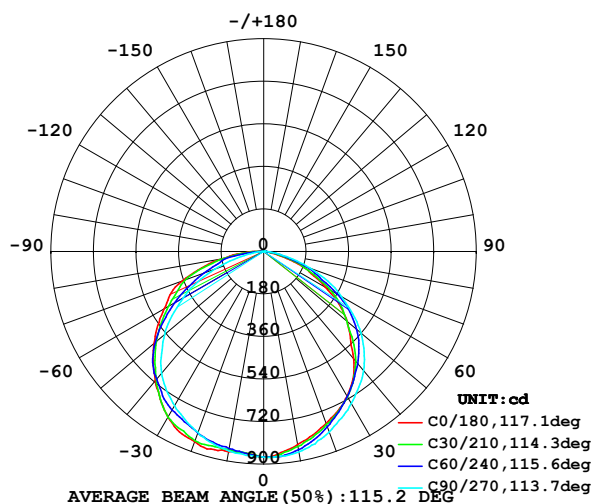


## LUMINAIRE PHOTOMETRIC TEST REPORT

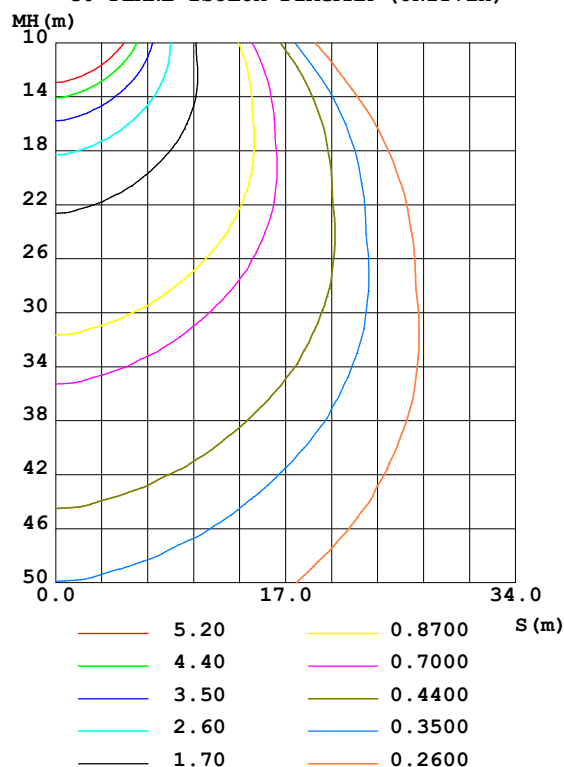
|                                                                   |                 |                             |
|-------------------------------------------------------------------|-----------------|-----------------------------|
| Test:U:220.1V I:0.0790A P:17.07W PF:0.9814 Lamp Flux:2565.84x1 lm |                 |                             |
| NAME: Tube light                                                  | SUR.:1.2m*0.03m | SERIAL No.:WY-GP-2022031001 |
| MFR.: LEDIA                                                       |                 |                             |
|                                                                   |                 |                             |

| DATA OF LAMP     |         | PHOTOMETRIC DATA Eff: 150.34 lm/W |        |                        |          |
|------------------|---------|-----------------------------------|--------|------------------------|----------|
| MODEL            | 灯管      | Imax(cd)                          | 872.4  | S/MH(C0/180)           | 1.36     |
| NOMINAL POWER(W) | 20      | LOR(%)                            | 100.0  | S/MH(C90/270)          | 1.29     |
| RATED VOLTAGE(V) | 220     | TOTAL FLUX(lm)                    | 2565.8 | $\eta$ UP,DN(C0-180)   | 0.5,48.9 |
| NOMINAL FLUX(lm) | 2565.84 | CIE CLASS                         | DIRECT | $\eta$ UP,DN(C180-360) | 0.5,50.1 |
| LAMPS INSIDE     | 1       | $\eta$ up(%)                      | 0.9    | CIBSE SHR NOM          | 1.25     |
| TEST VOLTAGE(V)  | 220     | $\eta$ down(%)                    | 99.1   | CIBSE SHR MAX          | 1.35     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24.7DEG  
Operators:Jianfei Wu  
Test Date:2022-03-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity:54.2%  
Test Distance:10.149m [K=1.0000]  
Remarks:

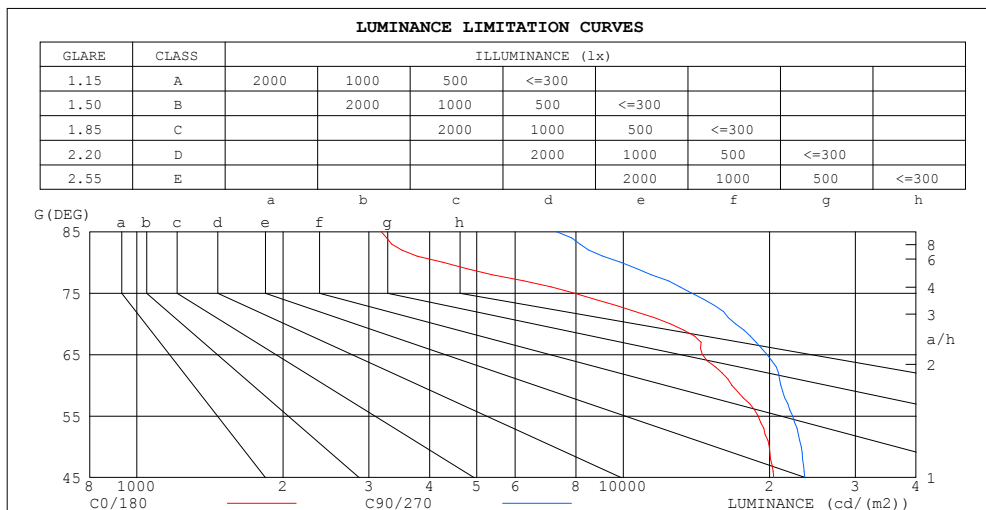
Checker: Jianfei Wu

Assessor: Lijian Jiang

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45   | C90    | C135  | C180  | C225  | C270   | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|-------|--------|-------|-------|-------|--------|-------|----------|-------------|--------------|------------|
| 10       | 828.8                 | 840.9 | 861.0  | 857.3 | 861.1 | 849.7 | 856.7  | 834.0 | 0- 10    | 81.78       | 81.78        | 3.19,3.19  |
| 20       | 774.4                 | 784.7 | 812.5  | 845.2 | 856.4 | 837.2 | 814.8  | 781.1 | 10- 20   | 235.2       | 317.0        | 12.4,12.4  |
| 30       | 707.6                 | 706.9 | 742.3  | 791.5 | 810.0 | 789.0 | 754.3  | 707.6 | 20- 30   | 361.3       | 678.3        | 26.4,26.4  |
| 40       | 592.6                 | 616.3 | 658.8  | 704.8 | 715.0 | 709.2 | 672.5  | 613.4 | 30- 40   | 442.6       | 1121         | 43.7,43.7  |
| 50       | 462.0                 | 490.5 | 537.7  | 583.1 | 607.4 | 590.0 | 547.2  | 477.4 | 40- 50   | 463.2       | 1584         | 61.7,61.7  |
| 60       | 301.2                 | 341.7 | 379.7  | 451.9 | 486.5 | 451.4 | 392.9  | 337.1 | 50- 60   | 419.0       | 2003         | 78.1,78.1  |
| 70       | 153.8                 | 174.6 | 209.4  | 326.4 | 366.6 | 312.6 | 220.4  | 162.1 | 60- 70   | 316.4       | 2320         | 90.4,90.4  |
| 80       | 26.62                 | 42.08 | 61.81  | 165.0 | 174.3 | 151.8 | 57.63  | 35.50 | 70- 80   | 174.4       | 2494         | 97.2,97.2  |
| 90       | 3.202                 | 5.087 | 1.448  | 23.87 | 38.97 | 22.57 | 1.314  | 5.455 | 80- 90   | 48.36       | 2542         | 99.1,99.1  |
| 100      | 2.959                 | 3.880 | 0.7224 | 4.423 | 3.361 | 5.601 | 0.5582 | 3.684 | 90-100   | 7.979       | 2550         | 99.4,99.4  |
| 110      | 3.061                 | 3.207 | 1.304  | 3.733 | 2.818 | 4.106 | 1.078  | 3.013 | 100-110  | 3.268       | 2554         | 99.5,99.5  |
| 120      | 3.144                 | 2.607 | 1.932  | 3.259 | 2.773 | 3.107 | 1.684  | 2.459 | 110-120  | 2.695       | 2556         | 99.6,99.6  |
| 130      | 3.227                 | 2.818 | 2.497  | 3.234 | 2.805 | 3.093 | 2.242  | 2.625 | 120-130  | 2.437       | 2559         | 99.7,99.7  |
| 140      | 3.368                 | 3.075 | 2.938  | 3.336 | 3.011 | 3.055 | 2.703  | 2.881 | 130-140  | 2.251       | 2561         | 99.8,99.8  |
| 150      | 3.490                 | 3.375 | 3.278  | 3.336 | 3.259 | 3.087 | 3.075  | 3.201 | 140-150  | 1.980       | 2563         | 99.9,99.9  |
| 160      | 3.663                 | 3.618 | 3.528  | 3.446 | 3.298 | 3.298 | 3.394  | 3.503 | 150-160  | 1.556       | 2564         | 99.9,99.9  |
| 170      | 3.810                 | 3.759 | 3.720  | 3.663 | 3.580 | 3.605 | 3.657  | 3.720 | 160-170  | 1.013       | 2565         | 100,100    |
| 180      | 3.829                 | 3.810 | 3.836  | 3.817 | 3.836 | 3.810 | 3.810  | 3.810 | 170-180  | 0.3573      | 2566         | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |       |        |       |       |       |        |       |          | UNIT:lm     |              |            |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 3181   | 7279    |
| 80                | 4259   | 9888    |
| 75                | 7917   | 13815   |
| 70                | 12491  | 17005   |
| 65                | 14549  | 19751   |
| 60                | 16735  | 21092   |
| 55                | 18933  | 22298   |
| 50                | 19966  | 23238   |
| 45                | 20396  | 23636   |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.7DEG  
 Operators: Jianfei Wu  
 Test Date: 2022-03-14

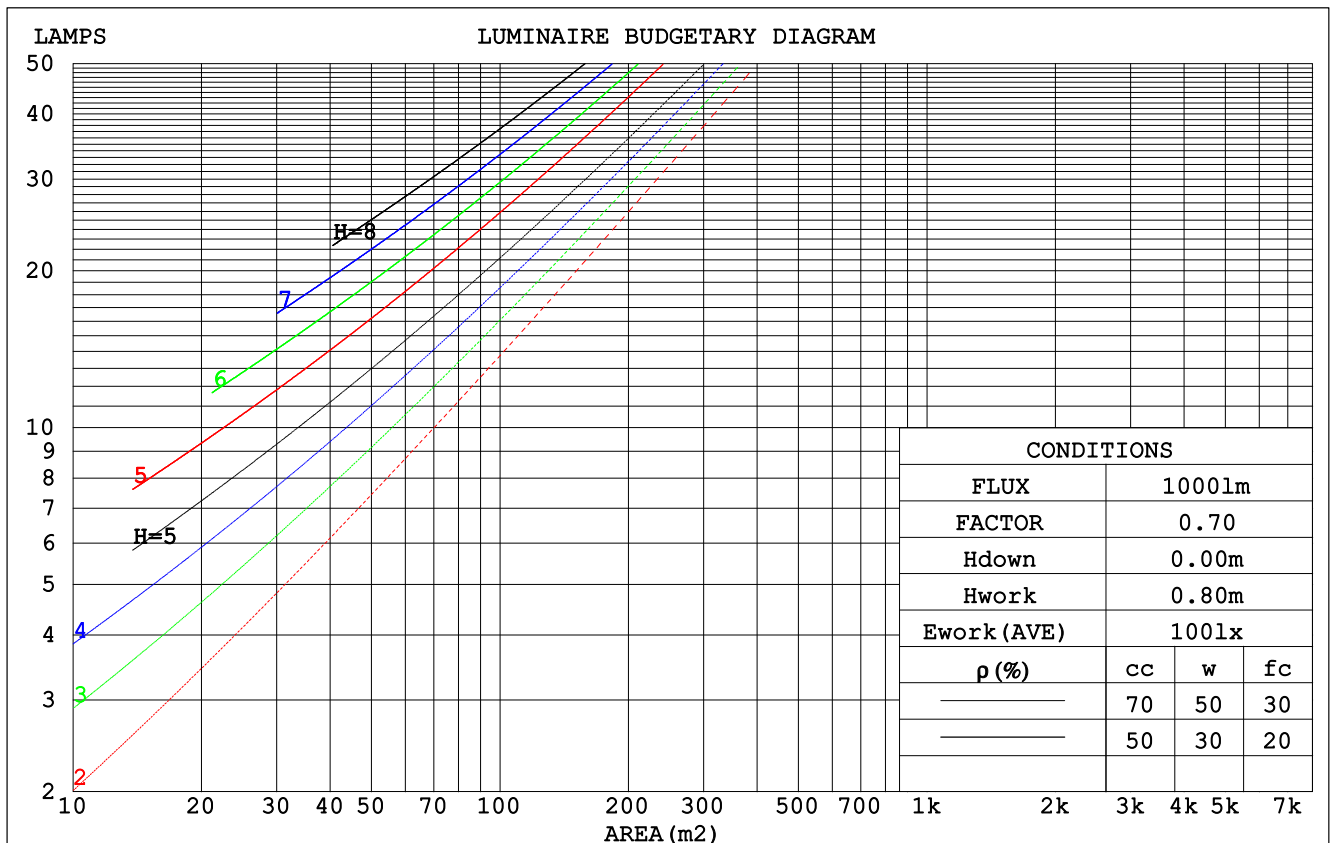
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
 Humidity: 54.2%  
 Test Distance: 10.149m [K=1.0000]  
 Remarks:

Checker: Jianfei Wu

Assessor: Lijian Jiang

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| 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  | 1.19                  | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11                            | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.01 | 1.01 | 1.01 | .99 |
| 1.0  | 1.04                  | .99  | .95  | 1.01 | .97  | .94  | .97                             | .94  | .91  | .93  | .90  | .88  | .89  | .87  | .85  | .83 |
| 2.0  | .90                   | .83  | .78  | .88  | .82  | .77  | .85                             | .79  | .75  | .81  | .77  | .73  | .78  | .74  | .71  | .69 |
| 3.0  | .79                   | .71  | .64  | .77  | .70  | .64  | .74                             | .68  | .62  | .71  | .66  | .61  | .69  | .64  | .60  | .58 |
| 4.0  | .70                   | .61  | .54  | .69  | .60  | .54  | .66                             | .59  | .53  | .63  | .57  | .52  | .61  | .56  | .51  | .49 |
| 5.0  | .62                   | .53  | .47  | .61  | .53  | .46  | .59                             | .51  | .46  | .57  | .50  | .45  | .55  | .49  | .45  | .42 |
| 6.0  | .56                   | .47  | .41  | .55  | .47  | .40  | .53                             | .46  | .40  | .51  | .45  | .40  | .50  | .44  | .39  | .37 |
| 7.0  | .51                   | .42  | .36  | .50  | .42  | .36  | .48                             | .41  | .35  | .47  | .40  | .35  | .45  | .39  | .35  | .33 |
| 8.0  | .46                   | .38  | .32  | .46  | .37  | .32  | .44                             | .37  | .31  | .43  | .36  | .31  | .42  | .36  | .31  | .29 |
| 9.0  | .42                   | .34  | .29  | .42  | .34  | .29  | .41                             | .33  | .28  | .39  | .33  | .28  | .38  | .32  | .28  | .26 |
| 10.0 | .39                   | .31  | .26  | .39  | .31  | .26  | .38                             | .30  | .26  | .37  | .30  | .25  | .36  | .30  | .25  | .24 |



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.7DEG  
 Operators: Jianfei Wu  
 Test Date: 2022-03-14

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
 Humidity: 54.2%  
 Test Distance: 10.149m [K=1.0000]  
 Remarks:

Checker: Jianfei Wu

Assessor: Lijian Jiang

## WEC AND CCEC

| 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  | .310                  | .176 | .056 | .302 | .173 | .055 | .289                             | .166 | .053 | .276 | .159 | .051 | .264 | .153 | .049 |   |
| 2.0  | .292                  | .160 | .049 | .285 | .157 | .048 | .273                             | .152 | .047 | .262 | .147 | .046 | .252 | .142 | .045 |   |
| 3.0  | .270                  | .144 | .043 | .265 | .142 | .043 | .254                             | .138 | .042 | .244 | .134 | .041 | .234 | .130 | .040 |   |
| 4.0  | .250                  | .130 | .038 | .244 | .128 | .038 | .235                             | .125 | .037 | .226 | .121 | .037 | .218 | .118 | .036 |   |
| 5.0  | .231                  | .118 | .034 | .226 | .116 | .034 | .218                             | .113 | .033 | .210 | .111 | .033 | .202 | .108 | .032 |   |
| 6.0  | .214                  | .107 | .031 | .210 | .106 | .031 | .202                             | .104 | .030 | .195 | .101 | .030 | .189 | .099 | .029 |   |
| 7.0  | .199                  | .098 | .028 | .196 | .097 | .028 | .189                             | .095 | .027 | .182 | .094 | .027 | .176 | .092 | .027 |   |
| 8.0  | .186                  | .091 | .026 | .183 | .090 | .025 | .177                             | .088 | .025 | .171 | .087 | .025 | .166 | .085 | .025 |   |
| 9.0  | .174                  | .084 | .024 | .171 | .084 | .023 | .166                             | .082 | .023 | .161 | .081 | .023 | .156 | .079 | .023 |   |
| 10.0 | .164                  | .079 | .022 | .161 | .078 | .022 | .156                             | .077 | .022 | .152 | .075 | .021 | .147 | .074 | .021 |   |

| 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  | .197                  | .197 | .197 | .169 | .169 | .169 | .115                                        | .115 | .115 | .066 | .066 | .066 | .021 | .021 | .021 |   |
| 1.0  | .187                  | .163 | .141 | .160 | .140 | .122 | .110                                        | .096 | .084 | .063 | .056 | .049 | .020 | .018 | .016 |   |
| 2.0  | .179                  | .139 | .105 | .154 | .120 | .091 | .105                                        | .083 | .063 | .061 | .048 | .037 | .019 | .016 | .012 |   |
| 3.0  | .172                  | .121 | .081 | .147 | .105 | .071 | .101                                        | .073 | .049 | .058 | .043 | .029 | .019 | .014 | .010 |   |
| 4.0  | .164                  | .108 | .065 | .141 | .093 | .057 | .097                                        | .065 | .040 | .056 | .038 | .024 | .018 | .012 | .008 |   |
| 5.0  | .157                  | .098 | .054 | .135 | .085 | .047 | .093                                        | .059 | .033 | .054 | .035 | .020 | .017 | .011 | .007 |   |
| 6.0  | .150                  | .089 | .046 | .129 | .077 | .040 | .089                                        | .054 | .029 | .051 | .032 | .017 | .017 | .010 | .006 |   |
| 7.0  | .143                  | .083 | .040 | .123 | .072 | .035 | .085                                        | .050 | .025 | .049 | .030 | .015 | .016 | .010 | .005 |   |
| 8.0  | .136                  | .077 | .036 | .117 | .067 | .031 | .081                                        | .047 | .022 | .047 | .028 | .013 | .015 | .009 | .004 |   |
| 9.0  | .130                  | .072 | .032 | .112 | .062 | .028 | .078                                        | .044 | .020 | .045 | .026 | .012 | .015 | .008 | .004 |   |
| 10.0 | .125                  | .068 | .030 | .107 | .059 | .026 | .075                                        | .041 | .018 | .043 | .024 | .011 | .014 | .008 | .004 |   |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.7DEG  
 Operators:Jianfei Wu  
 Test Date:2022-03-14

Checker: Jianfei Wu

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
 Humidity:54.2%  
 Test Distance:10.149m [K=1.0000]  
 Remarks:

Assessor: Lijian Jiang

UGR(Unified Glare Rating) Table

|                                                    |                  |      |      |      |      |                |      |      |      |      |
|----------------------------------------------------|------------------|------|------|------|------|----------------|------|------|------|------|
| 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                                      | 22.4             | 23.9 | 22.7 | 24.1 | 24.4 | 23.2           | 24.8 | 23.5 | 25.0 | 25.2 |
| 3H                                                 | 23.4             | 24.8 | 23.7 | 25.1 | 25.3 | 24.6           | 26.0 | 24.9 | 26.3 | 26.5 |
| 4H                                                 | 23.6             | 24.9 | 23.9 | 25.2 | 25.5 | 25.0           | 26.3 | 25.3 | 26.6 | 26.9 |
| 6H                                                 | 23.6             | 24.8 | 23.9 | 25.1 | 25.4 | 25.2           | 26.4 | 25.5 | 26.7 | 27.0 |
| 8H                                                 | 23.6             | 24.8 | 23.9 | 25.1 | 25.4 | 25.2           | 26.4 | 25.6 | 26.7 | 27.0 |
| 12H                                                | 23.5             | 24.7 | 23.9 | 25.0 | 25.3 | 25.2           | 26.4 | 25.6 | 26.7 | 27.0 |
| 4H 2H                                              | 23.0             | 24.3 | 23.3 | 24.6 | 24.9 | 23.6           | 25.0 | 24.0 | 25.2 | 25.5 |
| 3H                                                 | 24.1             | 25.3 | 24.5 | 25.6 | 25.9 | 25.2           | 26.3 | 25.5 | 26.6 | 27.0 |
| 4H                                                 | 24.4             | 25.4 | 24.8 | 25.8 | 26.1 | 25.6           | 26.7 | 26.0 | 27.0 | 27.4 |
| 6H                                                 | 24.4             | 25.4 | 24.8 | 25.7 | 26.1 | 25.9           | 26.8 | 26.3 | 27.2 | 27.6 |
| 8H                                                 | 24.4             | 25.3 | 24.8 | 25.7 | 26.1 | 25.9           | 26.8 | 26.4 | 27.2 | 27.6 |
| 12H                                                | 24.4             | 25.2 | 24.8 | 25.6 | 26.0 | 26.0           | 26.8 | 26.4 | 27.2 | 27.6 |
| 8H 4H                                              | 24.5             | 25.4 | 25.0 | 25.8 | 26.2 | 25.7           | 26.6 | 26.1 | 27.0 | 27.4 |
| 6H                                                 | 24.6             | 25.4 | 25.1 | 25.8 | 26.2 | 26.0           | 26.8 | 26.5 | 27.2 | 27.6 |
| 8H                                                 | 24.6             | 25.3 | 25.1 | 25.7 | 26.2 | 26.1           | 26.8 | 26.6 | 27.2 | 27.7 |
| 12H                                                | 24.6             | 25.2 | 25.1 | 25.7 | 26.2 | 26.2           | 26.7 | 26.7 | 27.2 | 27.7 |
| 12H 4H                                             | 24.5             | 25.3 | 25.0 | 25.7 | 26.2 | 25.7           | 26.5 | 26.1 | 26.9 | 27.3 |
| 6H                                                 | 24.6             | 25.3 | 25.1 | 25.7 | 26.2 | 26.0           | 26.7 | 26.5 | 27.1 | 27.6 |
| 8H                                                 | 24.6             | 25.2 | 25.1 | 25.7 | 26.2 | 26.1           | 26.7 | 26.6 | 27.1 | 27.6 |
| Variations with the observer position at spacings: |                  |      |      |      |      |                |      |      |      |      |
| S = 1.0H                                           | + 0.2 / - 0.3    |      |      |      |      | + 0.2 / - 0.2  |      |      |      |      |
| 1.5H                                               | + 0.3 / - 0.4    |      |      |      |      | + 0.3 / - 0.4  |      |      |      |      |
| 2.0H                                               | + 0.5 / - 0.6    |      |      |      |      | + 0.4 / - 0.6  |      |      |      |      |

CIE Pub.117 Corrected 2566 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.3)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24.7DEG  
Operators:Jianfei Wu  
Test Date:2022-03-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity:54.2%  
Test Distance:10.149m [K=1.0000]  
Remarks:

Checker: Jianfei Wu

Assessor: Lijian Jiang

## UTILIZATION FACTORS TABLE

| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 57                                                   | 45  | 38        | 56  | 45  | 38  | 55  | 44            | 38  | 31     |
| 0.80                             | 67                                                   | 55  | 48        | 66  | 55  | 48  | 64  | 54            | 47  | 40     |
| 1.00                             | 75                                                   | 64  | 57        | 74  | 64  | 57  | 72  | 65            | 56  | 49     |
| 1.25                             | 83                                                   | 72  | 65        | 81  | 71  | 64  | 78  | 70            | 64  | 56     |
| 1.50                             | 88                                                   | 78  | 71        | 86  | 77  | 70  | 83  | 75            | 69  | 61     |
| 2.00                             | 95                                                   | 86  | 79        | 93  | 85  | 79  | 89  | 82            | 77  | 69     |
| 2.50                             | 98                                                   | 91  | 85        | 96  | 89  | 84  | 92  | 86            | 82  | 73     |
| 3.00                             | 102                                                  | 95  | 89        | 100 | 93  | 88  | 95  | 90            | 86  | 77     |
| 4.00                             | 106                                                  | 100 | 95        | 103 | 98  | 94  | 99  | 95            | 91  | 82     |
| 5.00                             | 108                                                  | 103 | 99        | 106 | 101 | 98  | 101 | 98            | 95  | 85     |
| 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: 24.7DEG  
 Operators: Jianfei Wu  
 Test Date: 2022-03-14

Checker: Jianfei Wu

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
 Humidity: 54.2%  
 Test Distance: 10.149m [K=1.0000]  
 Remarks:

Assessor: Lijian Jiang

## ISOCANDELA DIAGRAM

Conical surface Flux(90deg):

1354 lm

%lum = 52.8%

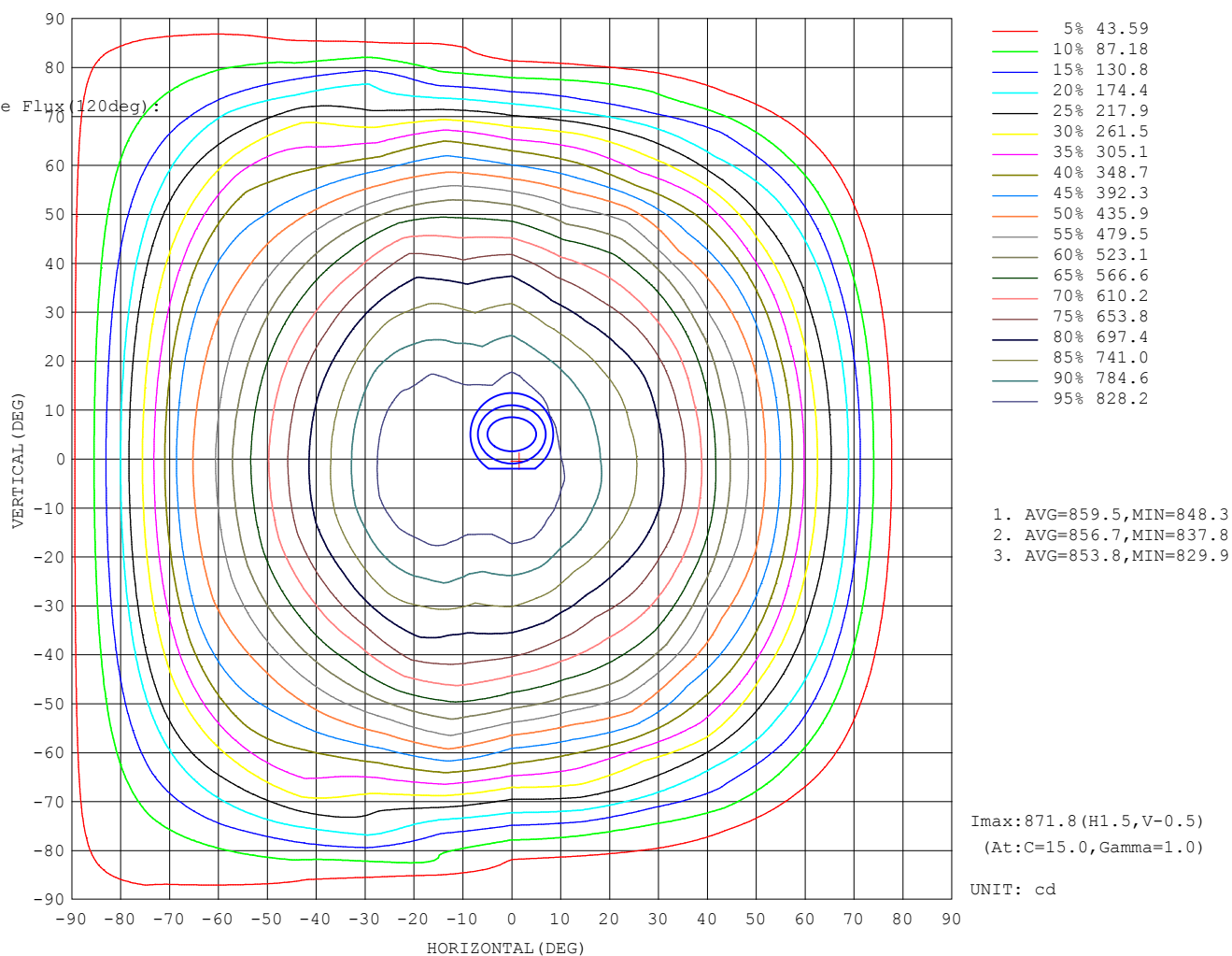
%lamp = 52.8%

Conical surface Flux(120deg):

2003.1 lm

%lum = 78.1%

%lamp = 78.1%



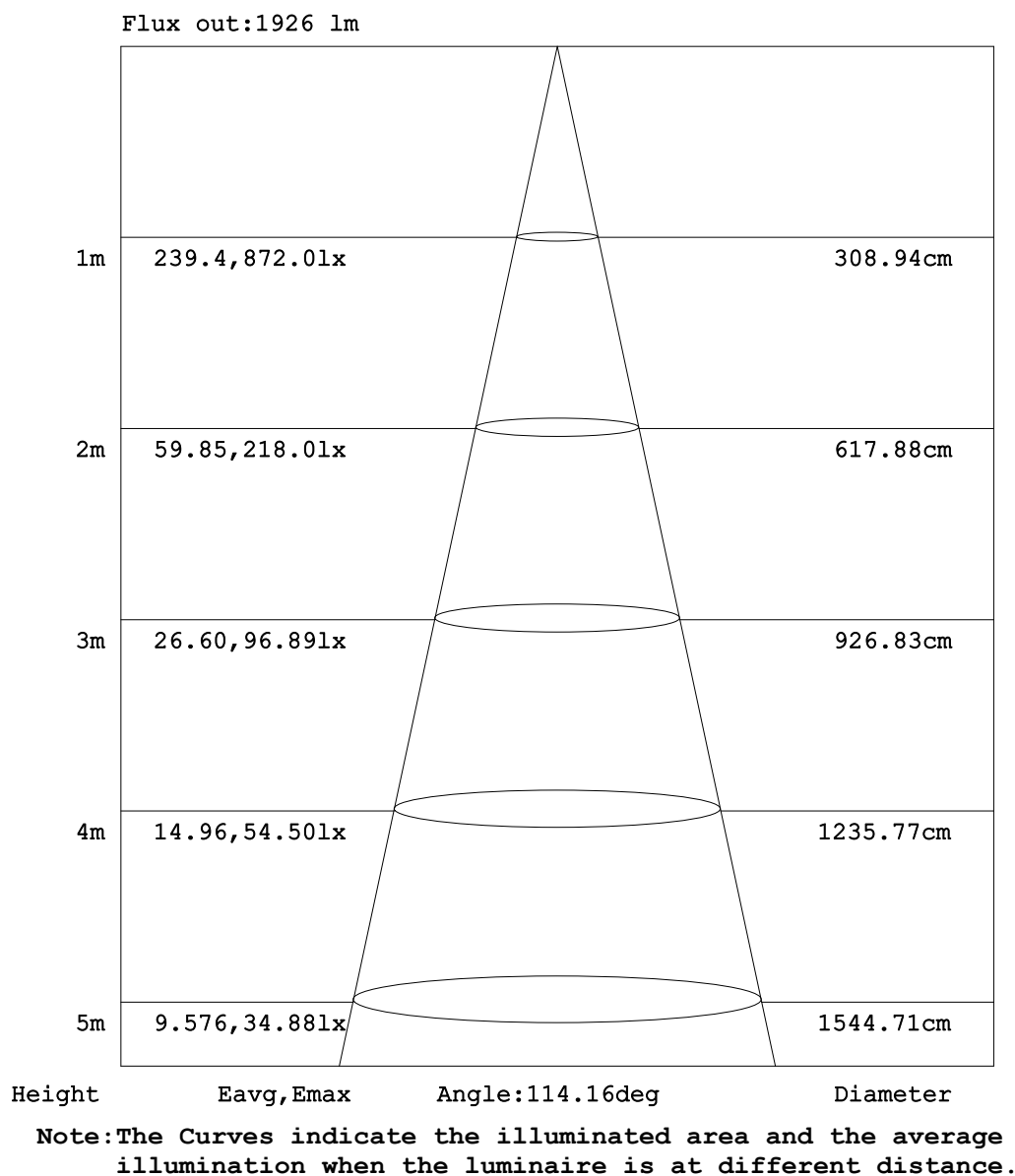
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24.7DEG  
Operators:Jianfei Wu  
Test Date:2022-03-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity:54.2%  
Test Distance:10.149m [K=1.0000]  
Remarks:

Checker: Jianfei Wu

Assessor: Lijian Jiang

## AAI Figure



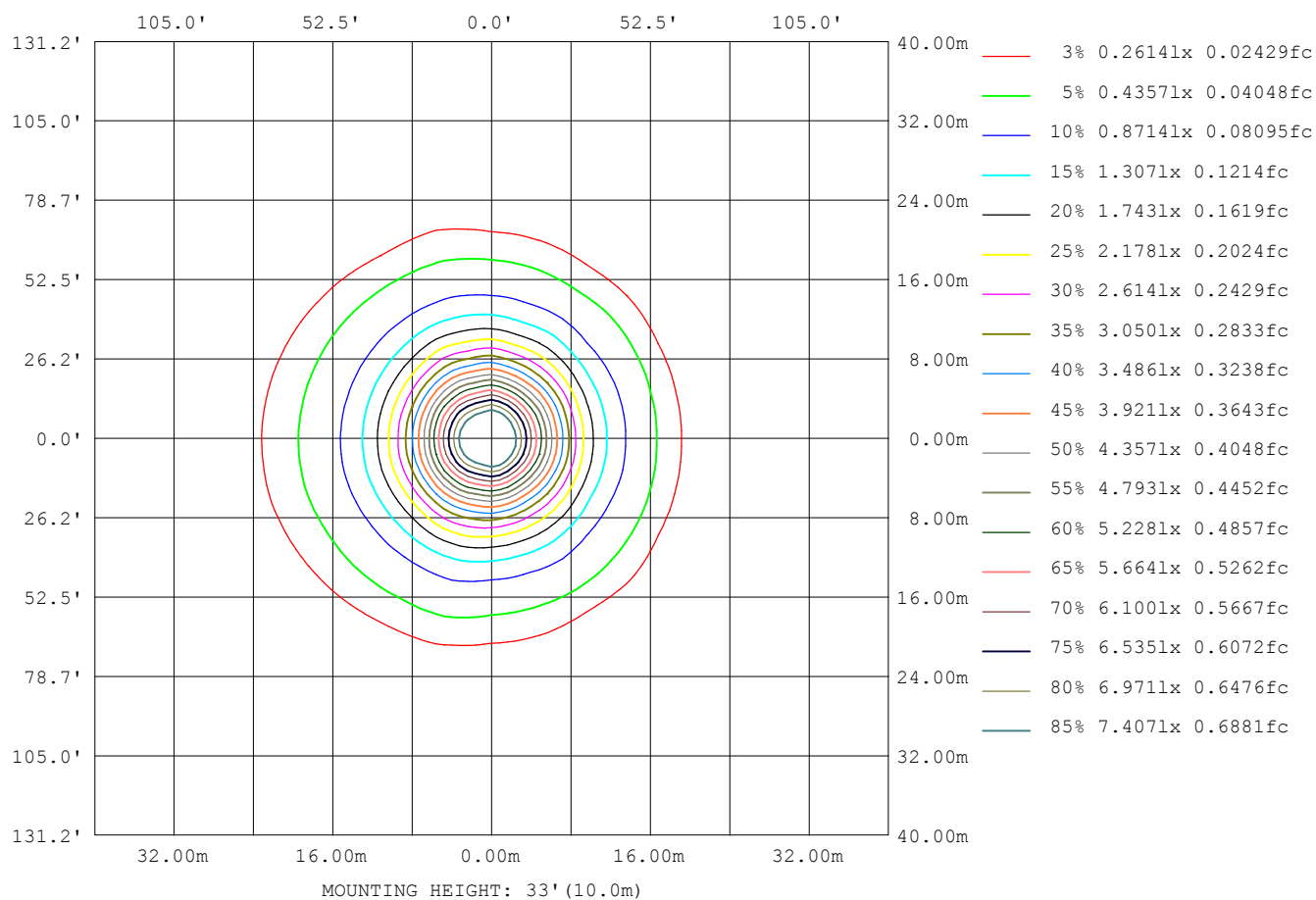
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 24.7DEG  
Operators: Jianfei Wu  
Test Date: 2022-03-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity: 54.2%  
Test Distance: 10.149m [K=1.0000]  
Remarks:

Checker: Jianfei Wu

Assessor: Lijian Jiang

## ISOLUX DIAGRAM



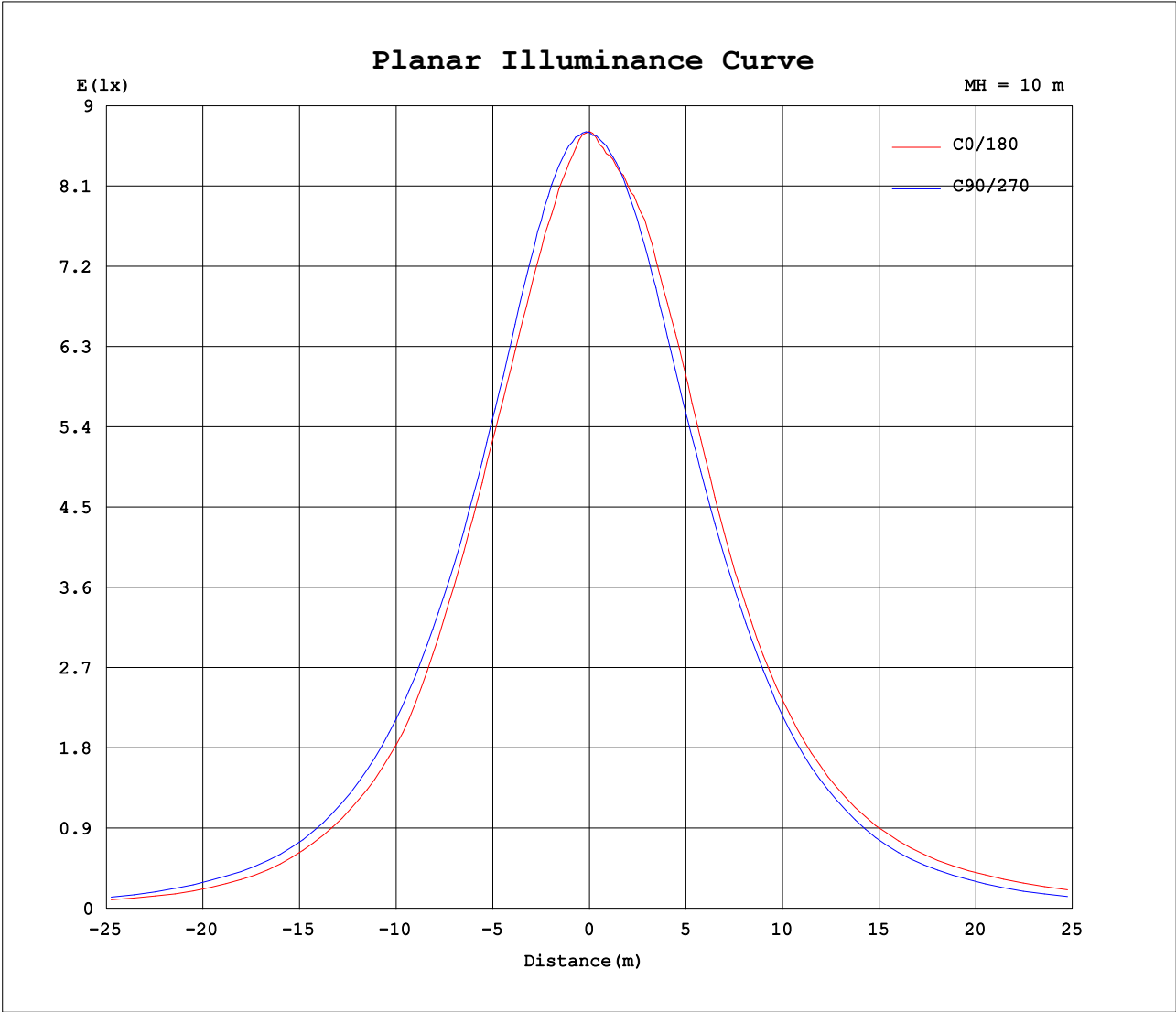
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 24.7DEG  
Operators: Jianfei Wu  
Test Date: 2022-03-14

Checker: Jianfei Wu

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity: 54.2%  
Test Distance: 10.149m [K=1.0000]  
Remarks:

Assessor: Lijian Jiang

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24.7DEG  
Operators:Jianfei Wu  
Test Date:2022-03-14

Checker: Jianfei Wu

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity:54.2%  
Test Distance:10.149m [K=1.0000]  
Remarks:

Assessor: Lijian Jiang

## LUMINOUS DISTRIBUTION INTENSITY DATA

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                  | 871  | 869  | 869  | 871  | 870  | 869  | 870  | 871  | 869  | 872  | 870  | 868  | 871  | 869  | 869  | 871  | 870  | 869  | 870  |
| 5                  | 854  | 857  | 861  | 866  | 870  | 871  | 869  | 867  | 862  | 858  | 860  | 859  | 857  | 857  | 857  | 856  | 858  | 860  | 865  |
| 10                 | 829  | 834  | 837  | 841  | 851  | 863  | 861  | 856  | 853  | 857  | 857  | 858  | 861  | 856  | 850  | 850  | 847  | 849  | 857  |
| 15                 | 804  | 808  | 812  | 819  | 825  | 840  | 843  | 832  | 840  | 849  | 860  | 866  | 866  | 862  | 851  | 843  | 835  | 831  | 841  |
| 20                 | 774  | 779  | 779  | 785  | 789  | 805  | 813  | 808  | 820  | 845  | 860  | 857  | 856  | 853  | 852  | 837  | 817  | 805  | 815  |
| 25                 | 745  | 746  | 747  | 748  | 750  | 769  | 779  | 774  | 799  | 823  | 837  | 845  | 843  | 839  | 830  | 823  | 795  | 778  | 786  |
| 30                 | 708  | 713  | 711  | 707  | 708  | 729  | 742  | 743  | 776  | 792  | 812  | 813  | 810  | 808  | 810  | 789  | 776  | 744  | 754  |
| 35                 | 659  | 665  | 664  | 661  | 664  | 684  | 702  | 707  | 734  | 758  | 762  | 768  | 764  | 762  | 763  | 760  | 746  | 711  | 717  |
| 40                 | 593  | 603  | 608  | 616  | 620  | 637  | 659  | 675  | 701  | 705  | 706  | 716  | 715  | 712  | 707  | 709  | 705  | 669  | 672  |
| 45                 | 519  | 524  | 535  | 561  | 569  | 579  | 602  | 636  | 655  | 644  | 652  | 664  | 662  | 659  | 652  | 653  | 665  | 621  | 612  |
| 50                 | 462  | 466  | 460  | 490  | 513  | 516  | 538  | 576  | 591  | 583  | 592  | 607  | 607  | 602  | 593  | 590  | 597  | 569  | 547  |
| 55                 | 391  | 398  | 399  | 405  | 445  | 440  | 460  | 512  | 513  | 518  | 528  | 546  | 547  | 539  | 529  | 525  | 519  | 509  | 473  |
| 60                 | 301  | 308  | 326  | 342  | 358  | 364  | 380  | 439  | 435  | 452  | 466  | 486  | 487  | 479  | 467  | 451  | 435  | 427  | 393  |
| 65                 | 221  | 224  | 236  | 266  | 262  | 294  | 300  | 347  | 356  | 385  | 407  | 435  | 438  | 427  | 406  | 378  | 349  | 361  | 309  |
| 70                 | 154  | 162  | 171  | 175  | 196  | 215  | 209  | 252  | 275  | 326  | 353  | 366  | 367  | 360  | 352  | 313  | 268  | 261  | 220  |
| 75                 | 73.8 | 79.1 | 90.3 | 117  | 111  | 124  | 129  | 162  | 217  | 259  | 260  | 271  | 271  | 266  | 263  | 253  | 200  | 160  | 131  |
| 80                 | 26.6 | 29.1 | 32.7 | 42.1 | 57.5 | 61.2 | 61.8 | 95.5 | 147  | 165  | 169  | 175  | 174  | 169  | 174  | 152  | 148  | 80.8 | 57.6 |
| 85                 | 9.98 | 11.5 | 12.9 | 13.4 | 13.9 | 19.6 | 22.8 | 46.9 | 57.4 | 76.3 | 83.1 | 92.5 | 93.2 | 87.6 | 82.4 | 68.5 | 50.4 | 44.3 | 15.8 |
| 90                 | 3.20 | 3.82 | 4.36 | 5.09 | 7.04 | 5.24 | 1.45 | 8.48 | 14.9 | 23.9 | 31.8 | 38.1 | 39.0 | 36.5 | 31.1 | 22.6 | 14.8 | 8.27 | 1.31 |
| 95                 | 3.01 | 3.57 | 3.97 | 4.22 | 4.32 | 2.50 | 0.55 | 5.23 | 8.17 | 11.0 | 13.7 | 16.1 | 16.2 | 15.5 | 13.7 | 10.8 | 8.87 | 4.49 | 0.40 |
| 100                | 2.96 | 3.46 | 3.78 | 3.88 | 3.51 | 1.62 | 0.72 | 3.25 | 4.52 | 4.42 | 4.13 | 3.80 | 3.36 | 4.02 | 4.76 | 5.60 | 5.64 | 2.76 | 0.56 |
| 105                | 2.99 | 3.39 | 3.62 | 3.23 | 2.78 | 1.42 | 0.99 | 2.68 | 3.84 | 4.03 | 3.82 | 3.38 | 2.93 | 3.61 | 4.30 | 4.79 | 4.33 | 2.03 | 0.80 |
| 110                | 3.06 | 3.36 | 2.97 | 3.21 | 2.27 | 1.49 | 1.30 | 2.34 | 3.29 | 3.73 | 3.66 | 3.28 | 2.82 | 3.42 | 3.92 | 4.11 | 3.36 | 1.72 | 1.08 |
| 115                | 3.11 | 3.30 | 3.31 | 2.63 | 2.22 | 1.75 | 1.61 | 2.18 | 3.01 | 3.47 | 3.54 | 3.23 | 2.78 | 3.27 | 3.60 | 3.50 | 3.05 | 1.66 | 1.38 |
| 120                | 3.14 | 3.27 | 2.87 | 2.61 | 2.31 | 2.02 | 1.93 | 2.22 | 3.08 | 3.26 | 3.40 | 3.20 | 2.77 | 3.14 | 3.32 | 3.11 | 2.91 | 1.79 | 1.68 |
| 125                | 3.20 | 3.22 | 2.87 | 2.69 | 2.45 | 2.31 | 2.23 | 2.34 | 3.07 | 3.14 | 3.29 | 3.17 | 2.79 | 3.04 | 3.11 | 3.00 | 2.73 | 1.98 | 1.97 |
| 130                | 3.23 | 3.23 | 2.96 | 2.82 | 2.64 | 2.56 | 2.50 | 2.46 | 3.02 | 3.23 | 3.19 | 3.11 | 2.80 | 2.96 | 2.99 | 3.09 | 2.68 | 2.21 | 2.24 |
| 135                | 3.28 | 3.23 | 3.05 | 2.94 | 2.83 | 2.78 | 2.73 | 2.65 | 3.02 | 3.33 | 3.27 | 3.13 | 2.84 | 2.98 | 3.10 | 3.10 | 2.70 | 2.46 | 2.48 |
| 140                | 3.37 | 3.26 | 3.18 | 3.07 | 3.02 | 2.99 | 2.94 | 2.84 | 3.07 | 3.34 | 3.42 | 3.31 | 3.01 | 3.16 | 3.21 | 3.05 | 2.76 | 2.66 | 2.70 |
| 145                | 3.43 | 3.36 | 3.28 | 3.22 | 3.20 | 3.16 | 3.12 | 3.05 | 3.09 | 3.32 | 3.45 | 3.45 | 3.20 | 3.25 | 3.21 | 3.06 | 2.87 | 2.87 | 2.91 |
| 150                | 3.49 | 3.45 | 3.41 | 3.37 | 3.34 | 3.31 | 3.28 | 3.21 | 3.20 | 3.34 | 3.45 | 3.47 | 3.26 | 3.27 | 3.20 | 3.09 | 3.02 | 3.04 | 3.07 |
| 155                | 3.57 | 3.55 | 3.53 | 3.51 | 3.49 | 3.47 | 3.43 | 3.36 | 3.34 | 3.37 | 3.45 | 3.48 | 3.25 | 3.25 | 3.21 | 3.18 | 3.16 | 3.22 | 3.24 |
| 160                | 3.66 | 3.64 | 3.62 | 3.62 | 3.60 | 3.57 | 3.53 | 3.49 | 3.46 | 3.45 | 3.46 | 3.50 | 3.30 | 3.29 | 3.29 | 3.30 | 3.30 | 3.37 | 3.39 |
| 165                | 3.76 | 3.73 | 3.71 | 3.70 | 3.68 | 3.66 | 3.63 | 3.59 | 3.58 | 3.57 | 3.55 | 3.55 | 3.43 | 3.41 | 3.45 | 3.44 | 3.47 | 3.50 | 3.54 |
| 170                | 3.81 | 3.79 | 3.78 | 3.76 | 3.74 | 3.73 | 3.72 | 3.70 | 3.67 | 3.66 | 3.67 | 3.65 | 3.58 | 3.57 | 3.58 | 3.61 | 3.61 | 3.64 | 3.66 |
| 175                | 3.85 | 3.82 | 3.81 | 3.79 | 3.79 | 3.78 | 3.78 | 3.78 | 3.77 | 3.77 | 3.77 | 3.77 | 3.72 | 3.69 | 3.70 | 3.73 | 3.73 | 3.75 | 3.75 |
| 180                | 3.83 | 3.78 | 3.80 | 3.81 | 3.80 | 3.80 | 3.84 | 3.81 | 3.82 | 3.82 | 3.83 | 3.84 | 3.84 | 3.80 | 3.81 | 3.81 | 3.82 | 3.82 | 3.81 |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.7DEG  
 Operators:Jianfei Wu  
 Test Date:2022-03-14

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
 Humidity:54.2%  
 Test Distance:10.149m [K=1.0000]  
 Remarks:

Checker: Jianfei Wu

Assessor: Lijian Jiang

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd

| C (DEG)<br>γ (DEG) | 285  | 300  | 315  | 330  | 345  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                  | 871  | 869  | 872  | 870  | 868  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 866  | 862  | 858  | 854  | 855  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 854  | 844  | 834  | 831  | 828  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 830  | 819  | 809  | 806  | 801  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 801  | 789  | 781  | 775  | 773  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 764  | 753  | 745  | 745  | 741  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 725  | 710  | 708  | 712  | 706  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 682  | 669  | 668  | 665  | 658  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 634  | 622  | 613  | 606  | 592  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 576  | 575  | 554  | 534  | 518  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 510  | 512  | 477  | 462  | 462  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 443  | 437  | 403  | 400  | 393  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                 | 370  | 338  | 337  | 317  | 304  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 293  | 267  | 249  | 230  | 222  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 205  | 187  | 162  | 167  | 156  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                 | 119  | 102  | 98.9 | 83.5 | 75.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                 | 51.6 | 47.6 | 35.5 | 30.4 | 27.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                 | 15.4 | 13.8 | 12.6 | 11.9 | 10.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                 | 6.60 | 7.50 | 5.46 | 4.42 | 3.61 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                 | 3.73 | 3.72 | 4.26 | 3.85 | 3.23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100                | 2.42 | 4.33 | 3.68 | 3.34 | 3.04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105                | 1.76 | 3.44 | 3.15 | 3.21 | 2.90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110                | 1.40 | 2.23 | 3.01 | 3.23 | 2.82 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115                | 1.54 | 2.09 | 2.50 | 3.20 | 2.95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120                | 1.79 | 2.15 | 2.46 | 2.72 | 2.98 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125                | 2.06 | 2.26 | 2.52 | 2.71 | 2.96 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130                | 2.31 | 2.42 | 2.63 | 2.79 | 3.03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135                | 2.55 | 2.60 | 2.74 | 2.87 | 3.09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140                | 2.78 | 2.80 | 2.88 | 2.99 | 3.13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145                | 2.96 | 3.00 | 3.05 | 3.11 | 3.20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150                | 3.14 | 3.19 | 3.20 | 3.23 | 3.29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155                | 3.30 | 3.33 | 3.37 | 3.38 | 3.43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160                | 3.44 | 3.46 | 3.50 | 3.53 | 3.55 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165                | 3.57 | 3.59 | 3.62 | 3.65 | 3.67 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170                | 3.68 | 3.71 | 3.72 | 3.74 | 3.78 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175                | 3.77 | 3.79 | 3.79 | 3.80 | 3.83 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180                | 3.82 | 3.82 | 3.81 | 3.84 | 3.83 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.7DEG  
 Operators:Jianfei Wu  
 Test Date:2022-03-14

Checker: Jianfei Wu

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
 Humidity:54.2%  
 Test Distance:10.149m [K=1.0000]  
 Remarks:

Assessor: Lijian Jiang