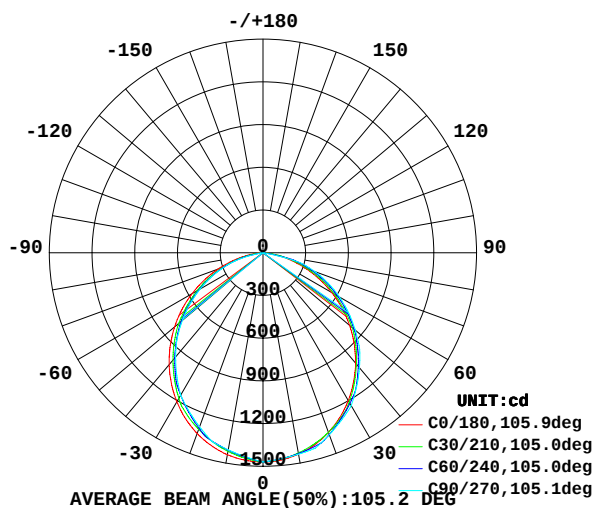


## LUMINAIRE PHOTOMETRIC TEST REPORT

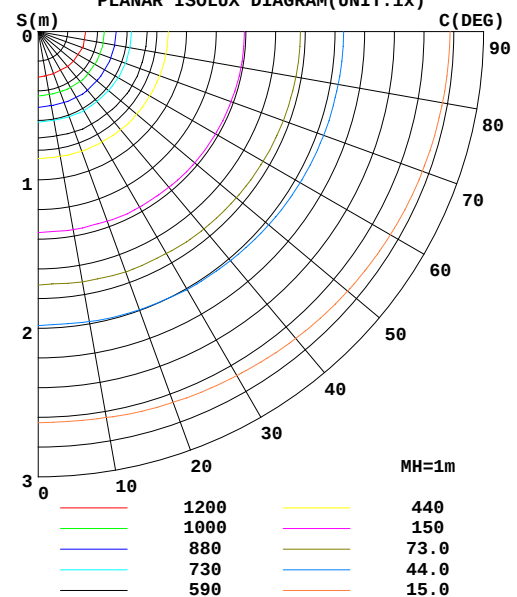
|                                                                  |          |                   |
|------------------------------------------------------------------|----------|-------------------|
| Test:U:218.9V I:0.1492A P:27.08W PF:0.8288 Lamp Flux:3785.7x1 lm |          |                   |
| NAME: GLM-SPL6060-27-F                                           | TYPE:LED | WEIGHT:           |
| SPEC.:                                                           | DIM.:    | SERIAL No.:1      |
| MFR.:                                                            | SUR.:    | PROTECTION ANGLE: |

| DATA OF LAMP     |        | PHOTOMETRIC DATA Eff: 139.82 lm/W |        |                    |           |
|------------------|--------|-----------------------------------|--------|--------------------|-----------|
| MODEL            |        | I <sub>max</sub> (cd)             | 1469   | S/MH(C0/180)       | 1.23      |
| NOMINAL POWER(W) |        | LOR(%)                            | 100.0  | S/MH(C90/270)      | 1.18      |
| RATED VOLTAGE(V) | 230.0  | TOTAL FLUX(lm)                    | 3785.7 | η UP, DN(C0-180)   | 0.0, 52.1 |
| NOMINAL FLUX(lm) | 3785.7 | CIE CLASS                         | DIRECT | η UP, DN(C180-360) | 0.0, 47.9 |
| LAMPS INSIDE     | 1      | η up(%)                           | 0.0    | CIBSE SHR NOM      | 1.25      |
| TEST VOLTAGE(V)  | 230    | η down(%)                         | 100.0  | CIBSE SHR MAX      | 1.35      |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-07-22

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:7.600m [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 |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 5        | 1461                  | 1453  | 1453  | 1455  | 1462  | 1443  | 1438  | 1442  | 0- 5     | 34.84       | 34.84        | 0.92,0.92  |
| 10       | 1436                  | 1430  | 1437  | 1433  | 1440  | 1410  | 1406  | 1408  | 5- 10    | 102.7       | 137.6        | 3.63,3.63  |
| 15       | 1397                  | 1398  | 1421  | 1405  | 1402  | 1371  | 1374  | 1367  | 10- 15   | 166.8       | 304.4        | 8.04,8.04  |
| 20       | 1344                  | 1360  | 1360  | 1369  | 1351  | 1324  | 1302  | 1319  | 15- 20   | 224.7       | 529.1        | 14.14      |
| 25       | 1277                  | 1290  | 1300  | 1301  | 1286  | 1247  | 1229  | 1241  | 20- 25   | 273.0       | 802.1        | 21.2,21.2  |
| 30       | 1198                  | 1211  | 1240  | 1224  | 1209  | 1161  | 1156  | 1155  | 25- 30   | 311.3       | 1113         | 29.4,29.4  |
| 35       | 1109                  | 1128  | 1147  | 1143  | 1122  | 1072  | 1055  | 1067  | 30- 35   | 338.4       | 1452         | 38.3,38.3  |
| 40       | 1011                  | 1041  | 1053  | 1057  | 1025  | 978.6 | 954.5 | 973.2 | 35- 40   | 352.2       | 1804         | 47.7,47.7  |
| 45       | 906.1                 | 930.9 | 960.1 | 949.4 | 921.2 | 866.4 | 853.6 | 860.8 | 40- 45   | 353.8       | 2158         | 57.57      |
| 50       | 794.9                 | 821.0 | 846.5 | 843.6 | 810.6 | 755.7 | 738.9 | 748.8 | 45- 50   | 343.3       | 2501         | 66.1,66.1  |
| 55       | 677.3                 | 712.6 | 733.0 | 738.3 | 695.0 | 645.9 | 624.3 | 637.8 | 50- 55   | 320.5       | 2821         | 74.5,74.5  |
| 60       | 556.6                 | 590.6 | 619.4 | 617.2 | 575.5 | 524.8 | 509.6 | 517.6 | 55- 60   | 287.2       | 3109         | 82.1,82.1  |
| 65       | 435.7                 | 471.7 | 503.5 | 499.2 | 455.9 | 406.9 | 396.8 | 400.3 | 60- 65   | 245.0       | 3354         | 88.6,88.6  |
| 70       | 315.6                 | 355.4 | 387.7 | 383.3 | 336.2 | 293.2 | 283.9 | 287.3 | 65- 70   | 196.0       | 3550         | 93.8,93.8  |
| 75       | 202.0                 | 241.3 | 271.8 | 269.4 | 221.1 | 184.4 | 171.1 | 178.7 | 70- 75   | 142.2       | 3692         | 97.5,97.5  |
| 80       | 98.92                 | 117.2 | 0     | 139.7 | 115.8 | 74.89 | 0     | 70.49 | 75- 80   | 77.90       | 3770         | 99.6,99.6  |
| 85       | 12.38                 | 0     | 0     | 0     | 22.33 | 0     | 0     | 0     | 80- 85   | 15.66       | 3785         | 100,100    |
| 90       | 0                     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 85- 90   | 0.3290      | 3786         | 100,100    |
| 95       |                       |       |       |       |       |       |       |       | 90- 95   |             |              |            |
| 100      |                       |       |       |       |       |       |       |       | 95-100   |             |              |            |
| 105      |                       |       |       |       |       |       |       |       | 100-105  |             |              |            |
| 110      |                       |       |       |       |       |       |       |       | 105-110  |             |              |            |
| 115      |                       |       |       |       |       |       |       |       | 110-115  |             |              |            |
| 120      |                       |       |       |       |       |       |       |       | 115-120  |             |              |            |
| 125      |                       |       |       |       |       |       |       |       | 120-125  |             |              |            |
| 130      |                       |       |       |       |       |       |       |       | 125-130  |             |              |            |
| 135      |                       |       |       |       |       |       |       |       | 130-135  |             |              |            |
| 140      |                       |       |       |       |       |       |       |       | 135-140  |             |              |            |
| 145      |                       |       |       |       |       |       |       |       | 140-145  |             |              |            |
| 150      |                       |       |       |       |       |       |       |       | 145-150  |             |              |            |
| 155      |                       |       |       |       |       |       |       |       | 150-155  |             |              |            |
| 160      |                       |       |       |       |       |       |       |       | 155-160  |             |              |            |
| 165      |                       |       |       |       |       |       |       |       | 160-165  |             |              |            |
| 170      |                       |       |       |       |       |       |       |       | 165-170  |             |              |            |
| 175      |                       |       |       |       |       |       |       |       | 170-175  |             |              |            |
| 180      |                       |       |       |       |       |       |       |       | 175-180  |             |              |            |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT:lm     |              |            |

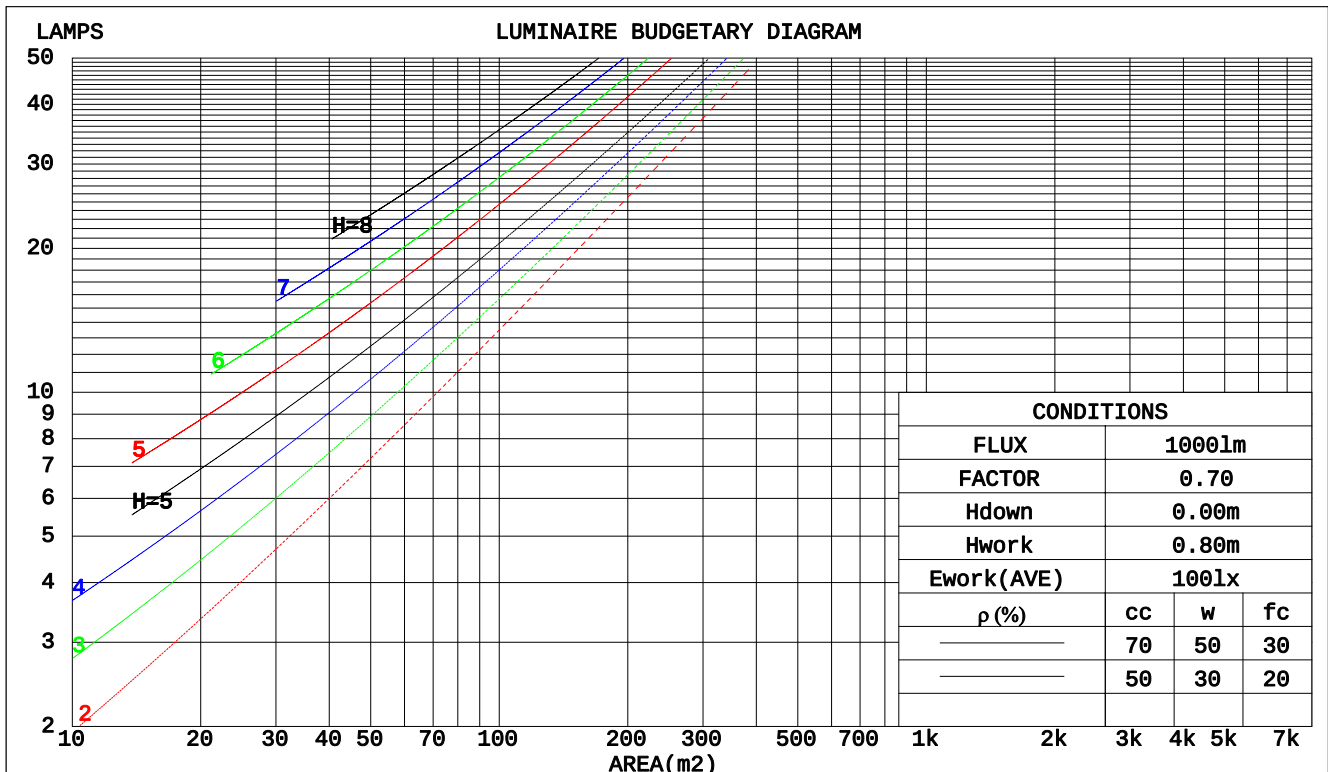
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-07-22

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:7.600m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                  |          |                   |
|------------------------------------------------------------------|----------|-------------------|
| Test:U:218.9V I:0.1492A P:27.08W PF:0.8288 Lamp Flux:3785.7x1 lm |          |                   |
| NAME: GLM-SPL6060-27-F                                           | TYPE:LED | WEIGHT:           |
| SPEC.:                                                           | DIM.:    | SERIAL No.:1      |
| MFR.:                                                            | SUR.:    | PROTECTION 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         | 1.05                  | 1.01 | .98  | 1.03 | .99  | .96  | .99                             | .96  | .93  | .95  | .92  | .90  | .91  | .89  | .87  | .85  |
| 2.0         | .92                   | .86  | .80  | .90  | .84  | .79  | .87                             | .82  | .77  | .83  | .79  | .76  | .80  | .77  | .74  | .72  |
| 3.0         | .81                   | .73  | .67  | .80  | .72  | .66  | .77                             | .70  | .65  | .74  | .69  | .64  | .71  | .67  | .63  | .61  |
| 4.0         | .72                   | .64  | .57  | .71  | .63  | .57  | .68                             | .61  | .56  | .66  | .60  | .55  | .64  | .59  | .54  | .52  |
| 5.0         | .64                   | .56  | .49  | .63  | .55  | .49  | .61                             | .54  | .48  | .59  | .53  | .48  | .57  | .52  | .47  | .45  |
| 6.0         | .58                   | .49  | .43  | .57  | .49  | .43  | .55                             | .48  | .43  | .54  | .47  | .42  | .52  | .46  | .42  | .40  |
| 7.0         | .53                   | .44  | .38  | .52  | .44  | .38  | .50                             | .43  | .38  | .49  | .42  | .37  | .48  | .42  | .37  | .35  |
| 8.0         | .48                   | .40  | .34  | .48  | .40  | .34  | .46                             | .39  | .34  | .45  | .38  | .34  | .44  | .38  | .33  | .31  |
| 9.0         | .44                   | .36  | .31  | .44  | .36  | .31  | .43                             | .35  | .30  | .41  | .35  | .30  | .40  | .35  | .30  | .28  |
| 10.0        | .41                   | .33  | .28  | .40  | .33  | .28  | .39                             | .32  | .28  | .38  | .32  | .28  | .38  | .32  | .27  | .26  |



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-07-22

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:7.600m [K=1.0000]  
 Remarks:

### WEC AND CCEC

|                                                                  |  |  |  |  |           |  |  |                   |  |
|------------------------------------------------------------------|--|--|--|--|-----------|--|--|-------------------|--|
| Test:U:218.9V I:0.1492A P:27.08W PF:0.8288 Lamp Flux:3785.7x1 lm |  |  |  |  |           |  |  |                   |  |
| NAME: GLM-SPL6060-27-F                                           |  |  |  |  | TYPE: LED |  |  | WEIGHT:           |  |
| SPEC.:                                                           |  |  |  |  | DIM.:     |  |  | SERIAL No.:1      |  |
| MFR.:                                                            |  |  |  |  | SUR.:     |  |  | PROTECTION 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         | .286                  | .162 | .051 | .279 | .159 | .050 | .266                            | .152 | .049 | .253 | .146 | .047 | .242 | .140 | .045 |   |  |
| 2.0         | .276                  | .151 | .046 | .270 | .149 | .046 | .258                            | .144 | .045 | .248 | .139 | .043 | .238 | .134 | .042 |   |  |
| 3.0         | .259                  | .138 | .041 | .253 | .136 | .041 | .243                            | .132 | .040 | .234 | .128 | .039 | .225 | .124 | .039 |   |  |
| 4.0         | .241                  | .125 | .037 | .236 | .123 | .036 | .227                            | .120 | .036 | .218 | .117 | .035 | .210 | .114 | .035 |   |  |
| 5.0         | .224                  | .114 | .033 | .219 | .113 | .033 | .211                            | .110 | .032 | .204 | .108 | .032 | .197 | .105 | .032 |   |  |
| 6.0         | .208                  | .104 | .030 | .204 | .103 | .030 | .197                            | .101 | .029 | .191 | .099 | .029 | .184 | .097 | .029 |   |  |
| 7.0         | .194                  | .096 | .027 | .191 | .095 | .027 | .185                            | .093 | .027 | .179 | .092 | .027 | .173 | .090 | .026 |   |  |
| 8.0         | .182                  | .089 | .025 | .179 | .088 | .025 | .173                            | .087 | .025 | .168 | .085 | .025 | .163 | .084 | .024 |   |  |
| 9.0         | .171                  | .083 | .023 | .168 | .082 | .023 | .163                            | .081 | .023 | .158 | .079 | .023 | .154 | .078 | .023 |   |  |
| 10.0        | .161                  | .077 | .021 | .159 | .077 | .021 | .154                            | .075 | .021 | .150 | .074 | .021 | .145 | .073 | .021 |   |  |

| 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  | .179                  | .156 | .136 | .153 | .134 | .117 | .105                                       | .092 | .081 | .060 | .053 | .047 | .019 | .017 | .015 |   |
| 2.0  | .170                  | .132 | .100 | .146 | .114 | .086 | .100                                       | .079 | .060 | .058 | .046 | .035 | .018 | .015 | .012 |   |
| 3.0  | .162                  | .114 | .076 | .139 | .099 | .066 | .096                                       | .068 | .046 | .055 | .040 | .027 | .018 | .013 | .009 |   |
| 4.0  | .155                  | .101 | .060 | .133 | .087 | .052 | .091                                       | .061 | .036 | .053 | .036 | .022 | .017 | .012 | .007 |   |
| 5.0  | .147                  | .090 | .048 | .127 | .078 | .042 | .087                                       | .055 | .030 | .051 | .032 | .018 | .016 | .010 | .006 |   |
| 6.0  | .140                  | .082 | .040 | .121 | .071 | .035 | .083                                       | .050 | .025 | .048 | .029 | .015 | .016 | .010 | .005 |   |
| 7.0  | .134                  | .075 | .034 | .115 | .065 | .029 | .079                                       | .046 | .021 | .046 | .027 | .012 | .015 | .009 | .004 |   |
| 8.0  | .127                  | .069 | .029 | .110 | .060 | .025 | .076                                       | .042 | .018 | .044 | .025 | .011 | .014 | .008 | .004 |   |
| 9.0  | .121                  | .064 | .026 | .105 | .056 | .022 | .073                                       | .039 | .016 | .042 | .023 | .009 | .014 | .008 | .003 |   |
| 10.0 | .116                  | .060 | .023 | .100 | .052 | .020 | .069                                       | .037 | .014 | .040 | .022 | .008 | .013 | .007 | .003 |   |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-07-22

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:7.600m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

|                                                                  |               |                  |      |      |      |               |                |      |                   |      |      |
|------------------------------------------------------------------|---------------|------------------|------|------|------|---------------|----------------|------|-------------------|------|------|
| Test:U:218.9V I:0.1492A P:27.08W PF:0.8288 Lamp Flux:3785.7x1 lm |               |                  |      |      |      |               |                |      |                   |      |      |
| NAME: GLM-SPL6060-27-F                                           |               |                  |      |      |      | TYPE:LED      |                |      | WEIGHT:           |      |      |
| SPEC.:                                                           |               |                  |      |      |      | DIM.:         |                |      | SERIAL No.:1      |      |      |
| MFR.:                                                            |               |                  |      |      |      | SUR.:         |                |      | PROTECTION ANGLE: |      |      |
| ceiling/cavity                                                   | 0.7           | 0.7              | 0.5  | 0.5  | 0.3  | 0.7           | 0.7            | 0.5  | 0.5               | 0.3  |      |
| walls                                                            | 0.5           | 0.3              | 0.5  | 0.3  | 0.3  | 0.5           | 0.3            | 0.5  | 0.3               | 0.3  |      |
| working plane                                                    | 0.2           | 0.2              | 0.2  | 0.2  | 0.2  | 0.2           | 0.2            | 0.2  | 0.2               | 0.2  |      |
| Room dimensions                                                  |               | Viewed crosswise |      |      |      |               | Viewed endwise |      |                   |      |      |
| x = 2H y = 2H                                                    | 2H            | 17.6             | 19.1 | 17.9 | 19.3 | 19.5          | 18.0           | 19.5 | 18.3              | 19.7 | 19.9 |
|                                                                  | 3H            | 18.9             | 20.2 | 19.2 | 20.5 | 20.7          | 19.5           | 20.9 | 19.8              | 21.1 | 21.3 |
|                                                                  | 4H            | 19.3             | 20.6 | 19.6 | 20.8 | 21.1          | 20.1           | 21.4 | 20.4              | 21.7 | 21.9 |
|                                                                  | 6H            | 19.5             | 20.7 | 19.8 | 21.0 | 21.2          | 20.2           | 21.4 | 20.5              | 21.7 | 21.9 |
|                                                                  | 8H            | 19.5             | 20.7 | 19.8 | 20.9 | 21.2          | 20.1           | 21.3 | 20.5              | 21.6 | 21.9 |
|                                                                  | 12H           | 19.4             | 20.6 | 19.8 | 20.9 | 21.2          | 20.1           | 21.2 | 20.4              | 21.5 | 21.8 |
| 4H                                                               | 2H            | 18.2             | 19.5 | 18.5 | 19.8 | 20.0          | 18.5           | 19.8 | 18.9              | 20.1 | 20.3 |
|                                                                  | 3H            | 19.7             | 20.8 | 20.0 | 21.1 | 21.4          | 20.2           | 21.4 | 20.6              | 21.7 | 22.0 |
|                                                                  | 4H            | 20.2             | 21.2 | 20.6 | 21.6 | 21.9          | 21.0           | 22.0 | 21.3              | 22.3 | 22.6 |
|                                                                  | 6H            | 20.5             | 21.4 | 20.9 | 21.7 | 22.1          | 21.1           | 22.0 | 21.5              | 22.3 | 22.7 |
|                                                                  | 8H            | 20.5             | 21.3 | 20.9 | 21.7 | 22.1          | 21.0           | 21.9 | 21.4              | 22.2 | 22.6 |
|                                                                  | 12H           | 20.5             | 21.2 | 20.9 | 21.6 | 22.0          | 21.0           | 21.8 | 21.4              | 22.1 | 22.5 |
| 8H                                                               | 4H            | 20.5             | 21.3 | 20.9 | 21.7 | 22.1          | 21.2           | 22.0 | 21.6              | 22.4 | 22.8 |
|                                                                  | 6H            | 20.9             | 21.6 | 21.3 | 22.0 | 22.4          | 21.3           | 22.0 | 21.8              | 22.4 | 22.8 |
|                                                                  | 8H            | 20.9             | 21.5 | 21.4 | 22.0 | 22.4          | 21.3           | 21.9 | 21.7              | 22.3 | 22.8 |
|                                                                  | 12H           | 20.9             | 21.4 | 21.4 | 21.9 | 22.4          | 21.2           | 21.8 | 21.7              | 22.2 | 22.7 |
| 12H                                                              | 4H            | 20.5             | 21.2 | 20.9 | 21.6 | 22.0          | 21.1           | 21.9 | 21.6              | 22.3 | 22.7 |
|                                                                  | 6H            | 20.9             | 21.5 | 21.3 | 21.9 | 22.3          | 21.3           | 21.9 | 21.8              | 22.3 | 22.8 |
|                                                                  | 8H            | 20.9             | 21.5 | 21.4 | 21.9 | 22.4          | 21.3           | 21.8 | 21.7              | 22.2 | 22.7 |
| Variations with the observer position at spacings:               |               |                  |      |      |      |               |                |      |                   |      |      |
| S = 1.0H                                                         | + 0.2 / - 0.2 |                  |      |      |      | + 0.2 / - 0.3 |                |      |                   |      |      |
| 1.5H                                                             | + 0.2 / - 0.4 |                  |      |      |      | + 0.1 / - 0.3 |                |      |                   |      |      |
| 2.0H                                                             | + 0.3 / - 0.3 |                  |      |      |      | + 0.2 / - 0.4 |                |      |                   |      |      |

CIE Pub.117 Corrected 3786 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.6)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-07-22

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:7.600m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|                                                                  |          |                   |
|------------------------------------------------------------------|----------|-------------------|
| Test:U:218.9V I:0.1492A P:27.08W PF:0.8288 Lamp Flux:3785.7x1 lm |          |                   |
| NAME: GLM-SPL6060-27-F                                           | TYPE:LED | WEIGHT:           |
| SPEC.:                                                           | DIM.:    | SERIAL No.:1      |
| MFR.:                                                            | SUR.:    | PROTECTION 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 59                                                  | 48  | 41        | 58  | 48  | 41  | 57  | 47            | 41  | 34     |
| 0.80                             | 69                                                  | 58  | 51        | 68  | 58  | 51  | 67  | 57            | 50  | 44     |
| 1.00                             | 78                                                  | 67  | 60        | 77  | 67  | 60  | 74  | 68            | 59  | 52     |
| 1.25                             | 85                                                  | 75  | 68        | 83  | 74  | 68  | 81  | 73            | 67  | 60     |
| 1.50                             | 90                                                  | 80  | 74        | 88  | 80  | 73  | 85  | 78            | 72  | 65     |
| 2.00                             | 96                                                  | 88  | 82        | 95  | 87  | 82  | 91  | 85            | 80  | 73     |
| 2.50                             | 100                                                 | 93  | 87        | 98  | 92  | 86  | 95  | 89            | 85  | 77     |
| 3.00                             | 104                                                 | 97  | 92        | 101 | 96  | 91  | 97  | 93            | 89  | 80     |
| 4.00                             | 107                                                 | 102 | 98        | 105 | 100 | 96  | 101 | 97            | 94  | 85     |
| 5.00                             | 110                                                 | 105 | 101       | 107 | 103 | 100 | 103 | 100           | 97  | 88     |
| ROOM INDEX                       | UF(total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                     |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-07-22

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:7.600m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

|                                                                  |           |                   |
|------------------------------------------------------------------|-----------|-------------------|
| Test:U:218.9V I:0.1492A P:27.08W PF:0.8288 Lamp Flux:3785.7x1 lm |           |                   |
| NAME: GLM-SPL6060-27-F                                           | TYPE: LED | WEIGHT:           |
| SPEC.:                                                           | DIM.:     | SERIAL No.:1      |
| MFR.:                                                            | SUR.:     | PROTECTION ANGLE: |

Conical surface Flux(90deg):

2157.7 lm

%lum = 57.0%

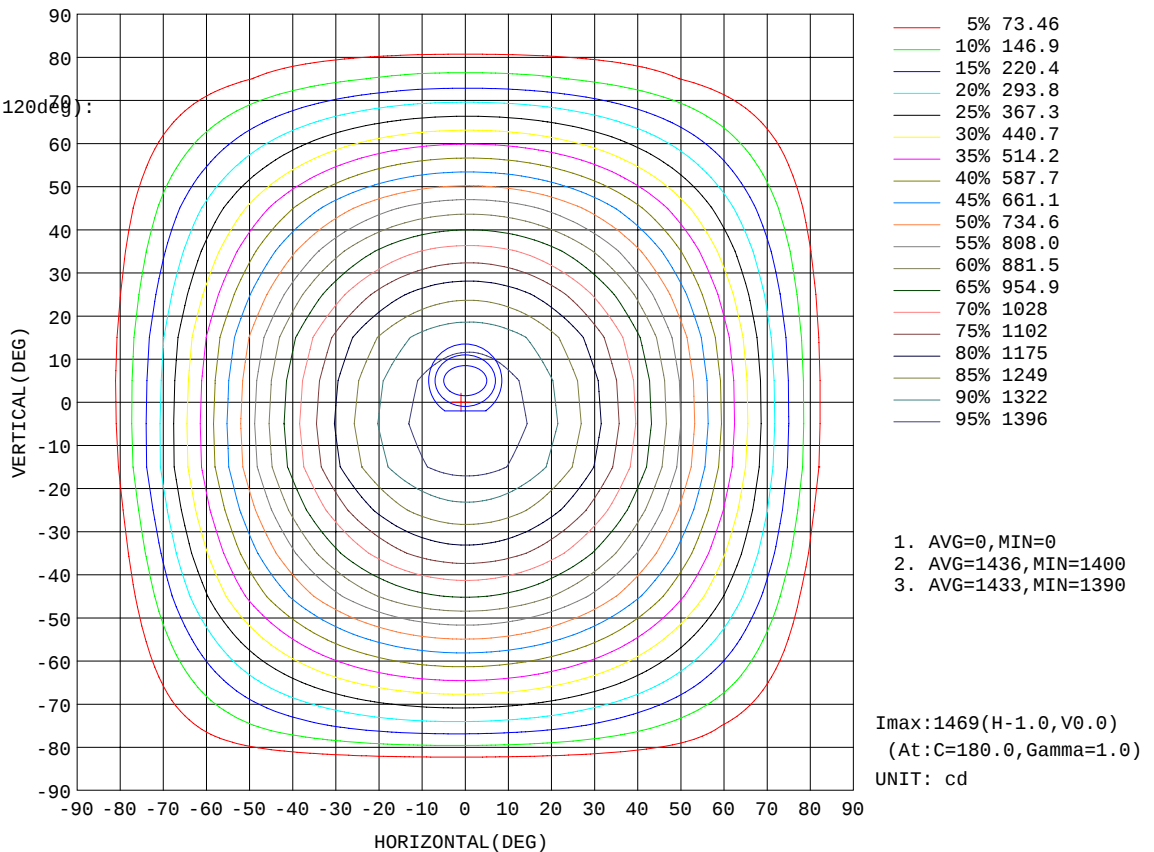
%lamp = 57.0%

Conical surface Flux(120deg):

3108.6 lm

%lum = 82.1%

%lamp = 82.1%

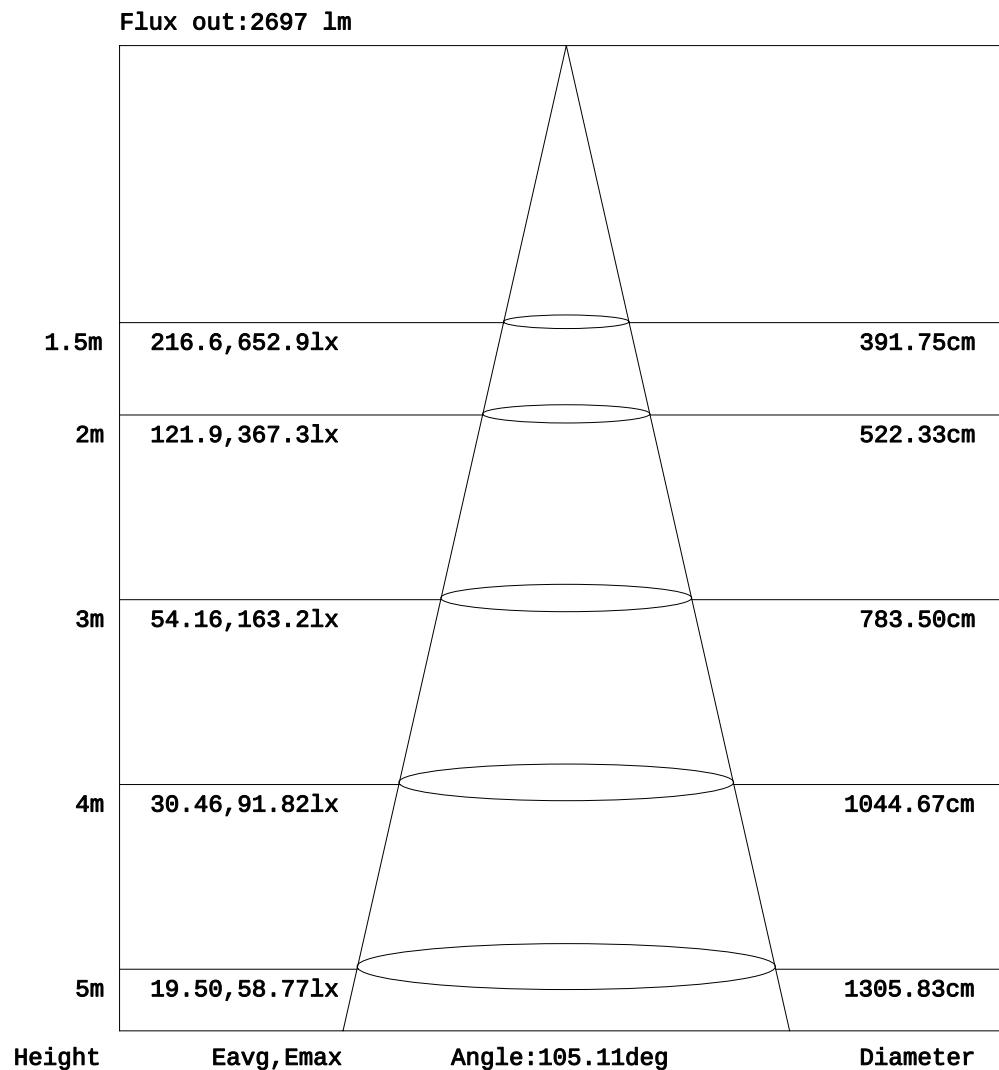


C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-07-22

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:7.600m [K=1.0000]  
Remarks:

## AAI Figure

|                                                                  |           |                   |
|------------------------------------------------------------------|-----------|-------------------|
| Test:U:218.9V I:0.1492A P:27.08W PF:0.8288 Lamp Flux:3785.7x1 lm |           |                   |
| NAME: GLM-SPL6060-27-F                                           | TYPE: LED | WEIGHT:           |
| SPEC.:                                                           | DIM.:     | SERIAL No.:1      |
| MFR.:                                                            | SUR.:     | PROTECTION ANGLE: |



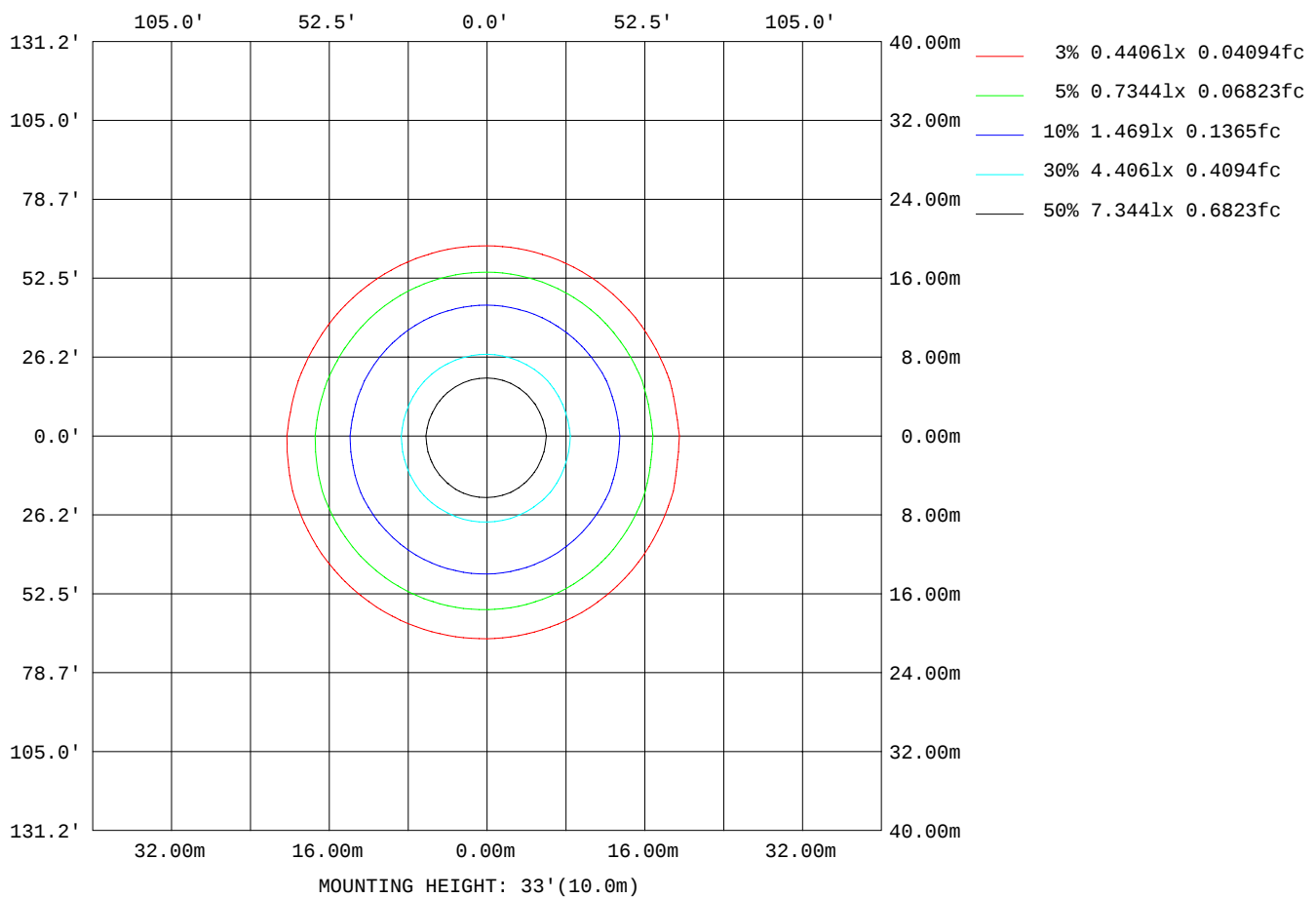
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-07-22

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:7.600m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

|                                                                  |           |                   |
|------------------------------------------------------------------|-----------|-------------------|
| Test:U:218.9V I:0.1492A P:27.08W PF:0.8288 Lamp Flux:3785.7x1 lm |           |                   |
| NAME: GLM-SPL6060-27-F                                           | TYPE: LED | WEIGHT:           |
| SPEC.:                                                           | DIM.:     | SERIAL No.:1      |
| MFR.:                                                            | SUR.:     | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2017-07-22

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.290  
Humidity: 65.0%  
Test Distance: 7.600m [K=1.0000]  
Remarks:

## LED Avg.L Report

|                                                                  |           |                   |
|------------------------------------------------------------------|-----------|-------------------|
| Test:U:218.9V I:0.1492A P:27.08W PF:0.8288 Lamp Flux:3785.7x1 lm |           |                   |
| NAME: GLM-SPL6060-27-F                                           | TYPE: LED | WEIGHT:           |
| SPEC.:                                                           | DIM.:     | SERIAL No.:1      |
| MFR.:                                                            | SUR.:     | PROTECTION ANGLE: |

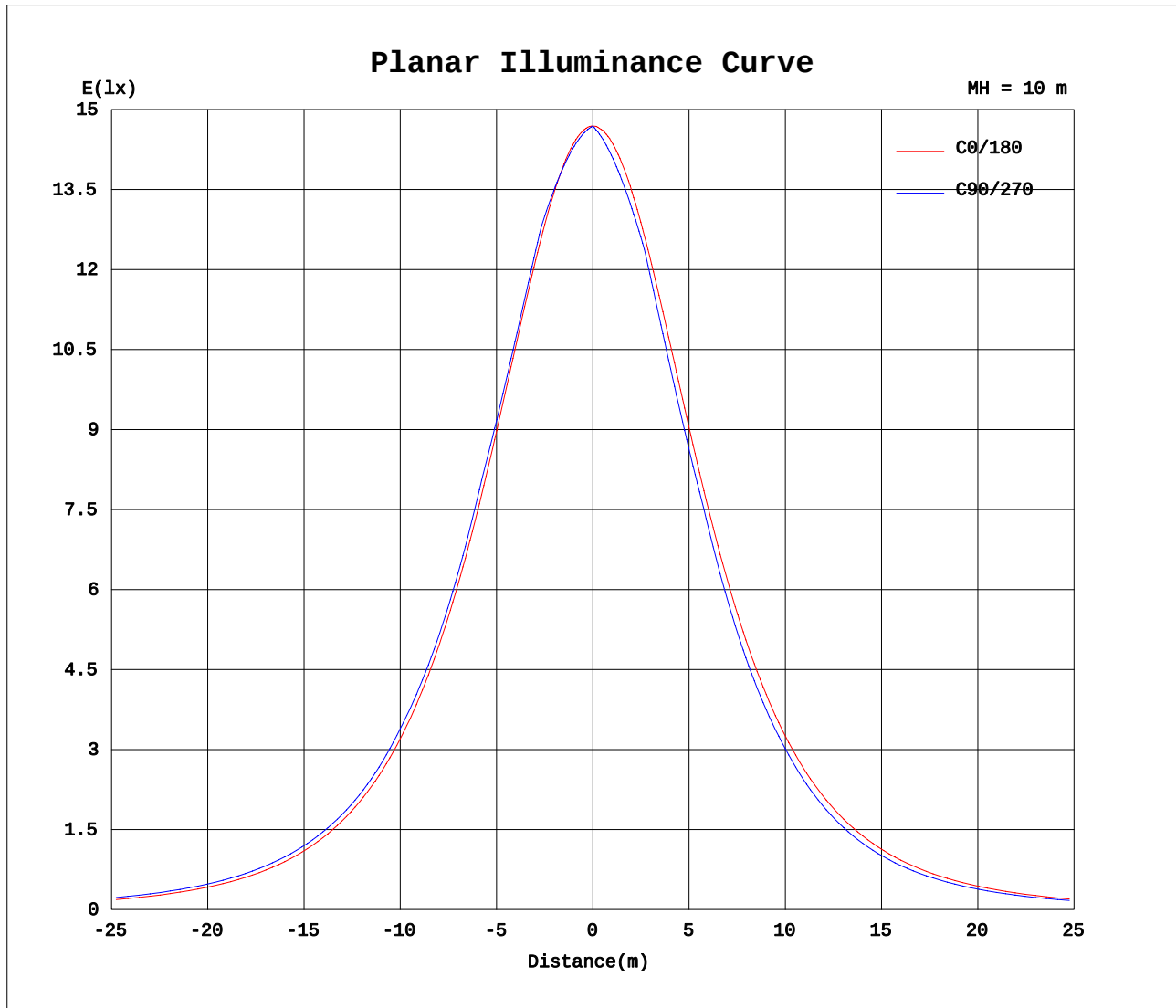
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 3436  |
| L_0~180(75)av  | 2662  |
| L_0~180(85)av  | 649   |
| L_90~270(65)av | 3469  |
| L_90~270(75)av | 2787  |
| L_90~270(85)av | 0     |
| L_45(65)av     | 3426  |
| L_45(75)av     | 2750  |
| L_45(85)av     | 0     |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-07-22

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 $\gamma$  Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:7.600m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2017-07-22

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.290  
Humidity: 65.0%  
Test Distance: 7.600m [K=1.0000]  
Remarks:







