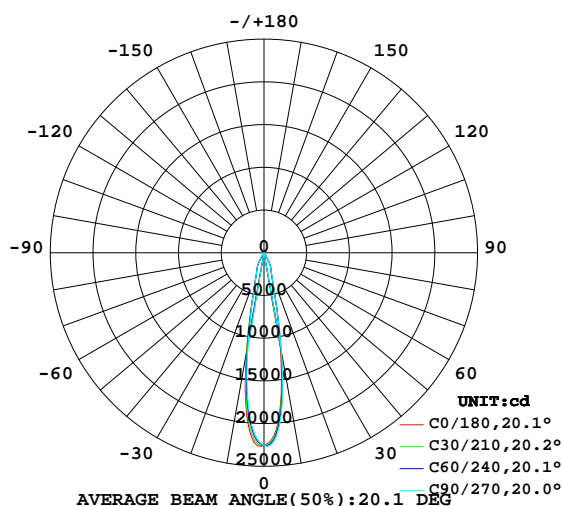


## LUMINAIRE PHOTOMETRIC TEST REPORT

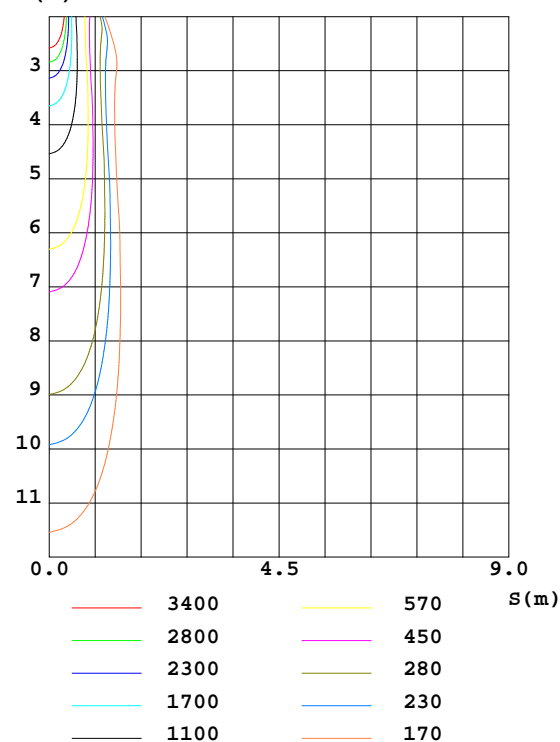
|  |        |                   |
|--|--------|-------------------|
| Test:U:226.6V I:0.1790A P:38.60W PF:0.9480 Lamp Flux:4189.3x1 lm |        |                   |
| NAME:  | TYPE:  | WEIGHT:           |
| DIM.:  | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn  | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP     |                    | PHOTOMETRIC DATA Eff: 108.53 lm/W |        |                   |          |
|------------------|--------------------|-----------------------------------|--------|-------------------|----------|
| MODEL            | SD032-40W-840-W-20 | Imax(cd)                          | 22740  | S/MH(C0/180)      | 0.34     |
| NOMINAL POWER(W) | 38                 | LOR(%)                            | 100.0  | S/MH(C90/270)     | 0.34     |
| RATED VOLTAGE(V) | 226                | TOTAL FLUX(lm)                    | 4189.3 | η UP,DN(C0-180)   | 1.3,49.5 |
| NOMINAL FLUX(lm) | 4189.3             | CIE CLASS                         | DIRECT | η UP,DN(C180-360) | 1.4,47.8 |
| LAMPS INSIDE     | 1                  | η up(%)                           | 2.7    | CIBSE SHR NOM     | 0.00     |
| TEST VOLTAGE(V)  | 226.6              | η down(%)                         | 97.3   | CIBSE SHR MAX     | 1.00     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-08-01

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:6.610m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

| γ   | C0                       | C45    | C90    | C135   | C180  | C225  | C270  | C315  | γ       | Φ zone  | Φ total | %lum, lamp |
|-----|--------------------------|--------|--------|--------|-------|-------|-------|-------|---------|---------|---------|------------|
| 10  | 1100                     | 1171   | 1184   | 1228   | 1188  | 1105  | 1081  | 1046  | 0- 10   | 1620    | 1620    | 38.7,38.7  |
| 20  | 253.1                    | 258.5  | 256.9  | 261.4  | 255.2 | 259.6 | 260.6 | 250.3 | 10- 20  | 1431    | 3051    | 72.8,72.8  |
| 30  | 64.62                    | 70.65  | 69.11  | 75.10  | 70.04 | 67.17 | 67.57 | 63.57 | 20- 30  | 786.6   | 3838    | 91.6,91.6  |
| 40  | 7.005                    | 6.732  | 7.056  | 6.891  | 7.243 | 7.272 | 6.945 | 6.911 | 30- 40  | 126.5   | 3965    | 94.6,94.6  |
| 50  | 3.822                    | 3.722  | 3.742  | 3.802  | 3.841 | 3.686 | 3.656 | 3.629 | 40- 50  | 38.73   | 4003    | 95.6,95.6  |
| 60  | 2.331                    | 2.317  | 2.352  | 2.330  | 2.311 | 2.288 | 2.194 | 2.198 | 50- 60  | 25.81   | 4029    | 96.2,96.2  |
| 70  | 1.767                    | 1.786  | 1.772  | 1.764  | 1.745 | 1.747 | 1.712 | 1.687 | 60- 70  | 19.91   | 4049    | 96.7,96.7  |
| 80  | 1.323                    | 1.343  | 1.322  | 1.315  | 1.307 | 1.329 | 1.299 | 1.288 | 70- 80  | 16.06   | 4065    | 97,97      |
| 90  | 0.8479                   | 0.9552 | 0.8843 | 0.8742 | 1.037 | 1.162 | 1.044 | 1.040 | 80- 90  | 12.49   | 4078    | 97.3,97.3  |
| 100 | 0.6336                   | 0.6598 | 0.6398 | 0.6317 | 1.052 | 1.079 | 1.054 | 1.057 | 90-100  | 9.793   | 4087    | 97.6,97.6  |
| 110 | 0.8359                   | 0.8279 | 0.8303 | 0.8198 | 1.114 | 1.127 | 1.118 | 1.122 | 100-110 | 9.429   | 4097    | 97.8,97.8  |
| 120 | 1.128                    | 1.119  | 1.126  | 1.113  | 1.311 | 1.326 | 1.322 | 1.329 | 110-120 | 10.77   | 4108    | 98,98      |
| 130 | 1.863                    | 1.822  | 1.824  | 1.804  | 1.937 | 1.974 | 1.976 | 1.995 | 120-130 | 13.44   | 4121    | 98.4,98.4  |
| 140 | 2.862                    | 2.842  | 2.845  | 2.832  | 2.888 | 2.915 | 2.917 | 2.935 | 130-140 | 18.53   | 4139    | 98.8,98.8  |
| 150 | 3.382                    | 3.379  | 3.383  | 3.376  | 3.425 | 3.435 | 3.434 | 3.447 | 140-150 | 19.92   | 4159    | 99.3,99.3  |
| 160 | 3.600                    | 3.600  | 3.603  | 3.601  | 3.621 | 3.627 | 3.624 | 3.628 | 150-160 | 16.32   | 4176    | 99.7,99.7  |
| 170 | 3.552                    | 3.566  | 3.571  | 3.573  | 3.591 | 3.590 | 3.584 | 3.581 | 160-170 | 10.27   | 4186    | 99.9,99.9  |
| 180 | 3.331                    | 3.339  | 3.326  | 3.315  | 3.333 | 3.338 | 3.328 | 3.316 | 170-180 | 3.304   | 4189    | 100,100    |
| DEG | LUMINOUS INTENSITY:×10cd |        |        |        |       |       |       |       |         | UNIT:lm |         |            |

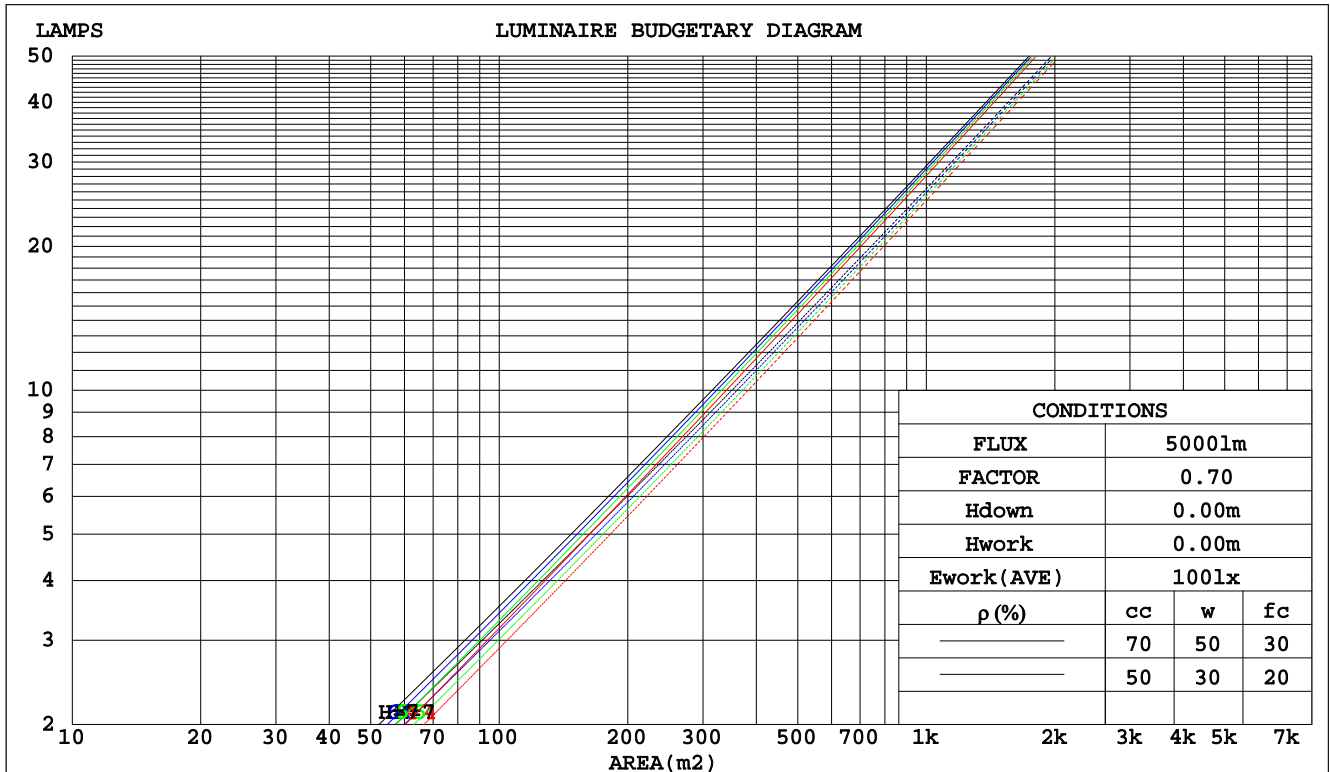
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-08-01

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:6.610m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|  |        |                   |
|--|--------|-------------------|
| Test:U:226.6V I:0.1790A P:38.60W PF:0.9480 Lamp Flux:4189.3x1 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  | 1.12                            | 1.10 | 1.08 | 1.09 | 1.08 | 1.06 | 1.05 | 1.04 | 1.02 | 1.01 | .00  | .99  | .97 | .96 | .95 | .94 |
| 2.0  | 1.06                            | 1.03 | 1.00 | 1.04 | 1.02 | .99  | 1.01 | .99  | .97  | .98  | .96  | .94  | .94 | .93 | .92 | .90 |
| 3.0  | 1.01                            | .98  | .95  | .00  | .97  | .94  | .97  | .94  | .92  | .94  | .92  | .90  | .92 | .90 | .89 | .87 |
| 4.0  | .97                             | .93  | .90  | .96  | .92  | .89  | .94  | .91  | .88  | .92  | .89  | .87  | .90 | .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  | .90  | .86  | .83  | .88  | .84  | .82  | .86  | .83  | .81  | .85 | .83 | .80 | .79 |
| 7.0  | .87                             | .83  | .80  | .87  | .83  | .80  | .85  | .82  | .79  | .84  | .81  | .79  | .83 | .80 | .78 | .77 |
| 8.0  | .85                             | .81  | .78  | .84  | .80  | .77  | .83  | .79  | .77  | .82  | .79  | .76  | .81 | .78 | .76 | .75 |
| 9.0  | .82                             | .78  | .75  | .82  | .78  | .75  | .81  | .77  | .75  | .80  | .77  | .74  | .79 | .76 | .74 | .73 |
| 10.0 | .80                             | .76  | .73  | .80  | .76  | .73  | .79  | .75  | .73  | .78  | .75  | .73  | .77 | .74 | .72 | .71 |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-08-01

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:6.610m [K=1.0000]  
Remarks:

## WEC AND CCEC

|  |        |                   |
|--|--------|-------------------|
| Test:U:226.6V I:0.1790A P:38.60W PF:0.9480 Lamp Flux:4189.3x1 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 | .138 | .079 | .025 | .124                            | .071 | .023 | .111 | .064 | .021 | .100 | .058 | .019 |   |  |
| 2.0  | .134                  | .073 | .022 | .128 | .070 | .022 | .116                            | .064 | .020 | .105 | .059 | .018 | .095 | .054 | .017 |   |  |
| 3.0  | .124                  | .066 | .020 | .119 | .064 | .019 | .109                            | .059 | .018 | .100 | .055 | .017 | .091 | .050 | .016 |   |  |
| 4.0  | .116                  | .060 | .018 | .111 | .058 | .017 | .103                            | .054 | .016 | .095 | .051 | .015 | .087 | .048 | .014 |   |  |
| 5.0  | .108                  | .055 | .016 | .105 | .054 | .016 | .097                            | .051 | .015 | .090 | .048 | .014 | .084 | .045 | .013 |   |  |
| 6.0  | .102                  | .051 | .015 | .099 | .050 | .014 | .092                            | .047 | .014 | .086 | .045 | .013 | .081 | .043 | .013 |   |  |
| 7.0  | .097                  | .048 | .014 | .094 | .047 | .013 | .088                            | .045 | .013 | .083 | .042 | .012 | .078 | .040 | .012 |   |  |
| 8.0  | .092                  | .045 | .013 | .089 | .044 | .012 | .084                            | .042 | .012 | .080 | .040 | .012 | .075 | .039 | .011 |   |  |
| 9.0  | .088                  | .042 | .012 | .085 | .042 | .012 | .081                            | .040 | .011 | .077 | .038 | .011 | .073 | .037 | .011 |   |  |
| 10.0 | .084                  | .040 | .011 | .082 | .039 | .011 | .078                            | .038 | .011 | .074 | .037 | .010 | .070 | .035 | .010 |   |  |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|--|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0  | .211                  | .211 | .211 | .180 | .180 | .180 | .123                                       | .123 | .123 | .071 | .071 | .071 | .023 | .023 | .023 |   |  |
| 1.0  | .189                  | .178 | .168 | .162 | .153 | .144 | .111                                       | .105 | .100 | .064 | .061 | .058 | .020 | .020 | .019 |   |  |
| 2.0  | .172                  | .153 | .138 | .147 | .132 | .119 | .101                                       | .091 | .083 | .058 | .053 | .049 | .019 | .017 | .016 |   |  |
| 3.0  | .157                  | .134 | .116 | .135 | .116 | .100 | .092                                       | .080 | .070 | .053 | .047 | .041 | .017 | .015 | .014 |   |  |
| 4.0  | .145                  | .119 | .099 | .124 | .103 | .086 | .085                                       | .072 | .061 | .049 | .042 | .036 | .016 | .014 | .012 |   |  |
| 5.0  | .134                  | .107 | .086 | .115 | .092 | .075 | .079                                       | .064 | .053 | .046 | .038 | .031 | .015 | .012 | .010 |   |  |
| 6.0  | .125                  | .097 | .076 | .108 | .084 | .066 | .074                                       | .059 | .047 | .043 | .035 | .028 | .014 | .011 | .009 |   |  |
| 7.0  | .118                  | .089 | .068 | .101 | .077 | .059 | .070                                       | .054 | .042 | .041 | .032 | .025 | .013 | .010 | .008 |   |  |
| 8.0  | .111                  | .082 | .062 | .096 | .071 | .054 | .066                                       | .050 | .038 | .039 | .029 | .023 | .012 | .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 | .046 | .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:2016-08-01

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:6.610m [K=1.0000]  
Remarks:

### Uncorrected UGR Table

|  |                  |      |      |      |        |                |      |                   |      |      |
|--|------------------|------|------|------|--------|----------------|------|-------------------|------|------|
| Test:U:226.6V I:0.1790A P:38.60W PF:0.9480 Lamp Flux:4189.3x1 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  | 9.4              | 10.1 | 9.7  | 10.3 | 10.5   | 9.4            | 10.1 | 9.7               | 10.3 | 10.5 |
| 3H   | 10.6             | 11.2 | 10.9 | 11.4 | 11.7   | 10.6           | 11.2 | 10.9              | 11.4 | 11.7 |
| 4H   | 11.3             | 11.9 | 11.6 | 12.2 | 12.4   | 11.3           | 11.9 | 11.6              | 12.2 | 12.4 |
| 6H   | 12.3             | 12.8 | 12.6 | 13.1 | 13.4   | 12.2           | 12.8 | 12.6              | 13.1 | 13.4 |
| 8H   | 12.8             | 13.3 | 13.1 | 13.6 | 13.9   | 12.8           | 13.3 | 13.1              | 13.6 | 13.9 |
| 12H  | 13.4             | 14.0 | 13.8 | 14.3 | 14.6   | 13.4           | 13.9 | 13.8              | 14.3 | 14.6 |
| 4H 2H  | 9.8              | 10.4 | 10.1 | 10.6 | 10.9   | 9.8            | 10.3 | 10.1              | 10.6 | 10.9 |
| 3H   | 11.2             | 11.7 | 11.6 | 12.0 | 12.4   | 11.2           | 11.7 | 11.6              | 12.0 | 12.4 |
| 4H   | 12.2             | 12.7 | 12.6 | 13.0 | 13.3   | 12.2           | 12.6 | 12.6              | 13.0 | 13.3 |
| 6H   | 13.4             | 13.8 | 13.8 | 14.2 | 14.5   | 13.3           | 13.8 | 13.7              | 14.1 | 14.5 |
| 8H   | 14.0             | 14.4 | 14.5 | 14.8 | 15.2   | 14.0           | 14.4 | 14.4              | 14.8 | 15.2 |
| 12H  | 14.8             | 15.2 | 15.3 | 15.6 | 16.0   | 14.8           | 15.2 | 15.2              | 15.6 | 16.0 |
| 8H 4H  | 12.6             | 13.0 | 13.0 | 13.4 | 13.8   | 12.6           | 13.0 | 13.0              | 13.4 | 13.8 |
| 6H   | 14.0             | 14.4 | 14.5 | 14.8 | 15.3   | 14.0           | 14.3 | 14.5              | 14.8 | 15.2 |
| 8H   | 14.9             | 15.2 | 15.4 | 15.6 | 16.1   | 14.9           | 15.1 | 15.3              | 15.6 | 16.1 |
| 12H  | 15.9             | 16.1 | 16.4 | 16.6 | 17.2   | 15.9           | 16.1 | 16.4              | 16.6 | 17.1 |
| 12H 4H   | 12.7             | 13.0 | 13.1 | 13.4 | 13.9   | 12.7           | 13.0 | 13.1              | 13.4 | 13.9 |
| 6H   | 14.2             | 14.5 | 14.7 | 15.0 | 15.5   | 14.2           | 14.5 | 14.7              | 14.9 | 15.4 |
| 8H   | 15.2             | 15.4 | 15.7 | 15.9 | 16.4   | 15.2           | 15.4 | 15.7              | 15.9 | 16.4 |
| Variations with the observer position at spacings:               |                  |      |      |      |        |                |      |                   |      |      |
| S = 1.0H   | + 0.2 / - 0.3    |      |      |      |        | + 0.3 / - 0.3  |      |                   |      |      |
| 1.5H   | + 0.3 / - 0.2    |      |      |      |        | + 0.3 / - 0.2  |      |                   |      |      |
| 2.0H   | + 0.1 / - 0.2    |      |      |      |        | + 0.1 / - 0.2  |      |                   |      |      |

