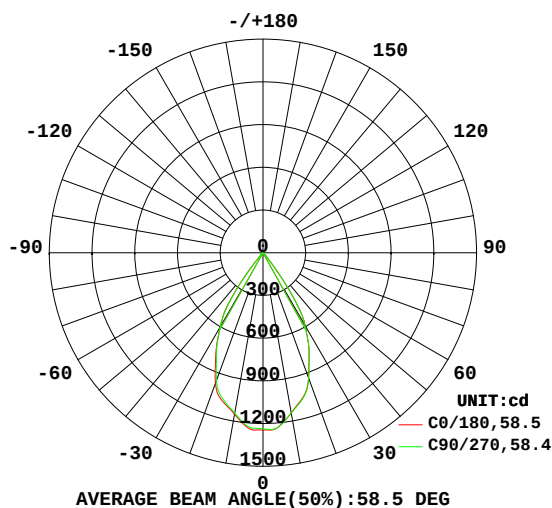


## LUMINAIRE PHOTOMETRIC TEST REPORT

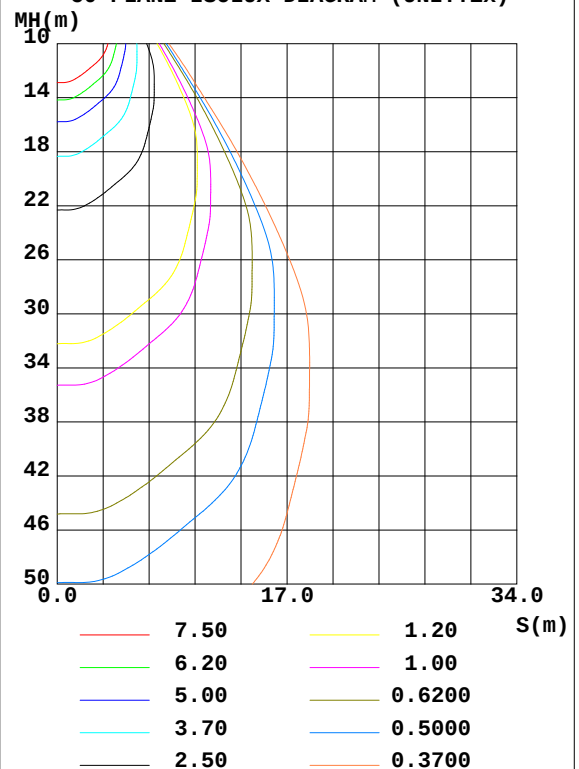
|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:220.56V I:0.0605A P:13.034W PF:0.9774 Freq:50.01Hz Lamp Flux:1030.02x1 lm |            |                  |
| NAME: DL2082-WHTC15C01P                                                          | TYPE:      | WEIGHT:          |
| SPEC.: white R80 3000K+5700K                                                     | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 60mm | Shielding Angle: |

| DATA OF LAMP     |                  | PHOTOMETRIC DATA Eff: 79.03 lm/W |        |                    |           |
|------------------|------------------|----------------------------------|--------|--------------------|-----------|
| MODEL            | TB15111204 3000K | I <sub>max</sub> (cd)            | 1247   | S/MH(C0/180)       | 0.89      |
| NOMINAL POWER(W) | 12               | LOR(%)                           | 100.0  | S/MH(C90/270)      | 0.89      |
| RATED VOLTAGE(V) | 220-240          | TOTAL FLUX(lm)                   | 1030.0 | η UP, DN(C0-180)   | 0.0, 49.4 |
| NOMINAL FLUX(lm) | 1030.02          | CIE CLASS                        | DIRECT | η UP, DN(C180-360) | 0.0, 50.6 |
| LAMPS INSIDE     | 1                | η up(%)                          | 0.0    | CIBSE SHR NOM      | 0.75      |
| TEST VOLTAGE(V)  | 220              | η down(%)                        | 100.0  | CIBSE SHR MAX      | 0.95      |

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: 2023-10-19

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:

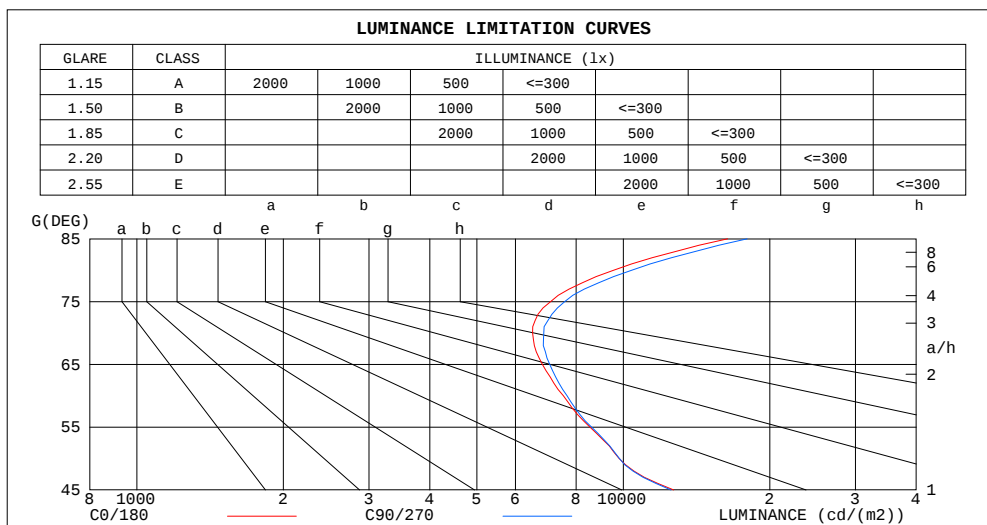
| $\gamma$ | C0                    | C45    | C90    | C135   | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10       | 1143                  | 1141   | 1143   | 1139   | 1152  | 1151  | 1143  | 1140  | 0- 10    | 114.1       | 114.1        | 11.1, 11.1 |
| 20       | 937.1                 | 928.2  | 939.1  | 950.2  | 978.5 | 971.0 | 957.0 | 941.5 | 10- 20   | 298.4       | 412.6        | 40.1, 40.1 |
| 30       | 594.6                 | 592.6  | 587.6  | 586.6  | 600.9 | 600.6 | 601.6 | 596.3 | 20- 30   | 351.2       | 763.8        | 74.2, 74.2 |
| 40       | 65.75                 | 64.12  | 66.37  | 70.42  | 90.01 | 98.03 | 84.33 | 72.22 | 30- 40   | 210.5       | 974.3        | 94.6, 94.6 |
| 50       | 17.83                 | 17.83  | 17.86  | 17.90  | 18.17 | 18.25 | 18.15 | 18.00 | 40- 50   | 24.80       | 999.1        | 97, 97     |
| 60       | 10.65                 | 10.66  | 10.84  | 10.94  | 11.18 | 11.15 | 11.00 | 10.80 | 50- 60   | 12.66       | 1012         | 98.2, 98.2 |
| 70       | 6.300                 | 6.392  | 6.643  | 6.882  | 7.069 | 7.015 | 6.768 | 6.459 | 60- 70   | 8.500       | 1020         | 99.1, 99.1 |
| 80       | 4.695                 | 4.822  | 5.115  | 5.432  | 5.543 | 5.423 | 5.168 | 4.848 | 70- 80   | 6.019       | 1026         | 99.6, 99.6 |
| 90       | 0.0386                | 0.0386 | 0.0347 | 0.0309 | 0     | 0     | 0     | 0     | 80- 90   | 3.717       | 1030         | 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: 2023-10-19

$\gamma$  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:220.56V I:0.0605A P:13.034W PF:0.9774 Freq:50.01Hz Lamp Flux:1030.02x1 lm |            |                  |
| NAME: DL2082-WHTC15C01P                                                          | TYPE:      | WEIGHT:          |
| SPEC.: white R80 3000K+5700K                                                     | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 60mm | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 16381  | 17963   |
| 80                | 9553   | 10409   |
| 75                | 7091   | 7581    |
| 70                | 6509   | 6863    |
| 65                | 6815   | 7060    |
| 60                | 7526   | 7662    |
| 55                | 8539   | 8603    |
| 50                | 9800   | 9817    |
| 45                | 12685  | 12527   |

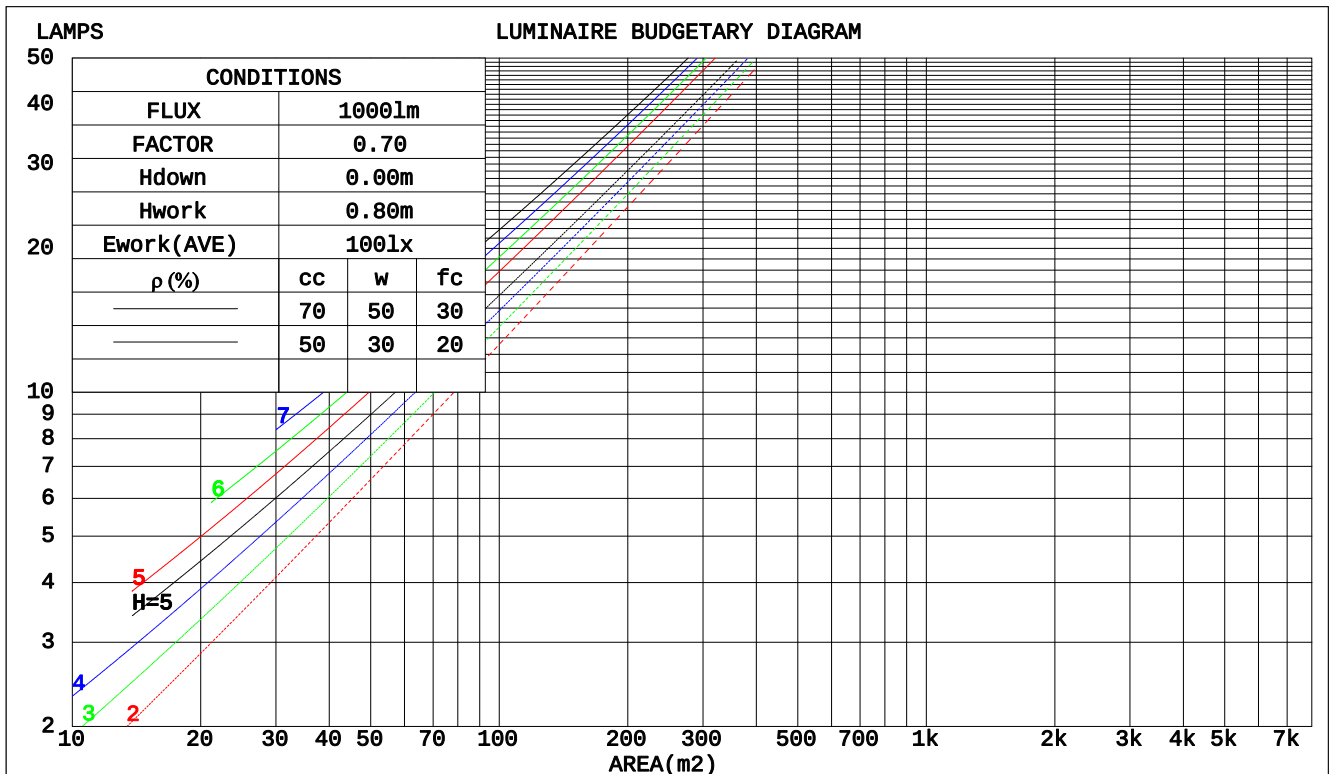
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators:  
Test Date: 2023-10-19

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:220.56V I:0.0605A P:13.034W PF:0.9774 Freq:50.01Hz Lamp Flux:1030.02x1 lm |            |                  |
| NAME: DL2082-WHTC15C01P                                                          | TYPE:      | WEIGHT:          |
| SPEC.: white R80 3000K+5700K                                                     | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 60mm | 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                   | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| RCR:Room Cavity Ratio |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 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                   | 1.11                            | 1.08 | 1.06 | 1.08 | 1.06 | 1.04 | 1.04 | 1.03 | 1.01 | 1.01 | .99  | .98  | .97  | .96  | .95  | .93  |
| 2.0                   | 1.03                            | .99  | .95  | 1.01 | .98  | .94  | .98  | .95  | .92  | .95  | .93  | .90  | .92  | .90  | .88  | .87  |
| 3.0                   | .96                             | .91  | .87  | .95  | .90  | .87  | .92  | .88  | .85  | .90  | .86  | .84  | .87  | .85  | .83  | .81  |
| 4.0                   | .90                             | .85  | .80  | .89  | .84  | .80  | .87  | .82  | .79  | .85  | .81  | .78  | .83  | .80  | .77  | .76  |
| 5.0                   | .84                             | .79  | .74  | .84  | .78  | .74  | .82  | .77  | .73  | .80  | .76  | .73  | .79  | .75  | .72  | .71  |
| 6.0                   | .79                             | .74  | .69  | .79  | .73  | .69  | .77  | .72  | .69  | .76  | .71  | .68  | .74  | .71  | .68  | .66  |
| 7.0                   | .75                             | .69  | .65  | .74  | .69  | .65  | .73  | .68  | .64  | .72  | .67  | .64  | .71  | .67  | .64  | .62  |
| 8.0                   | .71                             | .65  | .61  | .70  | .65  | .61  | .69  | .64  | .60  | .68  | .63  | .60  | .67  | .63  | .60  | .59  |
| 9.0                   | .67                             | .61  | .57  | .66  | .61  | .57  | .65  | .60  | .57  | .65  | .60  | .57  | .64  | .60  | .56  | .55  |
| 10.0                  | .63                             | .58  | .54  | .63  | .57  | .54  | .62  | .57  | .54  | .61  | .57  | .53  | .61  | .56  | .53  | .52  |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators:  
Test Date: 2023-10-19

$\gamma$  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:220.56V I:0.0605A P:13.034W PF:0.9774 Freq:50.01Hz Lamp Flux:1030.02x1 lm |  |  |            |  |                  |
| NAME: DL2082-WHTC15C01P                                                          |  |  | TYPE:      |  | WEIGHT:          |
| SPEC.: white R80 3000K+5700K                                                     |  |  | DIM.:      |  | SERIAL No.:      |
| MFR.:                                                                            |  |  | SUR.: 60mm |  | 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         | .181                  | .103 | .033 | .175 | .100 | .032 | .162                            | .093 | .030 | .151 | .087 | .028 | .140 | .081 | .026 |   |
| 2.0         | .172                  | .094 | .029 | .166 | .092 | .028 | .156                            | .086 | .027 | .146 | .082 | .026 | .137 | .077 | .024 |   |
| 3.0         | .163                  | .087 | .026 | .158 | .084 | .025 | .149                            | .081 | .024 | .140 | .077 | .024 | .133 | .073 | .023 |   |
| 4.0         | .154                  | .080 | .024 | .150 | .079 | .023 | .142                            | .075 | .023 | .135 | .073 | .022 | .128 | .070 | .021 |   |
| 5.0         | .147                  | .075 | .022 | .143 | .073 | .021 | .136                            | .071 | .021 | .130 | .069 | .020 | .124 | .066 | .020 |   |
| 6.0         | .140                  | .070 | .020 | .137 | .069 | .020 | .131                            | .067 | .019 | .125 | .065 | .019 | .120 | .063 | .019 |   |
| 7.0         | .133                  | .066 | .019 | .131 | .065 | .019 | .125                            | .063 | .018 | .120 | .062 | .018 | .116 | .060 | .018 |   |
| 8.0         | .128                  | .062 | .018 | .125 | .062 | .017 | .120                            | .060 | .017 | .116 | .059 | .017 | .112 | .057 | .017 |   |
| 9.0         | .122                  | .059 | .017 | .120 | .059 | .016 | .116                            | .057 | .016 | .112 | .056 | .016 | .108 | .055 | .016 |   |
| 10.0        | .117                  | .056 | .016 | .115 | .056 | .016 | .112                            | .055 | .015 | .108 | .054 | .015 | .104 | .053 | .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 | .147 | .135 | .124 | .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 | .089 | .123 | .098 | .078 | .085                                       | .068 | .054 | .049 | .040 | .032 | .016 | .013 | .011 |   |
| 4.0  | .133                  | .099 | .072 | .115 | .085 | .063 | .079                                       | .060 | .044 | .046 | .035 | .026 | .015 | .011 | .009 |   |
| 5.0  | .125                  | .087 | .060 | .107 | .075 | .052 | .074                                       | .053 | .037 | .043 | .031 | .022 | .014 | .010 | .007 |   |
| 6.0  | .117                  | .078 | .050 | .101 | .068 | .043 | .070                                       | .047 | .031 | .040 | .028 | .018 | .013 | .009 | .006 |   |
| 7.0  | .111                  | .070 | .042 | .095 | .061 | .037 | .066                                       | .043 | .026 | .038 | .025 | .015 | .012 | .008 | .005 |   |
| 8.0  | .105                  | .064 | .036 | .090 | .056 | .031 | .063                                       | .039 | .022 | .036 | .023 | .013 | .012 | .008 | .004 |   |
| 9.0  | .100                  | .059 | .031 | .086 | .051 | .027 | .060                                       | .036 | .019 | .035 | .021 | .012 | .011 | .007 | .004 |   |
| 10.0 | .095                  | .055 | .027 | .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:2023-10-19

$\gamma$  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:220.56V I:0.0605A P:13.034W PF:0.9774 Freq:50.01Hz Lamp Flux:1030.02x1 lm |                  |      |      |      |            |                |      |                  |      |      |
| NAME: DL2082-WHTC15C01P                                                          |                  |      |      |      | TYPE:      |                |      | WEIGHT:          |      |      |
| SPEC.: white R80 3000K+5700K                                                     |                  |      |      |      | DIM.:      |                |      | SERIAL No.:      |      |      |
| MFR.:                                                                            |                  |      |      |      | SUR.: 60mm |                |      | 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                                                                    | 20.4             | 21.3 | 20.6 | 21.5 | 21.6       | 20.4           | 21.3 | 20.6             | 21.5 | 21.6 |
| 3H                                                                               | 20.3             | 21.2 | 20.6 | 21.4 | 21.6       | 20.3           | 21.2 | 20.6             | 21.4 | 21.6 |
| 4H                                                                               | 20.3             | 21.1 | 20.6 | 21.3 | 21.6       | 20.3           | 21.1 | 20.6             | 21.4 | 21.6 |
| 6H                                                                               | 20.3             | 21.1 | 20.6 | 21.4 | 21.6       | 20.4           | 21.2 | 20.7             | 21.4 | 21.6 |
| 8H                                                                               | 20.4             | 21.2 | 20.7 | 21.4 | 21.7       | 20.5           | 21.2 | 20.8             | 21.5 | 21.7 |
| 12H                                                                              | 20.5             | 21.2 | 20.8 | 21.5 | 21.8       | 20.6           | 21.3 | 20.9             | 21.6 | 21.9 |
| 4H 2H                                                                            | 20.2             | 21.0 | 20.4 | 21.2 | 21.4       | 20.2           | 21.0 | 20.4             | 21.2 | 21.4 |
| 3H                                                                               | 20.2             | 20.9 | 20.5 | 21.1 | 21.4       | 20.2           | 20.9 | 20.5             | 21.1 | 21.4 |
| 4H                                                                               | 20.2             | 20.8 | 20.5 | 21.1 | 21.5       | 20.2           | 20.9 | 20.6             | 21.2 | 21.5 |
| 6H                                                                               | 20.3             | 20.9 | 20.7 | 21.2 | 21.6       | 20.4           | 21.0 | 20.8             | 21.3 | 21.6 |
| 8H                                                                               | 20.5             | 21.0 | 20.9 | 21.4 | 21.7       | 20.6           | 21.1 | 20.9             | 21.4 | 21.8 |
| 12H                                                                              | 20.7             | 21.2 | 21.1 | 21.5 | 21.9       | 20.8           | 21.3 | 21.2             | 21.7 | 22.1 |
| 8H 4H                                                                            | 20.1             | 20.7 | 20.5 | 21.0 | 21.4       | 20.2           | 20.7 | 20.6             | 21.1 | 21.4 |
| 6H                                                                               | 20.4             | 20.8 | 20.8 | 21.2 | 21.6       | 20.4           | 20.9 | 20.9             | 21.3 | 21.7 |
| 8H                                                                               | 20.6             | 21.0 | 21.1 | 21.4 | 21.9       | 20.7           | 21.1 | 21.2             | 21.5 | 22.0 |
| 12H                                                                              | 21.0             | 21.3 | 21.5 | 21.8 | 22.2       | 21.2           | 21.5 | 21.6             | 21.9 | 22.4 |
| 12H 4H                                                                           | 20.1             | 20.6 | 20.5 | 21.0 | 21.4       | 20.2           | 20.6 | 20.6             | 21.0 | 21.4 |
| 6H                                                                               | 20.4             | 20.8 | 20.9 | 21.2 | 21.7       | 20.5           | 20.9 | 20.9             | 21.3 | 21.7 |
| 8H                                                                               | 20.7             | 21.0 | 21.2 | 21.5 | 21.9       | 20.8           | 21.1 | 21.3             | 21.6 | 22.0 |
| Variations with the observer position at spacings(CIE Pub.117):                  |                  |      |      |      |            |                |      |                  |      |      |
| S = 1.0H                                                                         | + 3.0 / - 2.1    |      |      |      |            | + 2.9 / - 2.0  |      |                  |      |      |
| 1.5H                                                                             | + 5.2 / - 2.0    |      |      |      |            | + 5.2 / - 1.9  |      |                  |      |      |
| 2.0H                                                                             | + 0.3 / - 0.3    |      |      |      |            | + 0.2 / - 0.3  |      |                  |      |      |

CIE Pub.117, 1030 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.1)  
Area: 0.00283 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2023-10-19

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:220.56V I:0.0605A P:13.034W PF:0.9774 Freq:50.01Hz Lamp Flux:1030.02x1 lm |            |                  |
| NAME: DL2082-WHTC15C01P                                                          | TYPE:      | WEIGHT:          |
| SPEC.: white R80 3000K+5700K                                                     | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 60mm | Shielding Angle: |

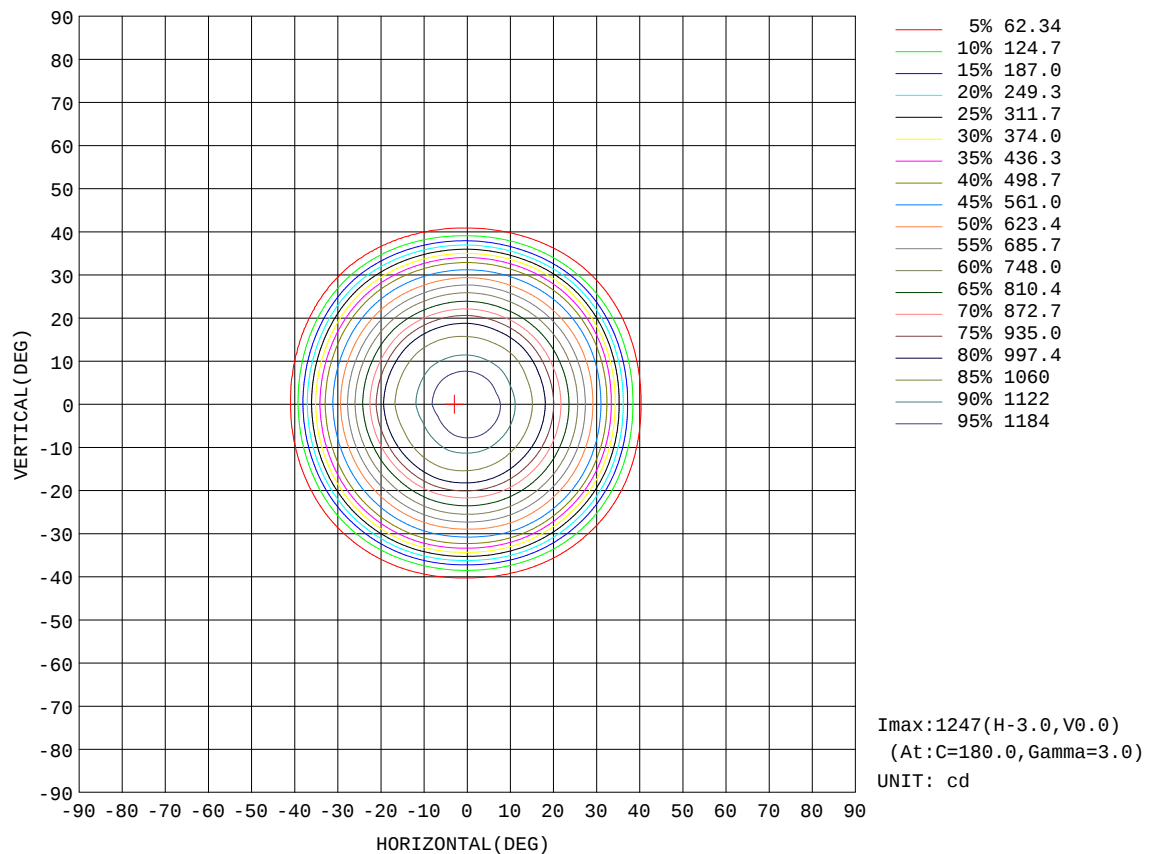
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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                         | 88                                                  | 82  | 78        | 88  | 82  | 78  | 87  | 82            | 78  | 75     |
| 0.80                             | 95                                                  | 90  | 86        | 95  | 89  | 86  | 94  | 89            | 86  | 82     |
| 1.00                             | 100                                                 | 94  | 91        | 99  | 94  | 90  | 97  | 93            | 90  | 86     |
| 1.25                             | 103                                                 | 98  | 95        | 102 | 98  | 95  | 100 | 97            | 94  | 90     |
| 1.50                             | 106                                                 | 101 | 98        | 105 | 101 | 98  | 103 | 99            | 96  | 92     |
| 2.00                             | 109                                                 | 104 | 101       | 107 | 103 | 100 | 104 | 101           | 99  | 94     |
| 2.50                             | 110                                                 | 106 | 103       | 109 | 105 | 103 | 106 | 103           | 101 | 95     |
| 3.00                             | 112                                                 | 108 | 106       | 110 | 107 | 105 | 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:2023-10-19

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:220.56V I:0.0605A P:13.034W PF:0.9774 Freq:50.01Hz Lamp Flux:1030.02x1 lm |            |                  |
| NAME: DL2082-WHTC15C01P                                                          | TYPE:      | WEIGHT:          |
| SPEC.: white R80 3000K+5700K                                                     | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 60mm | Shielding Angle: |

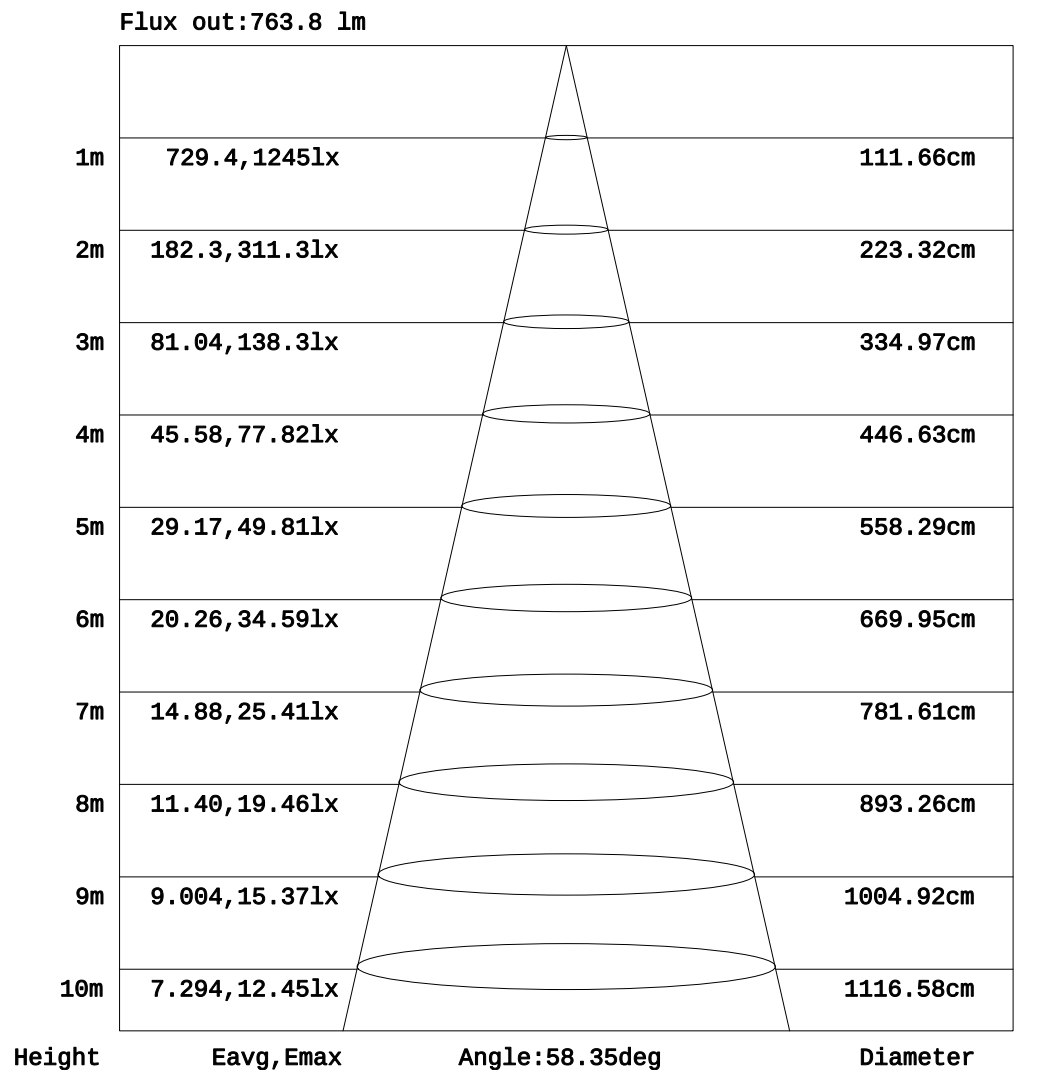


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2023-10-19

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:220.56V I:0.0605A P:13.034W PF:0.9774 Freq:50.01Hz Lamp Flux:1030.02x1 lm |            |                  |
| NAME: DL2082-WHTC15C01P                                                          | TYPE:      | WEIGHT:          |
| SPEC.: white R80 3000K+5700K                                                     | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 60mm | Shielding Angle: |



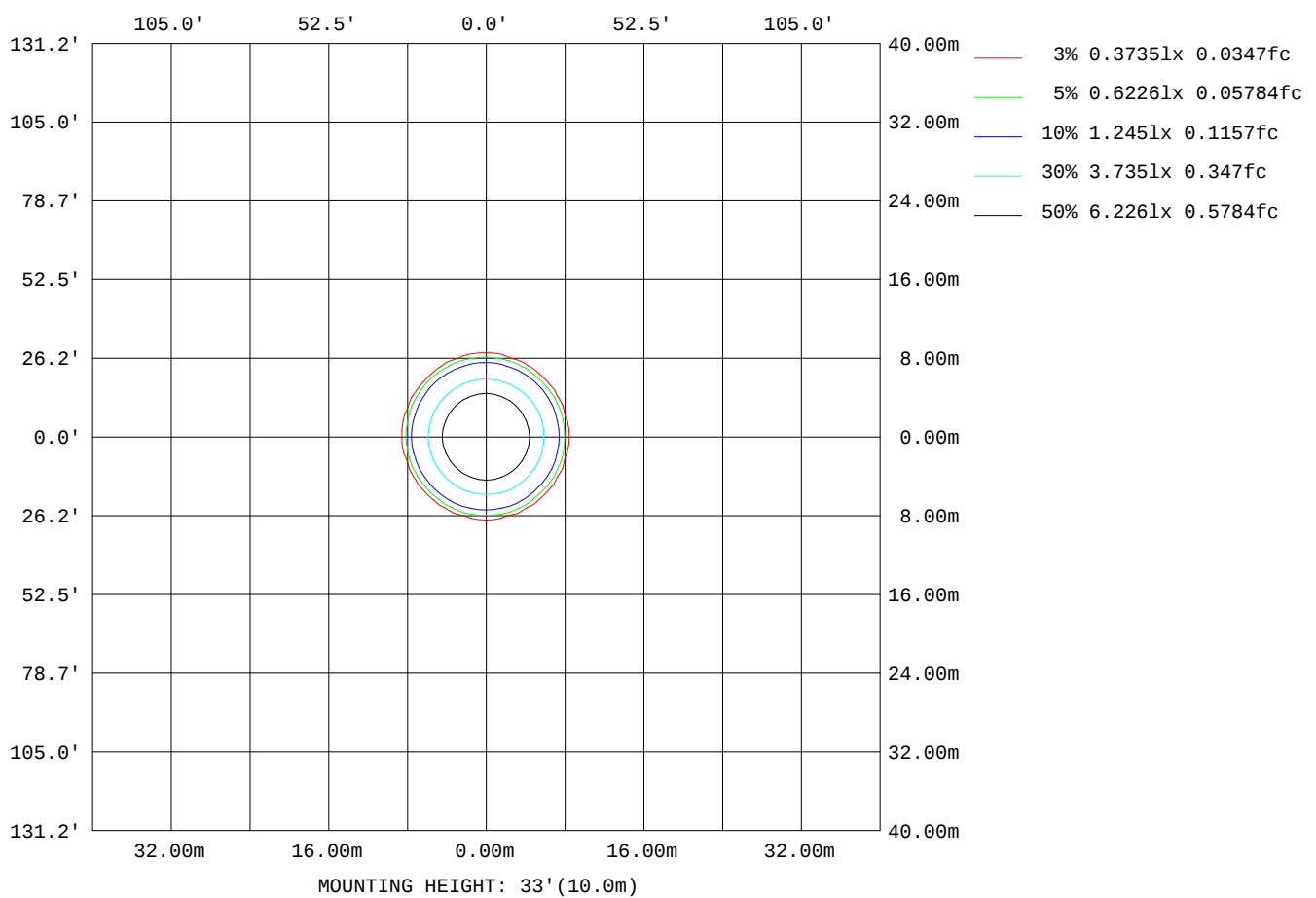
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2023-10-19

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:220.56V I:0.0605A P:13.034W PF:0.9774 Freq:50.01Hz Lamp Flux:1030.02x1 lm |            |                  |
| NAME: DL2082-WHTC15C01P                                                          | TYPE:      | WEIGHT:          |
| SPEC.: white R80 3000K+5700K                                                     | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 60mm | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2023-10-19

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:220.56V I:0.0605A P:13.034W PF:0.9774 Freq:50.01Hz Lamp Flux:1030.02x1 lm |            |                  |
| NAME: DL2082-WHTC15C01P                                                          | TYPE:      | WEIGHT:          |
| SPEC.: white R80 3000K+5700K                                                     | DIM.:      | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 60mm | Shielding Angle: |

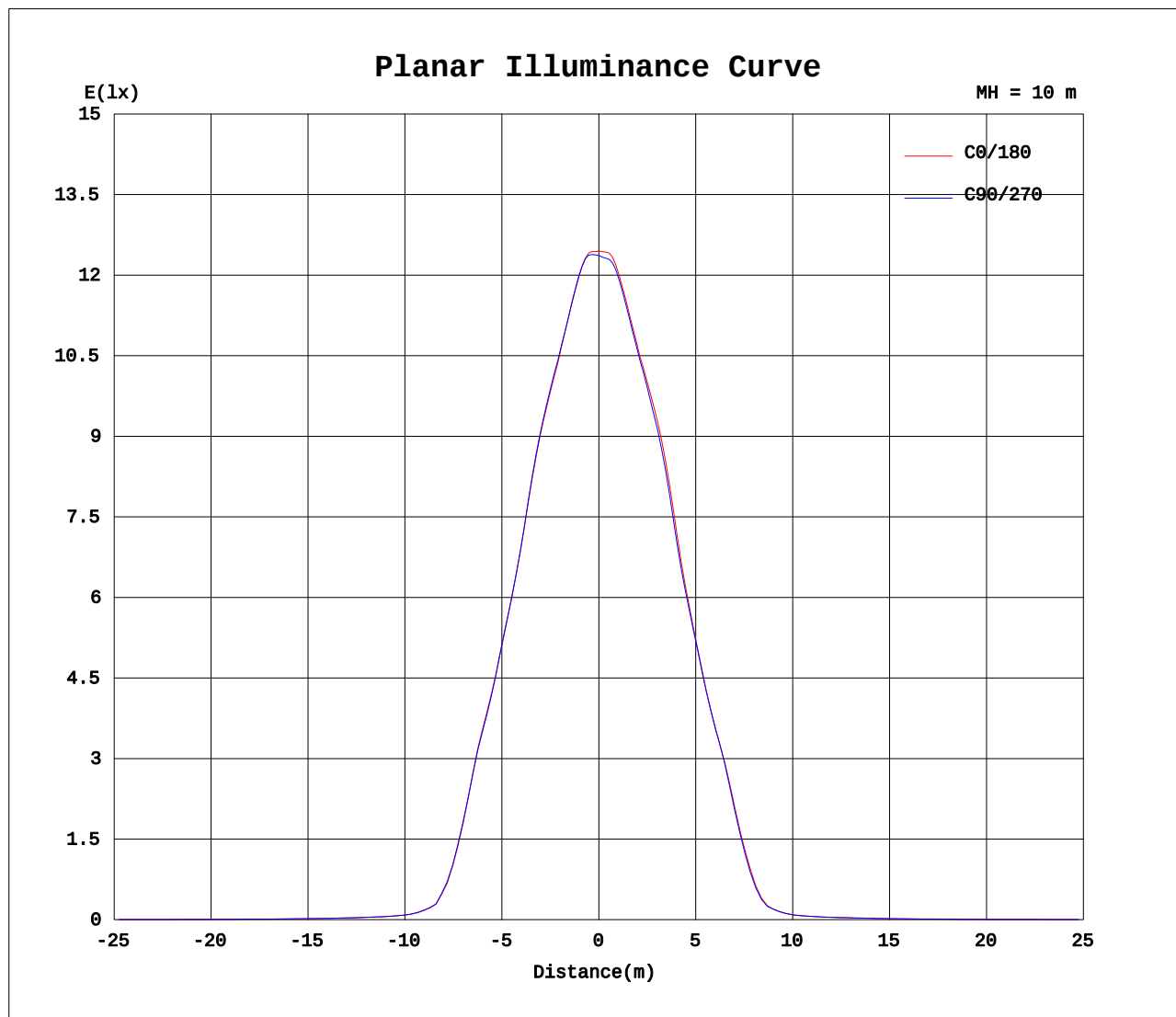
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 7095  |
| L_0~180(75)av  | 7642  |
| L_0~180(85)av  | 18086 |
| L_90~270(65)av | 7114  |
| L_90~270(75)av | 7640  |
| L_90~270(85)av | 18230 |
| L_45(65)av     | 7103  |
| L_45(75)av     | 7632  |
| L_45(85)av     | 18155 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:  
Test Date:2023-10-19

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: 2023-10-19

$\gamma$  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:

```