DEC)<br>γ (DEC) | 285  | 300  | 315  | 330  | 345  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 3383 | 3383 | 3383 | 3383 | 3383 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 2455 | 2469 | 2375 | 2382 | 2291 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 932  | 952  | 897  | 907  | 853  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 383  | 394  | 375  | 377  | 357  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 226  | 228  | 224  | 225  | 219  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 180  | 181  | 180  | 180  | 179  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 132  | 134  | 129  | 131  | 126  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 33.2 | 33.5 | 30.3 | 30.9 | 27.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 7.84 | 8.02 | 7.52 | 7.51 | 7.59 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 2.90 | 3.03 | 2.74 | 2.66 | 2.46 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 1.74 | 1.83 | 1.79 | 1.71 | 1.57 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 1.55 | 1.61 | 1.62 | 1.56 | 1.51 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 1.61 | 1.66 | 1.64 | 1.57 | 1.56 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 1.61 | 1.63 | 1.61 | 1.58 | 1.58 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 1.37 | 1.40 | 1.38 | 1.35 | 1.34 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 1.25 | 1.28 | 1.27 | 1.24 | 1.23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 1.21 | 1.23 | 1.23 | 1.19 | 1.19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 1.16 | 1.17 | 1.15 | 1.13 | 1.12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 1.03 | 1.03 | 1.03 | 1.02 | 1.03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 1.03 | 1.04 | 1.04 | 1.03 | 1.04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 1.05 | 1.06 | 1.05 | 1.05 | 1.06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 1.09 | 1.10 | 1.09 | 1.09 | 1.10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 1.23 | 1.22 | 1.23 | 1.22 | 1.23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 1.34 | 1.34 | 1.35 | 1.34 | 1.36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 1.55 | 1.55 | 1.56 | 1.56 | 1.58 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 1.94 | 1.93 | 1.96 | 1.96 | 1.98 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 2.46 | 2.46 | 2.49 | 2.49 | 2.52 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 2.92 | 2.92 | 2.94 | 2.95 | 2.96 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 3.22 | 3.21 | 3.23 | 3.31 | 3.27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 3.40 | 3.40 | 3.41 | 3.42 | 3.42 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 3.51 | 3.51 | 3.51 | 3.51 | 3.52 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 3.58 | 3.58 | 3.59 | 3.59 | 3.59 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 3.65 | 3.65 | 3.64 | 3.64 | 3.64 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 3.48 | 3.48 | 3.47 | 3.47 | 3.46 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 3.32 | 3.33 | 3.32 | 3.32 | 3.32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-07-28

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: