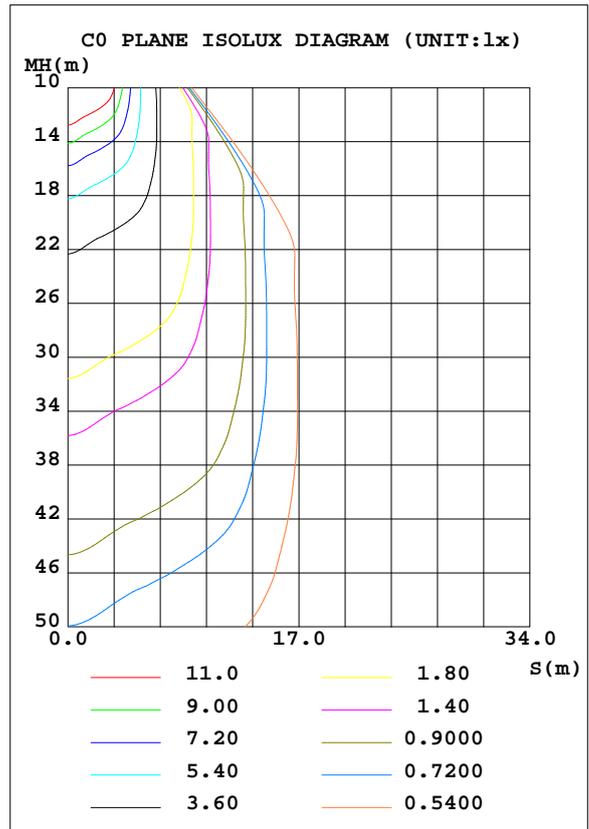
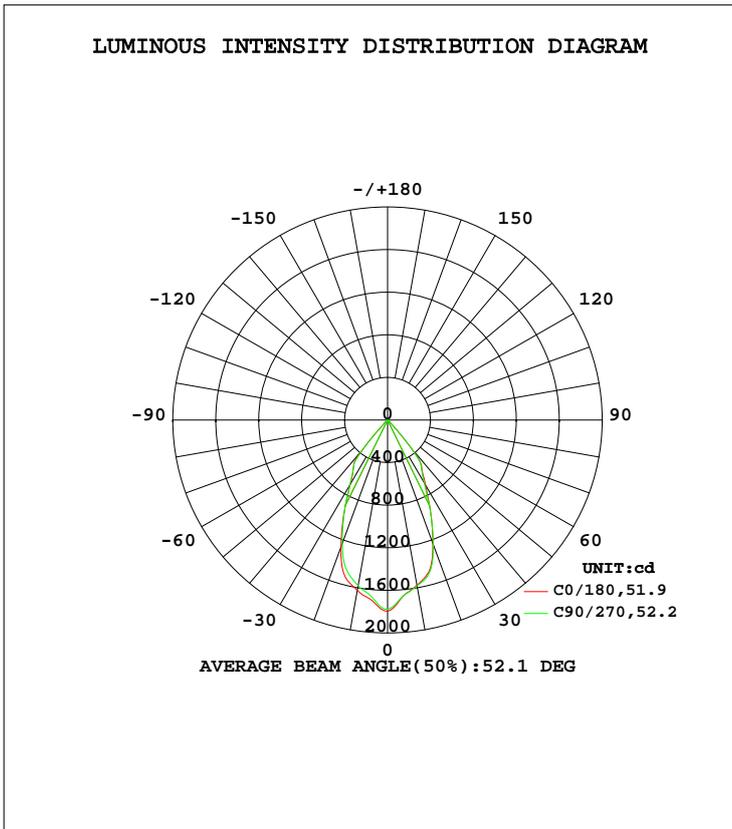


LUMINAIRE PHOTOMETRIC TEST REPORT

|  |            |                  |
|--|------------|------------------|
| Test:U:220.37V I:0.1024A P:22.090W PF:0.9786 Freq:50.01Hz Lamp Flux:1453.88x1 lm |            |                  |
| NAME: DL2092-WHTC20C01P  | TYPE:      | WEIGHT:          |
| SPEC.: black R80 3000K+5700K   | DIM.:      | SERIAL No.:      |
| MFR.:  | SUR.: 83mm | Shielding Angle: |

| DATA OF LAMP     |                  | PHOTOMETRIC DATA Eff: 65.82 lm/W |        |                    |          |
|------------------|------------------|----------------------------------|--------|--------------------|----------|
| MODEL            | TB15111204 3000K | I <sub>max</sub> (cd)            | 1795   | S/MH(C0/180)       | 0.82     |
| NOMINAL POWER(W) | 20               | LOR(%)                           | 100.0  | S/MH(C90/270)      | 0.81     |
| RATED VOLTAGE(V) | 220-240          | TOTAL FLUX(lm)                   | 1453.9 | η UP, DN(C0-180)   | 0.0,49.9 |
| NOMINAL FLUX(lm) | 1453.88          | CIE CLASS                        | DIRECT | η UP, DN(C180-360) | 0.0,50.1 |
| LAMPS INSIDE     | 1                | η up(%)                          | 0.0    | CIBSE SHR NOM      | 0.75     |
| TEST VOLTAGE(V)  | 220              | η down(%)                        | 100.0  | CIBSE SHR MAX      | 0.80     |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2023-10-20

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

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

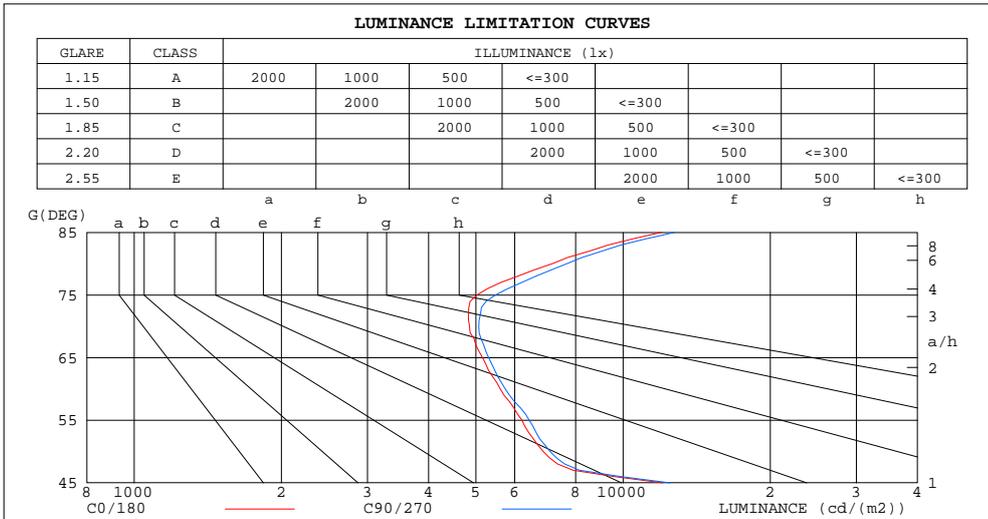
| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | $\Phi$ lum,lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|-----------------|
| 10       | 1575                  | 1573   | 1582   | 1589   | 1625   | 1620   | 1580   | 1561   | 0- 10    | 157.0       | 157.0        | 10.8,10.8       |
| 20       | 1235                  | 1243   | 1248   | 1243   | 1270   | 1224   | 1236   | 1212   | 10- 20   | 408.5       | 565.5        | 38.9,38.9       |
| 30       | 709.3                 | 698.7  | 683.3  | 678.3  | 698.0  | 664.4  | 704.4  | 691.3  | 20- 30   | 433.5       | 999.0        | 68.7,68.7       |
| 40       | 333.8                 | 335.5  | 337.4  | 346.8  | 370.5  | 362.0  | 347.2  | 343.6  | 30- 40   | 342.1       | 1341         | 92.2,92.2       |
| 50       | 23.87                 | 24.65  | 24.66  | 24.03  | 23.96  | 24.28  | 23.35  | 22.96  | 40- 50   | 70.43       | 1411         | 97.1,97.1       |
| 60       | 15.16                 | 15.42  | 15.52  | 15.44  | 15.46  | 15.34  | 15.06  | 14.94  | 50- 60   | 17.40       | 1429         | 98.3,98.3       |
| 70       | 8.972                 | 9.270  | 9.378  | 9.235  | 9.213  | 9.078  | 8.846  | 8.777  | 60- 70   | 11.87       | 1441         | 99.1,99.1       |
| 80       | 6.729                 | 7.120  | 7.205  | 7.018  | 6.793  | 6.604  | 6.303  | 6.337  | 70- 80   | 7.891       | 1449         | 99.6,99.6       |
| 90       | 0.1081                | 0.1004 | 0.0965 | 0.0888 | 0.0154 | 0.0154 | 0.0154 | 0.0154 | 80- 90   | 5.234       | 1454         | 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:2023-10-20

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

**LUMINANCE LIMITATION CURVES**

|  |            |                  |
|--|------------|------------------|
| Test:U:220.37V I:0.1024A P:22.090W PF:0.9786 Freq:50.01Hz Lamp Flux:1453.88x1 lm |            |                  |
| NAME: DL2092-WHTC20C01P  | TYPE:      | WEIGHT:          |
| SPEC.: black R80 3000K+5700K   | DIM.:      | SERIAL No.:      |
| MFR.:  | SUR.: 83mm | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 11969  | 12731   |
| 80                | 7163   | 7670    |
| 75                | 5028   | 5485    |
| 70                | 4849   | 5068    |
| 65                | 5158   | 5310    |
| 60                | 5604   | 5739    |
| 55                | 6208   | 6424    |
| 50                | 6864   | 7091    |
| 45                | 12050  | 12458   |

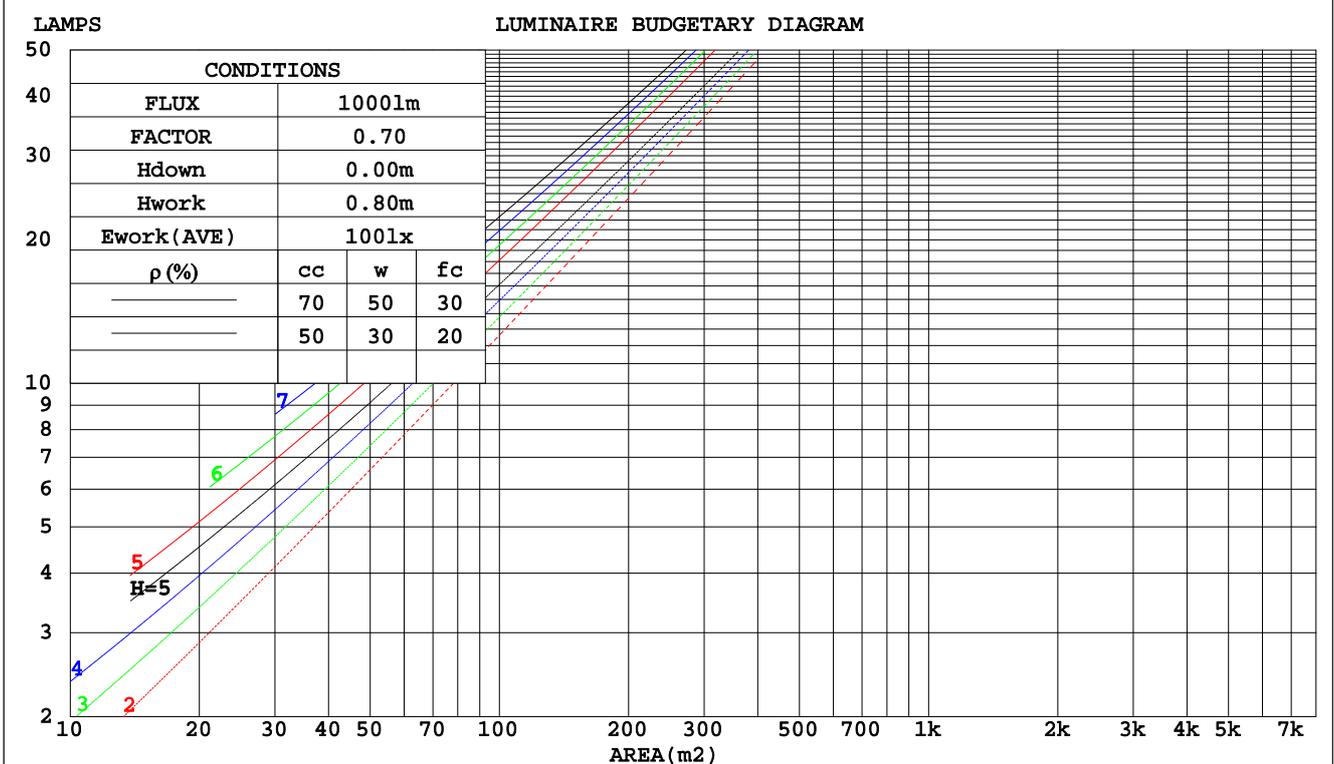
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators:  
 Test Date: 2023-10-20

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-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:220.37V I:0.1024A P:22.090W PF:0.9786 Freq:50.01Hz Lamp Flux:1453.88x1 lm |            |                  |
| NAME: DL2092-WHTC20C01P  | TYPE:      | WEIGHT:          |
| SPEC.: black R80 3000K+5700K   | DIM.:      | SERIAL No.:      |
| MFR.:  | SUR.: 83mm | Shielding Angle: |

| pcc  | 80%                             |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0   |
|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
|      | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| pw   |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| pfc  | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0   |
| RCR  | RCR:Room Cavity Ratio           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
|      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| 0.0  | 1.19                            | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0  | 1.10                            | 1.08 | 1.06 | 1.08 | 1.06 | 1.04 | 1.04 | 1.02 | 1.01 | 1.00 | .99  | .98  | .97  | .96  | .95  | .93 |
| 2.0  | 1.03                            | .98  | .95  | 1.01 | .97  | .94  | .98  | .94  | .92  | .95  | .92  | .90  | .92  | .90  | .88  | .86 |
| 3.0  | .96                             | .90  | .86  | .94  | .89  | .86  | .91  | .88  | .84  | .89  | .86  | .83  | .87  | .84  | .82  | .80 |
| 4.0  | .89                             | .84  | .79  | .88  | .83  | .79  | .86  | .81  | .78  | .84  | .80  | .77  | .82  | .79  | .76  | .75 |
| 5.0  | .83                             | .78  | .73  | .83  | .77  | .73  | .81  | .76  | .72  | .79  | .75  | .72  | .77  | .74  | .71  | .69 |
| 6.0  | .78                             | .72  | .68  | .78  | .72  | .68  | .76  | .71  | .67  | .75  | .70  | .67  | .73  | .69  | .66  | .65 |
| 7.0  | .74                             | .68  | .63  | .73  | .67  | .63  | .72  | .67  | .63  | .70  | .66  | .62  | .69  | .65  | .62  | .61 |
| 8.0  | .69                             | .63  | .59  | .69  | .63  | .59  | .68  | .62  | .59  | .67  | .62  | .59  | .66  | .61  | .58  | .57 |
| 9.0  | .65                             | .60  | .56  | .65  | .59  | .55  | .64  | .59  | .55  | .63  | .58  | .55  | .62  | .58  | .55  | .54 |
| 10.0 | .62                             | .56  | .52  | .62  | .56  | .52  | .61  | .56  | .52  | .60  | .55  | .52  | .59  | .55  | .52  | .50 |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators:  
 Test Date: 2023-10-20

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

WEC AND CCEC

|  |            |                  |
|--|------------|------------------|
| Test:U:220.37V I:0.1024A P:22.090W PF:0.9786 Freq:50.01Hz Lamp Flux:1453.88x1 lm |            |                  |
| NAME: DL2092-WHTC20C01P  | TYPE:      | WEIGHT:          |
| SPEC.: black R80 3000K+5700K   | DIM.:      | SERIAL No.:      |
| MFR.:  | SUR.: 83mm | Shielding Angle: |

| 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 |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .185                  | .105 | .033 | .178 | .102 | .032 | .165                            | .095 | .030 | .154 | .089 | .028 | .143 | .083 | .027 |   |
| 2.0  | .176                  | .096 | .030 | .170 | .094 | .029 | .159                            | .089 | .028 | .149 | .084 | .026 | .140 | .079 | .025 |   |
| 3.0  | .167                  | .089 | .027 | .162 | .087 | .026 | .153                            | .083 | .025 | .144 | .079 | .024 | .136 | .075 | .023 |   |
| 4.0  | .158                  | .082 | .024 | .154 | .081 | .024 | .146                            | .077 | .023 | .139 | .075 | .022 | .132 | .072 | .022 |   |
| 5.0  | .150                  | .077 | .022 | .147 | .075 | .022 | .140                            | .073 | .021 | .134 | .070 | .021 | .128 | .068 | .020 |   |
| 6.0  | .143                  | .072 | .021 | .140 | .071 | .020 | .134                            | .069 | .020 | .128 | .067 | .020 | .123 | .065 | .019 |   |
| 7.0  | .137                  | .068 | .019 | .134 | .067 | .019 | .129                            | .065 | .019 | .124 | .063 | .018 | .119 | .062 | .018 |   |
| 8.0  | .131                  | .064 | .018 | .128 | .063 | .018 | .124                            | .062 | .018 | .119 | .060 | .017 | .115 | .059 | .017 |   |
| 9.0  | .125                  | .061 | .017 | .123 | .060 | .017 | .119                            | .059 | .017 | .115 | .057 | .016 | .111 | .056 | .016 |   |
| 10.0 | .120                  | .058 | .016 | .118 | .057 | .016 | .114                            | .056 | .016 | .111 | .055 | .016 | .107 | .054 | .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  | .172                  | .157 | .144 | .147 | .135 | .124 | .100                                       | .093 | .086 | .058 | .054 | .050 | .019 | .017 | .016 |   |
| 2.0  | .157                  | .132 | .112 | .134 | .114 | .097 | .092                                       | .079 | .068 | .053 | .046 | .040 | .017 | .015 | .013 |   |
| 3.0  | .145                  | .114 | .089 | .124 | .098 | .077 | .085                                       | .068 | .054 | .049 | .040 | .032 | .016 | .013 | .010 |   |
| 4.0  | .134                  | .099 | .072 | .115 | .086 | .062 | .079                                       | .060 | .044 | .046 | .035 | .026 | .015 | .011 | .009 |   |
| 5.0  | .126                  | .087 | .059 | .108 | .076 | .051 | .074                                       | .053 | .036 | .043 | .031 | .022 | .014 | .010 | .007 |   |
| 6.0  | .118                  | .078 | .049 | .102 | .068 | .043 | .070                                       | .047 | .030 | .041 | .028 | .018 | .013 | .009 | .006 |   |
| 7.0  | .112                  | .071 | .042 | .096 | .061 | .036 | .067                                       | .043 | .026 | .039 | .025 | .015 | .012 | .008 | .005 |   |
| 8.0  | .106                  | .064 | .036 | .092 | .056 | .031 | .063                                       | .039 | .022 | .037 | .023 | .013 | .012 | .008 | .004 |   |
| 9.0  | .101                  | .059 | .031 | .087 | .051 | .027 | .060                                       | .036 | .019 | .035 | .021 | .011 | .011 | .007 | .004 |   |
| 10.0 | .097                  | .055 | .027 | .083 | .048 | .024 | .058                                       | .034 | .017 | .034 | .020 | .010 | .011 | .007 | .003 |   |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2023-10-20

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

UGR(Unified Glare Rating) Table

|  |            |                  |
|--|------------|------------------|
| Test:U:220.37V I:0.1024A P:22.090W PF:0.9786 Freq:50.01Hz Lamp Flux:1453.88x1 lm |            |                  |
| NAME: DL2092-WHTC20C01P  | TYPE:      | WEIGHT:          |
| SPEC.: black R80 3000K+5700K   | DIM.:      | SERIAL No.:      |
| MFR.:  | SUR.: 83mm | 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   | 19.0             | 20.0 | 19.2 | 20.1 | 20.3 | 19.0           | 19.9 | 19.2 | 20.1 | 20.3 |
| 3H  | 18.9             | 19.8 | 19.2 | 20.0 | 20.2 | 18.9           | 19.8 | 19.2 | 20.0 | 20.2 |
| 4H  | 18.9             | 19.7 | 19.2 | 19.9 | 20.2 | 18.9           | 19.7 | 19.2 | 20.0 | 20.2 |
| 6H  | 18.9             | 19.7 | 19.2 | 19.9 | 20.2 | 18.9           | 19.7 | 19.2 | 20.0 | 20.2 |
| 8H  | 18.9             | 19.7 | 19.2 | 20.0 | 20.2 | 19.0           | 19.7 | 19.3 | 20.0 | 20.3 |
| 12H   | 19.0             | 19.7 | 19.3 | 20.0 | 20.3 | 19.1           | 19.8 | 19.4 | 20.1 | 20.3 |
| 4H 2H   | 18.8             | 19.6 | 19.0 | 19.8 | 20.1 | 18.8           | 19.6 | 19.0 | 19.8 | 20.1 |
| 3H  | 18.7             | 19.5 | 19.1 | 19.7 | 20.0 | 18.7           | 19.5 | 19.1 | 19.7 | 20.0 |
| 4H  | 18.7             | 19.4 | 19.1 | 19.7 | 20.0 | 18.8           | 19.4 | 19.1 | 19.7 | 20.0 |
| 6H  | 18.8             | 19.4 | 19.2 | 19.8 | 20.1 | 18.9           | 19.5 | 19.3 | 19.8 | 20.1 |
| 8H  | 18.9             | 19.5 | 19.3 | 19.8 | 20.2 | 19.0           | 19.5 | 19.4 | 19.9 | 20.3 |
| 12H   | 19.1             | 19.6 | 19.5 | 20.0 | 20.4 | 19.2           | 19.7 | 19.6 | 20.0 | 20.4 |
| 8H 4H   | 18.7             | 19.2 | 19.1 | 19.6 | 19.9 | 18.7           | 19.2 | 19.1 | 19.6 | 20.0 |
| 6H  | 18.9             | 19.3 | 19.3 | 19.7 | 20.1 | 18.9           | 19.4 | 19.3 | 19.8 | 20.2 |
| 8H  | 19.1             | 19.4 | 19.5 | 19.9 | 20.3 | 19.1           | 19.5 | 19.6 | 19.9 | 20.4 |
| 12H   | 19.3             | 19.7 | 19.8 | 20.1 | 20.6 | 19.4           | 19.8 | 19.9 | 20.2 | 20.7 |
| 12H 4H  | 18.6             | 19.1 | 19.1 | 19.5 | 19.9 | 18.7           | 19.2 | 19.1 | 19.5 | 19.9 |
| 6H  | 18.9             | 19.3 | 19.3 | 19.7 | 20.1 | 18.9           | 19.3 | 19.4 | 19.7 | 20.2 |
| 8H  | 19.1             | 19.4 | 19.6 | 19.9 | 20.4 | 19.2           | 19.5 | 19.6 | 19.9 | 20.4 |
| Variations with the observer position at spacings(CIE Pub.117): |                  |      |      |      |      |                |      |      |      |      |
| S = 1.0H  | + 2.8 / - 5.7    |      |      |      |      | + 2.8 / - 5.5  |      |      |      |      |
| 1.5H  | + 5.4 / - 5.6    |      |      |      |      | + 5.3 / - 5.3  |      |      |      |      |
| 2.0H  | + 0.9 / - 0.3    |      |      |      |      | + 0.9 / - 0.3  |      |      |      |      |

CIE Pub.117, 1454 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.3)  
 Area: 0.00541 m2

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2023-10-20

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

UTILIZATION FACTORS TABLE

|  |            |                  |
|--|------------|------------------|
| Test:U:220.37V I:0.1024A P:22.090W PF:0.9786 Freq:50.01Hz Lamp Flux:1453.88x1 lm |            |                  |
| NAME: DL2092-WHTC20C01P  | TYPE:      | WEIGHT:          |
| SPEC.: black R80 3000K+5700K   | DIM.:      | SERIAL No.:      |
| MFR.:  | SUR.: 83mm | Shielding Angle: |

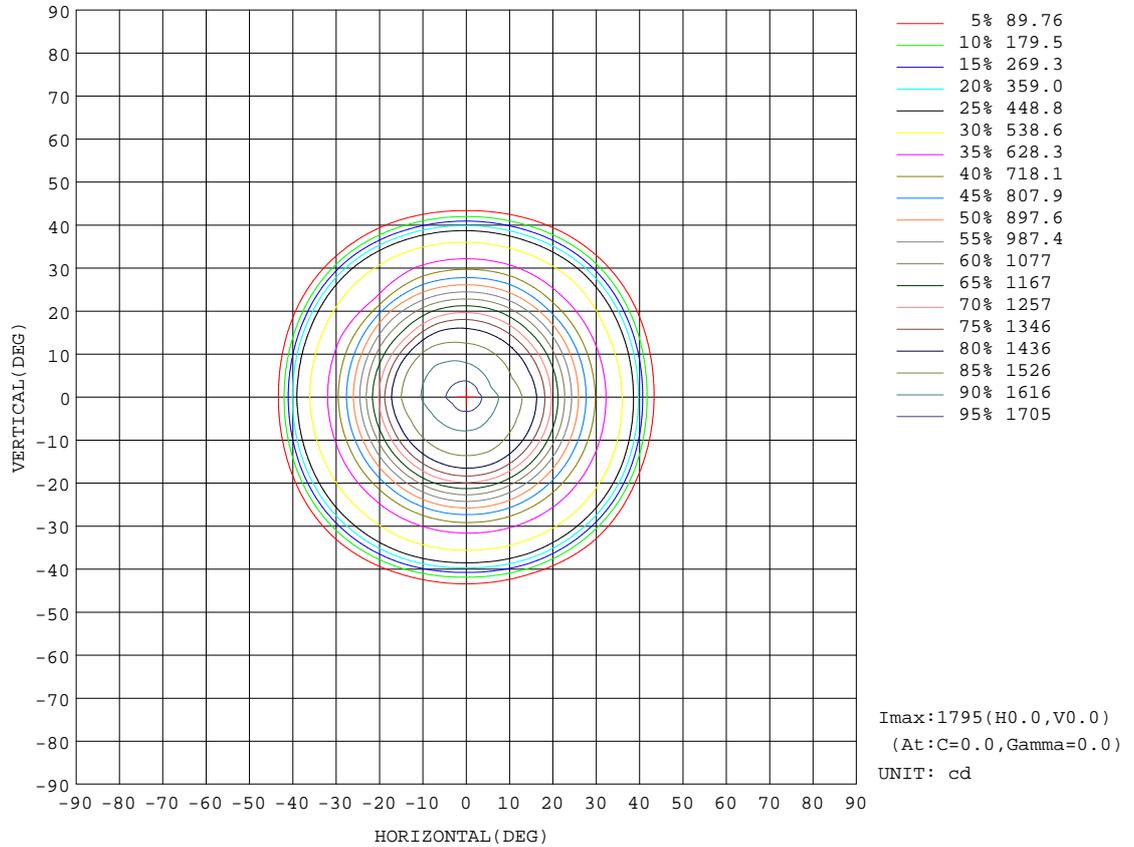
| REFLECTANCE                      |   |     |           |     |     |     |               |     |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7   | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2   | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |               |     |     |        |
| k = 0.60                         | 87  | 80  | 76        | 86  | 80  | 76  | 85            | 80  | 76  | 73     |
| 0.80                             | 94  | 88  | 84        | 94  | 88  | 84  | 92            | 87  | 84  | 80     |
| 1.00                             | 99  | 93  | 89        | 98  | 93  | 89  | 96            | 92  | 88  | 85     |
| 1.25                             | 103   | 97  | 94        | 102 | 97  | 93  | 100           | 96  | 93  | 88     |
| 1.50                             | 105   | 101 | 97        | 104 | 100 | 97  | 102           | 98  | 96  | 91     |
| 2.00                             | 108   | 104 | 101       | 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 | 107 | 104 | 106           | 104 | 102 | 95     |
| 4.00                             | 114   | 111 | 108       | 111 | 109 | 107 | 108           | 106 | 104 | 97     |
| 5.00                             | 115   | 112 | 111       | 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:2023-10-20

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

**ISOCANDELA DIAGRAM**

|  |            |                  |
|--|------------|------------------|
| Test:U:220.37V I:0.1024A P:22.090W PF:0.9786 Freq:50.01Hz Lamp Flux:1453.88x1 lm |            |                  |
| NAME: DL2092-WHTC20C01P  | TYPE:      | WEIGHT:          |
| SPEC.: black R80 3000K+5700K   | DIM.:      | SERIAL No.:      |
| MFR.:  | SUR.: 83mm | Shielding Angle: |

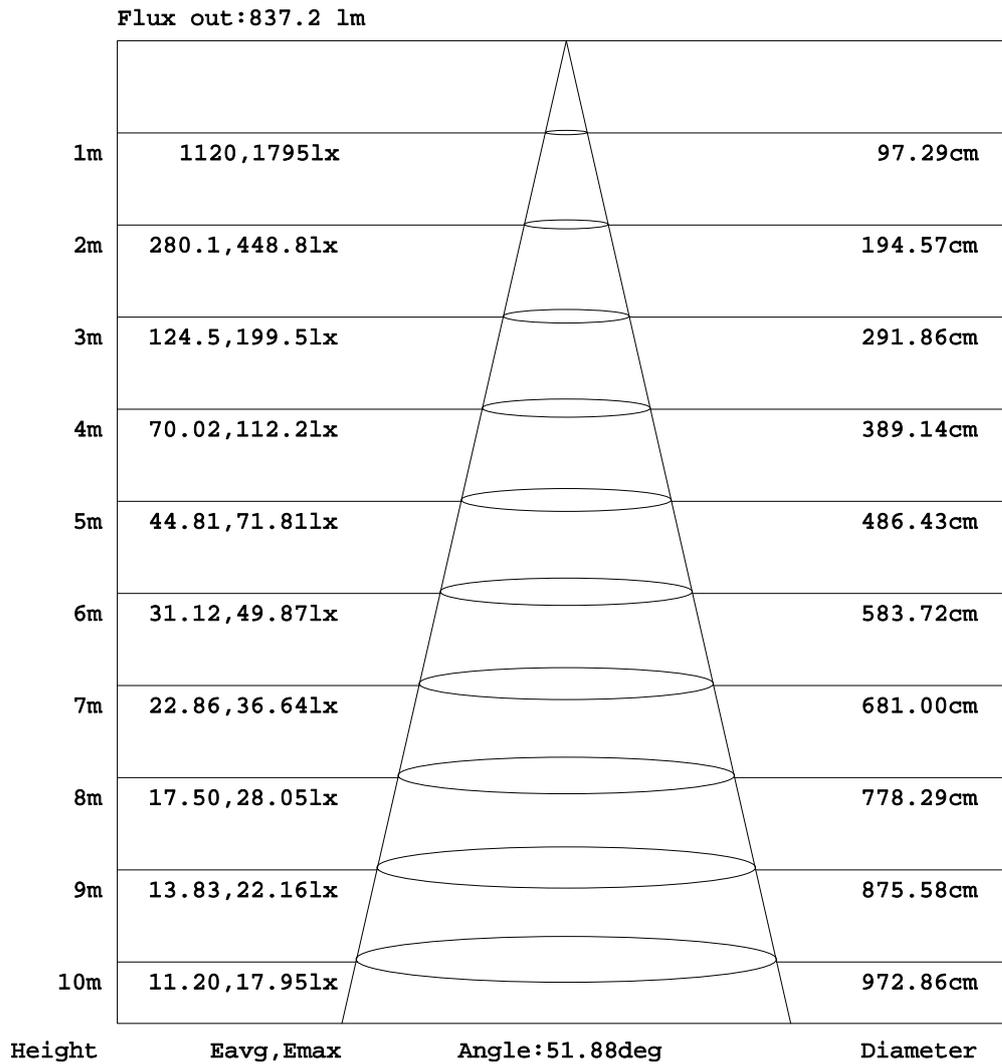


C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators:  
 Test Date: 2023-10-20

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

**AAI Figure**

|  |            |                  |
|--|------------|------------------|
| Test:U:220.37V I:0.1024A P:22.090W PF:0.9786 Freq:50.01Hz Lamp Flux:1453.88x1 lm |            |                  |
| NAME: DL2092-WHTC20C01P  | TYPE:      | WEIGHT:          |
| SPEC.: black R80 3000K+5700K   | DIM.:      | SERIAL No.:      |
| MFR.:  | SUR.: 83mm | Shielding Angle: |



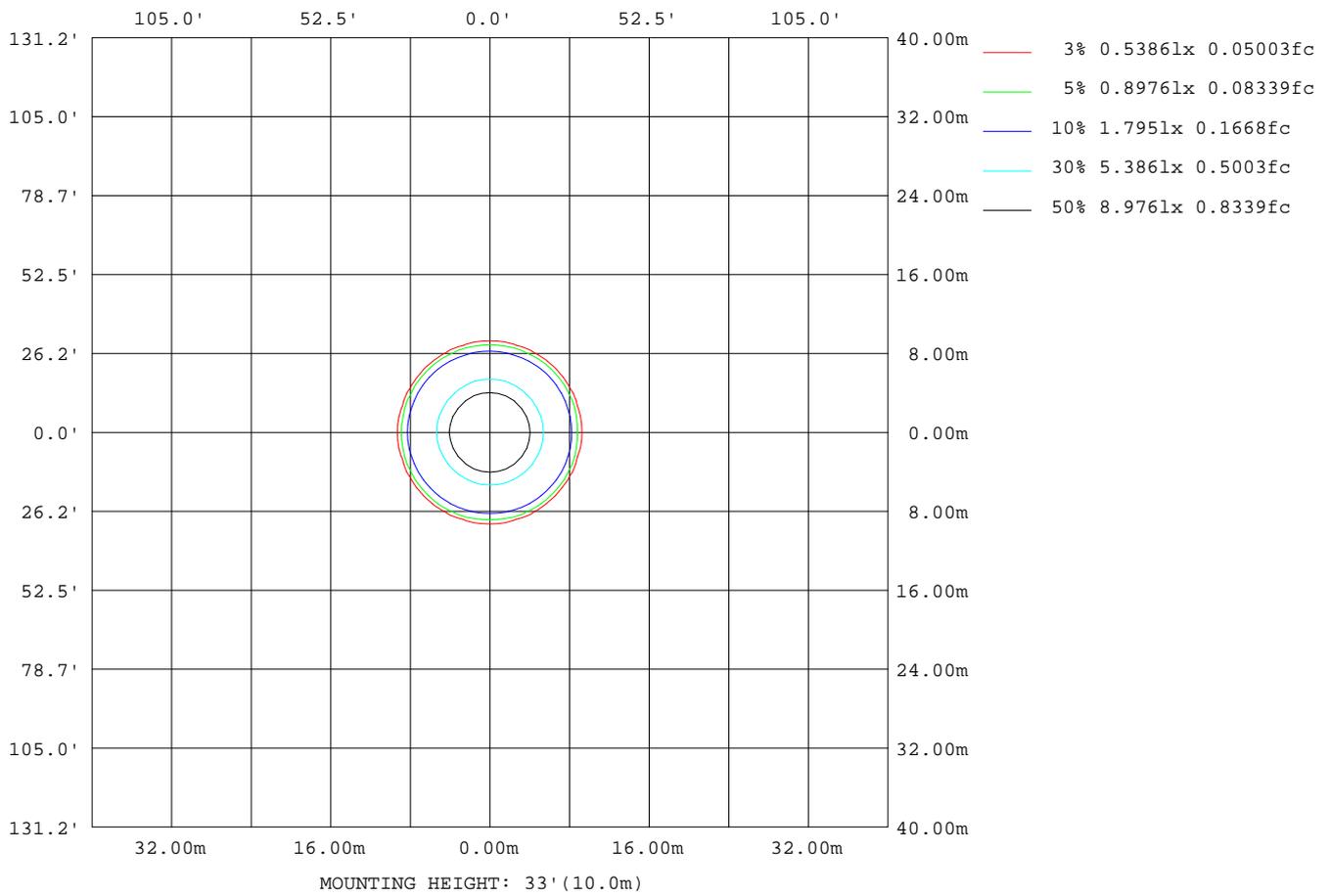
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2023-10-20

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

**ISOLUX DIAGRAM**

|  |            |                  |
|--|------------|------------------|
| Test:U:220.37V I:0.1024A P:22.090W PF:0.9786 Freq:50.01Hz Lamp Flux:1453.88x1 lm |            |                  |
| NAME: DL2092-WHTC20C01P  | TYPE:      | WEIGHT:          |
| SPEC.: black R80 3000K+5700K   | DIM.:      | SERIAL No.:      |
| MFR.:  | SUR.: 83mm | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators:  
 Test Date: 2023-10-20

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

LED Avg.L Report

|  |            |                  |
|--|------------|------------------|
| Test:U:220.37V I:0.1024A P:22.090W PF:0.9786 Freq:50.01Hz Lamp Flux:1453.88x1 lm |            |                  |
| NAME: DL2092-WHTC20C01P  | TYPE:      | WEIGHT:          |
| SPEC.: black R80 3000K+5700K   | DIM.:      | SERIAL No.:      |
| MFR.:  | SUR.: 83mm | Shielding Angle: |

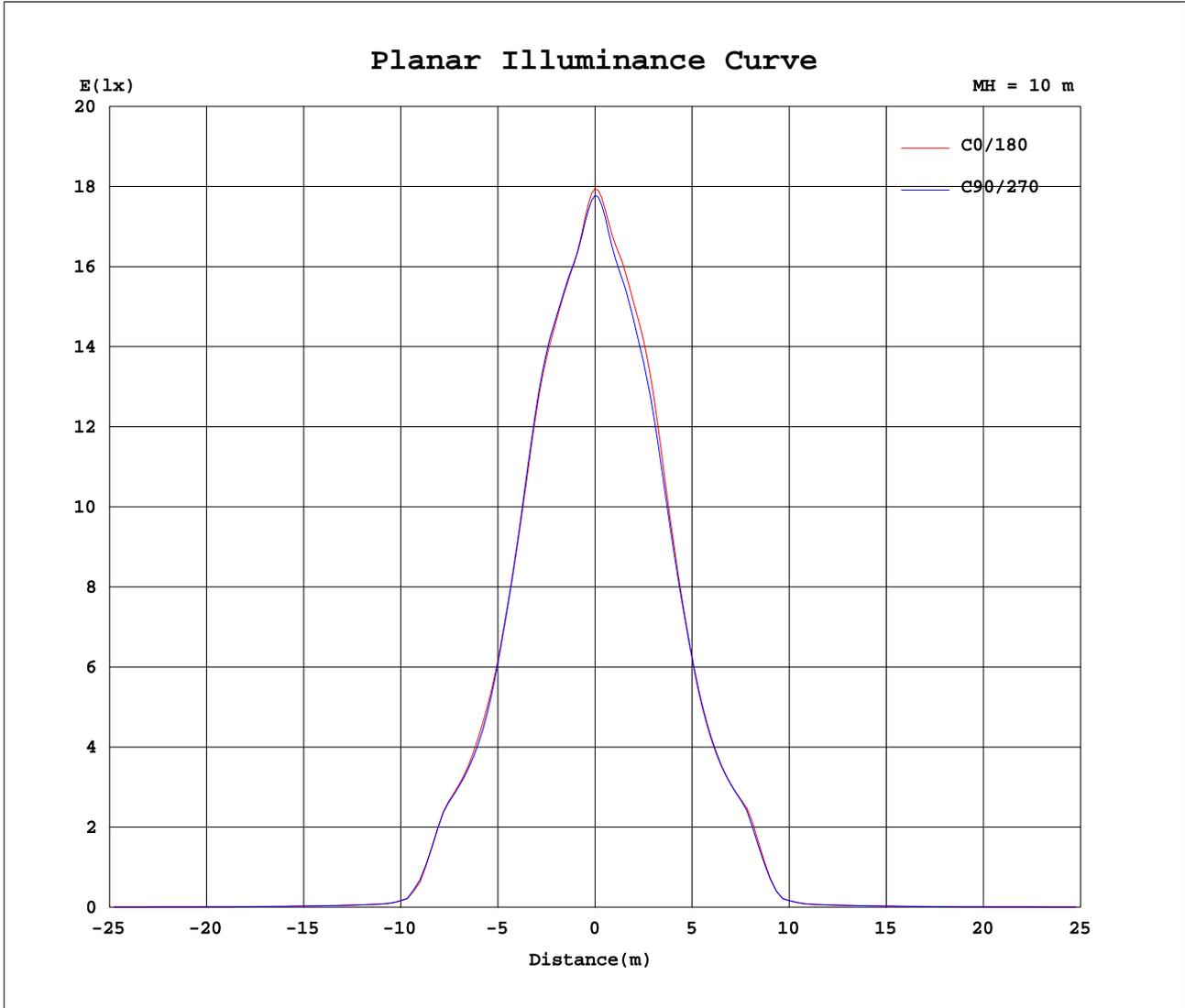
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 5232  |
| L_0~180(75)av  | 5128  |
| L_0~180(85)av  | 12170 |
| L_90~270(65)av | 5207  |
| L_90~270(75)av | 5124  |
| L_90~270(85)av | 12007 |
| L_45(65)av     | 5213  |
| L_45(75)av     | 5119  |
| L_45(85)av     | 12052 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2023-10-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-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: 2023-10-20

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

