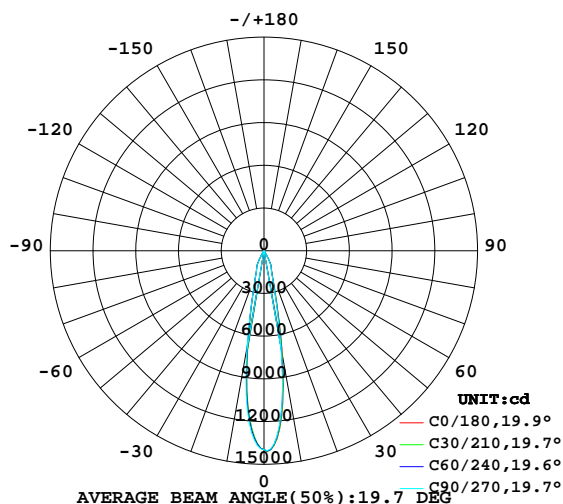


## LUMINAIRE PHOTOMETRIC TEST REPORT

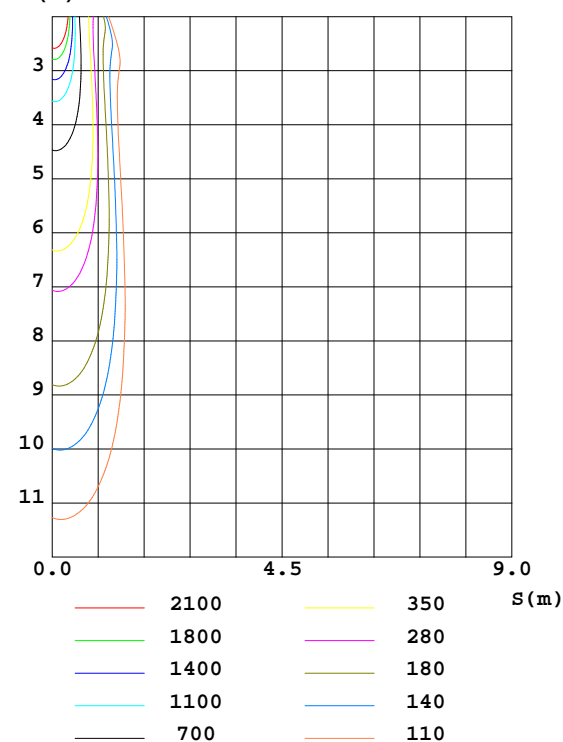
|   |        |                   |
|---|--------|-------------------|
| Test:U:226.5V I:0.1260A P:27.40W PF:0.9600 Lamp Flux:2593.72x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP     |                   | PHOTOMETRIC DATA Eff: 94.66 lm/W |        |                        |          |
|------------------|-------------------|----------------------------------|--------|------------------------|----------|
| MODEL            | TL15-30W-827-W-20 | Imax(cd)                         | 14092  | S/MH(C0/180)           | 0.35     |
| NOMINAL POWER(W) | 28                | LOR(%)                           | 100.0  | S/MH(C90/270)          | 0.34     |
| RATED VOLTAGE(V) | 226               | TOTAL FLUX(lm)                   | 2593.7 | $\eta$ UP,DN(C0-180)   | 1.3,49.3 |
| NOMINAL FLUX(lm) | 2593.72           | CIE CLASS                        | DIRECT | $\eta$ UP,DN(C180-360) | 1.4,48.0 |
| LAMPS INSIDE     | 1                 | $\eta$ up(%)                     | 2.7    | CIBSE SHR NOM          | 0.00     |
| TEST VOLTAGE(V)  | 226.5             | $\eta$ down(%)                   | 97.3   | 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  | 738.6                    | 730.4  | 692.2  | 697.2  | 654.7  | 638.9  | 683.1  | 699.1  | 0- 10   | 988.1   | 988.1   | 38.1,38.1  |
| 20  | 162.7                    | 163.5  | 156.8  | 163.9  | 163.2  | 156.9  | 160.9  | 159.9  | 10- 20  | 885.2   | 1873    | 72.2,72.2  |
| 30  | 46.95                    | 47.83  | 41.81  | 43.13  | 42.47  | 42.74  | 45.28  | 43.45  | 20- 30  | 498.8   | 2372    | 91.5,91.5  |
| 40  | 4.520                    | 4.475  | 4.421  | 4.457  | 4.432  | 4.267  | 4.313  | 4.345  | 30- 40  | 81.50   | 2454    | 94.6,94.6  |
| 50  | 2.453                    | 2.438  | 2.433  | 2.372  | 2.348  | 2.373  | 2.430  | 2.372  | 40- 50  | 24.79   | 2478    | 95.6,95.6  |
| 60  | 1.520                    | 1.472  | 1.475  | 1.486  | 1.401  | 1.387  | 1.427  | 1.441  | 50- 60  | 16.51   | 2495    | 96.2,96.2  |
| 70  | 1.115                    | 1.091  | 1.100  | 1.114  | 1.061  | 1.038  | 1.052  | 1.079  | 60- 70  | 12.50   | 2507    | 96.7,96.7  |
| 80  | 0.8168                   | 0.8006 | 0.8014 | 0.8224 | 0.7937 | 0.7841 | 0.7974 | 0.8115 | 70- 80  | 9.875   | 2517    | 97.1,97.1  |
| 90  | 0.5377                   | 0.5327 | 0.5260 | 0.5826 | 0.6376 | 0.6373 | 0.6437 | 0.6476 | 80- 90  | 7.617   | 2525    | 97.3,97.3  |
| 100 | 0.3939                   | 0.3872 | 0.3884 | 0.4064 | 0.6488 | 0.6477 | 0.6473 | 0.6687 | 90-100  | 5.996   | 2531    | 97.6,97.6  |
| 110 | 0.5079                   | 0.5055 | 0.5063 | 0.5074 | 0.6907 | 0.6899 | 0.6890 | 0.6896 | 100-110 | 5.796   | 2537    | 97.8,97.8  |
| 120 | 0.6923                   | 0.6871 | 0.6900 | 0.6875 | 0.8225 | 0.8207 | 0.8159 | 0.8175 | 110-120 | 6.636   | 2543    | 98.1,98.1  |
| 130 | 1.121                    | 1.116  | 1.129  | 1.135  | 1.231  | 1.228  | 1.217  | 1.210  | 120-130 | 8.308   | 2552    | 98.4,98.4  |
| 140 | 1.750                    | 1.748  | 1.760  | 1.757  | 1.808  | 1.808  | 1.796  | 1.793  | 130-140 | 11.44   | 2563    | 98.8,98.8  |
| 150 | 2.088                    | 2.082  | 2.090  | 2.085  | 2.126  | 2.125  | 2.119  | 2.120  | 140-150 | 12.29   | 2575    | 99.3,99.3  |
| 160 | 2.223                    | 2.217  | 2.222  | 2.219  | 2.241  | 2.237  | 2.238  | 2.237  | 150-160 | 10.07   | 2585    | 99.7,99.7  |
| 170 | 2.194                    | 2.187  | 2.182  | 2.176  | 2.211  | 2.207  | 2.211  | 2.212  | 160-170 | 6.326   | 2592    | 99.9,99.9  |
| 180 | 2.036                    | 2.022  | 2.018  | 2.020  | 2.036  | 2.023  | 2.018  | 2.020  | 170-180 | 2.023   | 2594    | 100,100    |
| DEG | LUMINOUS INTENSITY:×10cd |        |        |        |        |        |        |        |         | UNIT:lm |         |            |

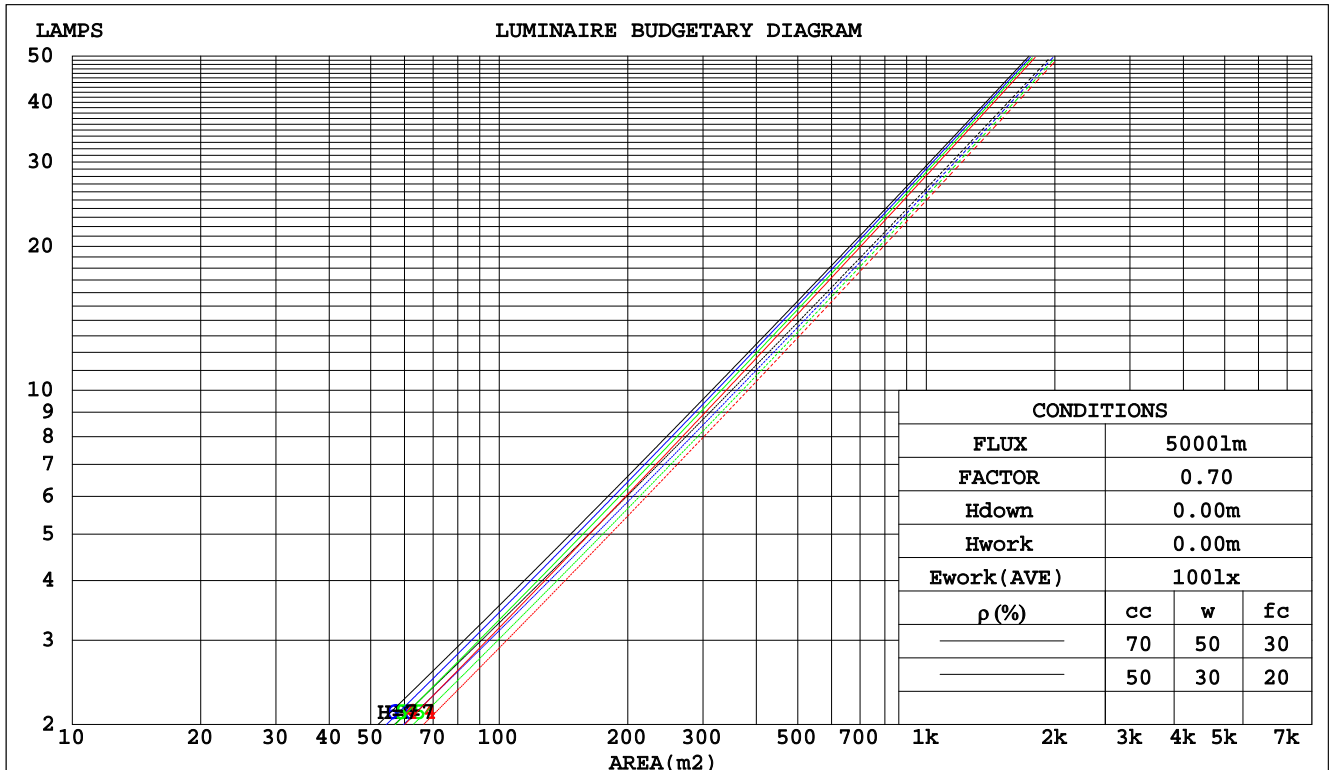
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-09-08

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:2593.72x1 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 | 1.01 | .99  | 1.01                            | .98  | .97  | .97  | .96  | .94  | .94 | .93 | .92 | .90 |
| 3.0  | 1.01                  | .98  | .95  | .00  | .96  | .94  | .97                             | .94  | .92  | .94  | .92  | .90  | .92 | .90 | .88 | .87 |
| 4.0  | .97                   | .93  | .90  | .96  | .92  | .89  | .94                             | .90  | .88  | .91  | .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  | .84                   | .80  | .77  | .84  | .80  | .77  | .83                             | .79  | .77  | .82  | .78  | .76  | .81 | .78 | .76 | .75 |
| 9.0  | .82                   | .78  | .75  | .81  | .78  | .75  | .80                             | .77  | .74  | .80  | .76  | .74  | .79 | .76 | .74 | .73 |
| 10.0 | .80                   | .76  | .73  | .79  | .75  | .73  | .78                             | .75  | .72  | .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: 2016-09-08

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:2593.72x1 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  | .146                  | .083 | .026 | .139 | .079 | .025 | .125                            | .072 | .023 | .112 | .065 | .021 | .100 | .058 | .019 |   |  |
| 2.0  | .134                  | .074 | .023 | .128 | .071 | .022 | .117                            | .065 | .020 | .106 | .059 | .019 | .096 | .054 | .017 |   |  |
| 3.0  | .125                  | .066 | .020 | .119 | .064 | .019 | .109                            | .059 | .018 | .100 | .055 | .017 | .092 | .051 | .016 |   |  |
| 4.0  | .116                  | .060 | .018 | .112 | .059 | .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 | .100 | .050 | .014 | .093                            | .048 | .014 | .087 | .045 | .013 | .082 | .043 | .013 |   |  |
| 7.0  | .097                  | .048 | .014 | .094 | .047 | .013 | .089                            | .045 | .013 | .084 | .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 | .060 | .049 | .042 | .036 | .016 | .014 | .012 |   |  |
| 5.0  | .134                  | .107 | .086 | .115 | .092 | .075 | .080                                       | .064 | .053 | .046 | .038 | .031 | .015 | .012 | .010 |   |  |
| 6.0  | .126                  | .097 | .076 | .108 | .084 | .066 | .074                                       | .059 | .047 | .043 | .034 | .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 | .027 | .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:2016-09-08

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:2593.72x1 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   | 8.5           | 9.2              | 8.7  | 9.3  | 9.5    | 8.2           | 8.9            | 8.5               | 9.1  | 9.3  |      |
|   | 3H            | 9.4              | 10.1 | 9.7  | 10.3   | 10.5          | 9.2            | 9.9               | 9.5  | 10.1 | 10.3 |
|   | 4H            | 10.1             | 10.7 | 10.4 | 10.9   | 11.2          | 9.9            | 10.5              | 10.2 | 10.7 | 11.0 |
|   | 6H            | 10.9             | 11.4 | 11.2 | 11.7   | 12.0          | 10.7           | 11.3              | 11.0 | 11.6 | 11.8 |
|   | 8H            | 11.4             | 11.9 | 11.7 | 12.2   | 12.5          | 11.2           | 11.8              | 11.6 | 12.0 | 12.3 |
|   | 12H           | 12.0             | 12.5 | 12.3 | 12.8   | 13.1          | 11.8           | 12.3              | 12.2 | 12.6 | 13.0 |
| 4H 2H   | 8.7           | 9.3              | 9.0  | 9.6  | 9.8    | 8.5           | 9.1            | 8.8               | 9.4  | 9.6  |      |
|   | 3H            | 10.0             | 10.5 | 10.3 | 10.8   | 11.1          | 9.8            | 10.3              | 10.2 | 10.6 | 10.9 |
|   | 4H            | 10.8             | 11.3 | 11.2 | 11.6   | 12.0          | 10.7           | 11.1              | 11.1 | 11.5 | 11.8 |
|   | 6H            | 11.9             | 12.3 | 12.3 | 12.7   | 13.0          | 11.7           | 12.2              | 12.1 | 12.5 | 12.9 |
|   | 8H            | 12.5             | 12.9 | 12.9 | 13.3   | 13.7          | 12.4           | 12.8              | 12.8 | 13.2 | 13.6 |
|   | 12H           | 13.2             | 13.6 | 13.7 | 14.0   | 14.4          | 13.1           | 13.5              | 13.6 | 13.9 | 14.3 |
| 8H 4H   | 11.1          | 11.5             | 11.6 | 11.9 | 12.3   | 11.0          | 11.4           | 11.5              | 11.8 | 12.2 |      |
|   | 6H            | 12.5             | 12.8 | 12.9 | 13.2   | 13.7          | 12.4           | 12.7              | 12.8 | 13.1 | 13.6 |
|   | 8H            | 13.3             | 13.6 | 13.8 | 14.0   | 14.5          | 13.2           | 13.5              | 13.7 | 13.9 | 14.4 |
|   | 12H           | 14.2             | 14.5 | 14.8 | 15.0   | 15.5          | 14.1           | 14.4              | 14.6 | 14.9 | 15.4 |
| 12H 4H  | 11.2          | 11.6             | 11.7 | 12.0 | 12.4   | 11.1          | 11.5           | 11.6              | 11.9 | 12.3 |      |
|   | 6H            | 12.6             | 12.9 | 13.1 | 13.4   | 13.9          | 12.5           | 12.8              | 13.0 | 13.3 | 13.8 |
|   | 8H            | 13.5             | 13.8 | 14.0 | 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 |                  |      |      |        | + 0.4 / - 0.2 |                |                   |      |      |      |
| 2.0H  | + 0.1 / - 0.2 |                  |      |      |        | + 0.1 / - 0.2 |                |                   |      |      |      |

CIE Pub.117 Corrected 2594 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.3)

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:2593.72x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

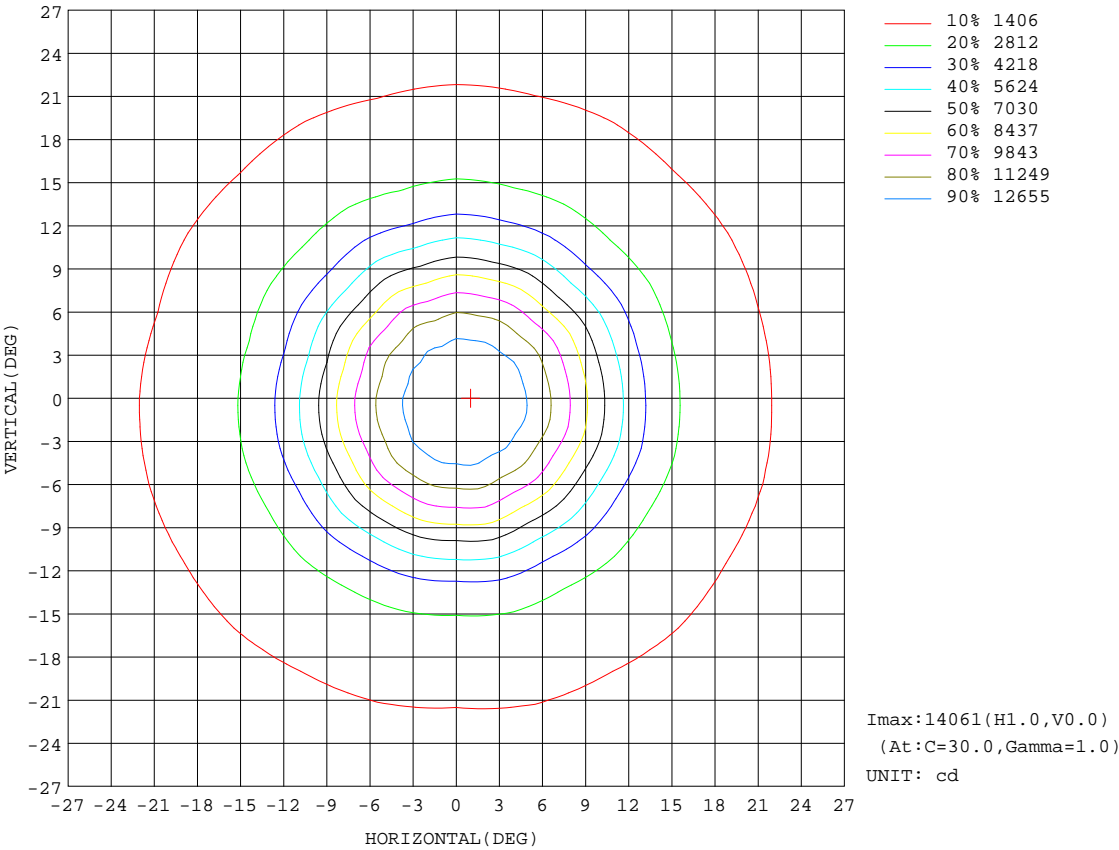
| REFLECTANCE                      |   |     |           |     |     |     |     |               |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 88  | 82  | 79        | 88  | 82  | 79  | 87  | 82            | 78  | 75     |
| 0.80                             | 95  | 90  | 86        | 95  | 89  | 86  | 93  | 89            | 85  | 82     |
| 1.00                             | 99  | 94  | 90        | 98  | 93  | 90  | 97  | 93            | 89  | 85     |
| 1.25                             | 103   | 98  | 95        | 102 | 97  | 94  | 100 | 96            | 93  | 89     |
| 1.50                             | 106   | 101 | 98        | 104 | 100 | 97  | 102 | 98            | 96  | 91     |
| 2.00                             | 108   | 104 | 101       | 106 | 103 | 100 | 103 | 100           | 98  | 92     |
| 2.50                             | 110   | 106 | 103       | 108 | 104 | 102 | 104 | 102           | 100 | 93     |
| 3.00                             | 111   | 108 | 105       | 109 | 106 | 104 | 105 | 103           | 101 | 94     |
| 4.00                             | 113   | 110 | 108       | 111 | 109 | 107 | 107 | 105           | 104 | 96     |
| 5.00                             | 114   | 112 | 110       | 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:2016-09-08

$\gamma$  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:2593.72x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

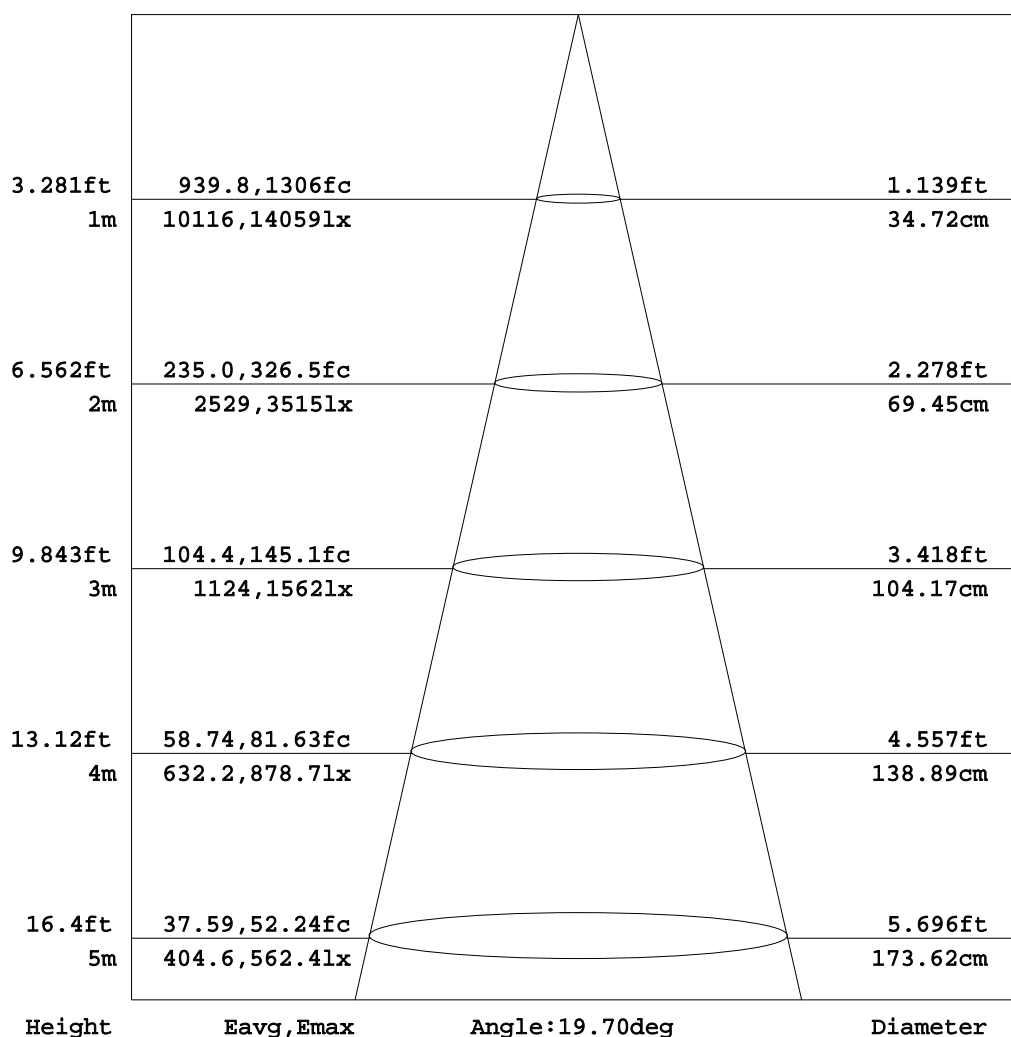


|                      |  |
|----------------------|--|
| C Range: 0 - 360DEG  | γ Range: 0 - 180DEG                              |
| C Interval: 15.0DEG  | γ Interval: 1.0DEG                               |
| Test Speed: HIGH     | Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265 |
| Temperature:25.3DEG  | Humidity:65.0%                                   |
| Operators:ZhangXiao  | Test Distance:6.590m [K=1.0000]                  |
| Test Date:2016-09-08 | Remarks:   |

### AAI Figure

|   |        |                   |
|---|--------|-------------------|
| Test:U:226.5V I:0.1260A P:27.40W PF:0.9600 Lamp Flux:2593.72x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

Flux out:988.1 lm



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

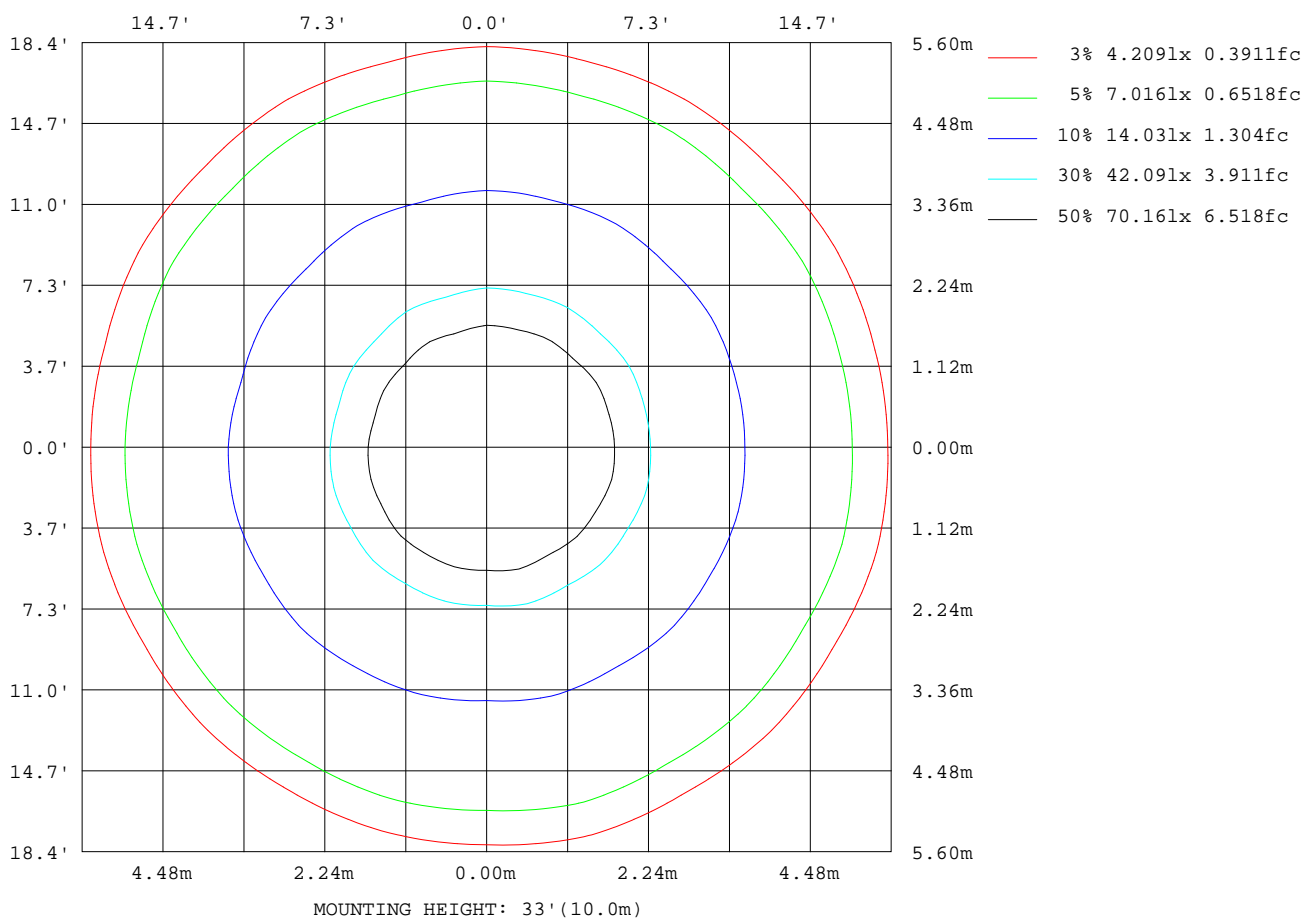
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-09-08

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

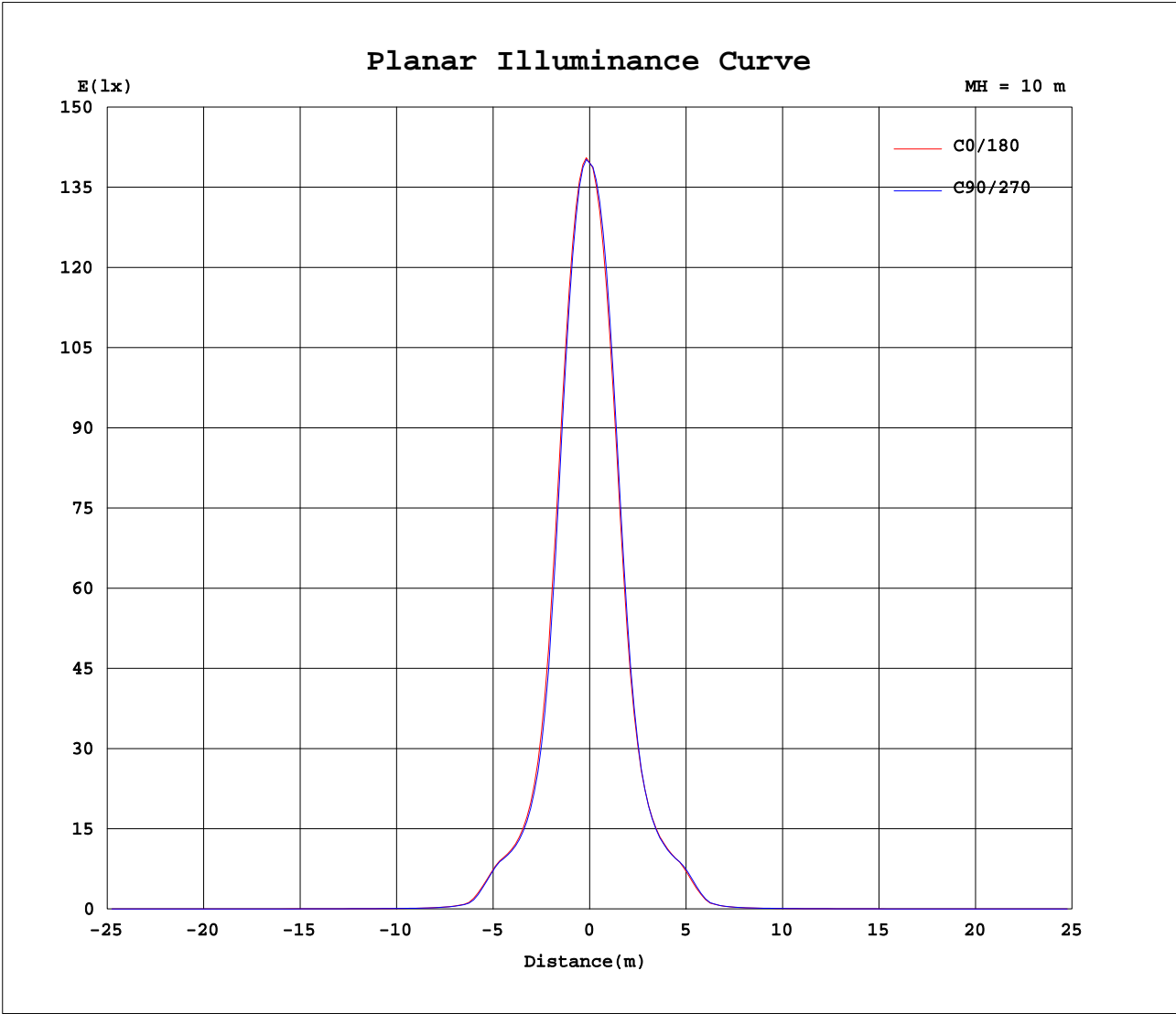
|   |        |                   |
|---|--------|-------------------|
| Test:U:226.5V I:0.1260A P:27.40W PF:0.9600 Lamp Flux:2593.72x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |



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

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:2593.72x1 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                 | 1397 | 1397 | 1397 | 1397 | 1397 | 1397 | 1397 | 1397 | 1397 | 1397 | 1397 | 1397 | 1397 | 1397 | 1397 | 1397 | 1397 | 1397 | 1397 |
| 5                 | 1260 | 1267 | 1255 | 1258 | 1242 | 1254 | 1237 | 1237 | 1220 | 1217 | 1189 | 1184 | 1177 | 1156 | 1175 | 1163 | 1192 | 1176 | 1209 |
| 10                | 739  | 750  | 726  | 730  | 702  | 721  | 692  | 699  | 687  | 697  | 667  | 666  | 655  | 632  | 647  | 639  | 668  | 650  | 683  |
| 15                | 306  | 312  | 302  | 304  | 289  | 297  | 286  | 290  | 289  | 297  | 288  | 292  | 288  | 277  | 286  | 278  | 290  | 278  | 292  |
| 20                | 163  | 164  | 162  | 164  | 159  | 162  | 157  | 160  | 160  | 164  | 161  | 164  | 163  | 157  | 161  | 157  | 161  | 157  | 161  |
| 25                | 121  | 122  | 119  | 120  | 120  | 121  | 119  | 120  | 119  | 120  | 119  | 120  | 118  | 115  | 119  | 117  | 119  | 117  | 119  |
| 30                | 47.0 | 49.9 | 46.1 | 47.8 | 43.1 | 46.9 | 41.8 | 42.7 | 40.3 | 43.1 | 40.0 | 42.9 | 42.5 | 41.1 | 45.1 | 42.7 | 46.1 | 41.8 | 45.3 |
| 35                | 10.2 | 10.5 | 9.99 | 10.3 | 9.67 | 10.1 | 9.58 | 9.70 | 9.45 | 9.79 | 9.43 | 9.52 | 9.42 | 9.25 | 9.43 | 9.01 | 9.45 | 8.96 | 9.48 |
| 40                | 4.52 | 4.54 | 4.40 | 4.48 | 4.36 | 4.52 | 4.42 | 4.45 | 4.38 | 4.46 | 4.41 | 4.48 | 4.43 | 4.37 | 4.38 | 4.27 | 4.33 | 4.21 | 4.31 |
| 45                | 3.21 | 3.19 | 3.17 | 3.19 | 3.16 | 3.20 | 3.17 | 3.16 | 3.12 | 3.15 | 3.14 | 3.19 | 3.14 | 3.10 | 3.12 | 3.08 | 3.13 | 3.10 | 3.15 |
| 50                | 2.45 | 2.43 | 2.42 | 2.44 | 2.43 | 2.46 | 2.43 | 2.41 | 2.37 | 2.37 | 2.36 | 2.39 | 2.35 | 2.32 | 2.36 | 2.37 | 2.40 | 2.38 | 2.43 |
| 55                | 1.88 | 1.85 | 1.83 | 1.82 | 1.81 | 1.84 | 1.82 | 1.82 | 1.81 | 1.82 | 1.81 | 1.81 | 1.74 | 1.71 | 1.73 | 1.76 | 1.78 | 1.77 | 1.81 |
| 60                | 1.52 | 1.50 | 1.48 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.49 | 1.48 | 1.47 | 1.40 | 1.37 | 1.38 | 1.39 | 1.41 | 1.40 | 1.43 |
| 65                | 1.31 | 1.29 | 1.28 | 1.27 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.30 | 1.30 | 1.29 | 1.24 | 1.22 | 1.22 | 1.20 | 1.22 | 1.22 | 1.23 |
| 70                | 1.11 | 1.10 | 1.09 | 1.09 | 1.09 | 1.10 | 1.10 | 1.10 | 1.10 | 1.11 | 1.11 | 1.11 | 1.06 | 1.05 | 1.05 | 1.04 | 1.05 | 1.05 | 1.05 |
| 75                | 0.96 | 0.95 | 0.94 | 0.94 | 0.94 | 0.94 | 0.95 | 0.95 | 0.94 | 0.96 | 0.95 | 0.94 | 0.92 | 0.91 | 0.91 | 0.90 | 0.91 | 0.92 | 0.92 |
| 80                | 0.82 | 0.81 | 0.81 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.82 | 0.82 | 0.82 | 0.81 | 0.79 | 0.79 | 0.79 | 0.78 | 0.79 | 0.80 | 0.80 |
| 85                | 0.69 | 0.68 | 0.68 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.70 | 0.72 | 0.70 | 0.68 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 |
| 90                | 0.54 | 0.54 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.52 | 0.56 | 0.58 | 0.55 | 0.51 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.65 | 0.64 |
| 95                | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.43 | 0.45 | 0.48 | 0.45 | 0.42 | 0.64 | 0.64 | 0.65 | 0.64 | 0.64 | 0.65 | 0.64 |
| 100               | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.38 | 0.39 | 0.39 | 0.40 | 0.41 | 0.40 | 0.39 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.66 | 0.65 |
| 105               | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.43 | 0.43 | 0.42 | 0.66 | 0.66 | 0.67 | 0.66 | 0.66 | 0.67 | 0.66 |
| 110               | 0.51 | 0.50 | 0.51 | 0.51 | 0.51 | 0.50 | 0.51 | 0.50 | 0.51 | 0.51 | 0.51 | 0.51 | 0.69 | 0.69 | 0.70 | 0.69 | 0.69 | 0.69 | 0.69 |
| 115               | 0.60 | 0.59 | 0.60 | 0.59 | 0.60 | 0.59 | 0.59 | 0.59 | 0.60 | 0.59 | 0.60 | 0.59 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 |
| 120               | 0.69 | 0.69 | 0.69 | 0.69 | 0.70 | 0.68 | 0.69 | 0.68 | 0.69 | 0.69 | 0.69 | 0.69 | 0.82 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | 0.82 |
| 125               | 0.85 | 0.84 | 0.86 | 0.85 | 0.86 | 0.84 | 0.86 | 0.85 | 0.86 | 0.86 | 0.87 | 0.86 | 0.98 | 0.98 | 0.98 | 0.98 | 0.97 | 0.97 | 0.97 |
| 130               | 1.12 | 1.11 | 1.13 | 1.12 | 1.13 | 1.11 | 1.13 | 1.12 | 1.14 | 1.13 | 1.15 | 1.14 | 1.23 | 1.24 | 1.23 | 1.23 | 1.22 | 1.23 | 1.22 |
| 135               | 1.45 | 1.44 | 1.46 | 1.45 | 1.47 | 1.45 | 1.46 | 1.46 | 1.47 | 1.47 | 1.48 | 1.48 | 1.54 | 1.54 | 1.54 | 1.54 | 1.53 | 1.53 | 1.52 |
| 140               | 1.75 | 1.74 | 1.76 | 1.75 | 1.76 | 1.75 | 1.76 | 1.75 | 1.76 | 1.76 | 1.77 | 1.76 | 1.81 | 1.81 | 1.81 | 1.81 | 1.80 | 1.81 | 1.80 |
| 145               | 1.96 | 1.95 | 1.96 | 1.95 | 1.96 | 1.95 | 1.96 | 1.95 | 1.96 | 1.96 | 1.96 | 1.96 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 1.99 |
| 150               | 2.09 | 2.08 | 2.09 | 2.08 | 2.09 | 2.08 | 2.09 | 2.08 | 2.09 | 2.08 | 2.09 | 2.09 | 2.13 | 2.12 | 2.13 | 2.13 | 2.13 | 2.12 | 2.12 |
| 155               | 2.17 | 2.17 | 2.18 | 2.17 | 2.18 | 2.17 | 2.18 | 2.17 | 2.17 | 2.17 | 2.18 | 2.17 | 2.20 | 2.20 | 2.21 | 2.20 | 2.20 | 2.20 | 2.20 |
| 160               | 2.22 | 2.22 | 2.23 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 |
| 165               | 2.24 | 2.23 | 2.24 | 2.23 | 2.24 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | 2.24 | 2.25 |
| 170               | 2.19 | 2.19 | 2.19 | 2.19 | 2.19 | 2.18 | 2.18 | 2.18 | 2.17 | 2.18 | 2.17 | 2.17 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 |
| 175               | 2.08 | 2.07 | 2.07 | 2.06 | 2.06 | 2.06 | 2.05 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.08 | 2.09 |
| 180               | 2.04 | 2.03 | 2.03 | 2.02 | 2.03 | 2.02 | 2.02 | 2.01 | 2.02 | 2.02 | 2.02 | 2.02 | 2.04 | 2.03 | 2.03 | 2.02 | 2.03 | 2.02 | 2.02 |

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:2593.72x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

Table--2

UNIT: x10cd

| C(DEC)  | 285  | 300  | 315  | 330  | 345  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| γ (DEC) |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0       | 1397 | 1397 | 1397 | 1397 | 1397 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5       | 1206 | 1225 | 1225 | 1252 | 1247 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10      | 678  | 704  | 699  | 734  | 726  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15      | 287  | 298  | 293  | 307  | 301  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20      | 159  | 162  | 160  | 164  | 162  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25      | 118  | 119  | 118  | 120  | 120  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30      | 43.0 | 45.3 | 43.5 | 47.7 | 46.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35      | 9.28 | 9.51 | 9.50 | 10.1 | 9.95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40      | 4.26 | 4.32 | 4.35 | 4.52 | 4.50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45      | 3.12 | 3.12 | 3.13 | 3.21 | 3.21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50      | 2.40 | 2.38 | 2.37 | 2.43 | 2.43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55      | 1.80 | 1.79 | 1.79 | 1.85 | 1.85 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60      | 1.43 | 1.43 | 1.44 | 1.48 | 1.50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65      | 1.23 | 1.24 | 1.26 | 1.28 | 1.28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70      | 1.06 | 1.07 | 1.08 | 1.10 | 1.10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75      | 0.91 | 0.92 | 0.93 | 0.94 | 0.95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80      | 0.80 | 0.80 | 0.81 | 0.81 | 0.81 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85      | 0.72 | 0.72 | 0.74 | 0.73 | 0.72 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90      | 0.64 | 0.66 | 0.65 | 0.66 | 0.64 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95      | 0.64 | 0.67 | 0.68 | 0.65 | 0.64 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100     | 0.65 | 0.66 | 0.67 | 0.65 | 0.65 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105     | 0.66 | 0.66 | 0.66 | 0.66 | 0.66 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110     | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115     | 0.73 | 0.73 | 0.74 | 0.74 | 0.74 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120     | 0.82 | 0.81 | 0.82 | 0.81 | 0.82 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125     | 0.97 | 0.96 | 0.97 | 0.96 | 0.96 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130     | 1.22 | 1.21 | 1.21 | 1.20 | 1.20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135     | 1.52 | 1.51 | 1.51 | 1.50 | 1.50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140     | 1.79 | 1.79 | 1.79 | 1.78 | 1.79 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145     | 1.99 | 1.99 | 1.99 | 1.98 | 1.99 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150     | 2.12 | 2.12 | 2.12 | 2.11 | 2.12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155     | 2.20 | 2.20 | 2.20 | 2.20 | 2.20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160     | 2.23 | 2.23 | 2.24 | 2.24 | 2.24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165     | 2.24 | 2.24 | 2.25 | 2.24 | 2.24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170     | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175     | 2.09 | 2.09 | 2.09 | 2.10 | 2.10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180     | 2.01 | 2.02 | 2.02 | 2.02 | 2.02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

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