CIE Pub.117 Corrected 4189 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.0)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-08-01

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:6.610m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|  |        |                   |
|--|--------|-------------------|
| Test:U:226.6V I:0.1790A P:38.60W PF:0.9480 Lamp Flux:4189.3x1 lm |        |                   |
| NAME:  | TYPE:  | WEIGHT:           |
| DIM.:  | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn  | SUR.:  | PROTECTION ANGLE: |

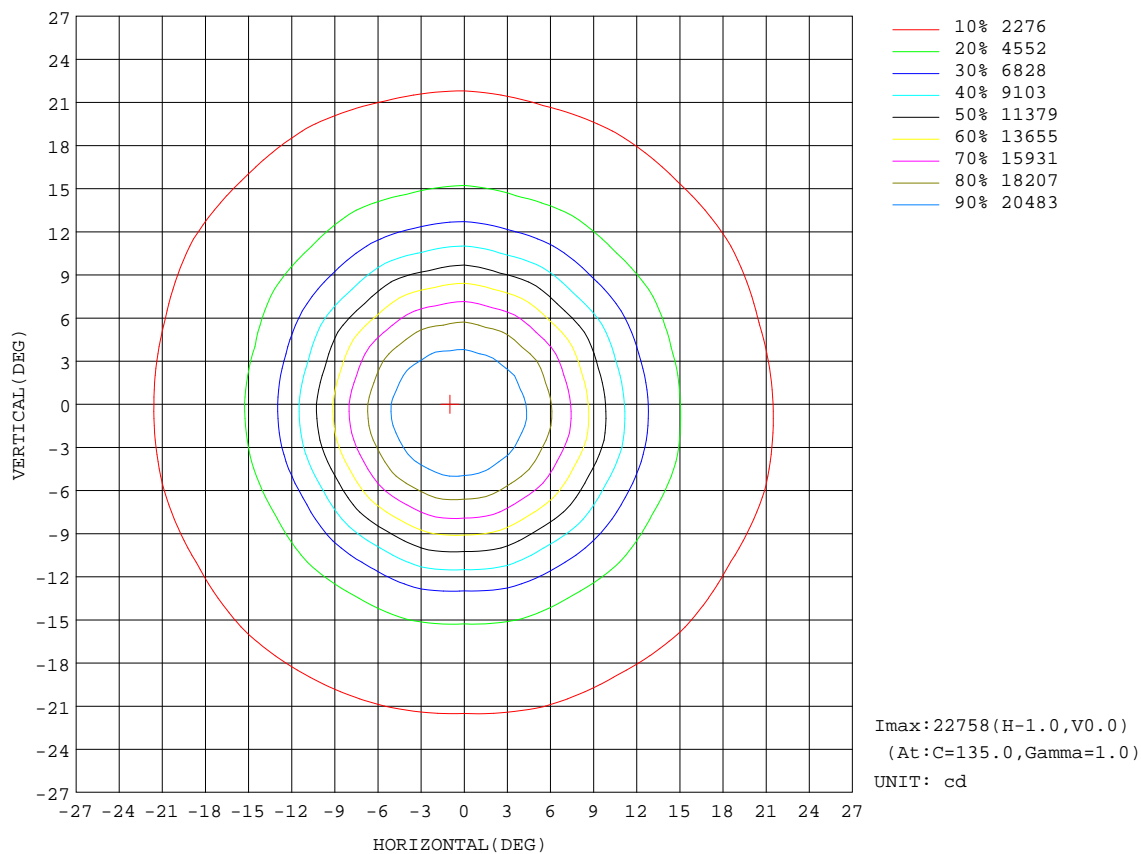
| REFLECTANCE                      |   |     |           |     |     |     |     |               |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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            | 86  | 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:2016-08-01

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:6.610m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

|  |        |                   |
|--|--------|-------------------|
| Test:U:226.6V I:0.1790A P:38.60W PF:0.9480 Lamp Flux:4189.3x1 lm |        |                   |
| NAME:  | TYPE:  | WEIGHT:           |
| DIM.:  | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn  | SUR.:  | PROTECTION ANGLE: |

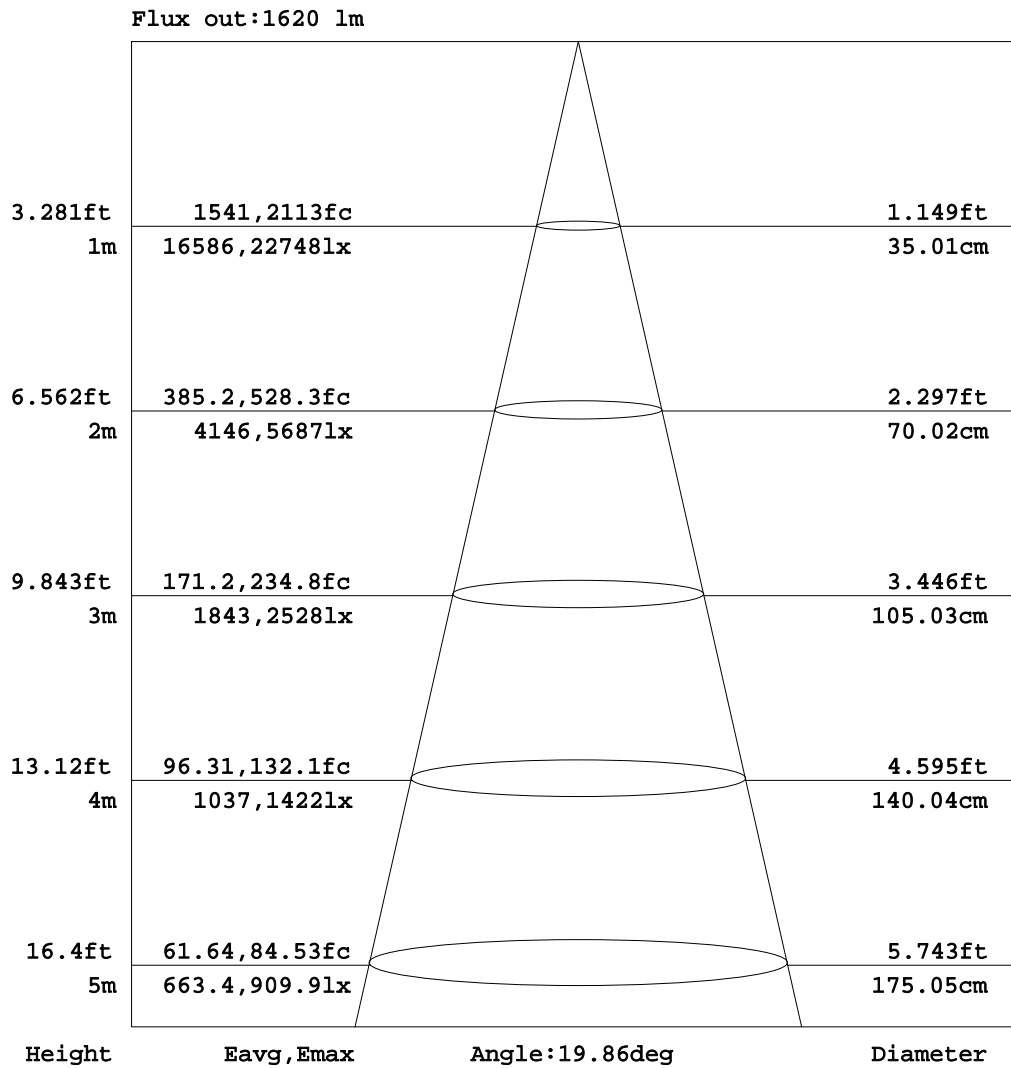


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-08-01

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:6.610m [K=1.0000]  
Remarks:

### AAI Figure

|  |        |                   |
|--|--------|-------------------|
| Test:U:226.6V I:0.1790A P:38.60W PF:0.9480 Lamp Flux:4189.3x1 lm |        |                   |
| NAME:  | TYPE:  | WEIGHT:           |
| DIM.:  | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn  | SUR.:  | PROTECTION ANGLE: |



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

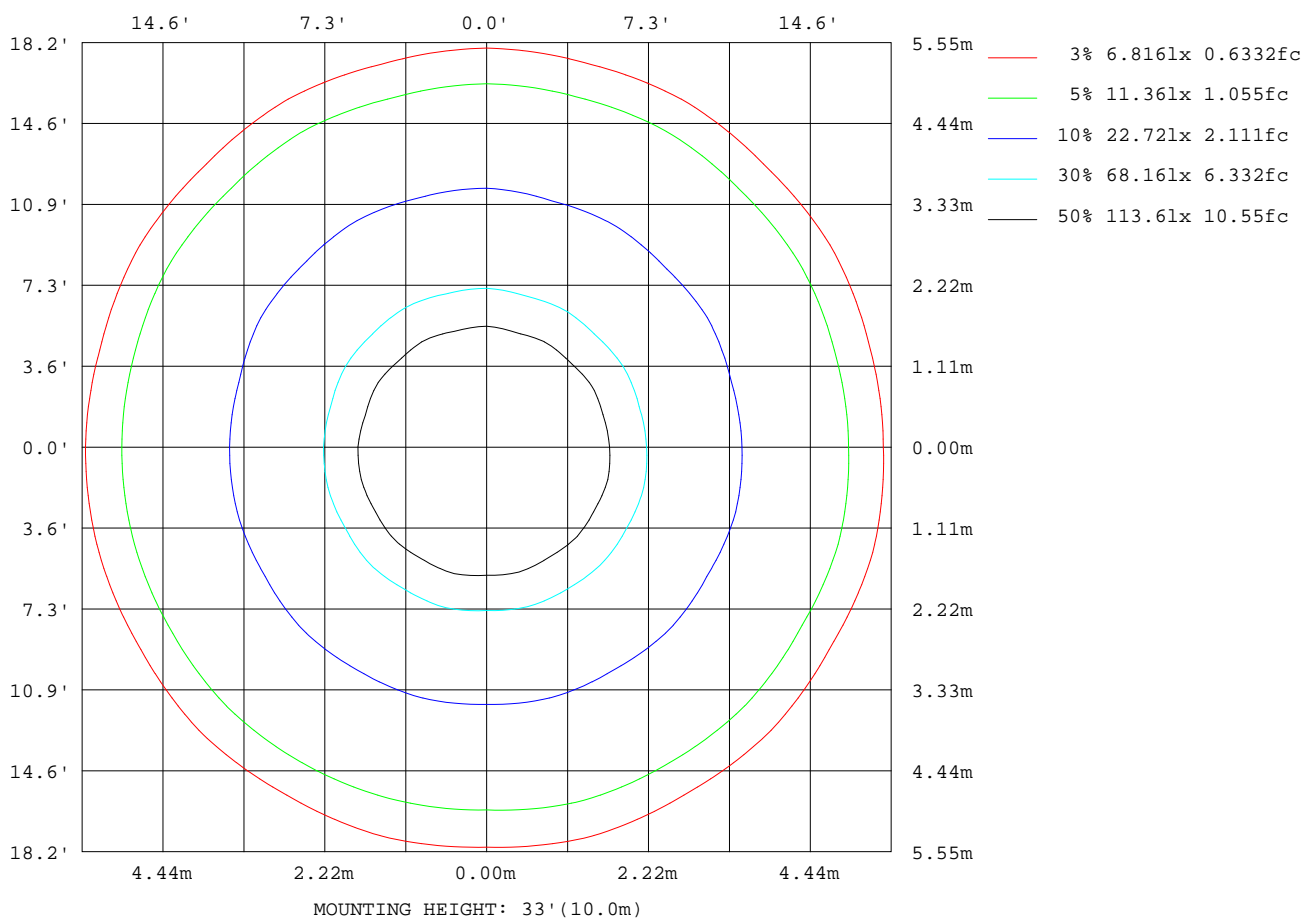
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-08-01

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:6.610m [K=1.0000]  
Remarks:



### ISOLUX DIAGRAM

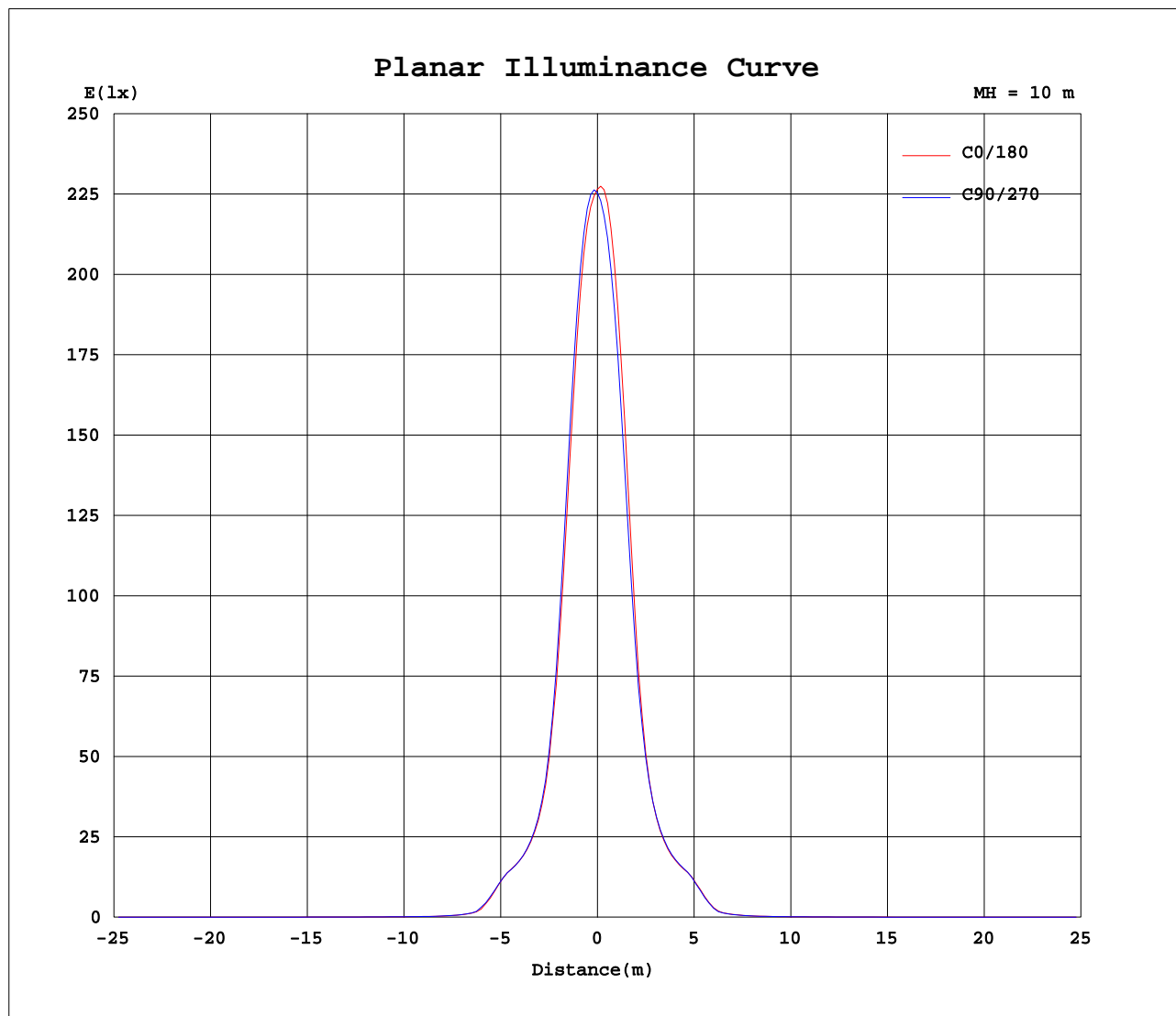
|  |        |                   |
|--|--------|-------------------|
| Test:U:226.6V I:0.1790A P:38.60W PF:0.9480 Lamp Flux:4189.3x1 lm |        |                   |
| NAME:  | TYPE:  | WEIGHT:           |
| DIM.:  | SPEC.: | SERIAL No.:       |
| MFR.: Rayconn  | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZhangXiao  
Test Date: 2016-08-01

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity: 65.0%  
Test Distance: 6.610m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZhangXiao  
Test Date: 2016-08-01

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity: 65.0%  
Test Distance: 6.610m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |                   |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--------|--|--|--|--|-------------------|--|--|--|--|
| Test:U:226.6V I:0.1790A P:38.60W PF:0.9480 Lamp Flux:4189.3x1 lm |  |  |  |  |  |  |  |  |  |        |  |  |  |  |                   |  |  |  |  |
| NAME:  |  |  |  |  |  |  |  |  |  | TYPE:  |  |  |  |  | WEIGHT:           |  |  |  |  |
| DIM.:  |  |  |  |  |  |  |  |  |  | SPEC.: |  |  |  |  | SERIAL No.:       |  |  |  |  |
| MFR.: Rayconn  |  |  |  |  |  |  |  |  |  | SUR.:  |  |  |  |  | PROTECTION ANGLE: |  |  |  |  |

Table--1

UNIT: ×10cd

| γ (DEG) \ C (DEG) | 0    | 15   | 30   | 45   | 60   | 75   | 90   | 105  | 120  | 135  | 150  | 165  | 180  | 195  | 210  | 225  | 240  | 255  | 270  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                 | 2256 | 2256 | 2256 | 2256 | 2256 | 2256 | 2256 | 2256 | 2256 | 2256 | 2256 | 2256 | 2256 | 2256 | 2256 | 2256 | 2256 | 2256 | 2256 |
| 5                 | 1962 | 1987 | 1986 | 2011 | 2013 | 2042 | 2045 | 2070 | 2068 | 2084 | 2070 | 2076 | 2051 | 2017 | 2008 | 1966 | 1955 | 1918 | 1918 |
| 10                | 1100 | 1141 | 1130 | 1171 | 1157 | 1199 | 1184 | 1225 | 1201 | 1228 | 1190 | 1208 | 1188 | 1135 | 1157 | 1105 | 1120 | 1066 | 1081 |
| 15                | 455  | 470  | 462  | 480  | 471  | 487  | 474  | 490  | 477  | 488  | 468  | 477  | 473  | 459  | 482  | 469  | 483  | 462  | 469  |
| 20                | 253  | 257  | 253  | 259  | 255  | 260  | 257  | 260  | 258  | 261  | 256  | 258  | 255  | 254  | 263  | 260  | 265  | 259  | 261  |
| 25                | 185  | 189  | 185  | 190  | 190  | 191  | 186  | 187  | 190  | 191  | 188  | 190  | 187  | 188  | 191  | 189  | 191  | 187  | 188  |
| 30                | 64.6 | 67.6 | 66.4 | 70.6 | 67.2 | 73.7 | 69.1 | 74.7 | 70.0 | 75.1 | 68.0 | 70.8 | 70.0 | 67.8 | 70.1 | 67.2 | 69.9 | 66.1 | 67.6 |
| 35                | 14.6 | 15.8 | 14.9 | 16.0 | 14.9 | 15.9 | 15.3 | 16.3 | 15.4 | 16.3 | 15.3 | 15.9 | 16.0 | 15.4 | 15.8 | 15.2 | 15.8 | 15.0 | 15.8 |
| 40                | 7.00 | 6.84 | 6.97 | 6.73 | 6.92 | 6.75 | 7.06 | 7.00 | 7.09 | 6.89 | 7.15 | 7.13 | 7.24 | 7.38 | 7.19 | 7.27 | 7.08 | 7.21 | 6.94 |
| 45                | 4.95 | 4.98 | 4.88 | 4.87 | 4.84 | 4.87 | 4.88 | 4.93 | 4.89 | 4.93 | 4.96 | 5.07 | 5.07 | 5.03 | 5.05 | 4.94 | 4.95 | 4.91 | 4.91 |
| 50                | 3.82 | 3.83 | 3.73 | 3.72 | 3.71 | 3.74 | 3.74 | 3.76 | 3.76 | 3.80 | 3.81 | 3.87 | 3.84 | 3.80 | 3.78 | 3.69 | 3.68 | 3.65 | 3.66 |
| 55                | 2.90 | 2.90 | 2.83 | 2.82 | 2.83 | 2.86 | 2.87 | 2.87 | 2.85 | 2.89 | 2.90 | 2.94 | 2.88 | 2.85 | 2.86 | 2.80 | 2.77 | 2.71 | 2.70 |
| 60                | 2.33 | 2.36 | 2.31 | 2.32 | 2.33 | 2.36 | 2.35 | 2.35 | 2.33 | 2.33 | 2.35 | 2.38 | 2.31 | 2.30 | 2.31 | 2.29 | 2.27 | 2.23 | 2.19 |
| 65                | 2.03 | 2.05 | 2.04 | 2.05 | 2.05 | 2.05 | 2.05 | 2.04 | 2.03 | 2.04 | 2.05 | 2.07 | 2.01 | 2.00 | 2.00 | 2.00 | 1.99 | 1.97 | 1.96 |
| 70                | 1.77 | 1.79 | 1.78 | 1.79 | 1.78 | 1.78 | 1.77 | 1.77 | 1.75 | 1.76 | 1.79 | 1.80 | 1.75 | 1.74 | 1.74 | 1.75 | 1.73 | 1.72 | 1.71 |
| 75                | 1.52 | 1.55 | 1.53 | 1.56 | 1.54 | 1.55 | 1.53 | 1.54 | 1.53 | 1.54 | 1.54 | 1.56 | 1.52 | 1.51 | 1.52 | 1.52 | 1.51 | 1.48 | 1.47 |
| 80                | 1.32 | 1.33 | 1.33 | 1.34 | 1.33 | 1.33 | 1.32 | 1.32 | 1.31 | 1.32 | 1.32 | 1.33 | 1.31 | 1.31 | 1.32 | 1.33 | 1.31 | 1.30 | 1.30 |
| 85                | 1.11 | 1.13 | 1.14 | 1.18 | 1.14 | 1.14 | 1.13 | 1.12 | 1.11 | 1.11 | 1.11 | 1.12 | 1.16 | 1.16 | 1.18 | 1.24 | 1.18 | 1.16 | 1.16 |
| 90                | 0.85 | 0.85 | 0.88 | 0.96 | 0.90 | 0.88 | 0.88 | 0.88 | 0.87 | 0.87 | 0.87 | 0.87 | 1.04 | 1.04 | 1.07 | 1.16 | 1.07 | 1.04 | 1.04 |
| 95                | 0.70 | 0.70 | 0.73 | 0.79 | 0.75 | 0.72 | 0.73 | 0.72 | 0.72 | 0.72 | 0.72 | 0.71 | 1.04 | 1.05 | 1.09 | 1.13 | 1.06 | 1.05 | 1.05 |
| 100               | 0.63 | 0.63 | 0.64 | 0.66 | 0.65 | 0.64 | 0.64 | 0.64 | 0.64 | 0.63 | 0.63 | 0.63 | 1.05 | 1.06 | 1.06 | 1.08 | 1.06 | 1.06 | 1.05 |
| 105               | 0.70 | 0.69 | 0.70 | 0.69 | 0.70 | 0.68 | 0.69 | 0.68 | 0.69 | 0.68 | 0.68 | 0.68 | 1.07 | 1.07 | 1.07 | 1.08 | 1.08 | 1.08 | 1.07 |
| 110               | 0.84 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.82 | 0.83 | 0.82 | 0.83 | 0.82 | 1.11 | 1.12 | 1.12 | 1.13 | 1.12 | 1.12 | 1.12 |
| 115               | 0.97 | 0.97 | 0.97 | 0.97 | 0.98 | 0.97 | 0.97 | 0.96 | 0.97 | 0.96 | 0.97 | 0.96 | 1.19 | 1.19 | 1.19 | 1.20 | 1.19 | 1.20 | 1.19 |
| 120               | 1.13 | 1.12 | 1.13 | 1.12 | 1.13 | 1.12 | 1.13 | 1.12 | 1.12 | 1.11 | 1.12 | 1.11 | 1.31 | 1.32 | 1.32 | 1.33 | 1.32 | 1.33 | 1.32 |
| 125               | 1.40 | 1.39 | 1.40 | 1.38 | 1.39 | 1.38 | 1.39 | 1.37 | 1.38 | 1.37 | 1.38 | 1.37 | 1.54 | 1.56 | 1.56 | 1.57 | 1.56 | 1.58 | 1.57 |
| 130               | 1.86 | 1.84 | 1.85 | 1.82 | 1.83 | 1.81 | 1.82 | 1.81 | 1.82 | 1.80 | 1.82 | 1.80 | 1.94 | 1.96 | 1.95 | 1.97 | 1.97 | 1.99 | 1.98 |
| 135               | 2.40 | 2.38 | 2.39 | 2.36 | 2.37 | 2.35 | 2.36 | 2.35 | 2.36 | 2.34 | 2.36 | 2.34 | 2.43 | 2.45 | 2.44 | 2.47 | 2.46 | 2.48 | 2.47 |
| 140               | 2.86 | 2.85 | 2.86 | 2.84 | 2.85 | 2.84 | 2.84 | 2.83 | 2.84 | 2.83 | 2.84 | 2.83 | 2.89 | 2.90 | 2.90 | 2.92 | 2.91 | 2.93 | 2.92 |
| 145               | 3.18 | 3.17 | 3.18 | 3.17 | 3.17 | 3.17 | 3.17 | 3.17 | 3.17 | 3.17 | 3.17 | 3.17 | 3.22 | 3.22 | 3.22 | 3.23 | 3.23 | 3.24 | 3.23 |
| 150               | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.42 | 3.43 | 3.43 | 3.44 | 3.43 | 3.44 | 3.43 |
| 155               | 3.52 | 3.52 | 3.52 | 3.52 | 3.52 | 3.52 | 3.52 | 3.52 | 3.52 | 3.52 | 3.52 | 3.52 | 3.56 | 3.56 | 3.56 | 3.56 | 3.56 | 3.57 | 3.56 |
| 160               | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 | 3.62 | 3.62 | 3.62 | 3.63 | 3.63 | 3.63 | 3.62 |
| 165               | 3.62 | 3.62 | 3.62 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.64 | 3.64 | 3.64 | 3.64 | 3.65 | 3.65 | 3.64 |
| 170               | 3.55 | 3.56 | 3.56 | 3.57 | 3.57 | 3.57 | 3.57 | 3.58 | 3.57 | 3.57 | 3.56 | 3.57 | 3.59 | 3.59 | 3.59 | 3.59 | 3.59 | 3.59 | 3.58 |
| 175               | 3.35 | 3.36 | 3.37 | 3.38 | 3.39 | 3.39 | 3.39 | 3.39 | 3.38 | 3.38 | 3.37 | 3.37 | 3.43 | 3.42 | 3.42 | 3.42 | 3.41 | 3.41 | 3.40 |
| 180               | 3.33 | 3.34 | 3.34 | 3.34 | 3.34 | 3.33 | 3.33 | 3.33 | 3.32 | 3.32 | 3.31 | 3.31 | 3.33 | 3.33 | 3.34 | 3.34 | 3.34 | 3.33 | 3.33 |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZhangXiao  
Test Date: 2016-08-01

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity: 65.0%  
Test Distance: 6.610m [K=1.0000]  
Remarks:

# LUMINOUS DISTRIBUTION INTENSITY DATA

|  |  |  |        |  |                   |
|--|--|--|--------|--|-------------------|
| Test:U:226.6V I:0.1790A P:38.60W PF:0.9480 Lamp Flux:4189.3x1 lm |  |  |        |  |                   |
| NAME:  |  |  | TYPE:  |  | WEIGHT:           |
| DIM.:  |  |  | SPEC.: |  | SERIAL No.:       |
| MFR.: Rayconn  |  |  | SUR.:  |  | PROTECTION ANGLE: |

Table--2

UNIT: x10cd

| C(DEC)<br>γ (DEC) | 285  | 300  | 315  | 330  | 345  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 2256 | 2256 | 2256 | 2256 | 2256 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 1900 | 1918 | 1914 | 1942 | 1944 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 1037 | 1070 | 1046 | 1090 | 1074 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 449  | 461  | 446  | 461  | 449  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 253  | 255  | 250  | 255  | 250  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 187  | 188  | 185  | 186  | 184  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 65.1 | 66.6 | 63.6 | 65.5 | 63.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 14.6 | 15.4 | 14.4 | 15.4 | 14.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 7.01 | 6.76 | 6.91 | 6.71 | 6.91 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 4.83 | 4.82 | 4.79 | 4.85 | 4.85 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 3.63 | 3.65 | 3.63 | 3.69 | 3.70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 2.66 | 2.69 | 2.70 | 2.77 | 2.78 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 2.15 | 2.17 | 2.20 | 2.23 | 2.25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 1.96 | 1.94 | 1.94 | 1.95 | 1.97 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 1.70 | 1.70 | 1.69 | 1.70 | 1.71 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 1.47 | 1.47 | 1.45 | 1.48 | 1.48 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 1.29 | 1.29 | 1.29 | 1.30 | 1.31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 1.16 | 1.16 | 1.16 | 1.16 | 1.17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 1.04 | 1.04 | 1.04 | 1.04 | 1.05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 1.05 | 1.04 | 1.05 | 1.04 | 1.05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 1.06 | 1.05 | 1.06 | 1.05 | 1.06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 1.08 | 1.07 | 1.08 | 1.07 | 1.08 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 1.13 | 1.12 | 1.12 | 1.12 | 1.12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 1.20 | 1.19 | 1.20 | 1.19 | 1.20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 1.33 | 1.32 | 1.33 | 1.32 | 1.33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 1.58 | 1.57 | 1.58 | 1.56 | 1.58 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 2.00 | 1.98 | 1.99 | 1.98 | 1.99 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 2.49 | 2.48 | 2.49 | 2.47 | 2.49 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 2.93 | 2.92 | 2.94 | 2.92 | 2.93 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 3.24 | 3.23 | 3.25 | 3.23 | 3.24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 3.44 | 3.44 | 3.45 | 3.43 | 3.44 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 3.57 | 3.56 | 3.57 | 3.56 | 3.57 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 3.63 | 3.62 | 3.63 | 3.62 | 3.63 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 3.58 | 3.58 | 3.58 | 3.58 | 3.58 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 3.40 | 3.39 | 3.39 | 3.38 | 3.39 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 3.32 | 3.32 | 3.32 | 3.31 | 3.31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZhangXiao  
Test Date:2016-08-01

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:6.610m [K=1.0000]  
Remarks: