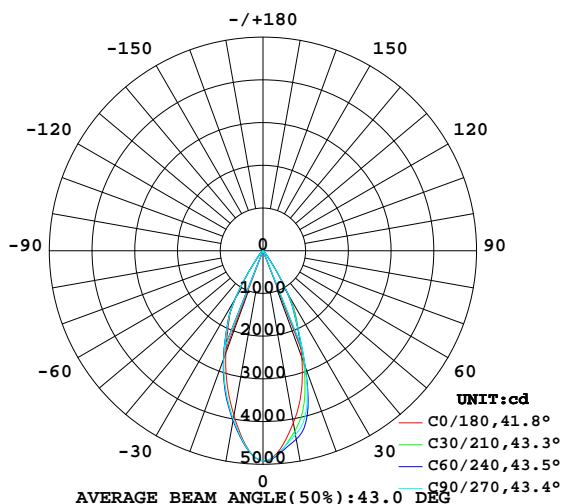


## LUMINAIRE PHOTOMETRIC TEST REPORT

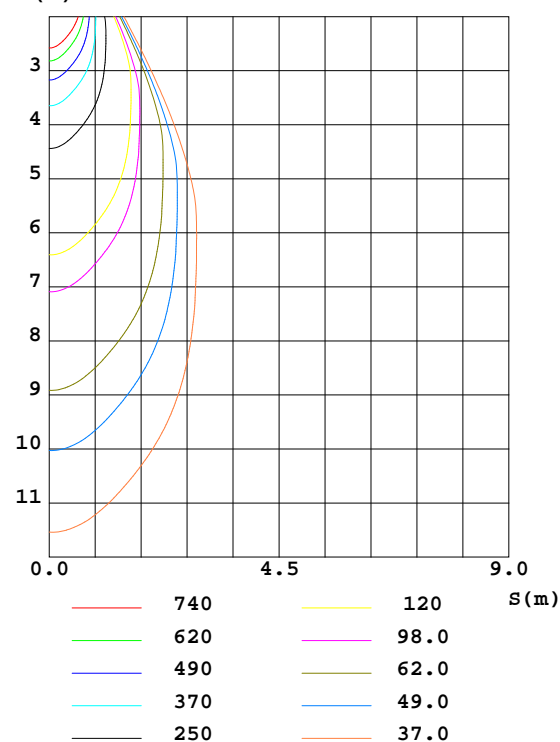
|   |        |                   |
|---|--------|-------------------|
| Test:U:226.5V I:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP     |                    | PHOTOMETRIC DATA Eff: 102.35 lm/W |        |                   |          |
|------------------|--------------------|-----------------------------------|--------|-------------------|----------|
| MODEL            | SD042-30W-830-W-45 | Imax(cd)                          | 4922   | S/MH(C0/180)      | 0.68     |
| NOMINAL POWER(W) | 28                 | LOR(%)                            | 100.0  | S/MH(C90/270)     | 0.70     |
| RATED VOLTAGE(V) | 226                | TOTAL FLUX(lm)                    | 2804.3 | η UP,DN(C0-180)   | 1.3,48.9 |
| NOMINAL FLUX(lm) | 2804.32            | CIE CLASS                         | DIRECT | η UP,DN(C180-360) | 1.4,48.5 |
| LAMPS INSIDE     | 1                  | η up(%)                           | 2.6    | CIBSE SHR NOM     | 0.75     |
| TEST VOLTAGE(V)  | 226.5              | η down(%)                         | 97.4   | CIBSE SHR MAX     | 0.75     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:ZhangXiao  
 Test Date:2016-09-07

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

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | $\%lum, lamp$ |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|---------------|
| 10       | 4096                  | 4420  | 4378  | 4015  | 3919  | 4009  | 4008  | 3988  | 0- 10    | 424.9       | 424.9        | 15.2,15.2     |
| 20       | 2655                  | 2903  | 2886  | 2669  | 2548  | 2680  | 2685  | 2670  | 10- 20   | 963.2       | 1388         | 49.5,49.5     |
| 30       | 1211                  | 1197  | 1149  | 1317  | 1315  | 1295  | 1315  | 1263  | 20- 30   | 891.9       | 2280         | 81.3,81.3     |
| 40       | 150.1                 | 142.6 | 133.2 | 171.9 | 198.1 | 168.8 | 174.6 | 164.9 | 30- 40   | 324.6       | 2605         | 92.9,92.9     |
| 50       | 39.98                 | 38.76 | 37.86 | 44.91 | 51.55 | 43.26 | 44.16 | 42.20 | 40- 50   | 66.89       | 2671         | 95.3,95.3     |
| 60       | 19.69                 | 19.75 | 19.41 | 20.31 | 20.67 | 19.81 | 20.09 | 19.80 | 50- 60   | 25.71       | 2697         | 96.2,96.2     |
| 70       | 12.13                 | 12.08 | 11.88 | 12.24 | 12.18 | 12.05 | 12.17 | 12.08 | 60- 70   | 15.40       | 2713         | 96.7,96.7     |
| 80       | 7.981                 | 7.866 | 7.856 | 7.842 | 8.217 | 8.116 | 8.210 | 8.159 | 70- 80   | 10.43       | 2723         | 97.1,97.1     |
| 90       | 5.844                 | 5.312 | 5.313 | 5.358 | 6.586 | 6.228 | 6.258 | 6.251 | 80- 90   | 7.502       | 2730         | 97.4,97.4     |
| 100      | 5.422                 | 5.270 | 5.271 | 5.191 | 6.815 | 6.635 | 6.665 | 6.707 | 90-100   | 6.414       | 2737         | 97.6,97.6     |
| 110      | 6.388                 | 6.308 | 6.335 | 6.305 | 7.731 | 7.729 | 7.732 | 7.847 | 100-110  | 6.770       | 2744         | 97.8,97.8     |
| 120      | 8.952                 | 8.910 | 8.960 | 8.872 | 9.997 | 10.10 | 10.10 | 10.13 | 110-120  | 8.081       | 2752         | 98.1,98.1     |
| 130      | 12.83                 | 12.81 | 12.88 | 12.76 | 13.58 | 13.68 | 13.66 | 13.68 | 120-130  | 10.09       | 2762         | 98.5,98.5     |
| 140      | 17.21                 | 17.18 | 17.20 | 17.21 | 17.62 | 17.65 | 17.63 | 17.76 | 130-140  | 11.84       | 2774         | 98.9,98.9     |
| 150      | 20.69                 | 20.86 | 20.82 | 20.71 | 20.97 | 20.95 | 20.98 | 21.09 | 140-150  | 12.09       | 2786         | 99.3,99.3     |
| 160      | 22.14                 | 22.17 | 22.24 | 22.18 | 22.29 | 22.38 | 22.46 | 22.46 | 150-160  | 10.05       | 2796         | 99.7,99.7     |
| 170      | 22.49                 | 22.48 | 22.52 | 22.51 | 22.62 | 22.58 | 22.50 | 22.65 | 160-170  | 6.364       | 2802         | 99.9,99.9     |
| 180      | 23.03                 | 23.05 | 23.05 | 22.97 | 23.04 | 23.05 | 23.05 | 22.97 | 170-180  | 2.164       | 2804         | 100,100       |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT:lm     |              |               |

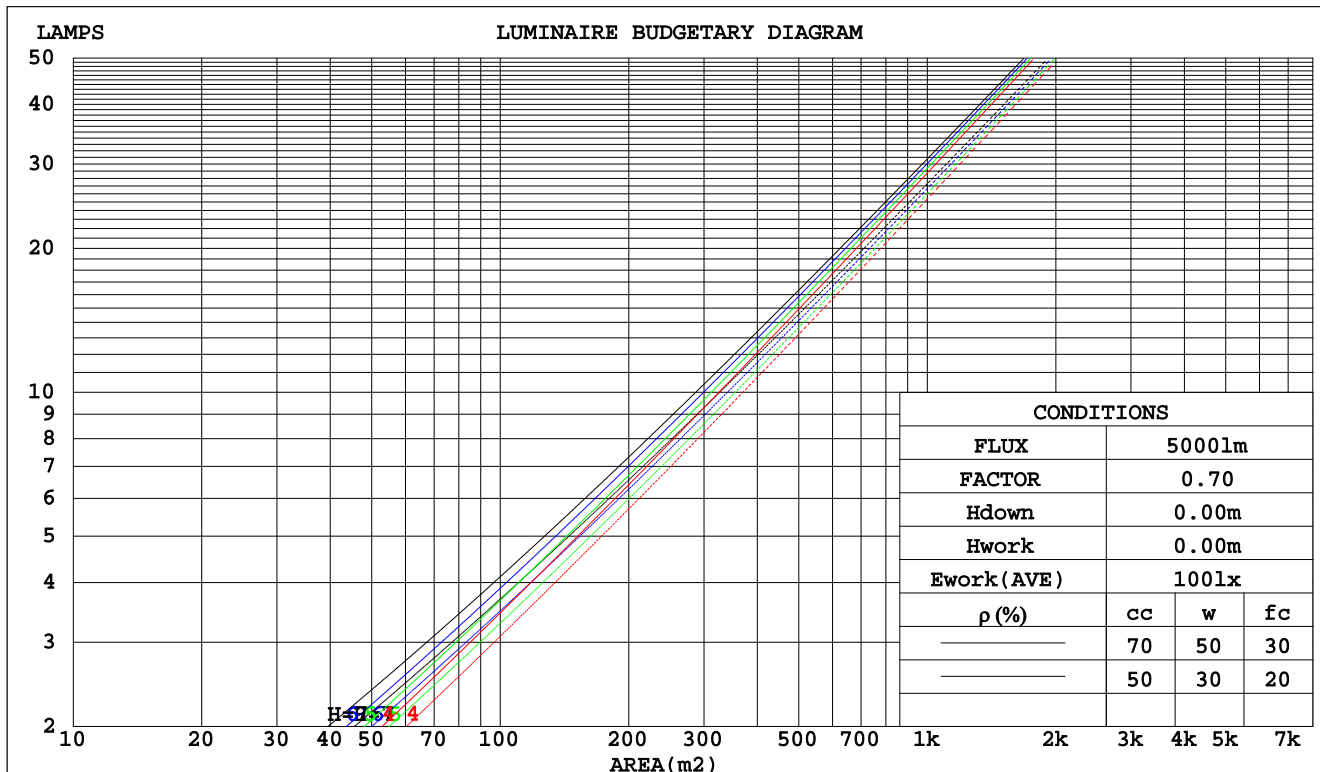
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-09-07

$\gamma$  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:

### CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|   |        |                   |
|---|--------|-------------------|
| Test:U:226.5V I:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 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  | 1.18                            | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 1.10 | 1.10 | 1.10 | 1.04 | 1.04 | 1.04 | .00 | .00 | .00 | .97 |
| 1.0  | 1.10                            | 1.08 | 1.06 | 1.08 | 1.06 | 1.04 | 1.04 | 1.02 | 1.00 | .99  | .98  | .97  | .96 | .95 | .94 | .92 |
| 2.0  | 1.03                            | .00  | .96  | 1.01 | .98  | .95  | .98  | .95  | .93  | .95  | .92  | .90  | .91 | .90 | .88 | .86 |
| 3.0  | .97                             | .93  | .89  | .96  | .91  | .88  | .93  | .89  | .86  | .90  | .87  | .85  | .87 | .85 | .83 | .81 |
| 4.0  | .92                             | .86  | .83  | .90  | .86  | .82  | .88  | .84  | .81  | .86  | .82  | .80  | .83 | .81 | .78 | .77 |
| 5.0  | .87                             | .81  | .77  | .85  | .80  | .77  | .83  | .79  | .76  | .82  | .78  | .75  | .80 | .77 | .74 | .73 |
| 6.0  | .82                             | .76  | .73  | .81  | .76  | .72  | .79  | .75  | .72  | .78  | .74  | .71  | .76 | .73 | .70 | .69 |
| 7.0  | .78                             | .72  | .68  | .77  | .72  | .68  | .76  | .71  | .68  | .74  | .70  | .67  | .73 | .69 | .67 | .65 |
| 8.0  | .74                             | .69  | .65  | .73  | .68  | .65  | .72  | .67  | .64  | .71  | .67  | .64  | .70 | .66 | .63 | .62 |
| 9.0  | .70                             | .65  | .61  | .70  | .65  | .61  | .69  | .64  | .61  | .68  | .64  | .61  | .67 | .63 | .60 | .59 |
| 10.0 | .67                             | .62  | .58  | .67  | .62  | .58  | .66  | .61  | .58  | .65  | .61  | .58  | .64 | .60 | .58 | .56 |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-09-07

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:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 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  | .171                  | .097 | .031 | .164 | .093 | .030 | .150                            | .086 | .027 | .137 | .079 | .025 | .125 | .072 | .023 |   |  |
| 2.0  | .161                  | .088 | .027 | .155 | .085 | .026 | .143                            | .079 | .025 | .132 | .074 | .023 | .122 | .069 | .022 |   |  |
| 3.0  | .152                  | .081 | .024 | .146 | .078 | .024 | .136                            | .074 | .022 | .127 | .069 | .021 | .118 | .065 | .020 |   |  |
| 4.0  | .144                  | .075 | .022 | .139 | .073 | .021 | .130                            | .069 | .021 | .122 | .065 | .020 | .114 | .062 | .019 |   |  |
| 5.0  | .136                  | .069 | .020 | .132 | .068 | .020 | .124                            | .065 | .019 | .117 | .062 | .018 | .110 | .059 | .018 |   |  |
| 6.0  | .130                  | .065 | .019 | .126 | .064 | .018 | .119                            | .061 | .018 | .113 | .059 | .017 | .107 | .056 | .017 |   |  |
| 7.0  | .124                  | .061 | .017 | .120 | .060 | .017 | .114                            | .058 | .017 | .108 | .056 | .016 | .103 | .054 | .016 |   |  |
| 8.0  | .118                  | .058 | .016 | .115 | .057 | .016 | .110                            | .055 | .016 | .105 | .053 | .015 | .100 | .051 | .015 |   |  |
| 9.0  | .113                  | .055 | .015 | .110 | .054 | .015 | .106                            | .052 | .015 | .101 | .051 | .014 | .096 | .049 | .014 |   |  |
| 10.0 | .108                  | .052 | .014 | .106 | .051 | .014 | .102                            | .050 | .014 | .097 | .048 | .014 | .093 | .047 | .013 |   |  |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .211                  | .211 | .211 | .180 | .180 | .180 | .123                                       | .123 | .123 | .071 | .071 | .071 | .023 | .023 | .023 |   |
| 1.0  | .191                  | .178 | .166 | .163 | .152 | .142 | .112                                       | .105 | .099 | .064 | .061 | .057 | .021 | .020 | .019 |   |
| 2.0  | .175                  | .153 | .134 | .150 | .132 | .116 | .103                                       | .091 | .081 | .059 | .053 | .047 | .019 | .017 | .015 |   |
| 3.0  | .162                  | .134 | .111 | .139 | .116 | .097 | .095                                       | .080 | .068 | .055 | .047 | .040 | .018 | .015 | .013 |   |
| 4.0  | .151                  | .119 | .095 | .130 | .103 | .082 | .089                                       | .072 | .058 | .052 | .042 | .034 | .017 | .014 | .011 |   |
| 5.0  | .142                  | .107 | .082 | .122 | .093 | .071 | .084                                       | .065 | .050 | .049 | .038 | .030 | .016 | .012 | .010 |   |
| 6.0  | .134                  | .098 | .072 | .116 | .085 | .063 | .080                                       | .059 | .044 | .046 | .035 | .026 | .015 | .011 | .009 |   |
| 7.0  | .128                  | .090 | .064 | .110 | .078 | .056 | .076                                       | .055 | .040 | .044 | .032 | .024 | .014 | .011 | .008 |   |
| 8.0  | .122                  | .084 | .058 | .105 | .073 | .051 | .073                                       | .051 | .036 | .042 | .030 | .021 | .014 | .010 | .007 |   |
| 9.0  | .117                  | .079 | .053 | .101 | .068 | .046 | .070                                       | .048 | .033 | .041 | .028 | .020 | .013 | .009 | .007 |   |
| 10.0 | .112                  | .074 | .049 | .097 | .065 | .043 | .067                                       | .045 | .031 | .039 | .027 | .018 | .013 | .009 | .006 |   |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-09-07

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:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 lm |     |                  |      |      |        |      |                |                   |      |      |      |
| NAME:   |     |                  |      |      | TYPE:  |      |                | WEIGHT:           |      |      |      |
| DIM.:   |     |                  |      |      | SPEC.: |      |                | SERIAL No.:       |      |      |      |
| MFR.: Rayconn   |     |                  |      |      | SUR.:  |      |                | PROTECTION ANGLE: |      |      |      |
| ceiling/cavity  | 0.7 | 0.7              | 0.5  | 0.5  | 0.3    | 0.7  | 0.7            | 0.5               | 0.5  | 0.3  |      |
| walls   | 0.5 | 0.3              | 0.5  | 0.3  | 0.3    | 0.5  | 0.3            | 0.5               | 0.3  | 0.3  |      |
| working plane   | 0.2 | 0.2              | 0.2  | 0.2  | 0.2    | 0.2  | 0.2            | 0.2               | 0.2  | 0.2  |      |
| Room dimensions   |     | Viewed crosswise |      |      |        |      | Viewed endwise |                   |      |      |      |
| x = 2H y = 2H   | 2H  | 16.8             | 17.7 | 17.1 | 17.9   | 18.1 | 16.4           | 17.3              | 16.7 | 17.5 | 17.7 |
|   | 3H  | 16.9             | 17.6 | 17.1 | 17.9   | 18.1 | 16.5           | 17.2              | 16.7 | 17.5 | 17.7 |
|   | 4H  | 16.9             | 17.6 | 17.2 | 17.9   | 18.2 | 16.5           | 17.2              | 16.8 | 17.5 | 17.8 |
|   | 6H  | 17.0             | 17.7 | 17.3 | 17.9   | 18.2 | 16.6           | 17.3              | 16.9 | 17.6 | 17.9 |
|   | 8H  | 17.0             | 17.7 | 17.4 | 18.0   | 18.3 | 16.7           | 17.3              | 17.0 | 17.6 | 17.9 |
|   | 12H | 17.1             | 17.8 | 17.5 | 18.1   | 18.4 | 16.8           | 17.4              | 17.1 | 17.7 | 18.1 |
| 4H  | 2H  | 16.7             | 17.4 | 17.0 | 17.7   | 17.9 | 16.3           | 17.0              | 16.6 | 17.3 | 17.5 |
|   | 3H  | 16.7             | 17.4 | 17.1 | 17.7   | 18.0 | 16.4           | 17.0              | 16.7 | 17.3 | 17.6 |
|   | 4H  | 16.8             | 17.4 | 17.2 | 17.8   | 18.1 | 16.5           | 17.1              | 16.9 | 17.4 | 17.8 |
|   | 6H  | 17.0             | 17.5 | 17.4 | 17.9   | 18.3 | 16.7           | 17.2              | 17.1 | 17.6 | 18.0 |
|   | 8H  | 17.2             | 17.6 | 17.6 | 18.0   | 18.4 | 16.8           | 17.3              | 17.3 | 17.7 | 18.1 |
|   | 12H | 17.4             | 17.8 | 17.8 | 18.2   | 18.7 | 17.0           | 17.5              | 17.5 | 17.9 | 18.3 |
| 8H  | 4H  | 16.8             | 17.3 | 17.2 | 17.7   | 18.1 | 16.4           | 16.9              | 16.9 | 17.3 | 17.7 |
|   | 6H  | 17.1             | 17.5 | 17.5 | 17.9   | 18.4 | 16.8           | 17.1              | 17.2 | 17.6 | 18.1 |
|   | 8H  | 17.3             | 17.7 | 17.8 | 18.1   | 18.6 | 17.0           | 17.4              | 17.5 | 17.8 | 18.3 |
|   | 12H | 17.7             | 18.0 | 18.2 | 18.5   | 19.0 | 17.4           | 17.7              | 17.9 | 18.2 | 18.7 |
| 12H   | 4H  | 16.8             | 17.2 | 17.2 | 17.6   | 18.1 | 16.4           | 16.9              | 16.9 | 17.3 | 17.7 |
|   | 6H  | 17.1             | 17.4 | 17.6 | 17.9   | 18.4 | 16.8           | 17.1              | 17.3 | 17.6 | 18.1 |
|   | 8H  | 17.4             | 17.7 | 17.9 | 18.2   | 18.7 | 17.1           | 17.4              | 17.6 | 17.9 | 18.4 |
| Variations with the observer position at spacings:                |     |                  |      |      |        |      |                |                   |      |      |      |
| S = 1.0H  |     | + 1.7 / - 1.6    |      |      |        |      | + 1.5 / - 1.4  |                   |      |      |      |
| 1.5H  |     | + 3.3 / - 1.4    |      |      |        |      | + 3.0 / - 1.2  |                   |      |      |      |
| 2.0H  |     | + 1.6 / - 0.5    |      |      |        |      | + 1.3 / - 0.5  |                   |      |      |      |

CIE Pub.117 Corrected 2804 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:2016-09-07

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:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

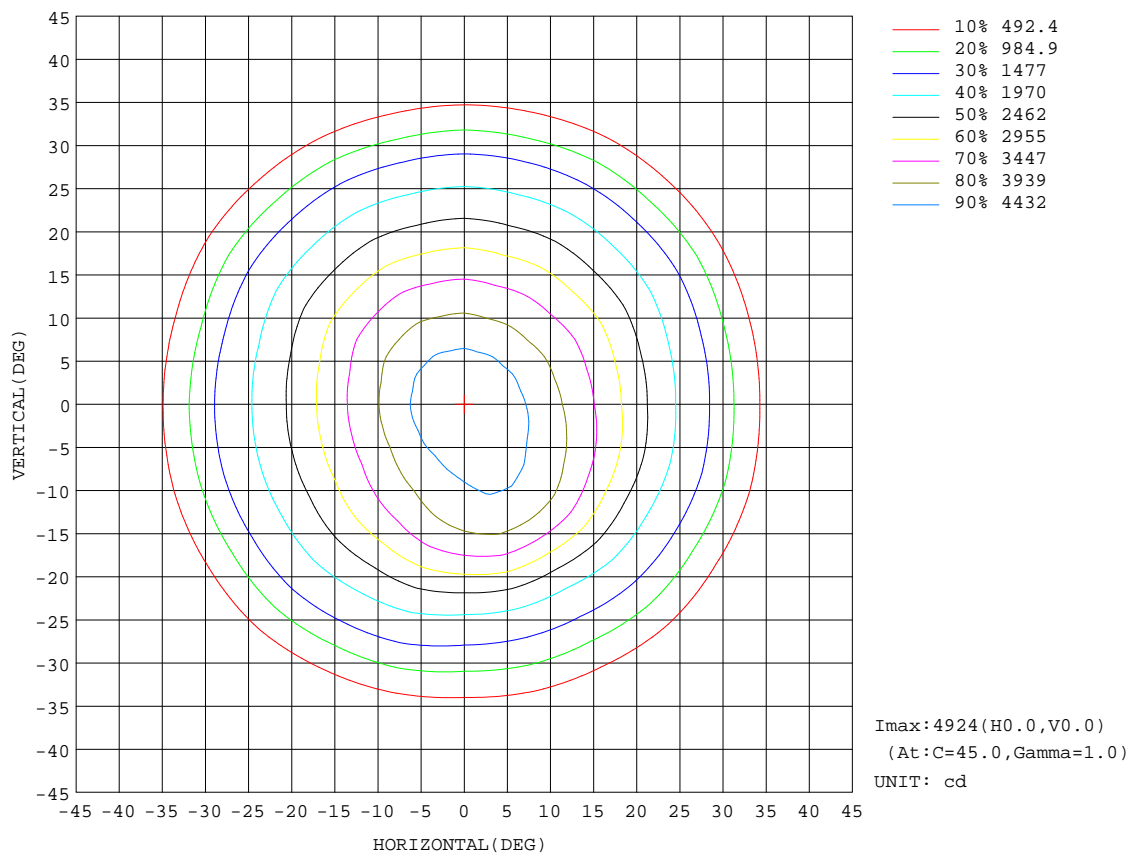
| REFLECTANCE                      |   |     |           |     |     |     |     |               |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5 | 0.5           | 0.5 | 0      |
| Walls                            | 0.7   | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7 | 0.5           | 0.3 | 0      |
| Working plane                    | 0.2   | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 87  | 81  | 77        | 87  | 81  | 77  | 86  | 80            | 77  | 73     |
| 0.80                             | 94  | 89  | 85        | 94  | 88  | 85  | 92  | 87            | 84  | 81     |
| 1.00                             | 99  | 93  | 89        | 98  | 92  | 89  | 96  | 92            | 88  | 84     |
| 1.25                             | 102   | 97  | 94        | 101 | 97  | 93  | 99  | 95            | 92  | 88     |
| 1.50                             | 105   | 100 | 97        | 104 | 99  | 96  | 101 | 98            | 95  | 90     |
| 2.00                             | 108   | 103 | 100       | 106 | 102 | 99  | 103 | 100           | 98  | 92     |
| 2.50                             | 109   | 106 | 102       | 108 | 104 | 101 | 104 | 101           | 99  | 93     |
| 3.00                             | 111   | 107 | 105       | 109 | 106 | 103 | 105 | 103           | 101 | 94     |
| 4.00                             | 113   | 110 | 108       | 111 | 108 | 106 | 107 | 105           | 103 | 95     |
| 5.00                             | 114   | 112 | 110       | 112 | 110 | 108 | 108 | 106           | 105 | 96     |
| ROOM INDEX                       | UF(total)   |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-09-07

$\gamma$  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:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |



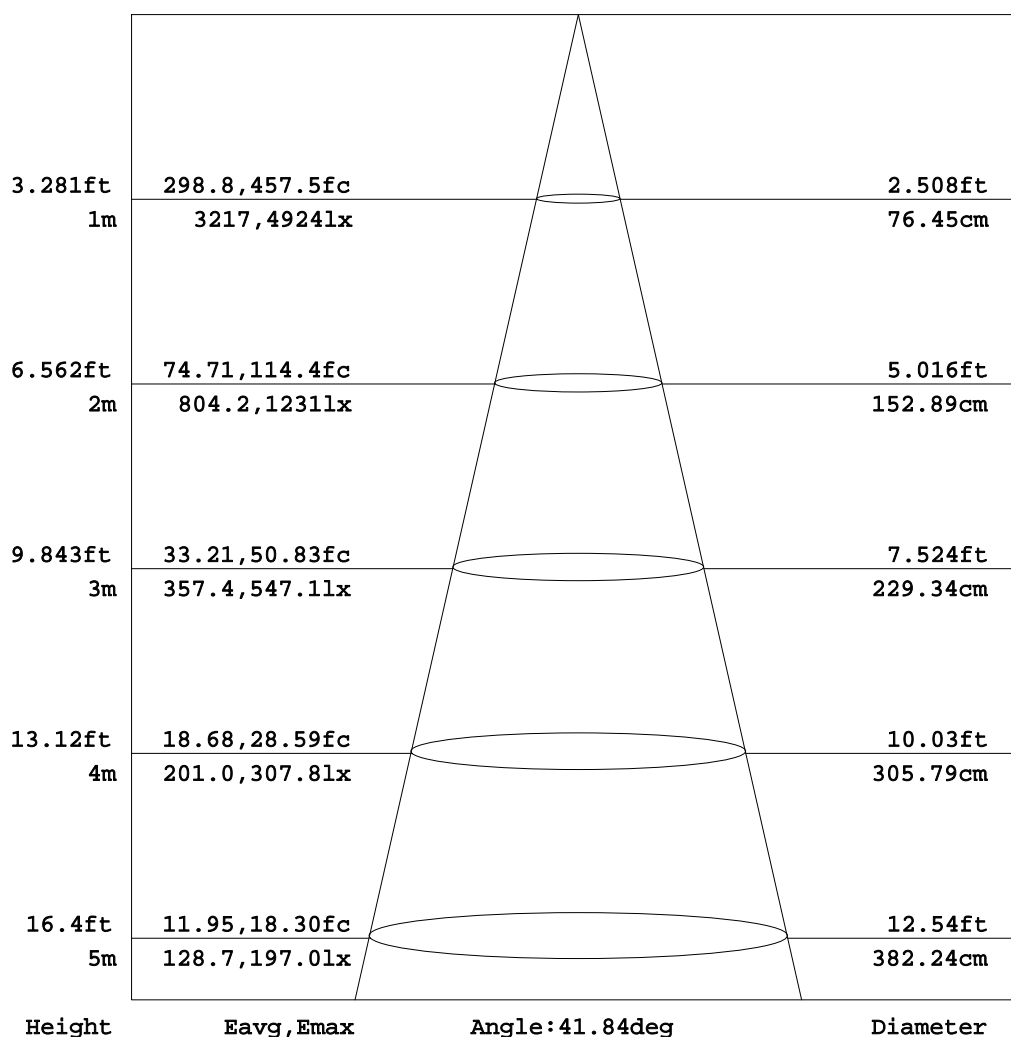
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZhangXiao  
Test Date: 2016-09-07

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:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

Flux out:1489 lm



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

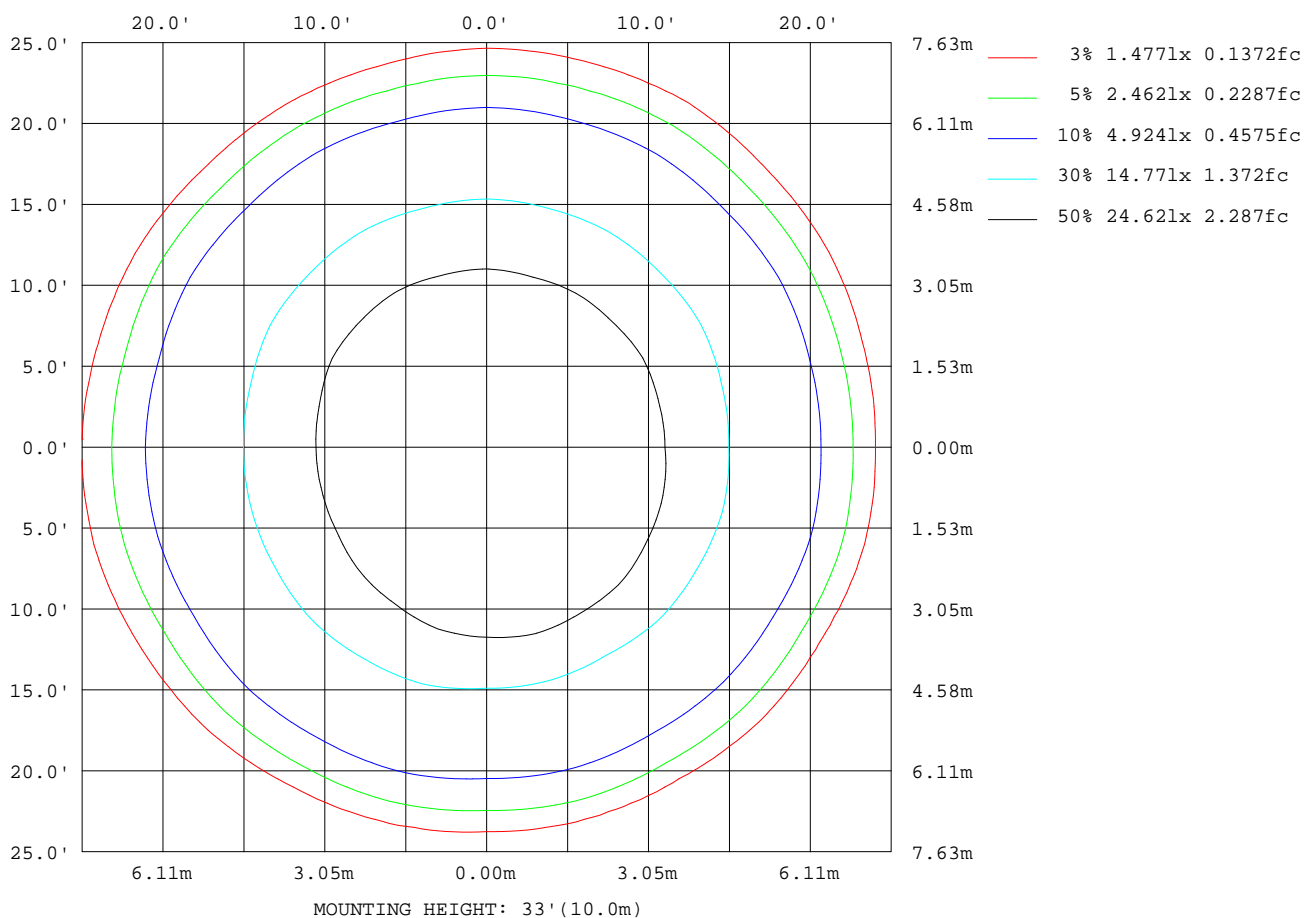
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-09-07

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

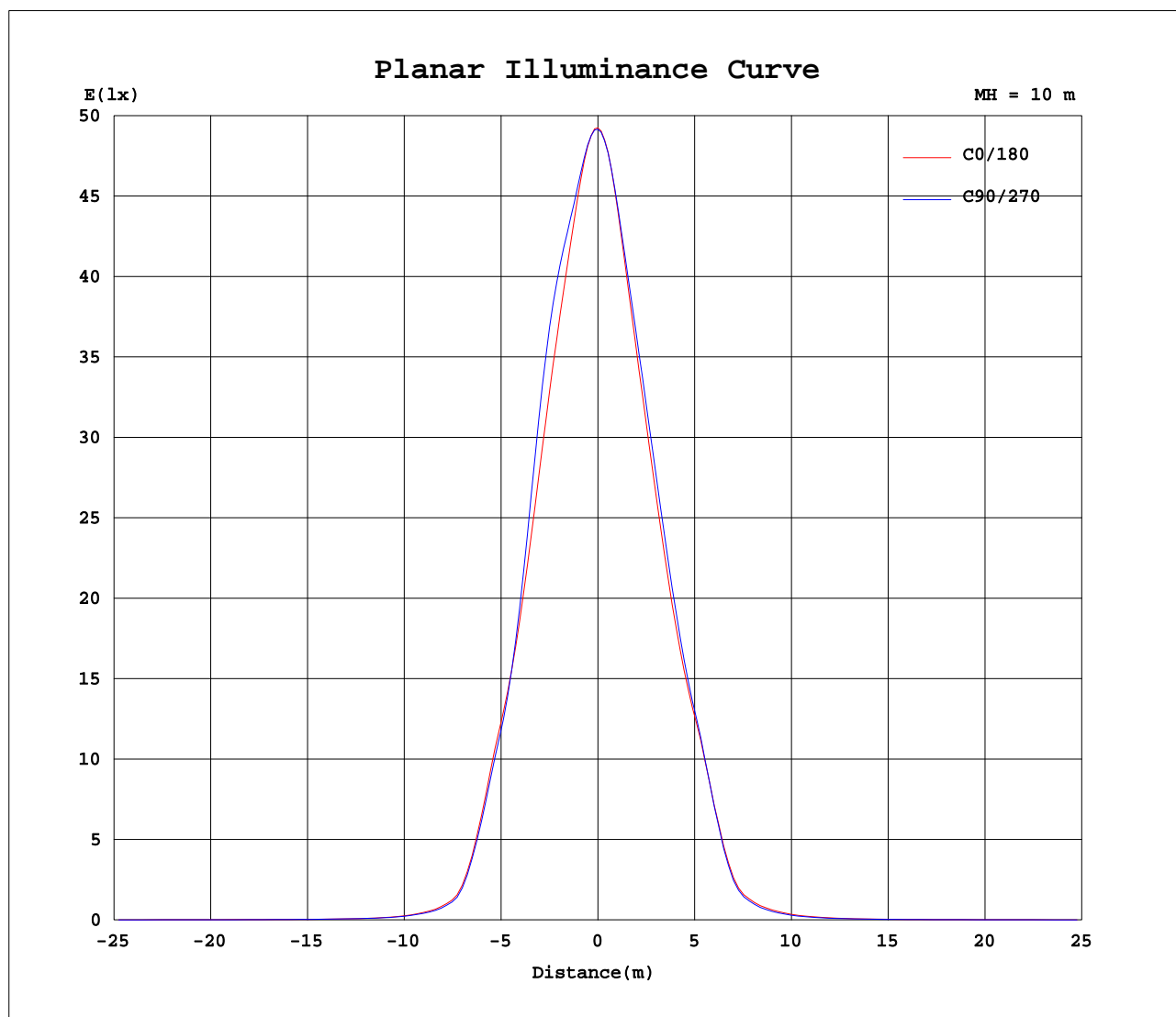
|   |        |                   |
|---|--------|-------------------|
| Test:U:226.5V I:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZhangXiao  
Test Date: 2016-09-07

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: 2016-09-07

$\gamma$  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:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 lm |  |  |  |  |  |  |  |  |  |        |  |  |  |  |                   |  |  |  |  |
| NAME:   |  |  |  |  |  |  |  |  |  | TYPE:  |  |  |  |  | WEIGHT:           |  |  |  |  |
| DIM.:   |  |  |  |  |  |  |  |  |  | SPEC.: |  |  |  |  | SERIAL No.:       |  |  |  |  |
| MFR.: Rayconn   |  |  |  |  |  |  |  |  |  | SUR.:  |  |  |  |  | PROTECTION ANGLE: |  |  |  |  |

Table--1

UNIT: cd

| 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                 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 | 4918  | 4918 | 4918 | 4918 | 4918 | 4918 | 4918 |
| 5                 | 4655 | 4700 | 4717 | 4750 | 4747 | 4743 | 4704 | 4676 | 4626 | 4608 | 4576 | 4584 | 4581  | 4570 | 4604 | 4594 | 4612 | 4589 | 4601 |
| 10                | 4096 | 4188 | 4292 | 4420 | 4483 | 4475 | 4378 | 4249 | 4108 | 4015 | 3935 | 3916 | 3919  | 3930 | 4007 | 4009 | 4038 | 4003 | 4008 |
| 15                | 3451 | 3577 | 3710 | 3913 | 3999 | 4034 | 3900 | 3740 | 3526 | 3403 | 3278 | 3247 | 3244  | 3283 | 3381 | 3395 | 3420 | 3377 | 3384 |
| 20                | 2655 | 2741 | 2783 | 2903 | 2893 | 2967 | 2886 | 2855 | 2717 | 2669 | 2574 | 2553 | 2548  | 2580 | 2686 | 2680 | 2713 | 2667 | 2685 |
| 25                | 1901 | 1936 | 1909 | 1921 | 1846 | 1872 | 1866 | 1950 | 1941 | 1963 | 1928 | 1929 | 1926  | 1934 | 2004 | 1992 | 2013 | 1981 | 1999 |
| 30                | 1211 | 1248 | 1188 | 1197 | 1137 | 1166 | 1149 | 1248 | 1255 | 1317 | 1275 | 1318 | 1315  | 1283 | 1337 | 1295 | 1319 | 1277 | 1315 |
| 35                | 394  | 412  | 378  | 391  | 361  | 379  | 364  | 402  | 409  | 454  | 447  | 484  | 479   | 463  | 481  | 443  | 447  | 429  | 450  |
| 40                | 150  | 153  | 140  | 143  | 131  | 137  | 133  | 149  | 154  | 172  | 182  | 197  | 198   | 189  | 181  | 169  | 168  | 168  | 175  |
| 45                | 73.9 | 72.6 | 70.1 | 68.3 | 66.1 | 66.0 | 67.1 | 71.2 | 75.5 | 84.4 | 90.5 | 99.4 | 100   | 93.8 | 89.3 | 81.8 | 82.2 | 80.8 | 84.6 |
| 50                | 40.0 | 40.1 | 39.0 | 38.8 | 37.7 | 38.0 | 37.9 | 39.6 | 41.3 | 44.9 | 47.8 | 51.6 | 51.6  | 48.4 | 46.2 | 43.3 | 43.0 | 42.7 | 44.2 |
| 55                | 26.7 | 27.0 | 26.7 | 26.8 | 26.4 | 26.4 | 26.2 | 26.7 | 27.1 | 28.3 | 29.4 | 30.7 | 30.4  | 29.1 | 28.5 | 27.5 | 27.5 | 27.4 | 27.9 |
| 60                | 19.7 | 20.0 | 19.7 | 19.8 | 19.5 | 19.6 | 19.4 | 19.7 | 19.7 | 20.3 | 20.6 | 21.2 | 20.7  | 20.3 | 20.3 | 19.8 | 19.9 | 19.8 | 20.1 |
| 65                | 15.3 | 15.5 | 15.3 | 15.2 | 15.0 | 15.1 | 15.0 | 15.2 | 15.3 | 15.7 | 15.7 | 16.0 | 15.5  | 15.4 | 15.5 | 15.3 | 15.3 | 15.2 | 15.4 |
| 70                | 12.1 | 12.3 | 12.1 | 12.1 | 12.0 | 12.0 | 11.9 | 12.0 | 12.0 | 12.2 | 12.3 | 12.5 | 12.2  | 12.1 | 12.2 | 12.1 | 12.1 | 12.1 | 12.2 |
| 75                | 9.68 | 9.84 | 9.67 | 9.70 | 9.62 | 9.67 | 9.59 | 9.71 | 9.66 | 9.81 | 9.81 | 9.94 | 9.94  | 9.86 | 9.88 | 9.85 | 9.91 | 9.86 | 9.93 |
| 80                | 7.98 | 8.01 | 7.90 | 7.87 | 7.84 | 7.88 | 7.86 | 7.86 | 7.82 | 7.84 | 7.83 | 7.88 | 8.22  | 8.12 | 8.13 | 8.12 | 8.20 | 8.21 | 8.21 |
| 85                | 6.88 | 6.70 | 6.56 | 6.56 | 6.53 | 6.51 | 6.49 | 6.54 | 6.50 | 6.54 | 6.43 | 6.44 | 7.28  | 7.08 | 7.07 | 7.07 | 7.13 | 7.10 | 7.12 |
| 90                | 5.84 | 5.53 | 5.36 | 5.31 | 5.39 | 5.29 | 5.31 | 5.37 | 5.38 | 5.36 | 5.25 | 5.19 | 6.59  | 6.29 | 6.22 | 6.23 | 6.32 | 6.25 | 6.26 |
| 95                | 5.60 | 5.41 | 5.25 | 5.23 | 5.28 | 5.23 | 5.25 | 5.22 | 5.26 | 5.16 | 5.15 | 5.11 | 6.77  | 6.54 | 6.42 | 6.41 | 6.45 | 6.43 | 6.44 |
| 100               | 5.42 | 5.32 | 5.29 | 5.27 | 5.29 | 5.28 | 5.27 | 5.26 | 5.30 | 5.19 | 5.16 | 5.15 | 6.81  | 6.68 | 6.63 | 6.64 | 6.65 | 6.66 | 6.67 |
| 105               | 5.66 | 5.61 | 5.62 | 5.61 | 5.63 | 5.61 | 5.62 | 5.60 | 5.67 | 5.55 | 5.55 | 5.53 | 7.11  | 7.07 | 7.03 | 7.05 | 7.04 | 7.07 | 7.06 |
| 110               | 6.39 | 6.33 | 6.35 | 6.31 | 6.35 | 6.31 | 6.34 | 6.30 | 6.35 | 6.30 | 6.33 | 6.27 | 7.73  | 7.74 | 7.70 | 7.73 | 7.69 | 7.74 | 7.73 |
| 115               | 7.50 | 7.43 | 7.48 | 7.41 | 7.47 | 7.41 | 7.45 | 7.40 | 7.46 | 7.41 | 7.46 | 7.37 | 8.69  | 8.72 | 8.67 | 8.72 | 8.69 | 8.75 | 8.73 |
| 120               | 8.95 | 8.89 | 8.97 | 8.91 | 8.99 | 8.91 | 8.96 | 8.88 | 8.94 | 8.87 | 8.92 | 8.82 | 10.00 | 10.1 | 10.0 | 10.1 | 10.1 | 10.2 | 10.1 |
| 125               | 10.7 | 10.7 | 10.8 | 10.7 | 10.8 | 10.7 | 10.8 | 10.7 | 10.8 | 10.7 | 10.7 | 10.6 | 11.6  | 11.7 | 11.7 | 11.8 | 11.8 | 11.8 | 11.8 |
| 130               | 12.8 | 12.8 | 12.9 | 12.8 | 12.9 | 12.8 | 12.9 | 12.8 | 12.9 | 12.8 | 12.8 | 12.8 | 13.6  | 13.6 | 13.6 | 13.7 | 13.7 | 13.7 | 13.7 |
| 135               | 15.1 | 15.0 | 15.1 | 15.0 | 15.0 | 15.0 | 15.1 | 15.1 | 15.1 | 15.0 | 15.1 | 15.1 | 15.6  | 15.7 | 15.6 | 15.7 | 15.6 | 15.7 | 15.7 |
| 140               | 17.2 | 17.2 | 17.3 | 17.2 | 17.2 | 17.1 | 17.2 | 17.2 | 17.3 | 17.2 | 17.3 | 17.2 | 17.6  | 17.7 | 17.6 | 17.6 | 17.6 | 17.7 | 17.6 |
| 145               | 19.1 | 19.1 | 19.6 | 19.4 | 19.2 | 19.1 | 19.2 | 19.7 | 19.3 | 19.1 | 19.2 | 19.2 | 19.6  | 19.5 | 19.4 | 19.4 | 19.5 | 19.6 | 19.5 |
| 150               | 20.7 | 20.7 | 20.9 | 20.9 | 20.8 | 20.7 | 20.8 | 20.9 | 20.8 | 20.7 | 20.7 | 20.7 | 21.0  | 20.9 | 20.9 | 20.9 | 21.0 | 21.0 | 21.0 |
| 155               | 21.7 | 21.7 | 21.7 | 21.7 | 21.8 | 21.8 | 21.8 | 21.8 | 21.7 | 21.7 | 21.7 | 21.7 | 21.9  | 21.9 | 21.9 | 21.9 | 21.9 | 22.0 | 22.0 |
| 160               | 22.1 | 22.1 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.3  | 22.3 | 22.3 | 22.4 | 22.4 | 22.4 | 22.5 |
| 165               | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.5  | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 |
| 170               | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.4 | 22.6  | 22.6 | 22.6 | 22.6 | 22.5 | 22.5 | 22.5 |
| 175               | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.6 | 22.8  | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.7 |
| 180               | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.1 | 23.1 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0  | 23.0 | 23.0 | 23.1 | 23.0 | 23.1 | 23.1 |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-09-07

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:0.1250A P:27.40W PF:0.9610 Lamp Flux:2804.32x1 lm |        |                   |
| NAME:   | TYPE:  | WEIGHT:           |
| DIM.:   | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn   | SUR.:  | PROTECTION ANGLE: |

Table--2

UNIT: cd

| C(DEG)<br>γ (DEG) | 285  | 300  | 315  | 330  | 345  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 4918 | 4918 | 4918 | 4918 | 4918 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 4578 | 4595 | 4585 | 4621 | 4622 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 3974 | 4000 | 3988 | 4036 | 4044 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 3346 | 3377 | 3374 | 3429 | 3416 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 2648 | 2686 | 2670 | 2713 | 2657 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 1974 | 1989 | 1967 | 1981 | 1922 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 1289 | 1301 | 1263 | 1288 | 1227 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 439  | 446  | 415  | 419  | 396  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 173  | 176  | 165  | 161  | 153  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 83.1 | 84.6 | 79.2 | 78.1 | 73.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 43.7 | 44.0 | 42.2 | 41.8 | 40.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 27.7 | 27.9 | 27.3 | 27.2 | 26.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 19.9 | 20.1 | 19.8 | 19.9 | 19.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 15.3 | 15.3 | 15.3 | 15.3 | 15.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 12.1 | 12.1 | 12.1 | 12.1 | 12.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 9.86 | 9.85 | 9.79 | 9.86 | 9.77 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 8.19 | 8.16 | 8.16 | 8.17 | 8.22 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 7.12 | 7.12 | 7.12 | 7.14 | 7.16 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 6.24 | 6.24 | 6.25 | 6.26 | 6.28 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 6.45 | 6.45 | 6.46 | 6.47 | 6.49 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 6.67 | 6.69 | 6.71 | 6.71 | 6.74 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 7.10 | 7.11 | 7.15 | 7.15 | 7.17 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 7.80 | 7.79 | 7.85 | 7.83 | 7.88 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 8.81 | 8.77 | 8.83 | 8.79 | 8.86 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 10.2 | 10.1 | 10.1 | 10.1 | 10.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 11.8 | 11.7 | 11.8 | 11.7 | 11.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 13.7 | 13.6 | 13.7 | 13.6 | 13.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 15.7 | 15.7 | 15.8 | 15.7 | 15.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 17.7 | 17.7 | 17.8 | 17.7 | 17.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 19.5 | 19.5 | 19.7 | 19.7 | 19.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 21.0 | 21.0 | 21.1 | 21.1 | 21.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 22.4 | 22.4 | 22.5 | 22.4 | 22.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 22.6 | 22.6 | 22.6 | 22.7 | 22.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 22.5 | 22.6 | 22.6 | 22.7 | 22.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 22.7 | 22.7 | 22.7 | 22.8 | 22.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-09-07

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: