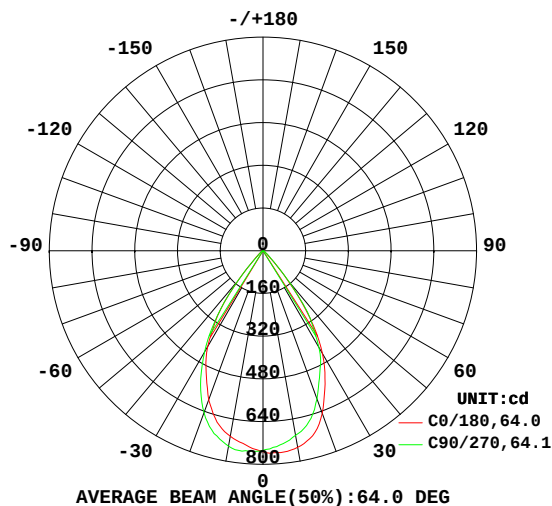


## LUMINAIRE PHOTOMETRIC TEST REPORT

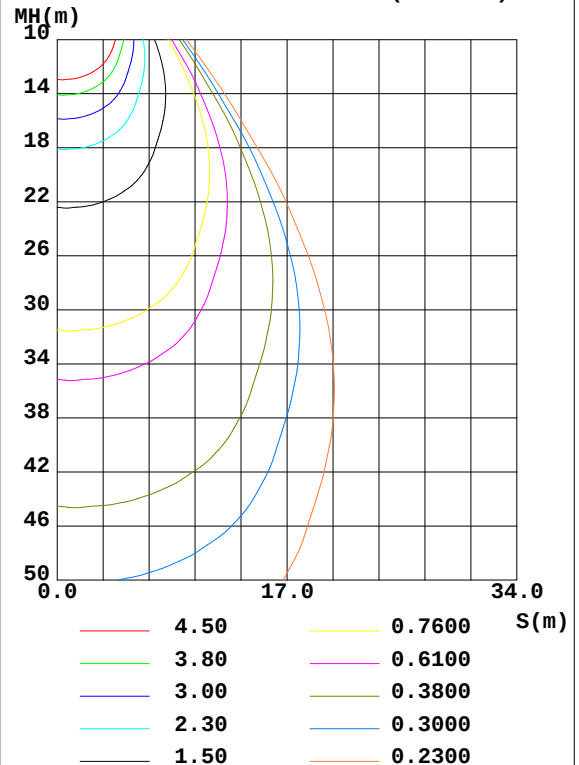
|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:230.51V I:0.0451A P:9.1782W PF:0.8838 Freq:49.99Hz Lamp Flux:753.819x1 lm |            |                  |
| NAME: DL9454-WHTC10C03                                                           | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 85mm | Shielding Angle: |

| DATA OF LAMP     |               | PHOTOMETRIC DATA Eff: 82.13 lm/W |        |                    |           |
|------------------|---------------|----------------------------------|--------|--------------------|-----------|
| MODEL            | 2835 16 5700K | I <sub>max</sub> (cd)            | 760.0  | S/MH(C0/180)       | 0.93      |
| NOMINAL POWER(W) | 9             | LOR(%)                           | 100.0  | S/MH(C90/270)      | 0.96      |
| RATED VOLTAGE(V) | 220-240       | TOTAL FLUX(lm)                   | 753.82 | η UP, DN(C0-180)   | 0.0, 50.1 |
| NOMINAL FLUX(lm) | 753.819       | CIE CLASS                        | DIRECT | η UP, DN(C180-360) | 0.0, 49.9 |
| LAMPS INSIDE     | 1             | η up(%)                          | 0.0    | CIBSE SHR NOM      | 1.00      |
| TEST VOLTAGE(V)  | 220           | η down(%)                        | 100.0  | CIBSE SHR MAX      | 1.00      |

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: 2025-04-07

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity: 65.0%  
Test Distance: 7.880m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

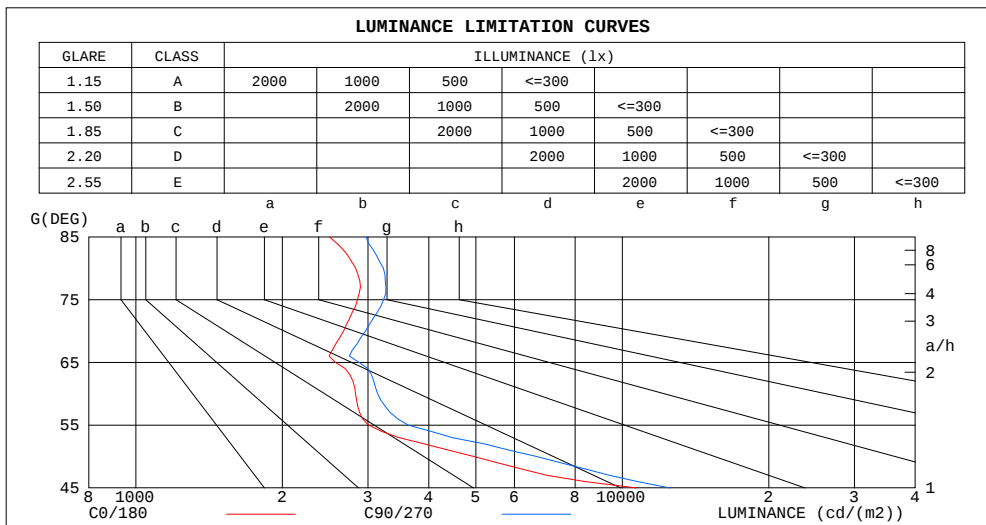
| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10       | 747.6                 | 732.6 | 701.9 | 699.6 | 705.4 | 731.2 | 743.4 | 751.3 | 0- 10    | 70.38       | 70.38        | 9.34, 9.34 |
| 20       | 648.5                 | 624.2 | 590.7 | 606.7 | 594.5 | 615.1 | 645.2 | 630.5 | 10- 20   | 191.8       | 262.2        | 34.8, 34.8 |
| 30       | 446.6                 | 435.3 | 420.5 | 421.2 | 413.6 | 424.0 | 438.3 | 431.7 | 20- 30   | 241.6       | 503.8        | 66.8, 66.8 |
| 40       | 143.3                 | 153.5 | 153.9 | 138.3 | 145.3 | 140.8 | 142.1 | 147.8 | 30- 40   | 182.4       | 686.2        | 91, 91     |
| 50       | 18.02                 | 22.30 | 24.25 | 22.17 | 21.13 | 18.76 | 17.21 | 16.85 | 40- 50   | 44.14       | 730.4        | 96.9, 96.9 |
| 60       | 8.014                 | 8.621 | 8.902 | 8.763 | 8.779 | 8.256 | 7.866 | 7.769 | 50- 60   | 10.63       | 741.0        | 98.3, 98.3 |
| 70       | 5.183                 | 5.445 | 5.753 | 5.882 | 5.855 | 5.552 | 5.235 | 5.079 | 60- 70   | 6.660       | 747.7        | 99.2, 99.2 |
| 80       | 2.787                 | 2.971 | 3.178 | 3.270 | 3.258 | 3.037 | 2.826 | 2.734 | 70- 80   | 4.648       | 752.3        | 99.8, 99.8 |
| 90       | 0                     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 80- 90   | 1.491       | 753.8        | 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: 2025-04-07

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
 Humidity: 65.0%  
 Test Distance: 7.880m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:230.51V I:0.0451A P:9.1782W PF:0.8838 Freq:49.99Hz Lamp Flux:753.819x1 lm |            |                  |
| NAME: DL9454-WHTC10C03                                                           | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 85mm | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 2499   | 2973    |
| 80                | 2831   | 3228    |
| 75                | 2854   | 3232    |
| 70                | 2673   | 2967    |
| 65                | 2570   | 2873    |
| 60                | 2827   | 3140    |
| 55                | 3008   | 3626    |
| 50                | 4945   | 6655    |
| 45                | 10691  | 12512   |

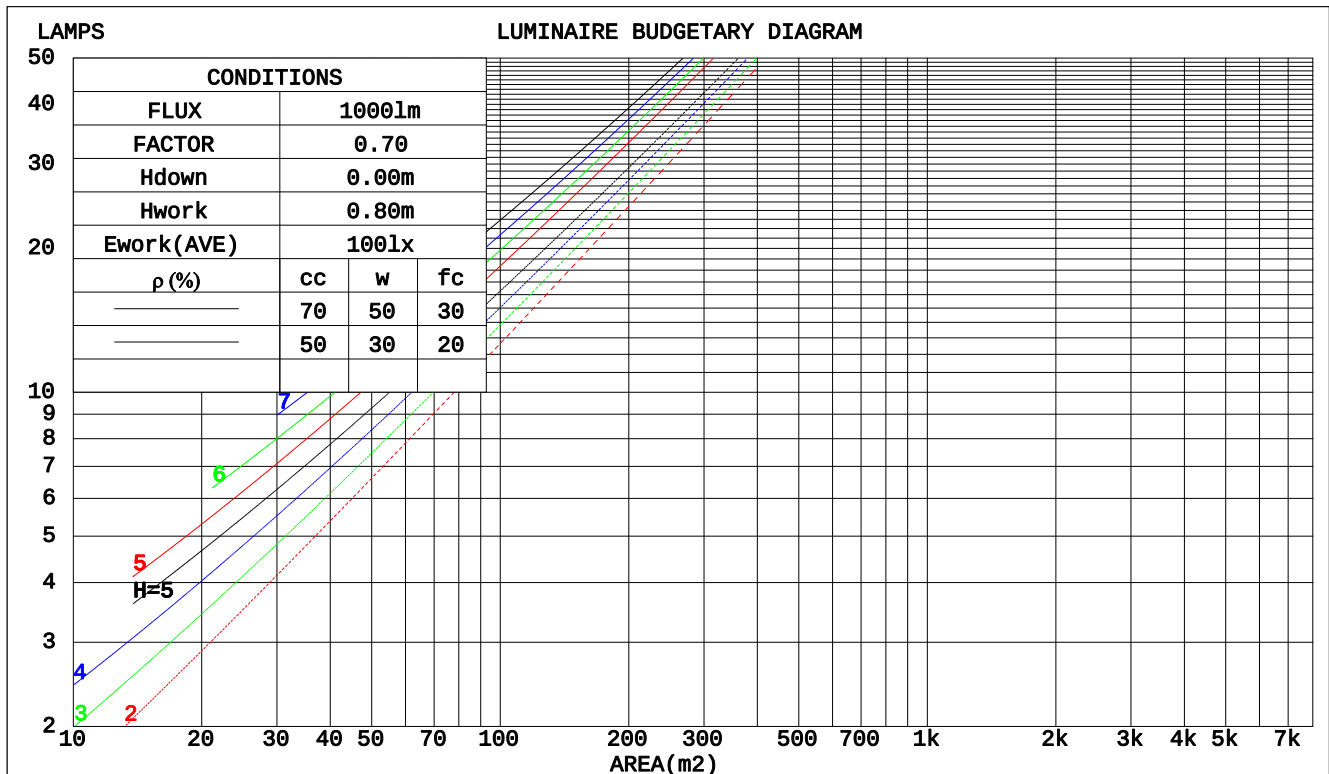
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators:  
Test Date: 2025-04-07

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity: 65.0%  
Test Distance: 7.880m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:230.51V I:0.0451A P:9.1782W PF:0.8838 Freq:49.99Hz Lamp Flux:753.819x1 lm |            |                  |
| NAME: DL9454-WHTC10C03                                                           | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 85mm | 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 | 1.00 |
| 1.0         | 1.10                  | 1.08 | 1.05 | 1.08 | 1.06 | 1.04 | 1.04                            | 1.02 | 1.00 | 1.00 | .99  | .97  | .97  | .96  | .95  | .93  |
| 2.0         | 1.02                  | .98  | .94  | 1.00 | .97  | .93  | .97                             | .94  | .91  | .94  | .92  | .89  | .91  | .89  | .87  | .86  |
| 3.0         | .95                   | .90  | .86  | .94  | .89  | .85  | .91                             | .87  | .84  | .88  | .85  | .82  | .86  | .83  | .81  | .79  |
| 4.0         | .88                   | .83  | .78  | .87  | .82  | .78  | .85                             | .80  | .77  | .83  | .79  | .76  | .81  | .78  | .75  | .73  |
| 5.0         | .82                   | .76  | .72  | .82  | .76  | .72  | .80                             | .75  | .71  | .78  | .74  | .70  | .76  | .73  | .70  | .68  |
| 6.0         | .77                   | .71  | .67  | .76  | .71  | .66  | .75                             | .70  | .66  | .73  | .69  | .65  | .72  | .68  | .65  | .63  |
| 7.0         | .72                   | .66  | .62  | .72  | .66  | .62  | .70                             | .65  | .61  | .69  | .64  | .61  | .68  | .64  | .61  | .59  |
| 8.0         | .68                   | .62  | .57  | .67  | .61  | .57  | .66                             | .61  | .57  | .65  | .60  | .57  | .64  | .60  | .57  | .55  |
| 9.0         | .64                   | .58  | .54  | .63  | .58  | .54  | .62                             | .57  | .53  | .62  | .57  | .53  | .61  | .56  | .53  | .52  |
| 10.0        | .60                   | .54  | .50  | .60  | .54  | .50  | .59                             | .54  | .50  | .58  | .53  | .50  | .57  | .53  | .50  | .48  |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators:  
Test Date: 2025-04-07

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity: 65.0%  
Test Distance: 7.880m [K=1.0000]  
Remarks:

### WEC AND CCEC

|                                                                                  |  |  |            |  |                  |
|----------------------------------------------------------------------------------|--|--|------------|--|------------------|
| Test:U:230.51V I:0.0451A P:9.1782W PF:0.8838 Freq:49.99Hz Lamp Flux:753.819x1 lm |  |  |            |  |                  |
| NAME: DL9454-WHTC10C03                                                           |  |  | TYPE:      |  | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    |  |  | DIM.:      |  | SERIAL No.:      |
| MFR.:                                                                            |  |  | SUR.: 85mm |  | 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         | .187                  | .107 | .034 | .181 | .103 | .033 | .168                            | .096 | .031 | .156 | .090 | .029 | .146 | .084 | .027 |   |
| 2.0         | .179                  | .098 | .030 | .173 | .095 | .029 | .163                            | .090 | .028 | .153 | .086 | .027 | .144 | .081 | .026 |   |
| 3.0         | .170                  | .091 | .027 | .165 | .089 | .027 | .156                            | .085 | .026 | .148 | .081 | .025 | .140 | .078 | .024 |   |
| 4.0         | .162                  | .084 | .025 | .158 | .083 | .024 | .150                            | .079 | .024 | .143 | .077 | .023 | .136 | .074 | .022 |   |
| 5.0         | .154                  | .079 | .023 | .151 | .077 | .023 | .144                            | .075 | .022 | .137 | .072 | .022 | .131 | .070 | .021 |   |
| 6.0         | .147                  | .074 | .021 | .144 | .073 | .021 | .138                            | .071 | .021 | .132 | .069 | .020 | .127 | .067 | .020 |   |
| 7.0         | .140                  | .069 | .020 | .138 | .069 | .020 | .132                            | .067 | .019 | .127 | .065 | .019 | .122 | .064 | .019 |   |
| 8.0         | .134                  | .066 | .018 | .132 | .065 | .018 | .127                            | .063 | .018 | .122 | .062 | .018 | .118 | .061 | .018 |   |
| 9.0         | .129                  | .062 | .017 | .126 | .062 | .017 | .122                            | .060 | .017 | .118 | .059 | .017 | .114 | .058 | .017 |   |
| 10.0        | .123                  | .059 | .016 | .121 | .059 | .016 | .117                            | .057 | .016 | .114 | .056 | .016 | .110 | .055 | .016 |   |

| 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  | .172                  | .157 | .144 | .147 | .135 | .124 | .101                                       | .093 | .086 | .058 | .054 | .050 | .019 | .017 | .016 |   |
| 2.0  | .157                  | .132 | .112 | .135 | .114 | .097 | .092                                       | .079 | .067 | .053 | .046 | .039 | .017 | .015 | .013 |   |
| 3.0  | .145                  | .114 | .088 | .125 | .098 | .077 | .086                                       | .068 | .054 | .049 | .040 | .032 | .016 | .013 | .010 |   |
| 4.0  | .135                  | .099 | .071 | .116 | .086 | .062 | .080                                       | .060 | .044 | .046 | .035 | .026 | .015 | .011 | .008 |   |
| 5.0  | .127                  | .088 | .058 | .109 | .076 | .051 | .075                                       | .053 | .036 | .044 | .031 | .021 | .014 | .010 | .007 |   |
| 6.0  | .120                  | .078 | .049 | .103 | .068 | .042 | .071                                       | .048 | .030 | .041 | .028 | .018 | .013 | .009 | .006 |   |
| 7.0  | .113                  | .071 | .041 | .098 | .061 | .036 | .067                                       | .043 | .025 | .039 | .025 | .015 | .013 | .008 | .005 |   |
| 8.0  | .108                  | .065 | .035 | .093 | .056 | .031 | .064                                       | .039 | .022 | .037 | .023 | .013 | .012 | .008 | .004 |   |
| 9.0  | .103                  | .060 | .031 | .088 | .052 | .027 | .061                                       | .036 | .019 | .036 | .021 | .011 | .012 | .007 | .004 |   |
| 10.0 | .098                  | .055 | .027 | .085 | .048 | .023 | .059                                       | .034 | .017 | .034 | .020 | .010 | .011 | .007 | .003 |   |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2025-04-07

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

|                                                                                  |                  |      |      |      |            |                |      |                  |      |      |
|----------------------------------------------------------------------------------|------------------|------|------|------|------------|----------------|------|------------------|------|------|
| Test:U:230.51V I:0.0451A P:9.1782W PF:0.8838 Freq:49.99Hz Lamp Flux:753.819x1 lm |                  |      |      |      |            |                |      |                  |      |      |
| NAME: DL9454-WHTC10C03                                                           |                  |      |      |      | TYPE:      |                |      | WEIGHT:          |      |      |
| SPEC.: white RA90 3000K+5700K                                                    |                  |      |      |      | DIM.:      |                |      | SERIAL No.:      |      |      |
| MFR.:                                                                            |                  |      |      |      | SUR.: 85mm |                |      | 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                                                                    | 19.7             | 20.7 | 19.9 | 20.9 | 21.0       | 19.6           | 20.6 | 19.8             | 20.8 | 20.9 |
| 3H                                                                               | 19.6             | 20.5 | 19.9 | 20.7 | 20.9       | 19.5           | 20.4 | 19.8             | 20.6 | 20.9 |
| 4H                                                                               | 19.6             | 20.4 | 19.9 | 20.7 | 20.9       | 19.5           | 20.4 | 19.8             | 20.6 | 20.8 |
| 6H                                                                               | 19.6             | 20.4 | 19.9 | 20.6 | 20.9       | 19.5           | 20.3 | 19.8             | 20.6 | 20.8 |
| 8H                                                                               | 19.5             | 20.3 | 19.9 | 20.6 | 20.8       | 19.5           | 20.3 | 19.8             | 20.6 | 20.8 |
| 12H                                                                              | 19.5             | 20.3 | 19.8 | 20.5 | 20.8       | 19.5           | 20.2 | 19.8             | 20.5 | 20.8 |
| 4H 2H                                                                            | 19.5             | 20.3 | 19.8 | 20.6 | 20.8       | 19.4           | 20.2 | 19.7             | 20.5 | 20.7 |
| 3H                                                                               | 19.4             | 20.2 | 19.8 | 20.4 | 20.7       | 19.4           | 20.1 | 19.7             | 20.4 | 20.6 |
| 4H                                                                               | 19.4             | 20.1 | 19.8 | 20.4 | 20.7       | 19.4           | 20.1 | 19.7             | 20.4 | 20.7 |
| 6H                                                                               | 19.5             | 20.1 | 19.9 | 20.4 | 20.7       | 19.5           | 20.0 | 19.8             | 20.4 | 20.7 |
| 8H                                                                               | 19.5             | 20.0 | 19.9 | 20.4 | 20.7       | 19.5           | 20.0 | 19.9             | 20.4 | 20.7 |
| 12H                                                                              | 19.5             | 20.0 | 19.9 | 20.3 | 20.7       | 19.5           | 20.0 | 19.9             | 20.4 | 20.7 |
| 8H 4H                                                                            | 19.4             | 19.9 | 19.8 | 20.3 | 20.6       | 19.3           | 19.9 | 19.7             | 20.2 | 20.6 |
| 6H                                                                               | 19.4             | 19.9 | 19.9 | 20.3 | 20.7       | 19.4           | 19.9 | 19.9             | 20.3 | 20.7 |
| 8H                                                                               | 19.5             | 19.9 | 19.9 | 20.3 | 20.7       | 19.5           | 19.9 | 19.9             | 20.3 | 20.7 |
| 12H                                                                              | 19.5             | 19.8 | 20.0 | 20.3 | 20.7       | 19.5           | 19.9 | 20.0             | 20.3 | 20.8 |
| 12H 4H                                                                           | 19.3             | 19.8 | 19.7 | 20.2 | 20.6       | 19.3           | 19.8 | 19.7             | 20.2 | 20.5 |
| 6H                                                                               | 19.4             | 19.8 | 19.9 | 20.2 | 20.7       | 19.4           | 19.8 | 19.9             | 20.2 | 20.7 |
| 8H                                                                               | 19.5             | 19.8 | 19.9 | 20.2 | 20.7       | 19.5           | 19.8 | 19.9             | 20.2 | 20.7 |
| Variations with the observer position at spacings(CIE Pub.117):                  |                  |      |      |      |            |                |      |                  |      |      |
| S = 1.0H                                                                         | + 3.0 / - 5.5    |      |      |      |            | + 3.0 / - 5.3  |      |                  |      |      |
| 1.5H                                                                             | + 5.3 / - 5.2    |      |      |      |            | + 5.3 / - 5.1  |      |                  |      |      |
| 2.0H                                                                             | + 3.0 / - 1.1    |      |      |      |            | + 3.3 / - 1.2  |      |                  |      |      |

CIE Pub.117, 753.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.0)  
Area: 0.00567 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2025-04-07

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:230.51V I:0.0451A P:9.1782W PF:0.8838 Freq:49.99Hz Lamp Flux:753.819x1 lm |            |                  |
| NAME: DL9454-WHTC10C03                                                           | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 85mm | Shielding Angle: |

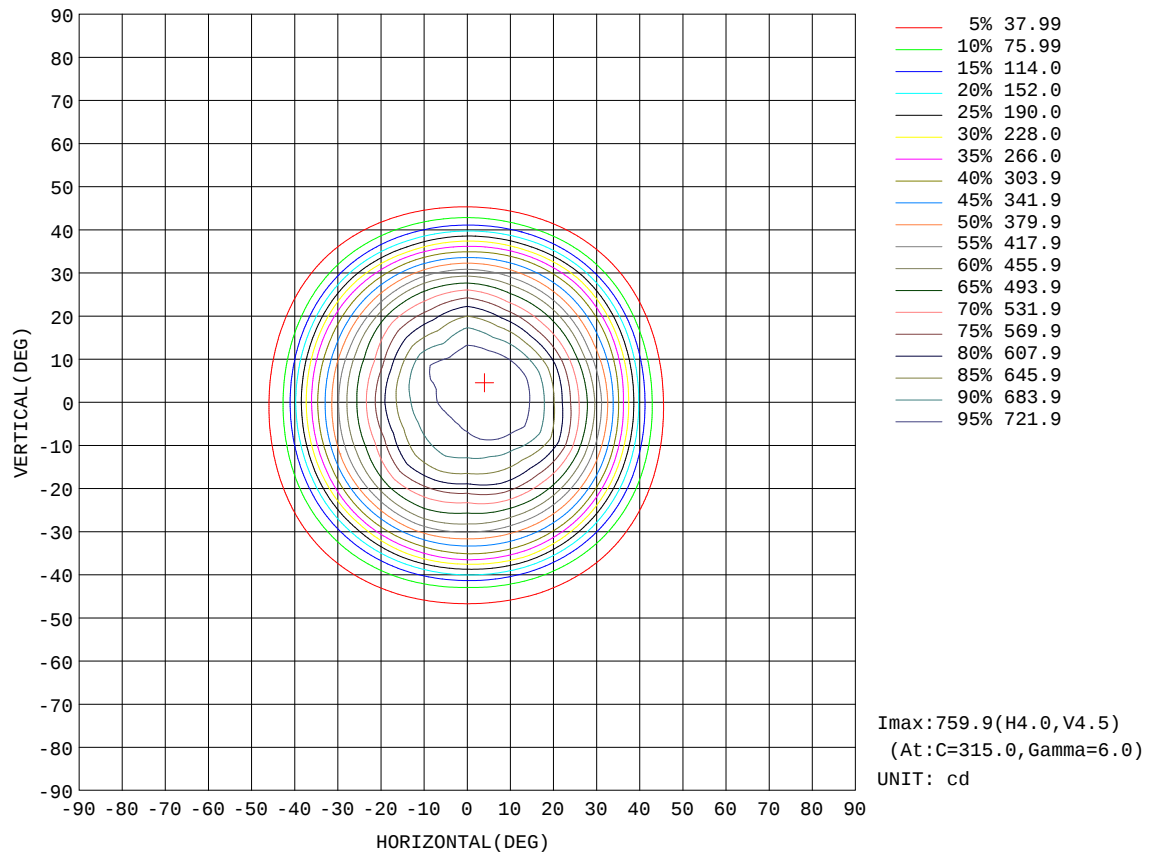
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 86                                                  | 79  | 75        | 85  | 79  | 75  | 85  | 79            | 75  | 72     |
| 0.80                             | 94                                                  | 87  | 84        | 93  | 87  | 83  | 92  | 87            | 83  | 79     |
| 1.00                             | 98                                                  | 92  | 89        | 97  | 92  | 88  | 96  | 92            | 88  | 84     |
| 1.25                             | 102                                                 | 97  | 93        | 101 | 96  | 93  | 99  | 95            | 92  | 88     |
| 1.50                             | 105                                                 | 100 | 97        | 104 | 99  | 96  | 102 | 98            | 95  | 91     |
| 2.00                             | 108                                                 | 104 | 100       | 107 | 103 | 100 | 104 | 101           | 98  | 93     |
| 2.50                             | 110                                                 | 106 | 103       | 108 | 105 | 102 | 105 | 102           | 100 | 94     |
| 3.00                             | 111                                                 | 108 | 105       | 110 | 106 | 104 | 106 | 104           | 102 | 95     |
| 4.00                             | 113                                                 | 111 | 108       | 111 | 109 | 107 | 108 | 106           | 104 | 97     |
| 5.00                             | 115                                                 | 112 | 110       | 113 | 111 | 109 | 109 | 107           | 106 | 98     |
| 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:2025-04-07

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:230.51V I:0.0451A P:9.1782W PF:0.8838 Freq:49.99Hz Lamp Flux:753.819x1 lm |            |                  |
| NAME: DL9454-WHTC10C03                                                           | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 85mm | Shielding Angle: |

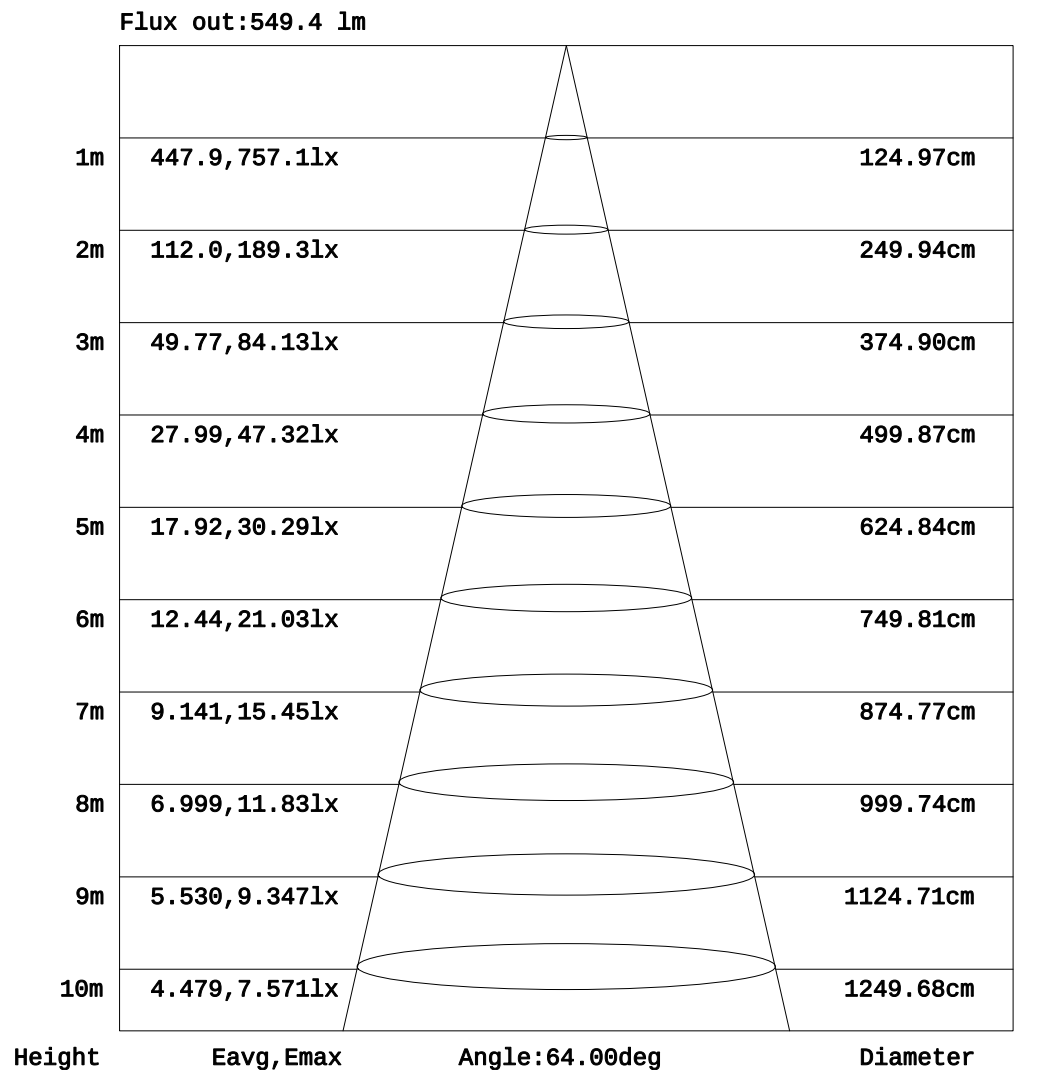


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators:  
Test Date: 2025-04-07

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity: 65.0%  
Test Distance: 7.880m [K=1.0000]  
Remarks:

### AAI Figure

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:230.51V I:0.0451A P:9.1782W PF:0.8838 Freq:49.99Hz Lamp Flux:753.819x1 lm |            |                  |
| NAME: DL9454-WHTC10C03                                                           | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 85mm | Shielding Angle: |



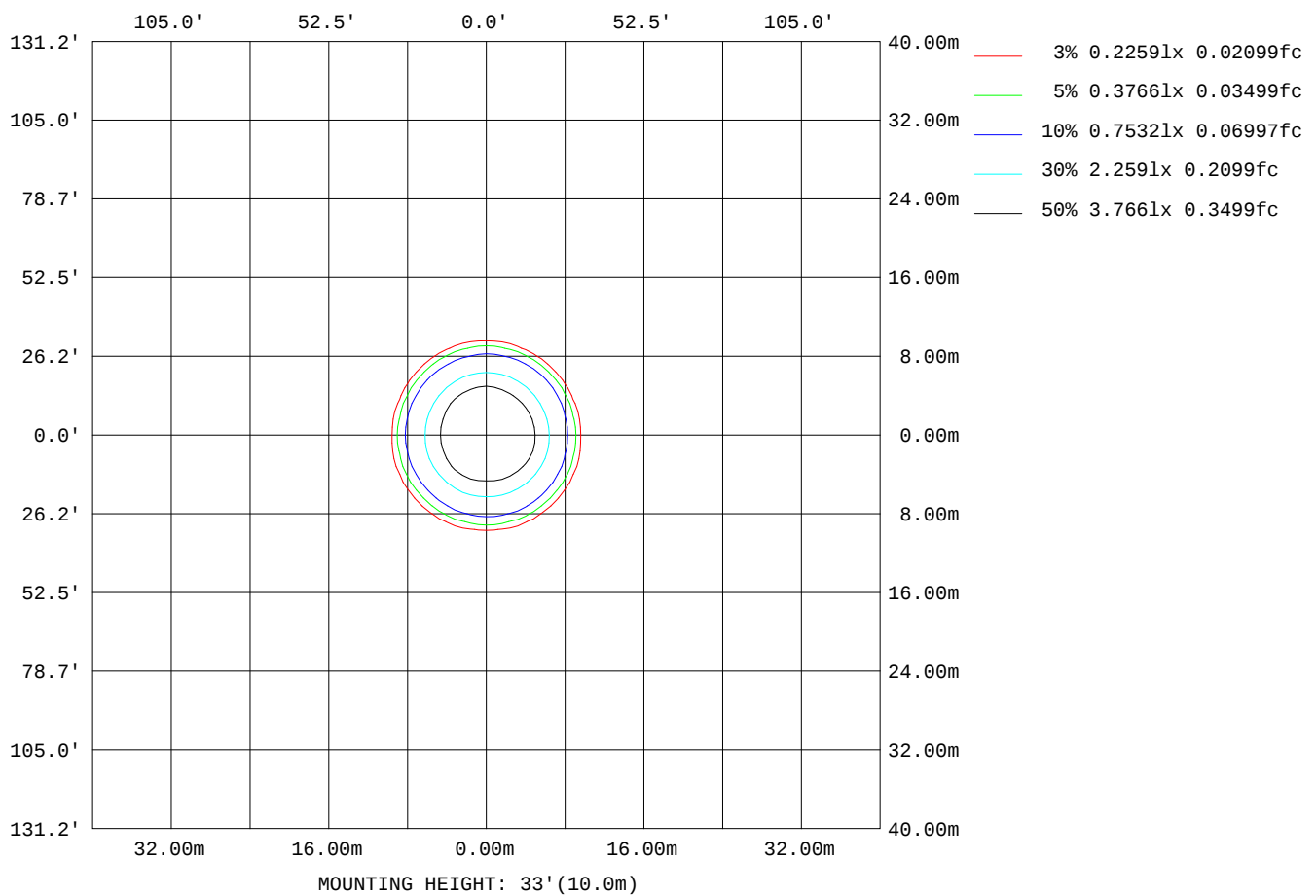
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2025-04-07

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

### ISOLUX DIAGRAM

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:230.51V I:0.0451A P:9.1782W PF:0.8838 Freq:49.99Hz Lamp Flux:753.819x1 lm |            |                  |
| NAME: DL9454-WHTC10C03                                                           | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 85mm | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2025-04-07

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

### LED Avg.L Report

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:230.51V I:0.0451A P:9.1782W PF:0.8838 Freq:49.99Hz Lamp Flux:753.819x1 lm |            |                  |
| NAME: DL9454-WHTC10C03                                                           | TYPE:      | WEIGHT:          |
| SPEC.: white RA90 3000K+5700K                                                    | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 85mm | Shielding Angle: |

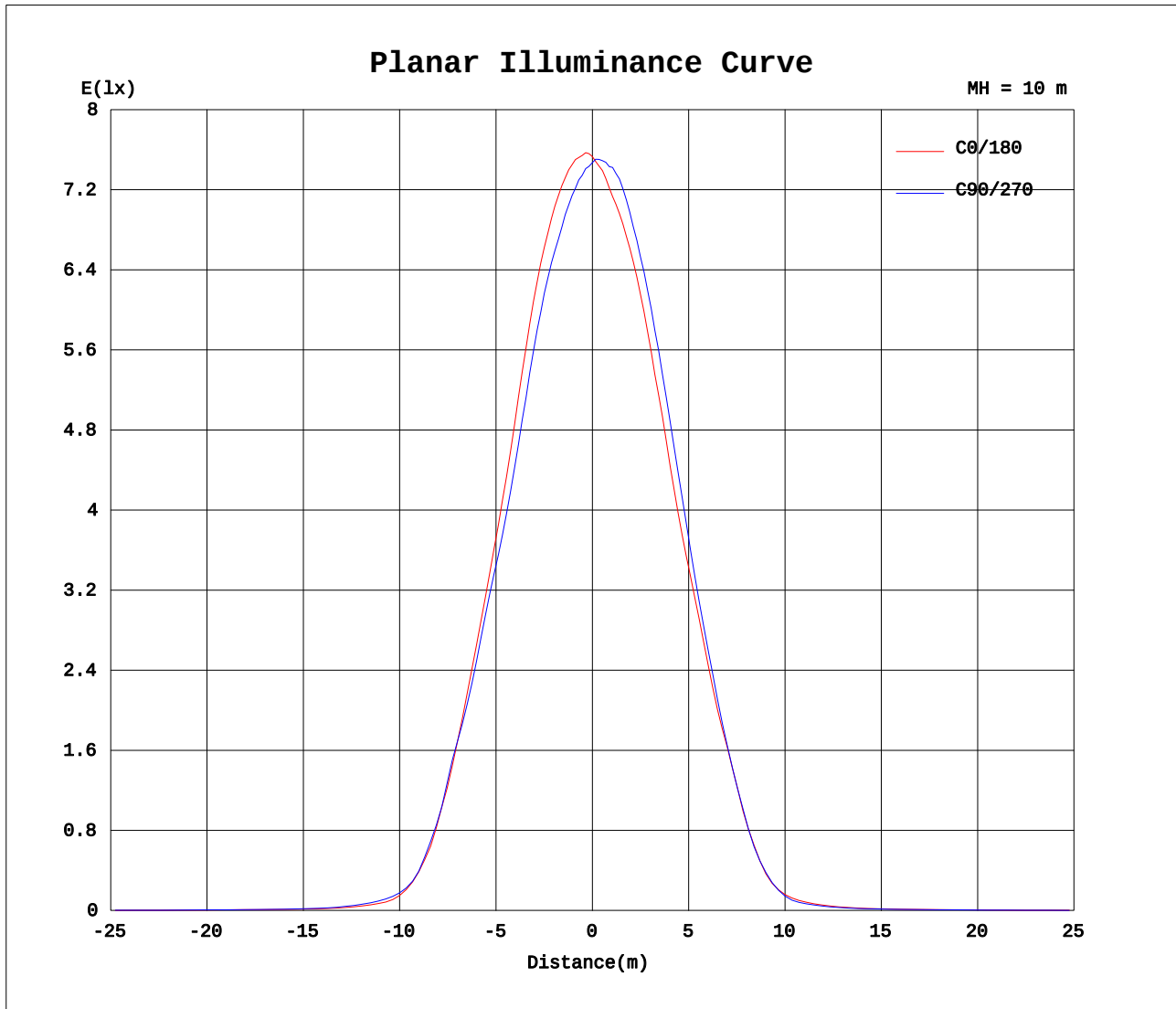
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 2747  |
| L_0~180(75)av  | 3074  |
| L_0~180(85)av  | 2728  |
| L_90~270(65)av | 2722  |
| L_90~270(75)av | 3062  |
| L_90~270(85)av | 2714  |
| L_45(65)av     | 2733  |
| L_45(75)av     | 3059  |
| L_45(85)av     | 2707  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2025-04-07

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators:  
Test Date: 2025-04-07

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.00.428  
Humidity: 65.0%  
Test Distance: 7.880m [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:7.880m [K=1.0000]
Remarks:

```