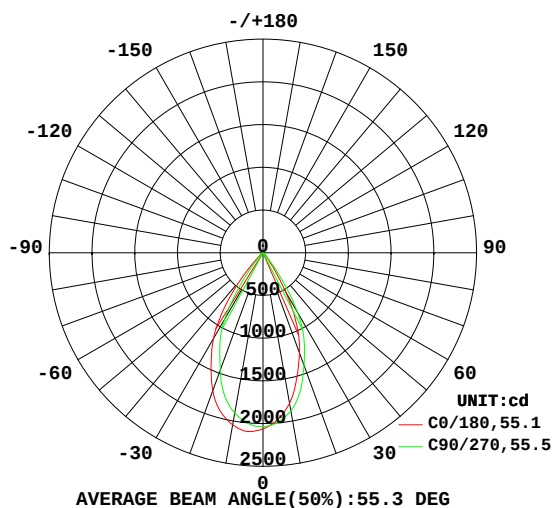


## LUMINAIRE PHOTOMETRIC TEST REPORT

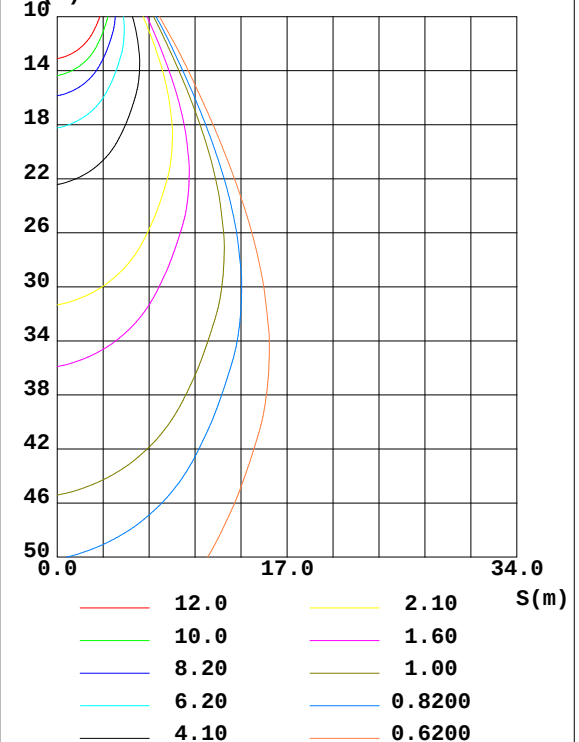
|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:220.62V I:0.0951A P:19.087W PF:0.9095 Freq:50.00Hz Lamp Flux:1596.86x1 lm |            |                  |
| NAME: DD1810M-WHTC2010C02                                                        | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 88mm | Shielding Angle: |

| DATA OF LAMP     |                  | PHOTOMETRIC DATA      |        |                    |           | Eff: 83.66 lm/W |
|------------------|------------------|-----------------------|--------|--------------------|-----------|-----------------|
| MODEL            | TB15111204 3000K | I <sub>max</sub> (cd) | 2100   | S/MH(C0/180)       | 0.95      |                 |
| NOMINAL POWER(W) | 20               | LOR(%)                | 100.0  | S/MH(C90/270)      | 0.84      |                 |
| RATED VOLTAGE(V) | 220-240          | TOTAL FLUX(lm)        | 1596.9 | η UP, DN(C0-180)   | 0.0, 47.4 |                 |
| NOMINAL FLUX(lm) | 1596.86          | CIE CLASS             | DIRECT | η UP, DN(C180-360) | 0.0, 52.6 |                 |
| LAMPS INSIDE     | 1                | η up(%)               | 0.0    | CIBSE SHR NOM      | 0.75      |                 |
| TEST VOLTAGE(V)  | 220              | η down(%)             | 100.0  | CIBSE SHR MAX      | 0.90      |                 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators:  
Test Date: 2023-12-25

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity: 65.0%  
Test Distance: 7.450m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

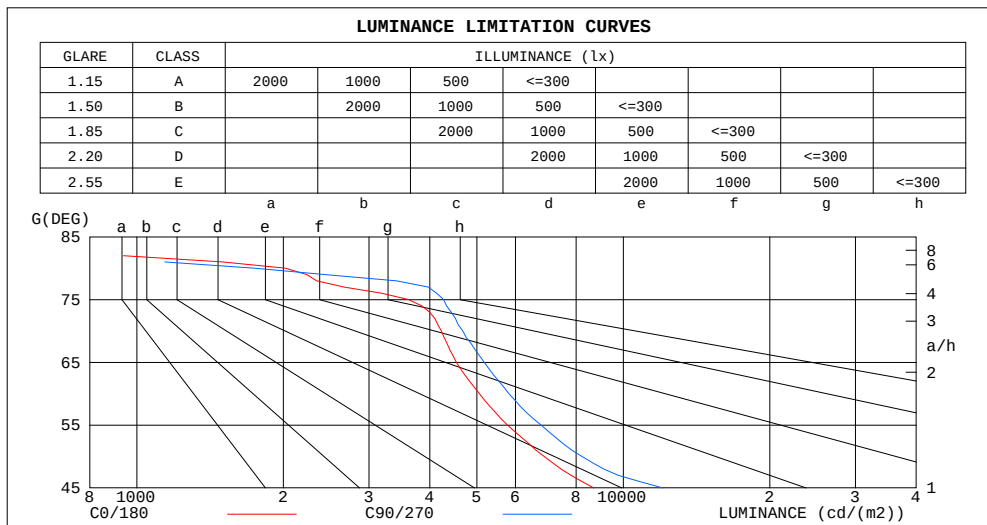
| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 1790                  | 1805   | 1878   | 1957   | 2045   | 1997   | 1906   | 1813   | 0- 10    | 188.0       | 188.0        | 11.8,11.8  |
| 20       | 1250                  | 1283   | 1404   | 1579   | 1719   | 1639   | 1463   | 1296   | 10- 20   | 474.2       | 662.2        | 41.5,41.5  |
| 30       | 539.5                 | 610.3  | 818.7  | 1034   | 1160   | 1087   | 900.2  | 656.2  | 20- 30   | 531.6       | 1194         | 74.8,74.8  |
| 40       | 70.19                 | 79.83  | 119.9  | 245.5  | 388.4  | 315.9  | 143.6  | 82.83  | 30- 40   | 294.8       | 1488         | 93.2,93.2  |
| 50       | 26.87                 | 27.91  | 32.12  | 39.47  | 53.19  | 47.87  | 34.85  | 29.08  | 40- 50   | 61.62       | 1550         | 97.1,97.1  |
| 60       | 15.38                 | 15.81  | 17.69  | 20.59  | 23.56  | 22.43  | 19.34  | 16.55  | 50- 60   | 23.17       | 1573         | 98.5,98.5  |
| 70       | 8.788                 | 8.927  | 9.723  | 11.38  | 13.07  | 12.78  | 11.14  | 9.614  | 60- 70   | 14.26       | 1588         | 99.4,99.4  |
| 80       | 2.132                 | 2.236  | 1.844  | 5.773  | 6.873  | 6.868  | 2.980  | 2.494  | 70- 80   | 7.907       | 1595         | 99.9,99.9  |
| 90       | 0.1313                | 0.1313 | 0.1081 | 0.1120 | 0.1428 | 0.0733 | 0.0425 | 0.0347 | 80- 90   | 1.412       | 1597         | 100,100    |
| 100      |                       |        |        |        |        |        |        |        | 90-100   |             |              |            |
| 110      |                       |        |        |        |        |        |        |        | 100-110  |             |              |            |
| 120      |                       |        |        |        |        |        |        |        | 110-120  |             |              |            |
| 130      |                       |        |        |        |        |        |        |        | 120-130  |             |              |            |
| 140      |                       |        |        |        |        |        |        |        | 130-140  |             |              |            |
| 150      |                       |        |        |        |        |        |        |        | 140-150  |             |              |            |
| 160      |                       |        |        |        |        |        |        |        | 150-160  |             |              |            |
| 170      |                       |        |        |        |        |        |        |        | 160-170  |             |              |            |
| 180      |                       |        |        |        |        |        |        |        | 170-180  |             |              |            |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT: lm    |              |            |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2023-12-25

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
 Humidity:65.0%  
 Test Distance:7.450m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:220.62V I:0.0951A P:19.087W PF:0.9095 Freq:50.00Hz Lamp Flux:1596.86x1 lm |            |                  |
| NAME: DD1810M-WHTC2010C02                                                        | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 88mm | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 365    | 365     |
| 80                | 2019   | 1747    |
| 75                | 3617   | 4270    |
| 70                | 4226   | 4676    |
| 65                | 4539   | 5178    |
| 60                | 5059   | 5818    |
| 55                | 5777   | 6775    |
| 50                | 6875   | 8220    |
| 45                | 8691   | 12046   |

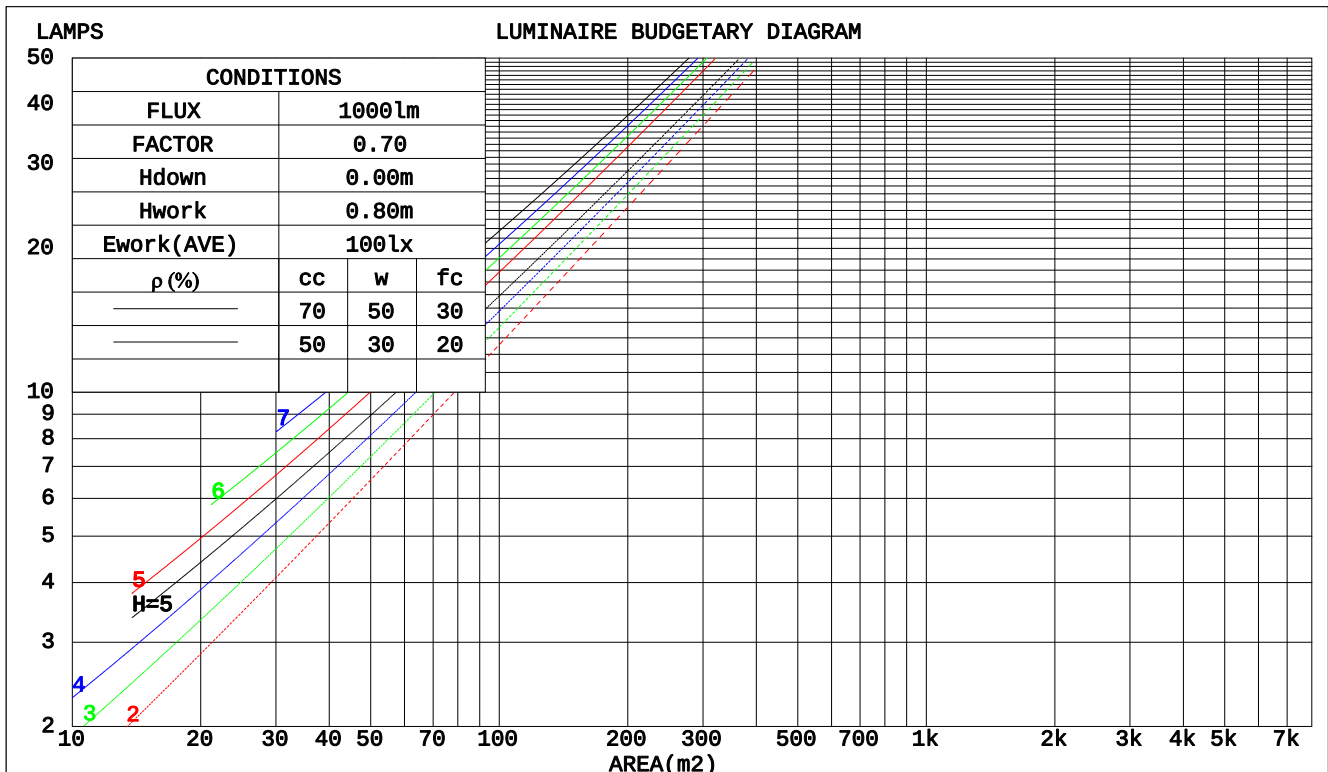
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators:  
Test Date: 2023-12-25

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity: 65.0%  
Test Distance: 7.450m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:220.62V I:0.0951A P:19.087W PF:0.9095 Freq:50.00Hz Lamp Flux:1596.86x1 lm |            |                  |
| NAME: DD1810M-WHTC2010C02                                                        | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 88mm | Shielding Angle: |

| ρ <sub>CC</sub> | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0   |
|-----------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|-----|
| ρ <sub>W</sub>  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| ρ <sub>fc</sub> | 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 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0             | 1.11                  | 1.08 | 1.06 | 1.09 | 1.06 | 1.04 | 1.05                            | 1.03 | 1.01 | 1.01 | .99  | .98  | .97  | .96  | .95  | .94 |
| 2.0             | 1.03                  | .99  | .96  | 1.01 | .98  | .95  | .98                             | .95  | .93  | .95  | .93  | .91  | .92  | .91  | .89  | .87 |
| 3.0             | .96                   | .91  | .88  | .95  | .90  | .87  | .92                             | .89  | .85  | .90  | .87  | .84  | .88  | .85  | .83  | .81 |
| 4.0             | .90                   | .85  | .81  | .89  | .84  | .80  | .87                             | .83  | .79  | .85  | .81  | .78  | .83  | .80  | .77  | .76 |
| 5.0             | .85                   | .79  | .75  | .84  | .78  | .74  | .82                             | .77  | .74  | .80  | .76  | .73  | .79  | .75  | .72  | .71 |
| 6.0             | .80                   | .74  | .70  | .79  | .73  | .69  | .77                             | .73  | .69  | .76  | .72  | .68  | .75  | .71  | .68  | .67 |
| 7.0             | .75                   | .69  | .65  | .74  | .69  | .65  | .73                             | .68  | .65  | .72  | .68  | .64  | .71  | .67  | .64  | .63 |
| 8.0             | .71                   | .65  | .61  | .70  | .65  | .61  | .69                             | .64  | .61  | .68  | .64  | .61  | .67  | .63  | .60  | .59 |
| 9.0             | .67                   | .61  | .58  | .67  | .61  | .57  | .66                             | .61  | .57  | .65  | .60  | .57  | .64  | .60  | .57  | .56 |
| 10.0            | .64                   | .58  | .54  | .63  | .58  | .54  | .63                             | .58  | .54  | .62  | .57  | .54  | .61  | .57  | .54  | .53 |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators:  
 Test Date: 2023-12-25

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
 Humidity: 65.0%  
 Test Distance: 7.450m [K=1.0000]  
 Remarks:

# WEC AND CCEC

|                                                                                  |  |  |            |  |                  |
|----------------------------------------------------------------------------------|--|--|------------|--|------------------|
| Test:U:220.62V I:0.0951A P:19.087W PF:0.9095 Freq:50.00Hz Lamp Flux:1596.86x1 lm |  |  |            |  |                  |
| NAME: DD1810M-WHTC2010C02                                                        |  |  | TYPE:      |  | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    |  |  | DIM.:      |  | SERIAL No.:      |
| MFR.:                                                                            |  |  | SUR.: 88mm |  | Shielding Angle: |

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0         |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0         | .178                  | .101 | .032 | .171 | .098 | .031 | .159                            | .091 | .029 | .147 | .085 | .027 | .137 | .079 | .026 |   |
| 2.0         | .170                  | .093 | .029 | .164 | .090 | .028 | .154                            | .085 | .027 | .144 | .081 | .025 | .135 | .076 | .024 |   |
| 3.0         | .161                  | .086 | .026 | .156 | .084 | .025 | .147                            | .080 | .024 | .139 | .076 | .023 | .131 | .073 | .022 |   |
| 4.0         | .153                  | .080 | .023 | .149 | .078 | .023 | .141                            | .075 | .022 | .134 | .072 | .022 | .127 | .069 | .021 |   |
| 5.0         | .146                  | .074 | .022 | .142 | .073 | .021 | .135                            | .070 | .021 | .129 | .068 | .020 | .123 | .066 | .020 |   |
| 6.0         | .139                  | .070 | .020 | .136 | .069 | .020 | .130                            | .066 | .019 | .124 | .065 | .019 | .119 | .063 | .019 |   |
| 7.0         | .133                  | .066 | .019 | .130 | .065 | .018 | .125                            | .063 | .018 | .120 | .061 | .018 | .115 | .060 | .018 |   |
| 8.0         | .127                  | .062 | .017 | .124 | .061 | .017 | .120                            | .060 | .017 | .115 | .058 | .017 | .111 | .057 | .017 |   |
| 9.0         | .121                  | .059 | .016 | .119 | .058 | .016 | .115                            | .057 | .016 | .111 | .056 | .016 | .107 | .055 | .016 |   |
| 10.0        | .117                  | .056 | .016 | .115 | .055 | .015 | .111                            | .054 | .015 | .107 | .053 | .015 | .104 | .052 | .015 |   |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%                                        |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--------------------------------------------|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                                        | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%                                        |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0  | .171                  | .157 | .145 | .146 | .135 | .125 | .100                                       | .093 | .086 | .058 | .054 | .050 | .018 | .017 | .016 |   |
| 2.0  | .156                  | .132 | .113 | .134 | .114 | .097 | .092                                       | .079 | .068 | .053 | .046 | .040 | .017 | .015 | .013 |   |
| 3.0  | .144                  | .114 | .090 | .123 | .098 | .078 | .084                                       | .068 | .055 | .049 | .040 | .032 | .016 | .013 | .011 |   |
| 4.0  | .133                  | .099 | .073 | .114 | .085 | .063 | .079                                       | .060 | .044 | .045 | .035 | .026 | .015 | .011 | .009 |   |
| 5.0  | .124                  | .087 | .060 | .107 | .075 | .052 | .074                                       | .053 | .037 | .043 | .031 | .022 | .014 | .010 | .007 |   |
| 6.0  | .117                  | .078 | .050 | .100 | .067 | .043 | .069                                       | .047 | .031 | .040 | .028 | .018 | .013 | .009 | .006 |   |
| 7.0  | .110                  | .070 | .042 | .095 | .061 | .037 | .066                                       | .043 | .026 | .038 | .025 | .016 | .012 | .008 | .005 |   |
| 8.0  | .105                  | .064 | .036 | .090 | .056 | .032 | .062                                       | .039 | .022 | .036 | .023 | .013 | .012 | .008 | .004 |   |
| 9.0  | .100                  | .059 | .031 | .086 | .051 | .027 | .059                                       | .036 | .019 | .035 | .021 | .012 | .011 | .007 | .004 |   |
| 10.0 | .095                  | .054 | .028 | .082 | .047 | .024 | .057                                       | .033 | .017 | .033 | .020 | .010 | .011 | .006 | .003 |   |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2023-12-25

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity:65.0%  
Test Distance:7.450m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

|                                                                                  |                  |      |      |      |            |                |      |                  |      |      |
|----------------------------------------------------------------------------------|------------------|------|------|------|------------|----------------|------|------------------|------|------|
| Test:U:220.62V I:0.0951A P:19.087W PF:0.9095 Freq:50.00Hz Lamp Flux:1596.86x1 lm |                  |      |      |      |            |                |      |                  |      |      |
| NAME: DD1810M-WHTC2010C02                                                        |                  |      |      |      | TYPE:      |                |      | WEIGHT:          |      |      |
| SPEC.: white RA90 3000K+5700K                                                    |                  |      |      |      | DIM.:      |                |      | SERIAL No.:      |      |      |
| MFR.:                                                                            |                  |      |      |      | SUR.: 88mm |                |      | Shielding 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                                                                    | 13.2             | 14.1 | 13.4 | 14.3 | 14.5       | 15.5           | 16.4 | 15.7             | 16.6 | 16.7 |
| 3H                                                                               | 13.4             | 14.2 | 13.6 | 14.4 | 14.6       | 15.5           | 16.4 | 15.8             | 16.6 | 16.8 |
| 4H                                                                               | 13.5             | 14.3 | 13.7 | 14.5 | 14.7       | 15.5           | 16.4 | 15.8             | 16.6 | 16.8 |
| 6H                                                                               | 13.4             | 14.2 | 13.7 | 14.5 | 14.7       | 15.5           | 16.3 | 15.8             | 16.5 | 16.8 |
| 8H                                                                               | 13.4             | 14.1 | 13.7 | 14.4 | 14.7       | 15.5           | 16.2 | 15.8             | 16.5 | 16.7 |
| 12H                                                                              | 13.4             | 14.1 | 13.7 | 14.3 | 14.6       | 15.4           | 16.1 | 15.7             | 16.4 | 16.7 |
| 4H 2H                                                                            | 13.2             | 14.0 | 13.4 | 14.2 | 14.4       | 15.3           | 16.1 | 15.6             | 16.3 | 16.6 |
| 3H                                                                               | 13.5             | 14.2 | 13.8 | 14.4 | 14.7       | 15.4           | 16.1 | 15.8             | 16.4 | 16.7 |
| 4H                                                                               | 13.6             | 14.2 | 13.9 | 14.5 | 14.8       | 15.5           | 16.1 | 15.9             | 16.4 | 16.8 |
| 6H                                                                               | 13.6             | 14.2 | 14.0 | 14.5 | 14.8       | 15.5           | 16.1 | 15.9             | 16.4 | 16.7 |
| 8H                                                                               | 13.6             | 14.1 | 14.0 | 14.4 | 14.8       | 15.5           | 16.0 | 15.9             | 16.3 | 16.7 |
| 12H                                                                              | 13.5             | 14.0 | 13.9 | 14.4 | 14.8       | 15.4           | 15.9 | 15.8             | 16.3 | 16.6 |
| 8H 4H                                                                            | 13.6             | 14.1 | 14.0 | 14.4 | 14.8       | 15.4           | 16.0 | 15.8             | 16.3 | 16.7 |
| 6H                                                                               | 13.6             | 14.0 | 14.0 | 14.4 | 14.8       | 15.4           | 15.9 | 15.9             | 16.3 | 16.7 |
| 8H                                                                               | 13.6             | 13.9 | 14.0 | 14.4 | 14.8       | 15.4           | 15.8 | 15.8             | 16.2 | 16.6 |
| 12H                                                                              | 13.5             | 13.8 | 14.0 | 14.3 | 14.8       | 15.3           | 15.7 | 15.8             | 16.1 | 16.6 |
| 12H 4H                                                                           | 13.5             | 14.0 | 13.9 | 14.4 | 14.8       | 15.4           | 15.9 | 15.8             | 16.2 | 16.6 |
| 6H                                                                               | 13.6             | 13.9 | 14.0 | 14.4 | 14.8       | 15.4           | 15.8 | 15.8             | 16.2 | 16.6 |
| 8H                                                                               | 13.5             | 13.9 | 14.0 | 14.3 | 14.8       | 15.4           | 15.7 | 15.8             | 16.1 | 16.6 |
| Variations with the observer position at spacings(CIE Pub.117):                  |                  |      |      |      |            |                |      |                  |      |      |
| S = 1.0H                                                                         | + 1.8 / - 1.6    |      |      |      |            | + 3.6 / - 3.0  |      |                  |      |      |
| 1.5H                                                                             | + 3.2 / - 1.3    |      |      |      |            | + 5.7 / - 2.6  |      |                  |      |      |
| 2.0H                                                                             | + 1.1 / - 0.8    |      |      |      |            | + 2.1 / - 1.0  |      |                  |      |      |

CIE Pub.117, 1597 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.6)  
Area: 0.00608 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2023-12-25

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity:65.0%  
Test Distance:7.450m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:220.62V I:0.0951A P:19.087W PF:0.9095 Freq:50.00Hz Lamp Flux:1596.86x1 lm |            |                  |
| NAME: DD1810M-WHTC2010C02                                                        | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 88mm | Shielding Angle: |

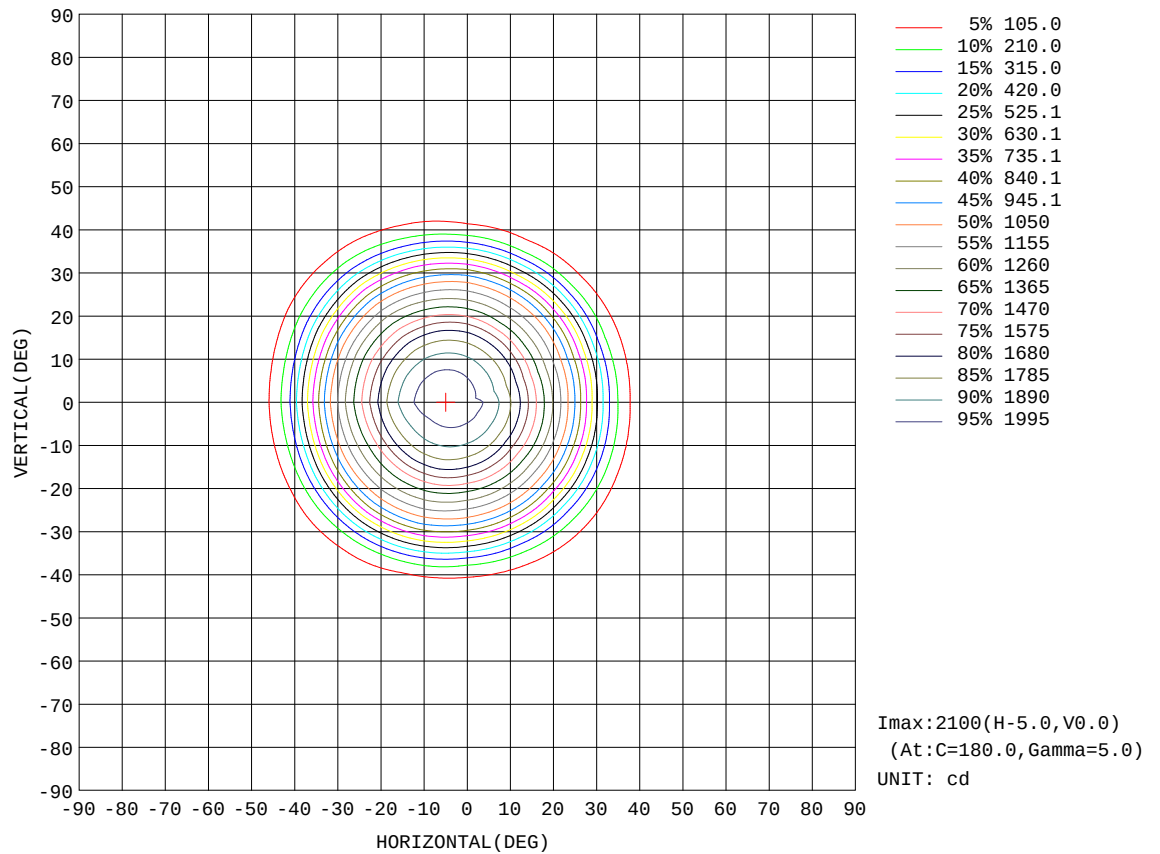
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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                             | 95                                                  | 89  | 85        | 94  | 89  | 85  | 93  | 88            | 85  | 81     |
| 1.00                             | 99                                                  | 94  | 90        | 98  | 93  | 90  | 97  | 93            | 89  | 85     |
| 1.25                             | 103                                                 | 98  | 94        | 102 | 97  | 94  | 100 | 96            | 93  | 89     |
| 1.50                             | 106                                                 | 101 | 98        | 105 | 100 | 97  | 102 | 99            | 96  | 92     |
| 2.00                             | 108                                                 | 104 | 101       | 107 | 103 | 100 | 104 | 101           | 99  | 94     |
| 2.50                             | 110                                                 | 106 | 103       | 109 | 105 | 102 | 105 | 103           | 101 | 95     |
| 3.00                             | 112                                                 | 108 | 106       | 110 | 107 | 104 | 107 | 104           | 102 | 96     |
| 4.00                             | 114                                                 | 111 | 109       | 112 | 109 | 107 | 108 | 106           | 105 | 98     |
| 5.00                             | 115                                                 | 113 | 111       | 113 | 111 | 109 | 109 | 108           | 106 | 99     |
| ROOM INDEX                       | UF(total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                     |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2023-12-25

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity:65.0%  
Test Distance:7.450m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:220.62V I:0.0951A P:19.087W PF:0.9095 Freq:50.00Hz Lamp Flux:1596.86x1 lm |            |                  |
| NAME: DD1810M-WHTC2010C02                                                        | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 88mm | Shielding Angle: |



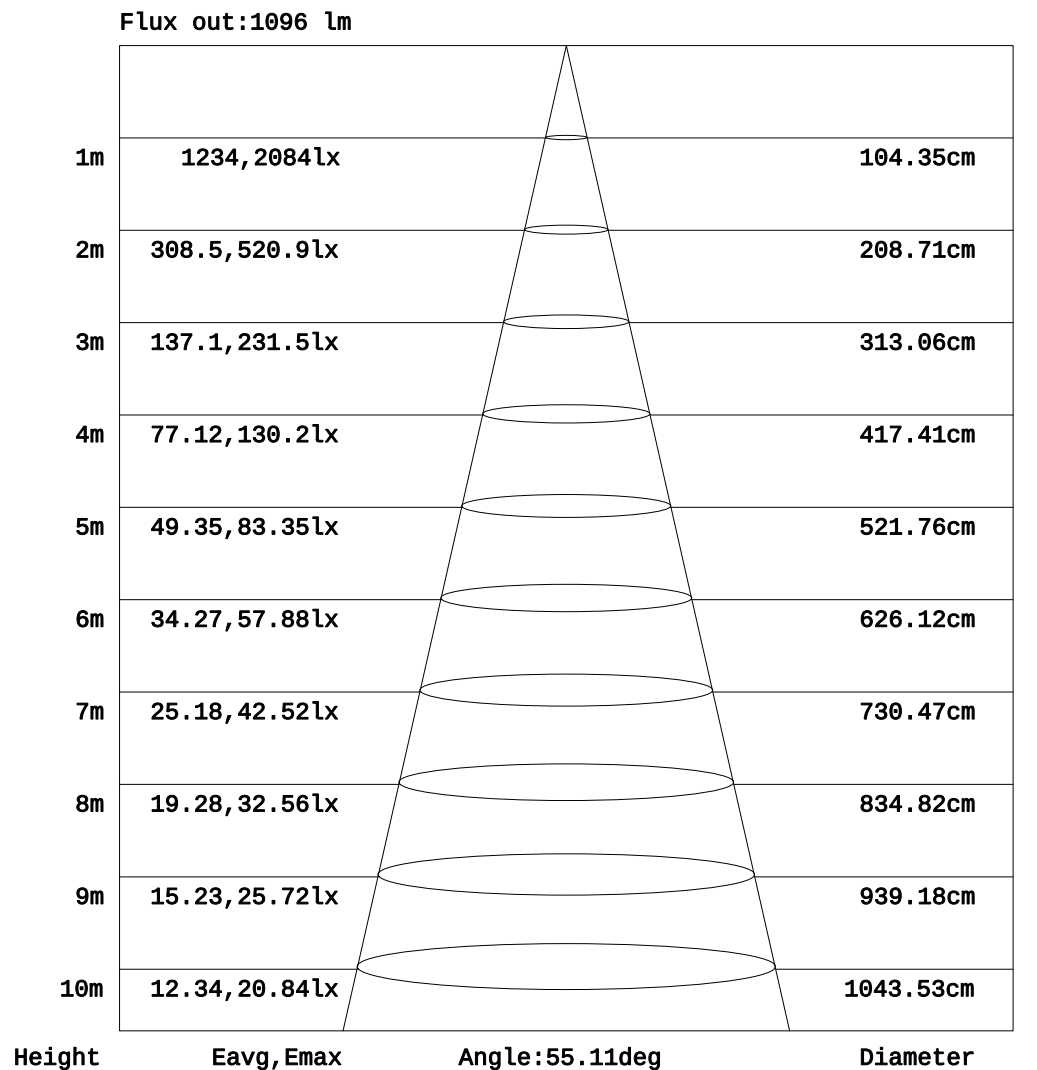
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2023-12-25

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity:65.0%  
Test Distance:7.450m [K=1.0000]  
Remarks:



### AAI Figure

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:220.62V I:0.0951A P:19.087W PF:0.9095 Freq:50.00Hz Lamp Flux:1596.86x1 lm |            |                  |
| NAME: DD1810M-WHTC2010C02                                                        | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 88mm | Shielding Angle: |



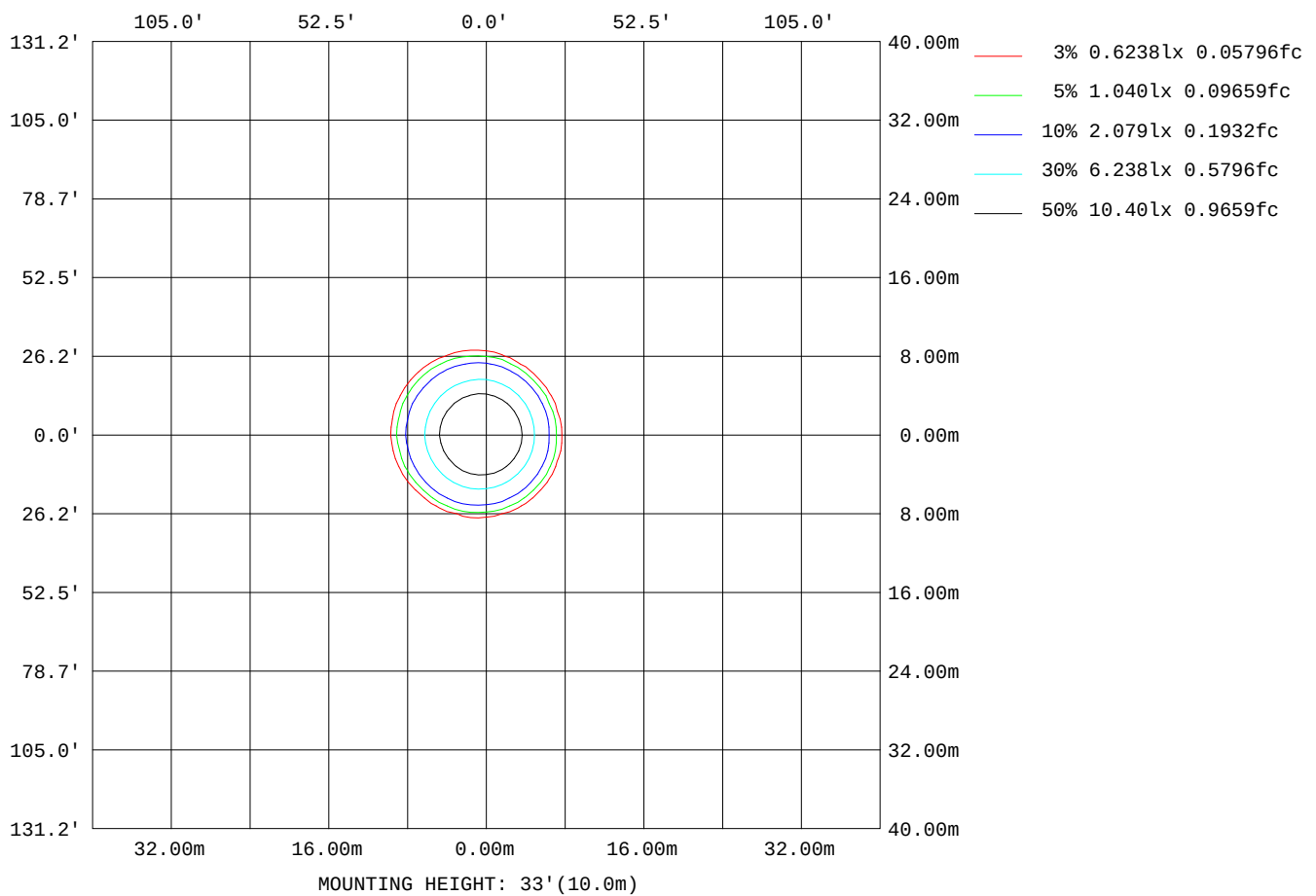
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2023-12-25

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity:65.0%  
Test Distance:7.450m [K=1.0000]  
Remarks:

# ISOLUX DIAGRAM

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:220.62V I:0.0951A P:19.087W PF:0.9095 Freq:50.00Hz Lamp Flux:1596.86x1 lm |            |                  |
| NAME: DD1810M-WHTC2010C02                                                        | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 88mm | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2023-12-25

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity:65.0%  
Test Distance:7.450m [K=1.0000]  
Remarks:

## LED Avg.L Report

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:220.62V I:0.0951A P:19.087W PF:0.9095 Freq:50.00Hz Lamp Flux:1596.86x1 lm |            |                  |
| NAME: DD1810M-WHTC2010C02                                                        | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 88mm | Shielding Angle: |

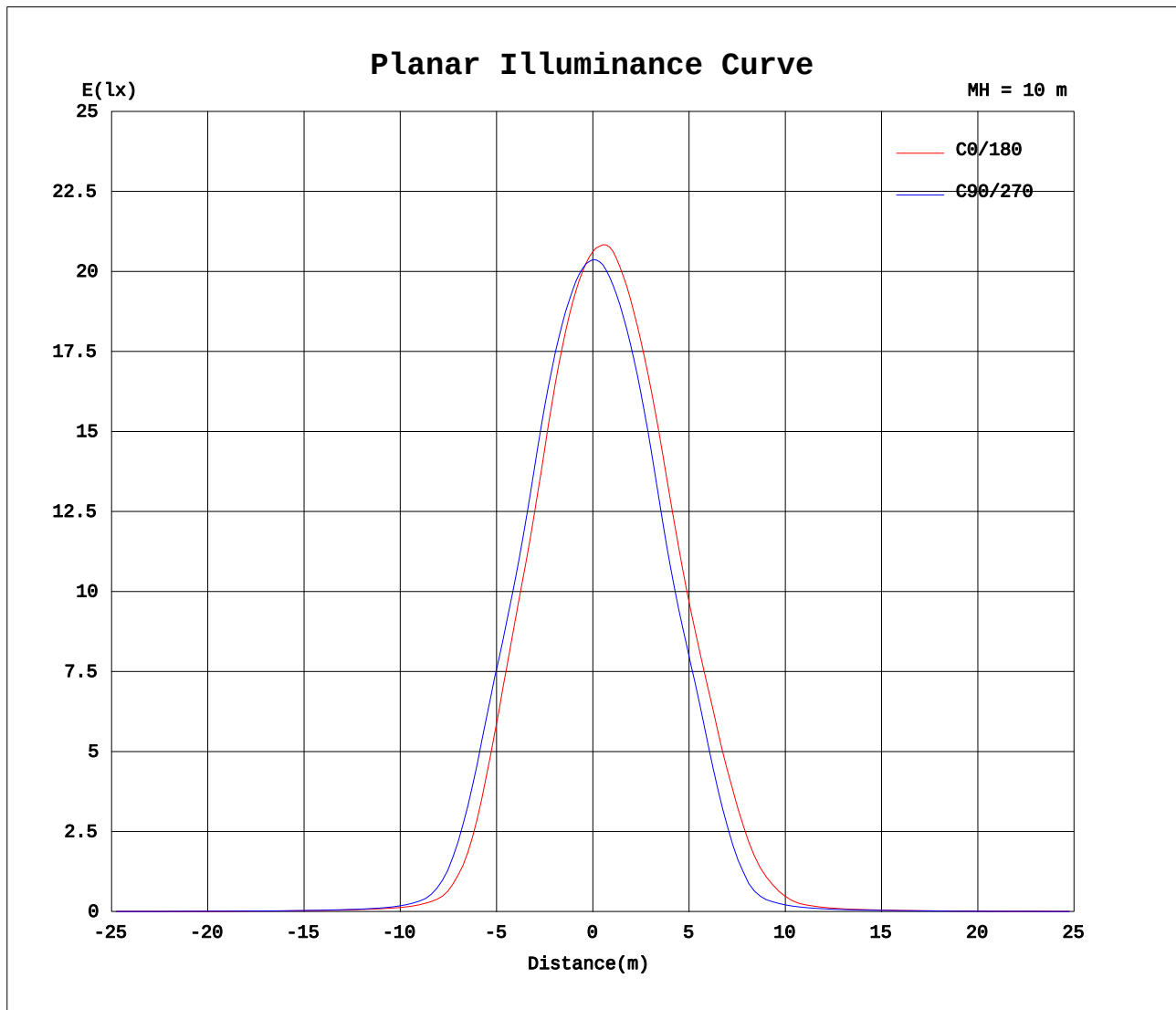
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 5669  |
| L_0~180(75)av  | 4879  |
| L_0~180(85)av  | 2841  |
| L_90~270(65)av | 5460  |
| L_90~270(75)av | 4671  |
| L_90~270(85)av | 346   |
| L_45(65)av     | 5523  |
| L_45(75)av     | 4952  |
| L_45(85)av     | 1389  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2023-12-25

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
 Humidity:65.0%  
 Test Distance:7.450m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators:  
Test Date: 2023-12-25

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity: 65.0%  
Test Distance: 7.450m [K=1.0000]  
Remarks:

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

```