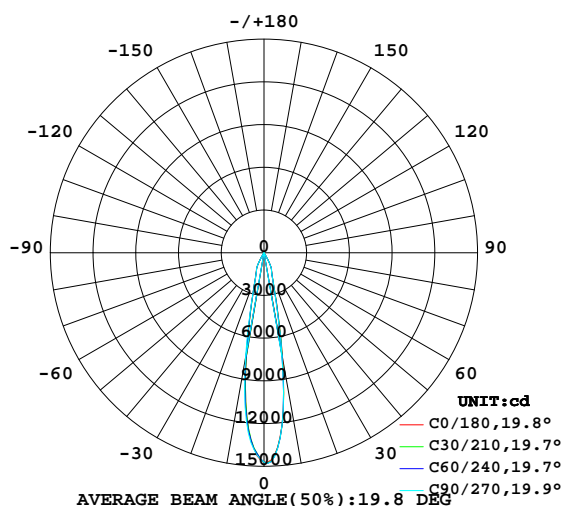


## LUMINAIRE PHOTOMETRIC TEST REPORT

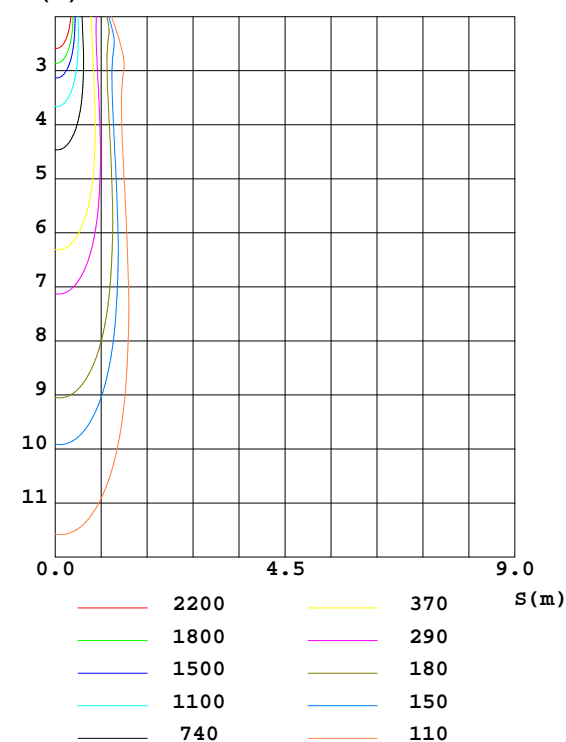
|   |        |                   |
|---|--------|-------------------|
| Test:U:226.5V I:0.1260A P:27.40W PF:0.9600 Lamp Flux:2807.23x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP     |                   | PHOTOMETRIC DATA Eff: 99.26 lm/W |        |                        |          |
|------------------|-------------------|----------------------------------|--------|------------------------|----------|
| MODEL            | TL14-30W-830-W-20 | Imax(cd)                         | 14819  | S/MH(C0/180)           | 0.34     |
| NOMINAL POWER(W) | 28                | LOR(%)                           | 96.9   | S/MH(C90/270)          | 0.33     |
| RATED VOLTAGE(V) | 226               | TOTAL FLUX(lm)                   | 2719.6 | $\eta$ UP,DN(C0-180)   | 1.2,47.6 |
| NOMINAL FLUX(lm) | 2807.23           | CIE CLASS                        | DIRECT | $\eta$ UP,DN(C180-360) | 1.4,46.7 |
| LAMPS INSIDE     | 1                 | $\eta$ up(%)                     | 2.6    | CIBSE SHR NOM          | 0.00     |
| TEST VOLTAGE(V)  | 226.5             | $\eta$ down(%)                   | 94.3   | CIBSE SHR MAX          | 1.00     |

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:2016-09-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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  | 751.5                    | 752.6  | 723.3  | 738.2  | 700.8  | 692.1  | 744.3  | 741.4  | 0- 10   | 1042    | 1042    | 38.3,37.1  |
| 20  | 167.7                    | 170.1  | 165.5  | 174.1  | 171.7  | 165.4  | 168.2  | 165.7  | 10- 20  | 932.1   | 1974    | 72.6,70.3  |
| 30  | 44.93                    | 48.02  | 42.32  | 44.39  | 45.14  | 44.40  | 46.07  | 41.90  | 20- 30  | 518.1   | 2492    | 91.6,88.8  |
| 40  | 4.590                    | 4.493  | 4.442  | 4.513  | 4.734  | 4.513  | 4.418  | 4.361  | 30- 40  | 82.69   | 2575    | 94.7,91.7  |
| 50  | 2.528                    | 2.500  | 2.436  | 2.404  | 2.474  | 2.489  | 2.482  | 2.407  | 40- 50  | 25.60   | 2600    | 95.6,92.6  |
| 60  | 1.550                    | 1.506  | 1.485  | 1.493  | 1.443  | 1.453  | 1.468  | 1.463  | 50- 60  | 16.92   | 2617    | 96.2,93.2  |
| 70  | 1.144                    | 1.122  | 1.114  | 1.131  | 1.106  | 1.083  | 1.078  | 1.100  | 60- 70  | 12.79   | 2630    | 96.7,93.7  |
| 80  | 0.8493                   | 0.8248 | 0.8201 | 0.8406 | 0.8286 | 0.8178 | 0.8164 | 0.8225 | 70- 80  | 10.13   | 2640    | 97.1,94    |
| 90  | 0.6085                   | 0.5530 | 0.5469 | 0.5574 | 0.7017 | 0.6666 | 0.6619 | 0.6658 | 80- 90  | 7.852   | 2648    | 97.4,94.3  |
| 100 | 0.4229                   | 0.4008 | 0.4029 | 0.4031 | 0.6926 | 0.6770 | 0.6724 | 0.6764 | 90-100  | 6.219   | 2654    | 97.6,94.5  |
| 110 | 0.5308                   | 0.5269 | 0.5265 | 0.5248 | 0.7185 | 0.7193 | 0.7138 | 0.7182 | 100-110 | 6.027   | 2660    | 97.8,94.8  |
| 120 | 0.7200                   | 0.7155 | 0.7157 | 0.7117 | 0.8502 | 0.8533 | 0.8446 | 0.8528 | 110-120 | 6.893   | 2667    | 98.1,95    |
| 130 | 1.176                    | 1.170  | 1.181  | 1.178  | 1.269  | 1.276  | 1.260  | 1.267  | 120-130 | 8.637   | 2676    | 98.4,95.3  |
| 140 | 1.833                    | 1.833  | 1.838  | 1.834  | 1.874  | 1.886  | 1.866  | 1.877  | 130-140 | 11.93   | 2688    | 98.8,95.7  |
| 150 | 2.179                    | 2.179  | 2.181  | 2.178  | 2.210  | 2.220  | 2.208  | 2.218  | 140-150 | 12.84   | 2700    | 99.3,96.2  |
| 160 | 2.318                    | 2.322  | 2.321  | 2.322  | 2.331  | 2.337  | 2.330  | 2.337  | 150-160 | 10.52   | 2711    | 99.7,96.6  |
| 170 | 2.290                    | 2.295  | 2.284  | 2.288  | 2.303  | 2.308  | 2.306  | 2.307  | 160-170 | 6.608   | 2718    | 99.9,96.8  |
| 180 | 2.132                    | 2.131  | 2.126  | 2.131  | 2.133  | 2.131  | 2.126  | 2.131  | 170-180 | 2.121   | 2720    | 100,96.9   |
| DEG | LUMINOUS INTENSITY:×10cd |        |        |        |        |        |        |        |         | UNIT:lm |         |            |

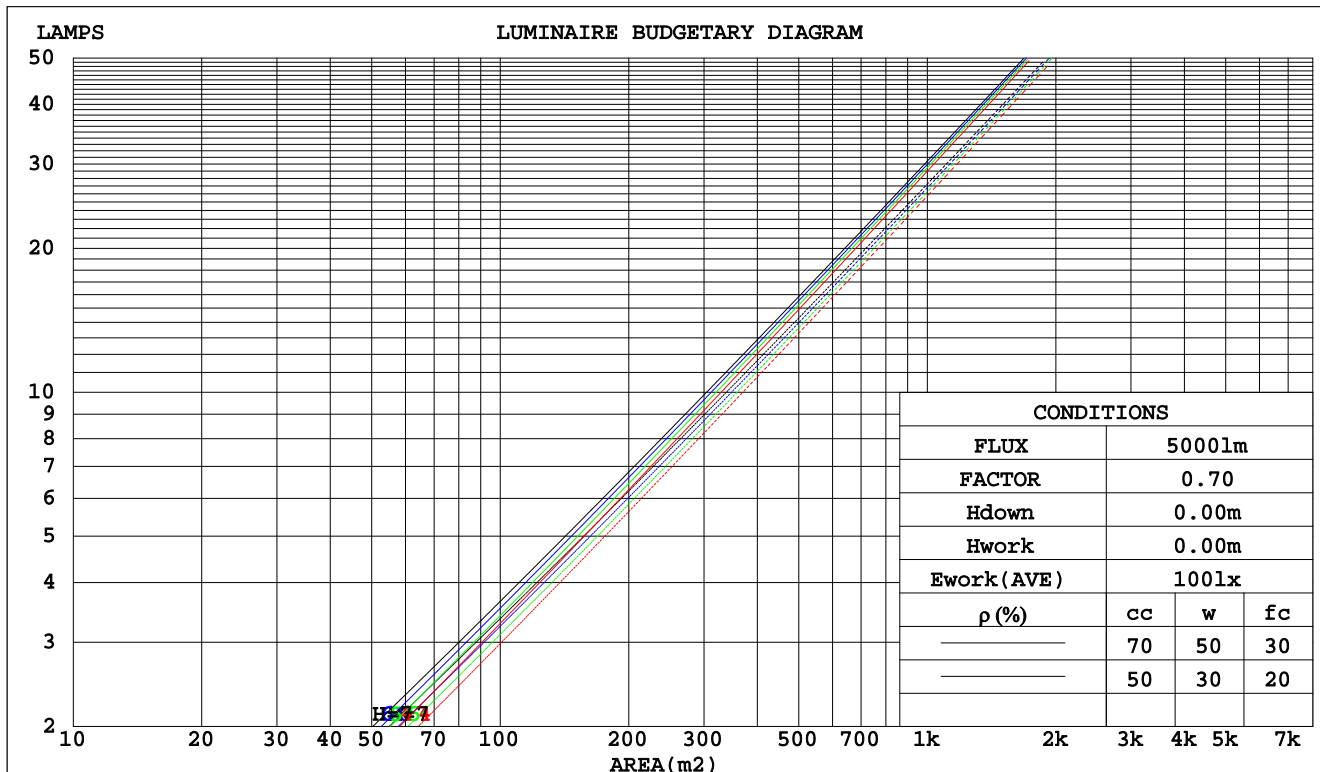
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-09-08

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:226.5V I:0.1260A P:27.40W PF:0.9600 Lamp Flux:2807.23x1 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  | 1.15                            | 1.15 | 1.15 | 1.12 | 1.12 | 1.12 | 1.06 | 1.06 | 1.06 | 1.01 | 1.01 | 1.01 | .97 | .97 | .97 | .94 |
| 1.0  | 1.08                            | 1.06 | 1.05 | 1.06 | 1.04 | 1.03 | 1.02 | 1.00 | .99  | .98  | .97  | .96  | .94 | .93 | .93 | .91 |
| 2.0  | 1.03                            | .90  | .97  | 1.01 | .98  | .96  | .98  | .95  | .94  | .94  | .93  | .91  | .92 | .90 | .89 | .87 |
| 3.0  | .98                             | .95  | .92  | .97  | .94  | .91  | .94  | .91  | .89  | .92  | .89  | .87  | .89 | .87 | .86 | .84 |
| 4.0  | .94                             | .90  | .87  | .93  | .89  | .87  | .91  | .88  | .85  | .89  | .86  | .84  | .87 | .85 | .83 | .82 |
| 5.0  | .91                             | .87  | .84  | .90  | .86  | .83  | .88  | .85  | .82  | .86  | .83  | .81  | .85 | .82 | .80 | .79 |
| 6.0  | .88                             | .83  | .80  | .87  | .83  | .80  | .85  | .82  | .79  | .84  | .81  | .79  | .82 | .80 | .78 | .77 |
| 7.0  | .85                             | .80  | .78  | .84  | .80  | .77  | .83  | .79  | .77  | .81  | .78  | .76  | .80 | .78 | .76 | .75 |
| 8.0  | .82                             | .78  | .75  | .81  | .78  | .75  | .80  | .77  | .74  | .79  | .76  | .74  | .78 | .76 | .74 | .73 |
| 9.0  | .80                             | .76  | .73  | .79  | .75  | .73  | .78  | .75  | .72  | .77  | .74  | .72  | .76 | .74 | .72 | .71 |
| 10.0 | .77                             | .73  | .71  | .77  | .73  | .71  | .76  | .73  | .70  | .75  | .72  | .70  | .75 | .72 | .70 | .69 |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZhangXiao  
Test Date: 2016-09-08

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:0.1260A P:27.40W PF:0.9600 Lamp Flux:2807.23x1 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  | .141                  | .080 | .025 | .134 | .076 | .024 | .121                            | .069 | .022 | .108 | .062 | .020 | .097 | .056 | .018 |   |
| 2.0  | .130                  | .071 | .022 | .124 | .068 | .021 | .113                            | .063 | .019 | .102 | .057 | .018 | .092 | .052 | .016 |   |
| 3.0  | .120                  | .064 | .019 | .115 | .062 | .019 | .106                            | .057 | .017 | .097 | .053 | .016 | .089 | .049 | .015 |   |
| 4.0  | .112                  | .058 | .017 | .108 | .056 | .017 | .100                            | .053 | .016 | .092 | .049 | .015 | .085 | .046 | .014 |   |
| 5.0  | .105                  | .054 | .016 | .102 | .052 | .015 | .095                            | .049 | .014 | .088 | .046 | .014 | .082 | .044 | .013 |   |
| 6.0  | .099                  | .050 | .014 | .096 | .049 | .014 | .090                            | .046 | .013 | .084 | .044 | .013 | .079 | .041 | .012 |   |
| 7.0  | .094                  | .046 | .013 | .091 | .045 | .013 | .086                            | .043 | .012 | .081 | .041 | .012 | .076 | .039 | .012 |   |
| 8.0  | .089                  | .044 | .012 | .087 | .043 | .012 | .082                            | .041 | .012 | .077 | .039 | .011 | .073 | .038 | .011 |   |
| 9.0  | .085                  | .041 | .012 | .083 | .040 | .011 | .079                            | .039 | .011 | .074 | .037 | .011 | .071 | .036 | .010 |   |
| 10.0 | .081                  | .039 | .011 | .079 | .038 | .011 | .075                            | .037 | .010 | .072 | .036 | .010 | .068 | .034 | .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  | .204                  | .204 | .204 | .174 | .174 | .174 | .119                                       | .119 | .119 | .068 | .068 | .068 | .022 | .022 | .022 |   |
| 1.0  | .183                  | .172 | .162 | .157 | .148 | .140 | .107                                       | .102 | .097 | .062 | .059 | .056 | .020 | .019 | .018 |   |
| 2.0  | .166                  | .148 | .133 | .142 | .128 | .115 | .098                                       | .088 | .080 | .056 | .051 | .047 | .018 | .017 | .015 |   |
| 3.0  | .152                  | .130 | .112 | .130 | .112 | .097 | .089                                       | .078 | .068 | .052 | .045 | .040 | .017 | .015 | .013 |   |
| 4.0  | .140                  | .115 | .096 | .120 | .099 | .083 | .083                                       | .069 | .059 | .048 | .041 | .035 | .015 | .013 | .011 |   |
| 5.0  | .130                  | .103 | .083 | .112 | .089 | .072 | .077                                       | .062 | .051 | .045 | .037 | .030 | .014 | .012 | .010 |   |
| 6.0  | .121                  | .094 | .074 | .104 | .081 | .064 | .072                                       | .057 | .045 | .042 | .033 | .027 | .013 | .011 | .009 |   |
| 7.0  | .114                  | .086 | .066 | .098 | .074 | .057 | .068                                       | .052 | .041 | .039 | .031 | .024 | .013 | .010 | .008 |   |
| 8.0  | .108                  | .079 | .060 | .093 | .069 | .052 | .064                                       | .048 | .037 | .037 | .028 | .022 | .012 | .009 | .007 |   |
| 9.0  | .102                  | .074 | .054 | .088 | .064 | .048 | .061                                       | .045 | .034 | .036 | .027 | .020 | .012 | .009 | .007 |   |
| 10.0 | .097                  | .069 | .050 | .084 | .060 | .044 | .058                                       | .042 | .031 | .034 | .025 | .019 | .011 | .008 | .006 |   |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-09-08

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:0.1260A P:27.40W PF:0.9600 Lamp Flux:2807.23x1 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   | 8.3           | 9.0              | 8.6  | 9.2  | 9.4    | 8.1           | 8.8            | 8.4               | 9.0  | 9.2  |      |
|   | 3H            | 9.3              | 10.0 | 9.6  | 10.2   | 10.4          | 9.2            | 9.8               | 9.4  | 10.0 | 10.2 |
|   | 4H            | 10.0             | 10.6 | 10.3 | 10.9   | 11.1          | 9.8            | 10.4              | 10.1 | 10.7 | 10.9 |
|   | 6H            | 10.9             | 11.4 | 11.2 | 11.7   | 12.0          | 10.7           | 11.2              | 11.0 | 11.5 | 11.8 |
|   | 8H            | 11.4             | 11.9 | 11.7 | 12.2   | 12.5          | 11.2           | 11.7              | 11.5 | 12.0 | 12.3 |
|   | 12H           | 12.0             | 12.5 | 12.4 | 12.8   | 13.1          | 11.8           | 12.3              | 12.1 | 12.6 | 12.9 |
| 4H  | 2H            | 8.6              | 9.2  | 8.9  | 9.4    | 9.7           | 8.4            | 9.0               | 8.7  | 9.2  | 9.5  |
|   | 3H            | 9.9              | 10.4 | 10.2 | 10.7   | 11.0          | 9.7            | 10.3              | 10.1 | 10.6 | 10.9 |
|   | 4H            | 10.8             | 11.2 | 11.1 | 11.6   | 11.9          | 10.6           | 11.1              | 11.0 | 11.4 | 11.8 |
|   | 6H            | 11.9             | 12.3 | 12.3 | 12.7   | 13.0          | 11.7           | 12.1              | 12.1 | 12.5 | 12.9 |
|   | 8H            | 12.5             | 12.9 | 12.9 | 13.3   | 13.7          | 12.3           | 12.7              | 12.8 | 13.1 | 13.5 |
|   | 12H           | 13.3             | 13.7 | 13.8 | 14.1   | 14.5          | 13.1           | 13.5              | 13.5 | 13.9 | 14.3 |
| 8H  | 4H            | 11.1             | 11.5 | 11.5 | 11.9   | 12.3          | 11.0           | 11.4              | 11.4 | 11.8 | 12.2 |
|   | 6H            | 12.5             | 12.8 | 12.9 | 13.2   | 13.7          | 12.3           | 12.7              | 12.8 | 13.1 | 13.6 |
|   | 8H            | 13.3             | 13.6 | 13.8 | 14.1   | 14.5          | 13.2           | 13.5              | 13.7 | 13.9 | 14.4 |
|   | 12H           | 14.3             | 14.6 | 14.8 | 15.1   | 15.6          | 14.1           | 14.4              | 14.7 | 14.9 | 15.4 |
| 12H   | 4H            | 11.2             | 11.5 | 11.6 | 12.0   | 12.4          | 11.1           | 11.4              | 11.5 | 11.8 | 12.3 |
|   | 6H            | 12.6             | 12.9 | 13.1 | 13.4   | 13.9          | 12.5           | 12.8              | 13.0 | 13.3 | 13.8 |
|   | 8H            | 13.6             | 13.8 | 14.1 | 14.3   | 14.8          | 13.4           | 13.7              | 13.9 | 14.2 | 14.7 |
| Variations with the observer position at spacings:                |               |                  |      |      |        |               |                |                   |      |      |      |
| S = 1.0H  | + 0.3 / - 0.3 |                  |      |      |        | + 0.3 / - 0.3 |                |                   |      |      |      |
| 1.5H  | + 0.4 / - 0.2 |                  |      |      |        | + 0.3 / - 0.2 |                |                   |      |      |      |
| 2.0H  | + 0.1 / - 0.2 |                  |      |      |        | + 0.1 / - 0.2 |                |                   |      |      |      |

CIE Pub.117 Corrected 2807 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:2016-09-08

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:0.1260A P:27.40W PF:0.9600 Lamp Flux:2807.23x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

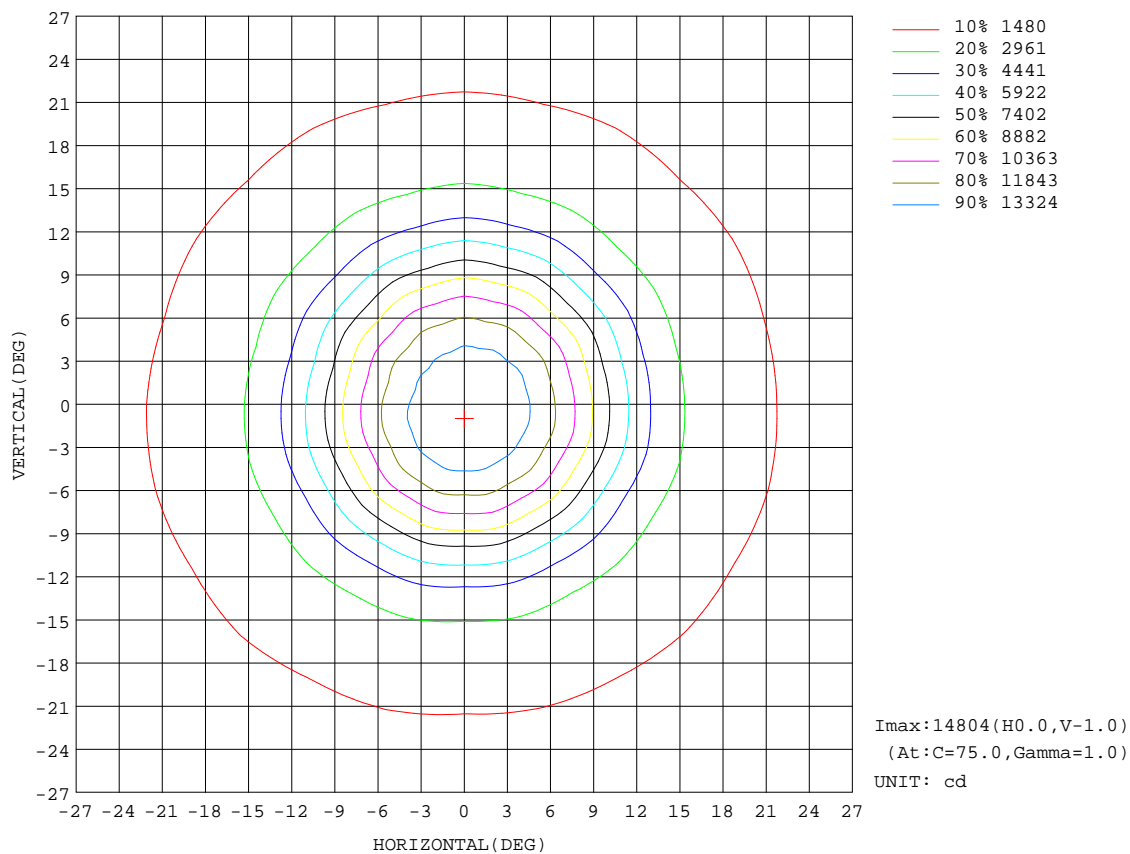
| REFLECTANCE                      |   |     |           |     |     |     |     |               |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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                         | 86  | 80  | 76        | 85  | 80  | 76  | 84  | 79            | 76  | 73     |
| 0.80                             | 92  | 87  | 84        | 92  | 87  | 83  | 90  | 86            | 83  | 79     |
| 1.00                             | 96  | 91  | 88        | 95  | 90  | 87  | 94  | 90            | 87  | 83     |
| 1.25                             | 100   | 95  | 92        | 99  | 94  | 91  | 97  | 93            | 90  | 86     |
| 1.50                             | 102   | 98  | 95        | 101 | 97  | 94  | 99  | 95            | 93  | 88     |
| 2.00                             | 105   | 101 | 98        | 103 | 99  | 97  | 100 | 97            | 95  | 89     |
| 2.50                             | 106   | 103 | 100       | 105 | 101 | 99  | 101 | 99            | 97  | 90     |
| 3.00                             | 108   | 104 | 102       | 106 | 103 | 101 | 102 | 100           | 98  | 91     |
| 4.00                             | 110   | 107 | 105       | 107 | 105 | 103 | 104 | 102           | 100 | 93     |
| 5.00                             | 111   | 109 | 107       | 109 | 107 | 105 | 104 | 103           | 102 | 94     |
| 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:2016-09-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:6.590m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

|   |        |                   |
|---|--------|-------------------|
| Test:U:226.5V I:0.1260A P:27.40W PF:0.9600 Lamp Flux:2807.23x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

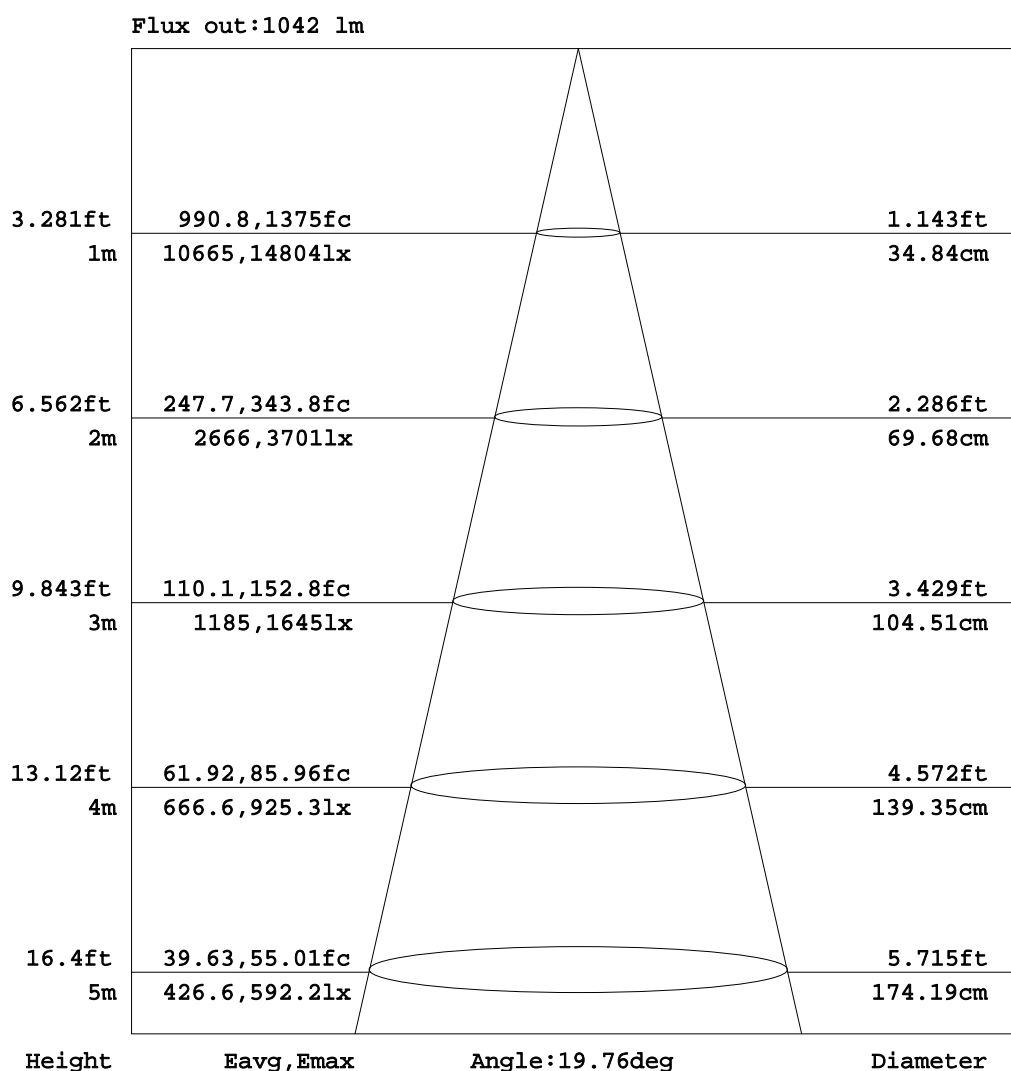


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-09-08

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:0.1260A P:27.40W PF:0.9600 Lamp Flux:2807.23x1 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.

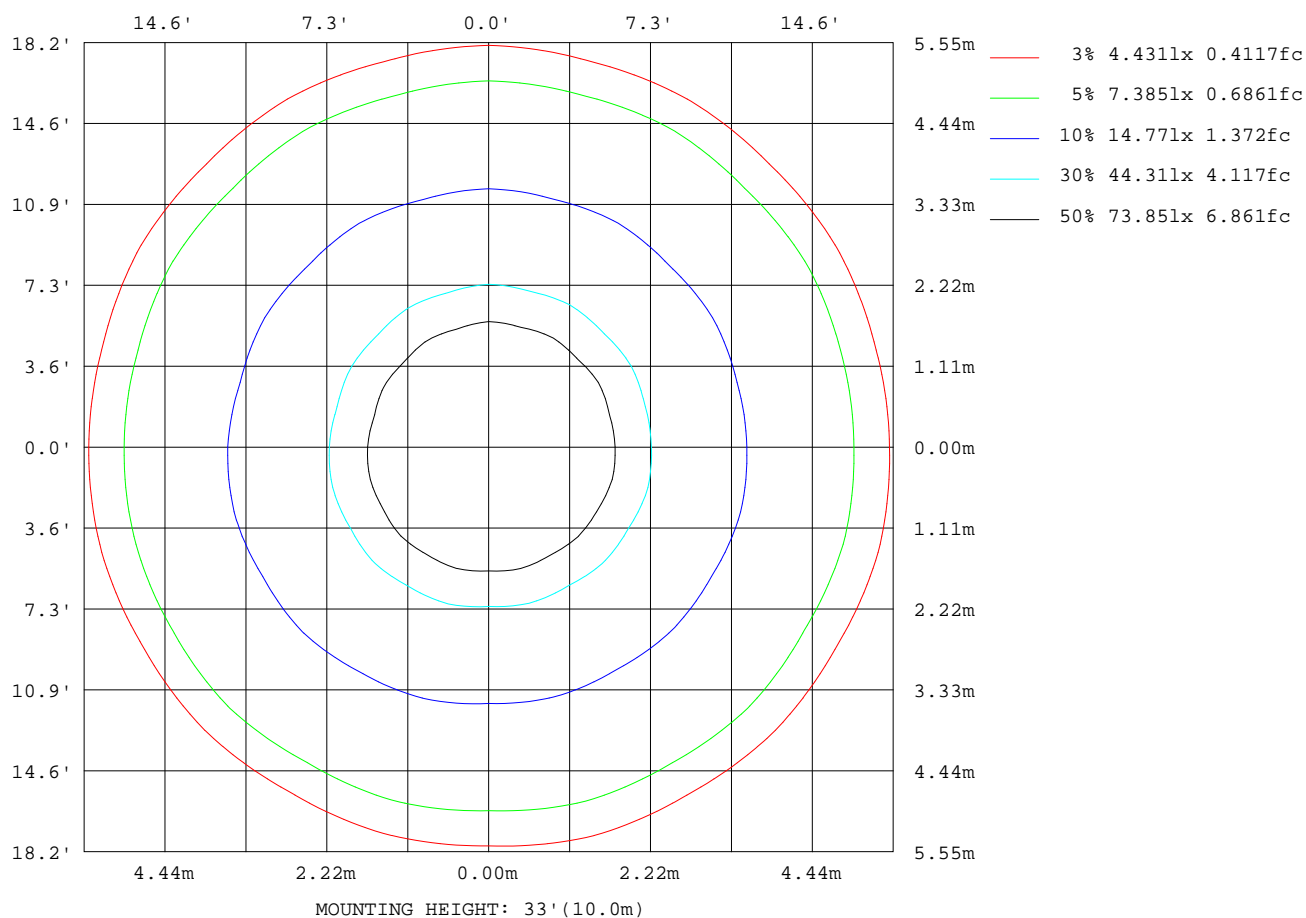
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZhangXiao  
Test Date: 2016-09-08

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

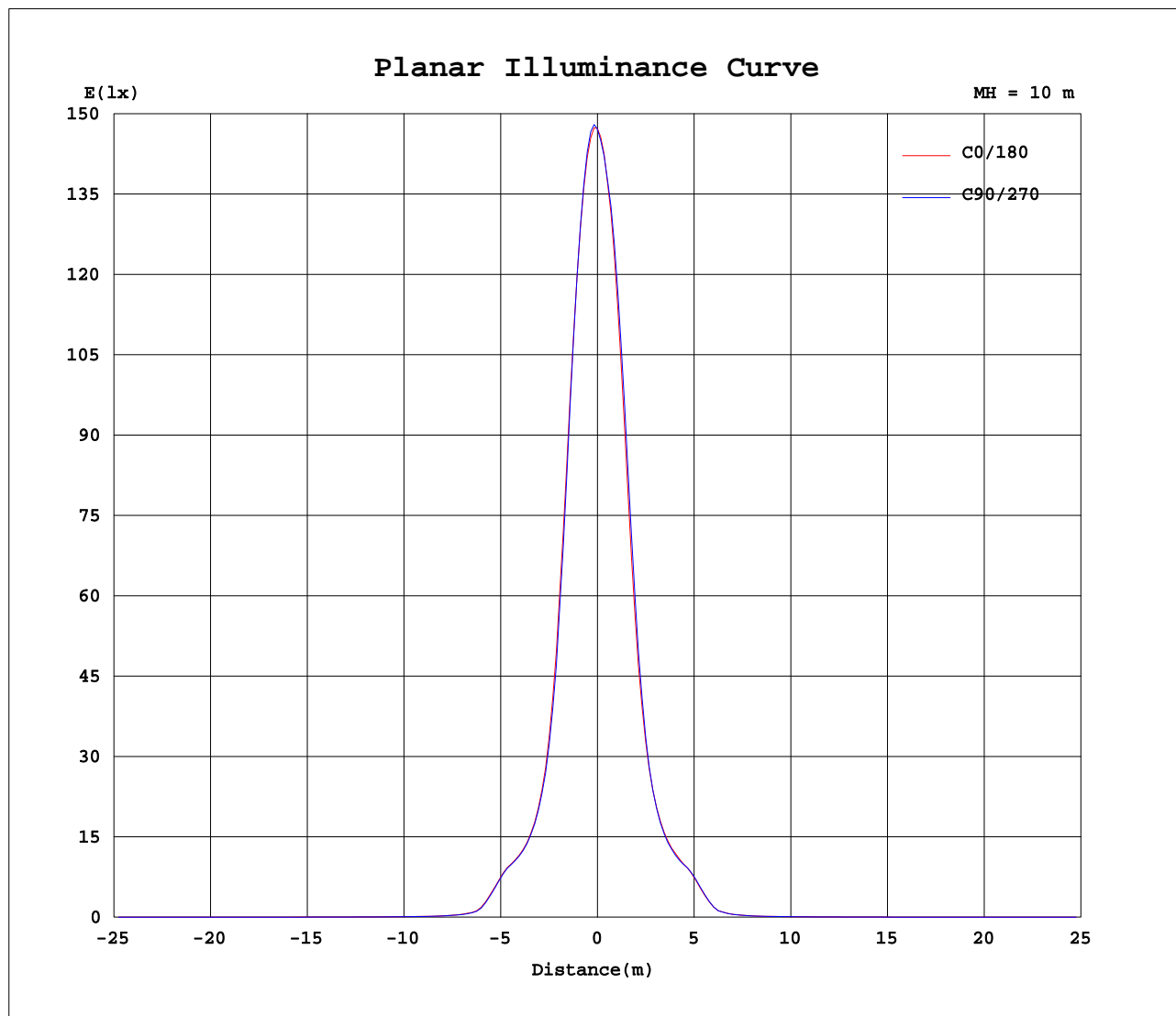
|   |        |                   |
|---|--------|-------------------|
| Test:U:226.5V I:0.1260A P:27.40W PF:0.9600 Lamp Flux:2807.23x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZhangXiao  
Test Date: 2016-09-08

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: 2016-09-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.1260A P:27.40W PF:0.9600 Lamp Flux:2807.23x1 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                 | 1471 | 1471 | 1471 | 1471 | 1471 | 1471 | 1471 | 1471 | 1471 | 1471 | 1471 | 1471 | 1471 | 1471 | 1471 | 1471 | 1471 | 1471 | 1471   |
| 5                 | 1300 | 1314 | 1303 | 1316 | 1306 | 1317 | 1305 | 1315 | 1294 | 1294 | 1267 | 1264 | 1248 | 1227 | 1241 | 1231 | 1254 | 1248 | 1271   |
| 10                | 752  | 765  | 743  | 753  | 728  | 742  | 723  | 741  | 726  | 738  | 714  | 716  | 701  | 677  | 702  | 692  | 722  | 714  | 744    |
| 15                | 310  | 319  | 306  | 311  | 298  | 308  | 300  | 312  | 308  | 319  | 309  | 315  | 307  | 296  | 305  | 297  | 308  | 300  | 312    |
| 20                | 168  | 171  | 167  | 170  | 166  | 169  | 166  | 170  | 169  | 174  | 171  | 174  | 172  | 166  | 169  | 165  | 169  | 166  | 168    |
| 25                | 124  | 125  | 124  | 126  | 125  | 125  | 123  | 125  | 123  | 127  | 126  | 125  | 123  | 123  | 124  | 123  | 124  | 122  | 123    |
| 30                | 44.9 | 48.3 | 45.7 | 48.0 | 44.2 | 46.9 | 42.3 | 44.1 | 40.9 | 44.4 | 41.7 | 45.7 | 45.1 | 43.7 | 47.3 | 44.4 | 47.0 | 43.9 | 46.1   |
| 35                | 10.1 | 10.4 | 9.91 | 10.0 | 9.46 | 9.77 | 9.36 | 9.65 | 9.45 | 9.86 | 9.69 | 10.3 | 10.2 | 9.89 | 9.95 | 9.72 | 10.0 | 9.71 | 9.89   |
| 40                | 4.59 | 4.64 | 4.55 | 4.49 | 4.43 | 4.54 | 4.44 | 4.45 | 4.42 | 4.51 | 4.56 | 4.76 | 4.73 | 4.66 | 4.64 | 4.51 | 4.53 | 4.42 | 4.42   |
| 45                | 3.33 | 3.36 | 3.31 | 3.28 | 3.25 | 3.29 | 3.20 | 3.19 | 3.18 | 3.22 | 3.25 | 3.36 | 3.34 | 3.31 | 3.31 | 3.26 | 3.27 | 3.23 | 3.22   |
| 50                | 2.53 | 2.55 | 2.52 | 2.50 | 2.49 | 2.51 | 2.44 | 2.42 | 2.39 | 2.40 | 2.43 | 2.50 | 2.47 | 2.48 | 2.51 | 2.49 | 2.50 | 2.49 | 2.48   |
| 55                | 1.91 | 1.91 | 1.86 | 1.84 | 1.84 | 1.86 | 1.83 | 1.83 | 1.82 | 1.83 | 1.83 | 1.86 | 1.81 | 1.81 | 1.84 | 1.83 | 1.86 | 1.85 | 1.88   |
| 60                | 1.55 | 1.55 | 1.51 | 1.51 | 1.50 | 1.51 | 1.48 | 1.49 | 1.49 | 1.49 | 1.50 | 1.49 | 1.44 | 1.44 | 1.46 | 1.45 | 1.46 | 1.46 | 1.47   |
| 65                | 1.34 | 1.33 | 1.31 | 1.30 | 1.31 | 1.31 | 1.30 | 1.30 | 1.30 | 1.31 | 1.31 | 1.32 | 1.28 | 1.28 | 1.27 | 1.26 | 1.26 | 1.26 | 1.26   |
| 70                | 1.14 | 1.14 | 1.13 | 1.12 | 1.13 | 1.13 | 1.11 | 1.12 | 1.12 | 1.13 | 1.13 | 1.13 | 1.11 | 1.10 | 1.09 | 1.08 | 1.08 | 1.07 | 1.08   |
| 75                | 0.98 | 0.98 | 0.97 | 0.96 | 0.95 | 0.96 | 0.95 | 0.95 | 0.96 | 0.97 | 0.96 | 0.98 | 0.96 | 0.95 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94   |
| 80                | 0.85 | 0.84 | 0.83 | 0.82 | 0.82 | 0.83 | 0.82 | 0.83 | 0.83 | 0.84 | 0.83 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82   |
| 85                | 0.74 | 0.72 | 0.70 | 0.70 | 0.70 | 0.70 | 0.69 | 0.70 | 0.70 | 0.71 | 0.70 | 0.71 | 0.76 | 0.75 | 0.74 | 0.74 | 0.74 | 0.73 | 0.73   |
| 90                | 0.61 | 0.58 | 0.56 | 0.55 | 0.56 | 0.55 | 0.55 | 0.56 | 0.55 | 0.56 | 0.54 | 0.54 | 0.70 | 0.68 | 0.66 | 0.67 | 0.67 | 0.66 | 0.66   |
| 95                | 0.50 | 0.48 | 0.46 | 0.45 | 0.46 | 0.45 | 0.45 | 0.45 | 0.46 | 0.45 | 0.45 | 0.45 | 0.70 | 0.69 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67   |
| 100               | 0.42 | 0.41 | 0.41 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.41 | 0.40 | 0.40 | 0.40 | 0.69 | 0.69 | 0.68 | 0.68 | 0.67 | 0.67 | 0.67   |
| 105               | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.43 | 0.44 | 0.44 | 0.45 | 0.44 | 0.44 | 0.44 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.68   |
| 110               | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.52 | 0.53 | 0.52 | 0.53 | 0.52 | 0.53 | 0.52 | 0.72 | 0.72 | 0.72 | 0.72 | 0.71 | 0.72 | 0.71   |
| 115               | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.61 | 0.62 | 0.61 | 0.62 | 0.61 | 0.62 | 0.61 | 0.77 | 0.77 | 0.77 | 0.77 | 0.76 | 0.77 | 0.76   |
| 120               | 0.72 | 0.71 | 0.72 | 0.72 | 0.72 | 0.71 | 0.72 | 0.71 | 0.72 | 0.71 | 0.72 | 0.71 | 0.85 | 0.86 | 0.85 | 0.85 | 0.84 | 0.85 | 0.84   |
| 125               | 0.89 | 0.88 | 0.89 | 0.89 | 0.89 | 0.88 | 0.89 | 0.89 | 0.90 | 0.89 | 0.90 | 0.89 | 1.01 | 1.02 | 1.00 | 1.01 | 1.00 | 1.01 | 0.9996 |
| 130               | 1.18 | 1.17 | 1.18 | 1.17 | 1.18 | 1.17 | 1.18 | 1.17 | 1.19 | 1.18 | 1.19 | 1.18 | 1.27 | 1.28 | 1.27 | 1.28 | 1.26 | 1.27 | 1.26   |
| 135               | 1.53 | 1.52 | 1.53 | 1.52 | 1.53 | 1.52 | 1.53 | 1.52 | 1.54 | 1.53 | 1.54 | 1.53 | 1.59 | 1.60 | 1.59 | 1.60 | 1.58 | 1.59 | 1.58   |
| 140               | 1.83 | 1.83 | 1.84 | 1.83 | 1.84 | 1.83 | 1.84 | 1.83 | 1.84 | 1.83 | 1.84 | 1.83 | 1.87 | 1.89 | 1.88 | 1.89 | 1.87 | 1.88 | 1.87   |
| 145               | 2.05 | 2.04 | 2.05 | 2.04 | 2.05 | 2.05 | 2.05 | 2.04 | 2.05 | 2.04 | 2.05 | 2.04 | 2.08 | 2.09 | 2.08 | 2.09 | 2.08 | 2.08 | 2.07   |
| 150               | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.21 | 2.22 | 2.21 | 2.22 | 2.21 | 2.22 | 2.21   |
| 155               | 2.27 | 2.27 | 2.27 | 2.27 | 2.27 | 2.27 | 2.27 | 2.27 | 2.27 | 2.27 | 2.27 | 2.27 | 2.29 | 2.30 | 2.29 | 2.30 | 2.29 | 2.30 | 2.29   |
| 160               | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.33 | 2.34 | 2.33 | 2.34 | 2.33 | 2.34 | 2.33   |
| 165               | 2.33 | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 | 2.33 | 2.33 | 2.33 | 2.33 | 2.33 | 2.33 | 2.34 | 2.35 | 2.34 | 2.35 | 2.34 | 2.34 | 2.34   |
| 170               | 2.29 | 2.30 | 2.29 | 2.30 | 2.29 | 2.29 | 2.28 | 2.29 | 2.28 | 2.29 | 2.28 | 2.29 | 2.30 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31   |
| 175               | 2.17 | 2.18 | 2.17 | 2.17 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.18 | 2.19 | 2.19 | 2.19 | 2.19 | 2.19 | 2.19   |
| 180               | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13   |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-09-08

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:0.1260A P:27.40W PF:0.9600 Lamp Flux:2807.23x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

Table--2

UNIT: x10cd

| C(DEG)<br>γ (DEG) | 285  | 300  | 315  | 330  | 345  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 1471 | 1471 | 1471 | 1471 | 1471 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 1265 | 1286 | 1279 | 1302 | 1290 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 729  | 758  | 741  | 764  | 739  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 304  | 314  | 305  | 315  | 306  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 166  | 169  | 166  | 169  | 166  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 123  | 125  | 123  | 125  | 124  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 42.3 | 44.9 | 41.9 | 45.2 | 43.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 9.61 | 9.85 | 9.70 | 10.1 | 9.88 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 4.32 | 4.38 | 4.36 | 4.51 | 4.52 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 3.17 | 3.19 | 3.18 | 3.27 | 3.29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 2.43 | 2.42 | 2.41 | 2.47 | 2.48 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 1.84 | 1.83 | 1.82 | 1.86 | 1.87 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 1.46 | 1.45 | 1.46 | 1.50 | 1.50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 1.26 | 1.27 | 1.29 | 1.30 | 1.29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 1.08 | 1.09 | 1.10 | 1.11 | 1.10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 0.94 | 0.94 | 0.95 | 0.95 | 0.94 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 0.82 | 0.82 | 0.82 | 0.83 | 0.83 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 0.66 | 0.66 | 0.67 | 0.67 | 0.67 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 0.67 | 0.67 | 0.68 | 0.68 | 0.68 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 0.69 | 0.68 | 0.69 | 0.69 | 0.69 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 0.72 | 0.71 | 0.72 | 0.72 | 0.72 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 0.77 | 0.76 | 0.77 | 0.77 | 0.77 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 1.01 | 1.00 | 1.01 | 1.00 | 1.01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 1.27 | 1.26 | 1.27 | 1.26 | 1.26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 1.59 | 1.57 | 1.58 | 1.57 | 1.58 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 1.88 | 1.87 | 1.88 | 1.87 | 1.87 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 2.22 | 2.21 | 2.22 | 2.21 | 2.21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 2.30 | 2.29 | 2.30 | 2.30 | 2.30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 2.34 | 2.33 | 2.34 | 2.33 | 2.33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 2.31 | 2.31 | 2.31 | 2.31 | 2.30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 2.19 | 2.19 | 2.19 | 2.19 | 2.19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-09-08

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: