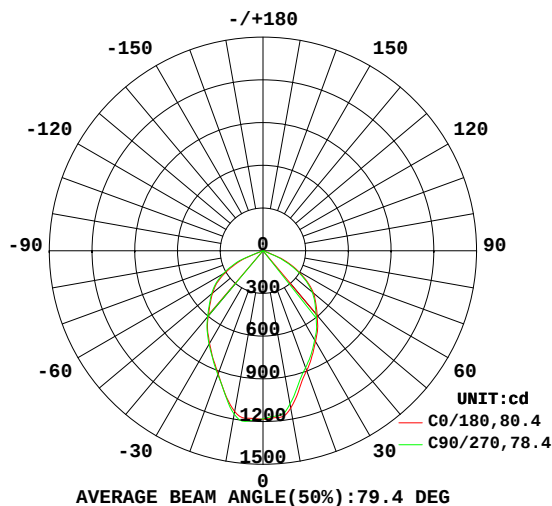


## LUMINAIRE PHOTOMETRIC TEST REPORT

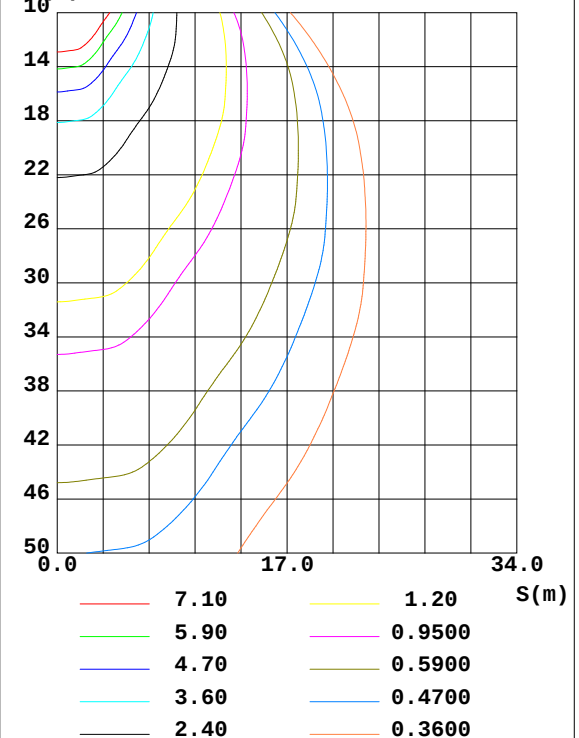
|                                                                                  |             |                  |
|----------------------------------------------------------------------------------|-------------|------------------|
| Test:U:230.19V I:0.0917A P:20.397W PF:0.9658 Freq:49.99Hz Lamp Flux:2127.74x1 lm |             |                  |
| NAME: DL2005-WHTC20C02                                                           | TYPE:       | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:       | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 150mm | Shielding Angle: |

| DATA OF LAMP     |                  | PHOTOMETRIC DATA Eff: 104.32 lm/W |        |                    |           |
|------------------|------------------|-----------------------------------|--------|--------------------|-----------|
| MODEL            | TB25141209 5700K | I <sub>max</sub> (cd)             | 1206   | S/MH(C0/180)       | 0.98      |
| NOMINAL POWER(W) | 20               | LOR(%)                            | 100.0  | S/MH(C90/270)      | 0.98      |
| RATED VOLTAGE(V) | 220-240          | TOTAL FLUX(lm)                    | 2127.7 | η UP, DN(C0-180)   | 0.0, 48.7 |
| NOMINAL FLUX(lm) | 2127.74          | CIE CLASS                         | DIRECT | η UP, DN(C180-360) | 0.0, 51.3 |
| LAMPS INSIDE     | 1                | η up(%)                           | 0.0    | CIBSE SHR NOM      | 1.00      |
| TEST VOLTAGE(V)  | 220              | η down(%)                         | 100.0  | CIBSE SHR MAX      | 1.15      |

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: 2024-05-28

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:

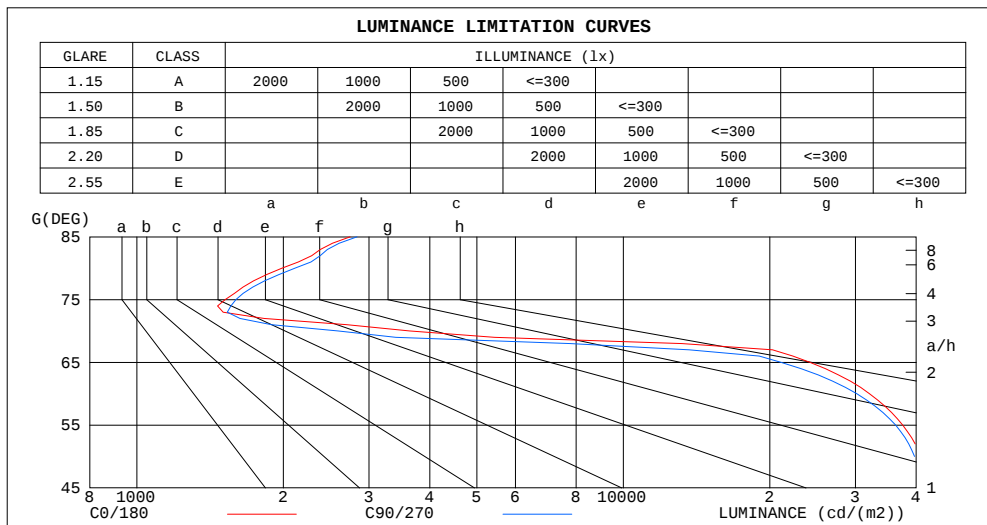
| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 1122                  | 1097   | 1093   | 1114   | 1146   | 1159   | 1166   | 1156   | 0- 10    | 111.4       | 111.4        | 5.24, 5.24 |
| 20       | 896.4                 | 880.6  | 874.6  | 891.4  | 921.0  | 923.8  | 926.8  | 921.6  | 10- 20   | 283.5       | 394.9        | 18.6, 18.6 |
| 30       | 737.5                 | 728.8  | 725.1  | 736.1  | 751.0  | 754.6  | 758.5  | 756.3  | 20- 30   | 378.2       | 773.1        | 36.3, 36.3 |
| 40       | 592.2                 | 584.5  | 579.1  | 583.8  | 597.7  | 600.9  | 604.4  | 603.1  | 30- 40   | 419.1       | 1192         | 56, 56     |
| 50       | 463.2                 | 452.7  | 450.6  | 454.6  | 461.7  | 468.7  | 471.5  | 470.6  | 40- 50   | 405.7       | 1598         | 75.1, 75.1 |
| 60       | 283.2                 | 268.5  | 266.7  | 282.6  | 301.7  | 317.2  | 323.8  | 317.6  | 50- 60   | 344.1       | 1942         | 91.3, 91.3 |
| 70       | 21.97                 | 18.72  | 15.65  | 16.07  | 21.76  | 26.23  | 26.41  | 23.37  | 60- 70   | 173.1       | 2115         | 99.4, 99.4 |
| 80       | 6.097                 | 6.595  | 6.483  | 5.896  | 4.886  | 4.454  | 4.453  | 4.971  | 70- 80   | 8.705       | 2124         | 99.8, 99.8 |
| 90       | 0.9226                | 0.9419 | 0.9497 | 0.9458 | 0.4362 | 0.4131 | 0.4208 | 0.4825 | 80- 90   | 3.863       | 2128         | 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: 2024-05-28

$\gamma$  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:230.19V I:0.0917A P:20.397W PF:0.9658 Freq:49.99Hz Lamp Flux:2127.74x1 lm |             |                  |
| NAME: DL2005-WHTC20C02                                                           | TYPE:       | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:       | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 150mm | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 2743   | 2834    |
| 80                | 1987   | 2113    |
| 75                | 1520   | 1599    |
| 70                | 3635   | 2590    |
| 65                | 24176  | 21082   |
| 60                | 32058  | 30183   |
| 55                | 37524  | 36294   |
| 50                | 40782  | 39674   |
| 45                | 42081  | 41275   |

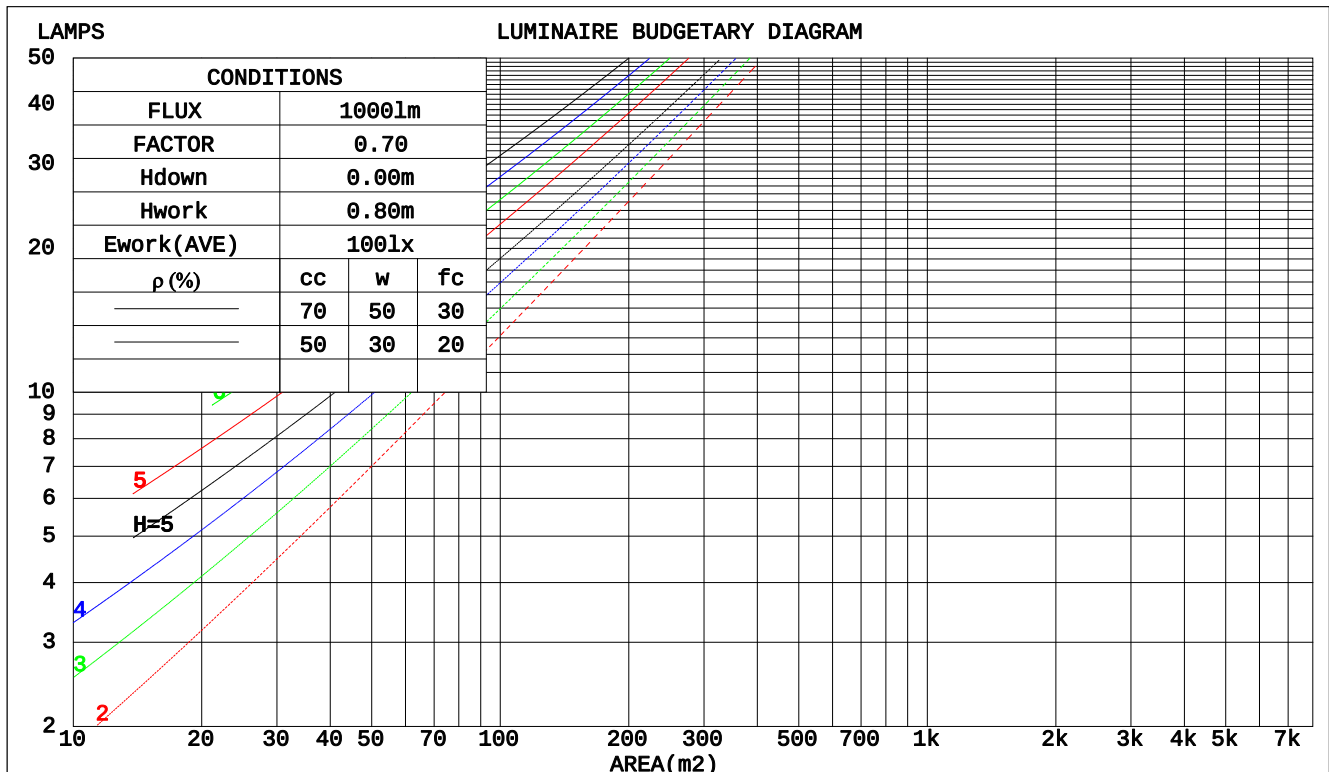
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators:  
Test Date: 2024-05-28

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:230.19V I:0.0917A P:20.397W PF:0.9658 Freq:49.99Hz Lamp Flux:2127.74x1 lm |             |                  |
| NAME: DL2005-WHTC20C02                                                           | TYPE:       | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:       | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 150mm | 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 |      |      |      |      |      | 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         | 1.07                  | 1.04 | 1.01 | 1.05 | 1.02 | .99  | 1.01                            | .98  | .96  | .97  | .95  | .93  | .94  | .92  | .91  | .89 |
| 2.0         | .96                   | .90  | .85  | .94  | .89  | .85  | .91                             | .86  | .83  | .87  | .84  | .81  | .85  | .82  | .79  | .77 |
| 3.0         | .86                   | .79  | .73  | .84  | .78  | .73  | .81                             | .76  | .71  | .79  | .74  | .70  | .76  | .72  | .69  | .67 |
| 4.0         | .77                   | .69  | .63  | .76  | .69  | .63  | .73                             | .67  | .62  | .71  | .66  | .61  | .69  | .64  | .61  | .59 |
| 5.0         | .69                   | .61  | .56  | .68  | .61  | .55  | .66                             | .60  | .55  | .65  | .59  | .54  | .63  | .58  | .54  | .52 |
| 6.0         | .63                   | .55  | .49  | .62  | .55  | .49  | .60                             | .54  | .49  | .59  | .53  | .48  | .57  | .52  | .48  | .46 |
| 7.0         | .58                   | .50  | .44  | .57  | .49  | .44  | .55                             | .49  | .44  | .54  | .48  | .43  | .53  | .47  | .43  | .41 |
| 8.0         | .53                   | .45  | .40  | .52  | .45  | .40  | .51                             | .44  | .39  | .50  | .44  | .39  | .49  | .43  | .39  | .37 |
| 9.0         | .49                   | .41  | .36  | .48  | .41  | .36  | .47                             | .40  | .36  | .46  | .40  | .36  | .45  | .40  | .35  | .34 |
| 10.0        | .45                   | .38  | .33  | .45  | .38  | .33  | .44                             | .37  | .33  | .43  | .37  | .33  | .42  | .37  | .33  | .31 |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators:  
Test Date: 2024-05-28

$\gamma$  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:230.19V I:0.0917A P:20.397W PF:0.9658 Freq:49.99Hz Lamp Flux:2127.74x1 lm |  |  |             |  |                  |
| NAME: DL2005-WHTC20C02                                                           |  |  | TYPE:       |  | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    |  |  | DIM.:       |  | SERIAL No.:      |
| MFR.:                                                                            |  |  | SUR.: 150mm |  | 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         | .243                  | .138 | .044 | .236 | .135 | .043 | .223                            | .128 | .041 | .211 | .122 | .039 | .201 | .116 | .037 |   |  |
| 2.0         | .239                  | .131 | .040 | .234 | .129 | .040 | .222                            | .124 | .038 | .212 | .119 | .037 | .202 | .114 | .036 |   |  |
| 3.0         | .229                  | .122 | .037 | .224 | .120 | .036 | .214                            | .116 | .035 | .205 | .112 | .034 | .196 | .109 | .034 |   |  |
| 4.0         | .217                  | .113 | .033 | .212 | .111 | .033 | .204                            | .108 | .032 | .195 | .105 | .032 | .188 | .102 | .031 |   |  |
| 5.0         | .204                  | .104 | .030 | .200 | .103 | .030 | .193                            | .100 | .030 | .185 | .098 | .029 | .179 | .095 | .029 |   |  |
| 6.0         | .192                  | .096 | .028 | .189 | .095 | .027 | .182                            | .093 | .027 | .175 | .091 | .027 | .169 | .089 | .026 |   |  |
| 7.0         | .181                  | .089 | .025 | .178 | .089 | .025 | .172                            | .087 | .025 | .166 | .085 | .025 | .160 | .083 | .024 |   |  |
| 8.0         | .171                  | .083 | .023 | .168 | .083 | .023 | .162                            | .081 | .023 | .157 | .080 | .023 | .152 | .078 | .023 |   |  |
| 9.0         | .161                  | .078 | .022 | .159 | .077 | .022 | .154                            | .076 | .022 | .149 | .075 | .021 | .144 | .073 | .021 |   |  |
| 10.0        | .152                  | .073 | .020 | .150 | .072 | .020 | .146                            | .071 | .020 | .141 | .070 | .020 | .137 | .069 | .020 |   |  |

| 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 |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0             | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0             | .176                  | .157 | .140 | .150 | .135 | .120 | .103                                       | .093 | .083 | .059 | .054 | .048 | .019 | .017 | .016 |   |
| 2.0             | .165                  | .132 | .104 | .142 | .114 | .090 | .097                                       | .079 | .063 | .056 | .046 | .037 | .018 | .015 | .012 |   |
| 3.0             | .157                  | .114 | .080 | .134 | .098 | .069 | .092                                       | .068 | .049 | .053 | .040 | .029 | .017 | .013 | .009 |   |
| 4.0             | .149                  | .100 | .063 | .128 | .087 | .055 | .088                                       | .060 | .039 | .051 | .035 | .023 | .016 | .012 | .008 |   |
| 5.0             | .142                  | .090 | .051 | .122 | .077 | .044 | .084                                       | .054 | .031 | .049 | .032 | .019 | .016 | .010 | .006 |   |
| 6.0             | .135                  | .081 | .042 | .116 | .070 | .037 | .080                                       | .049 | .026 | .046 | .029 | .015 | .015 | .009 | .005 |   |
| 7.0             | .129                  | .074 | .036 | .111 | .064 | .031 | .076                                       | .045 | .022 | .044 | .026 | .013 | .014 | .009 | .004 |   |
| 8.0             | .123                  | .068 | .031 | .106 | .059 | .027 | .073                                       | .041 | .019 | .043 | .024 | .011 | .014 | .008 | .004 |   |
| 9.0             | .117                  | .063 | .027 | .101 | .055 | .023 | .070                                       | .039 | .017 | .041 | .023 | .010 | .013 | .007 | .003 |   |
| 10.0            | .112                  | .059 | .024 | .096 | .051 | .021 | .067                                       | .036 | .015 | .039 | .021 | .009 | .013 | .007 | .003 |   |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2024-05-28

$\gamma$  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:230.19V I:0.0917A P:20.397W PF:0.9658 Freq:49.99Hz Lamp Flux:2127.74x1 lm |               |                  |      |      |      |               |                |      |                  |      |      |
| NAME: DL2005-WHTC20C02                                                           |               |                  |      |      |      | TYPE:         |                |      | WEIGHT:          |      |      |
| SPEC.: white RA90 3000K+5700K                                                    |               |                  |      |      |      | DIM.:         |                |      | SERIAL No.:      |      |      |
| MFR.:                                                                            |               |                  |      |      |      | SUR.: 150mm   |                |      | 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                                                                    | 2H            | 22.4             | 23.8 | 22.7 | 24.0 | 24.2          | 22.3           | 23.6 | 22.5             | 23.8 | 24.0 |
|                                                                                  | 3H            | 22.7             | 23.9 | 23.0 | 24.1 | 24.4          | 22.4           | 23.7 | 22.7             | 23.9 | 24.1 |
|                                                                                  | 4H            | 22.6             | 23.8 | 22.9 | 24.0 | 24.2          | 22.3           | 23.5 | 22.6             | 23.7 | 24.0 |
|                                                                                  | 6H            | 22.5             | 23.6 | 22.8 | 23.8 | 24.1          | 22.2           | 23.3 | 22.6             | 23.6 | 23.9 |
|                                                                                  | 8H            | 22.4             | 23.5 | 22.8 | 23.8 | 24.1          | 22.2           | 23.2 | 22.5             | 23.5 | 23.8 |
|                                                                                  | 12H           | 22.4             | 23.4 | 22.7 | 23.7 | 24.0          | 22.1           | 23.1 | 22.5             | 23.4 | 23.7 |
| 4H                                                                               | 2H            | 22.7             | 23.9 | 23.0 | 24.1 | 24.3          | 22.6           | 23.7 | 22.9             | 24.0 | 24.2 |
|                                                                                  | 3H            | 22.9             | 23.9 | 23.2 | 24.2 | 24.5          | 22.7           | 23.7 | 23.0             | 24.0 | 24.3 |
|                                                                                  | 4H            | 22.8             | 23.7 | 23.2 | 24.0 | 24.4          | 22.6           | 23.5 | 22.9             | 23.8 | 24.1 |
|                                                                                  | 6H            | 22.7             | 23.5 | 23.1 | 23.9 | 24.2          | 22.5           | 23.3 | 22.9             | 23.6 | 24.0 |
|                                                                                  | 8H            | 22.7             | 23.4 | 23.1 | 23.8 | 24.2          | 22.5           | 23.2 | 22.9             | 23.6 | 23.9 |
|                                                                                  | 12H           | 22.7             | 23.3 | 23.1 | 23.7 | 24.1          | 22.4           | 23.1 | 22.8             | 23.5 | 23.9 |
| 8H                                                                               | 4H            | 22.7             | 23.4 | 23.1 | 23.8 | 24.2          | 22.5           | 23.2 | 22.9             | 23.6 | 23.9 |
|                                                                                  | 6H            | 22.6             | 23.2 | 23.0 | 23.6 | 24.0          | 22.4           | 23.0 | 22.8             | 23.4 | 23.8 |
|                                                                                  | 8H            | 22.6             | 23.1 | 23.0 | 23.5 | 24.0          | 22.3           | 22.9 | 22.8             | 23.3 | 23.7 |
|                                                                                  | 12H           | 22.5             | 23.0 | 23.0 | 23.4 | 23.9          | 22.3           | 22.8 | 22.8             | 23.2 | 23.7 |
| 12H                                                                              | 4H            | 22.6             | 23.3 | 23.1 | 23.7 | 24.1          | 22.4           | 23.1 | 22.8             | 23.5 | 23.9 |
|                                                                                  | 6H            | 22.6             | 23.1 | 23.0 | 23.5 | 24.0          | 22.3           | 22.9 | 22.8             | 23.3 | 23.7 |
|                                                                                  | 8H            | 22.5             | 23.0 | 23.0 | 23.4 | 23.9          | 22.3           | 22.8 | 22.8             | 23.2 | 23.7 |
| Variations with the observer position at spacings(CIE Pub.117):                  |               |                  |      |      |      |               |                |      |                  |      |      |
| S = 1.0H                                                                         | + 0.7 / - 0.9 |                  |      |      |      | + 0.7 / - 0.9 |                |      |                  |      |      |
| 1.5H                                                                             | + 0.4 / - 0.6 |                  |      |      |      | + 0.6 / - 0.7 |                |      |                  |      |      |
| 2.0H                                                                             | + 1.0 / - 1.1 |                  |      |      |      | + 1.0 / - 1.2 |                |      |                  |      |      |

CIE Pub.117, 2128 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 2.6$ )  
Area: 0.01767 m<sup>2</sup>

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2024-05-28

$\gamma$  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:

### UTILIZATION FACTORS TABLE

|                                                                                  |             |                  |
|----------------------------------------------------------------------------------|-------------|------------------|
| Test:U:230.19V I:0.0917A P:20.397W PF:0.9658 Freq:49.99Hz Lamp Flux:2127.74x1 lm |             |                  |
| NAME: DL2005-WHTC20C02                                                           | TYPE:       | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:       | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 150mm | Shielding Angle: |

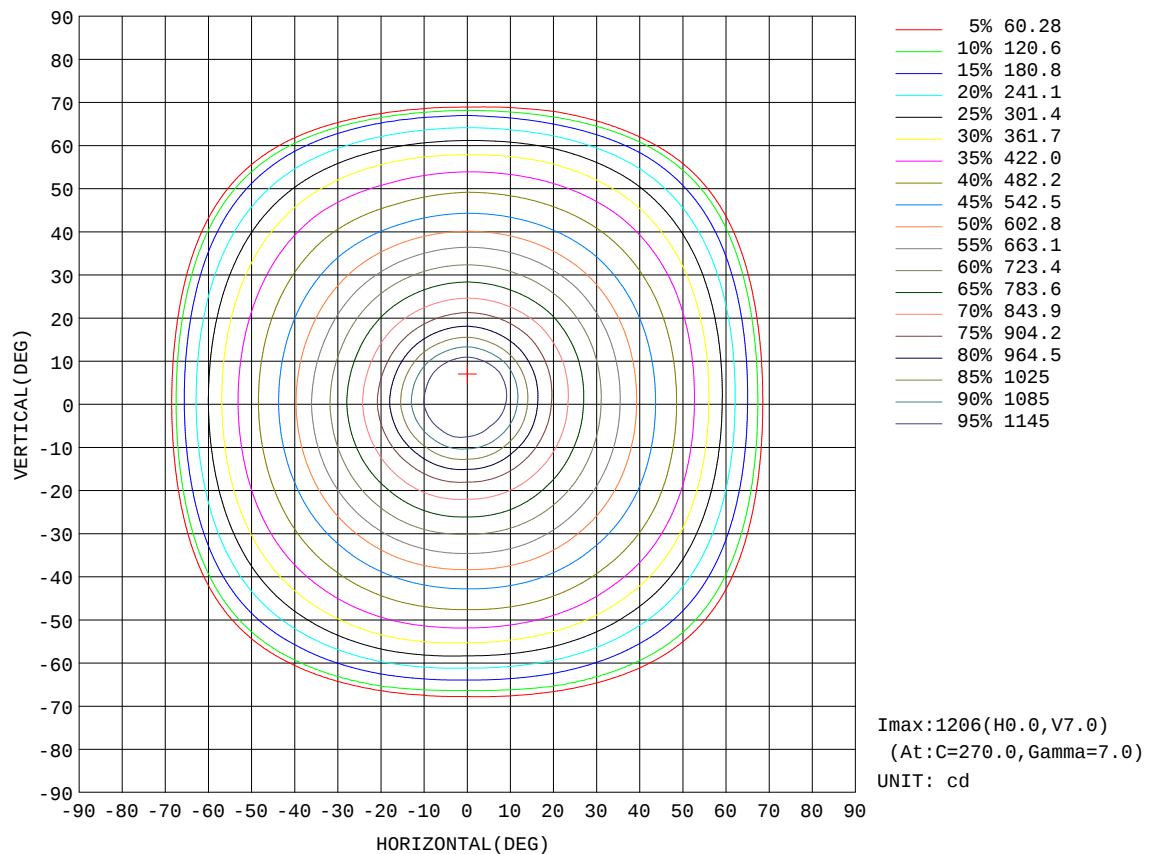
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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                         | 63                                                  | 53  | 46        | 63  | 53  | 46  | 62  | 52            | 46  | 40     |
| 0.80                             | 74                                                  | 64  | 57        | 73  | 63  | 57  | 71  | 63            | 57  | 50     |
| 1.00                             | 83                                                  | 73  | 67        | 82  | 73  | 67  | 79  | 73            | 66  | 60     |
| 1.25                             | 90                                                  | 81  | 75        | 88  | 80  | 74  | 86  | 79            | 74  | 67     |
| 1.50                             | 94                                                  | 86  | 80        | 93  | 85  | 80  | 90  | 83            | 79  | 72     |
| 2.00                             | 100                                                 | 93  | 88        | 99  | 92  | 87  | 95  | 90            | 86  | 79     |
| 2.50                             | 103                                                 | 97  | 92        | 101 | 96  | 91  | 98  | 93            | 89  | 82     |
| 3.00                             | 106                                                 | 101 | 96        | 104 | 99  | 95  | 100 | 96            | 93  | 85     |
| 4.00                             | 109                                                 | 105 | 101       | 107 | 103 | 100 | 103 | 100           | 97  | 89     |
| 5.00                             | 111                                                 | 107 | 104       | 109 | 106 | 103 | 105 | 102           | 100 | 91     |
| 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:2024-05-28

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:

## ISOCANDELA DIAGRAM

|                                                                                  |             |                  |
|----------------------------------------------------------------------------------|-------------|------------------|
| Test:U:230.19V I:0.0917A P:20.397W PF:0.9658 Freq:49.99Hz Lamp Flux:2127.74x1 lm |             |                  |
| NAME: DL2005-WHTC20C02                                                           | TYPE:       | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:       | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 150mm | Shielding Angle: |

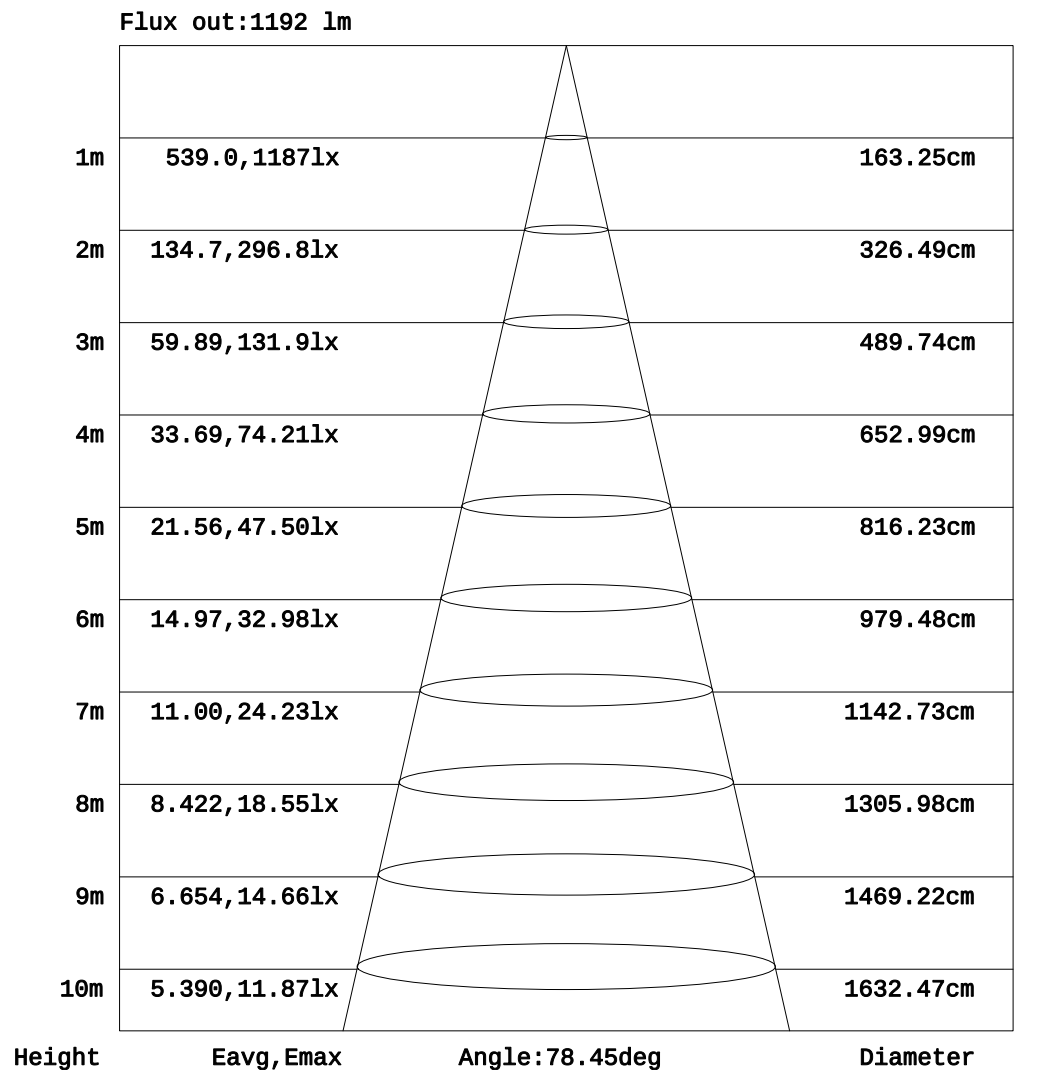


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2024-05-28

$\gamma$  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:

### AAI Figure

|                                                                                  |             |                  |
|----------------------------------------------------------------------------------|-------------|------------------|
| Test:U:230.19V I:0.0917A P:20.397W PF:0.9658 Freq:49.99Hz Lamp Flux:2127.74x1 lm |             |                  |
| NAME: DL2005-WHTC20C02                                                           | TYPE:       | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:       | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 150mm | Shielding Angle: |



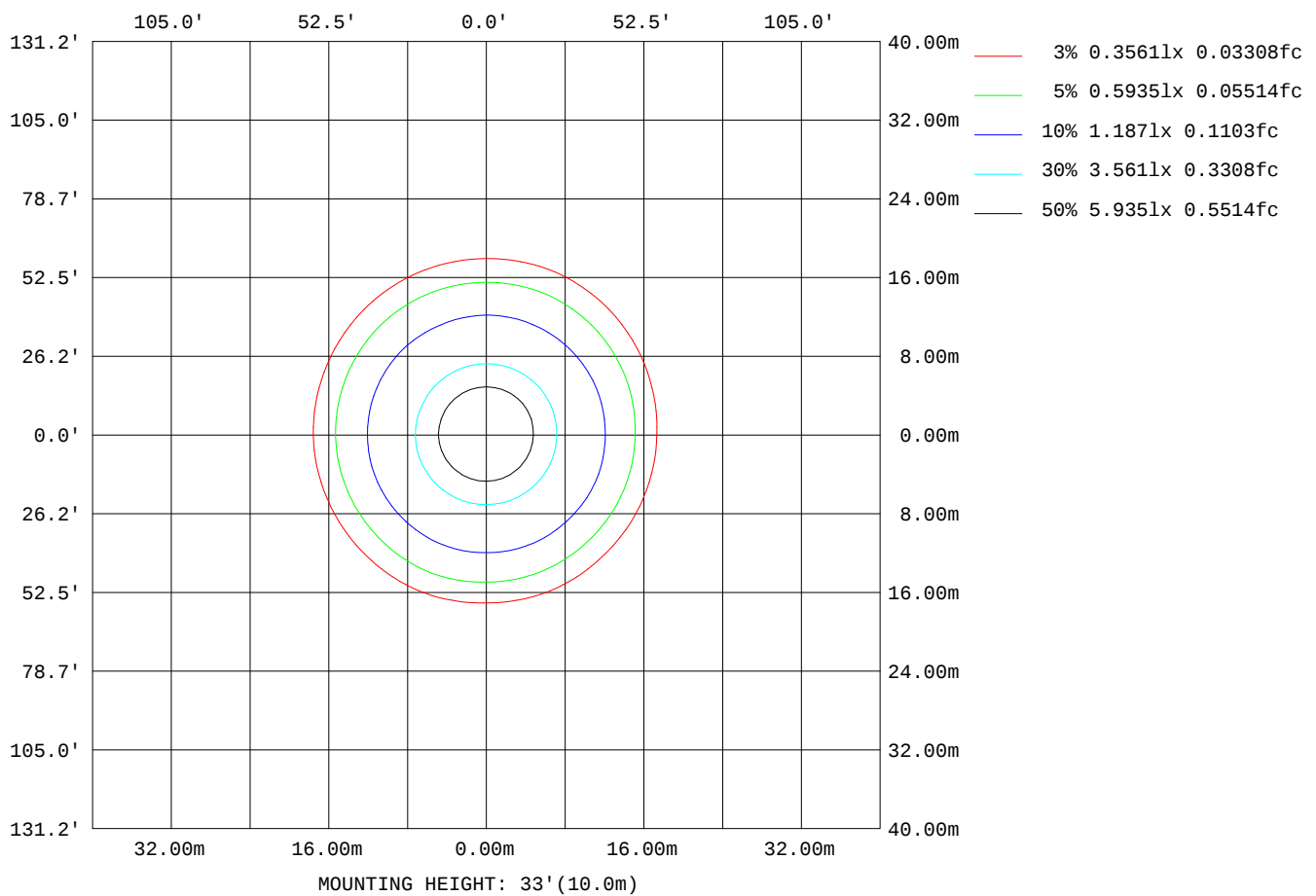
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2024-05-28

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:230.19V I:0.0917A P:20.397W PF:0.9658 Freq:49.99Hz Lamp Flux:2127.74x1 lm |             |                  |
| NAME: DL2005-WHTC20C02                                                           | TYPE:       | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:       | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 150mm | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2024-05-28

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:230.19V I:0.0917A P:20.397W PF:0.9658 Freq:49.99Hz Lamp Flux:2127.74x1 lm |             |                  |
| NAME: DL2005-WHTC20C02                                                           | TYPE:       | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:       | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 150mm | Shielding Angle: |

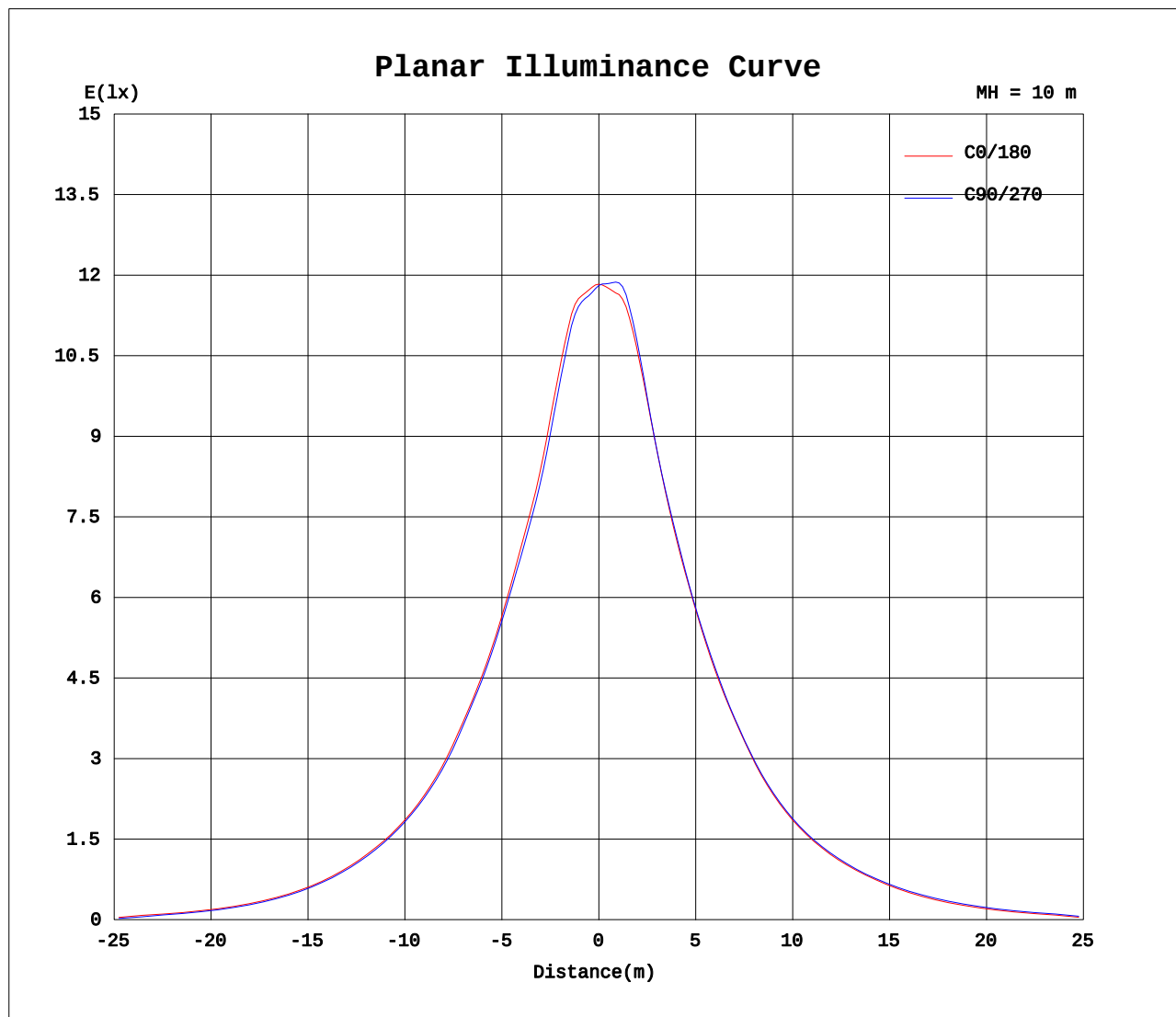
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 25075 |
| L_0~180(75)av  | 1365  |
| L_0~180(85)av  | 2424  |
| L_90~270(65)av | 25504 |
| L_90~270(75)av | 1397  |
| L_90~270(85)av | 2397  |
| L_45(65)av     | 25356 |
| L_45(75)av     | 1364  |
| L_45(85)av     | 2411  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2024-05-28

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: 2024-05-28

$\gamma$  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:

```