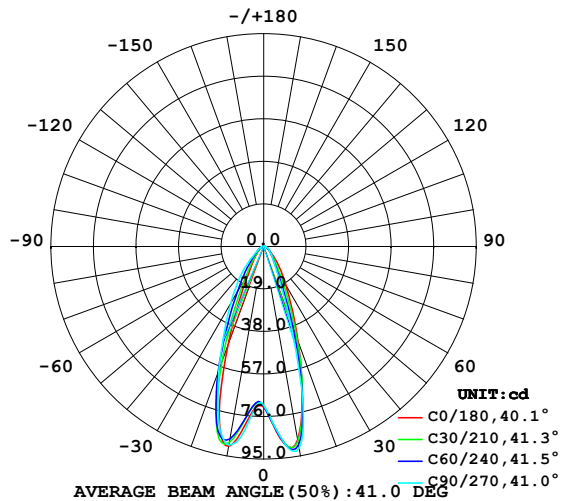


## LUMINAIRE PHOTOMETRIC TEST REPORT

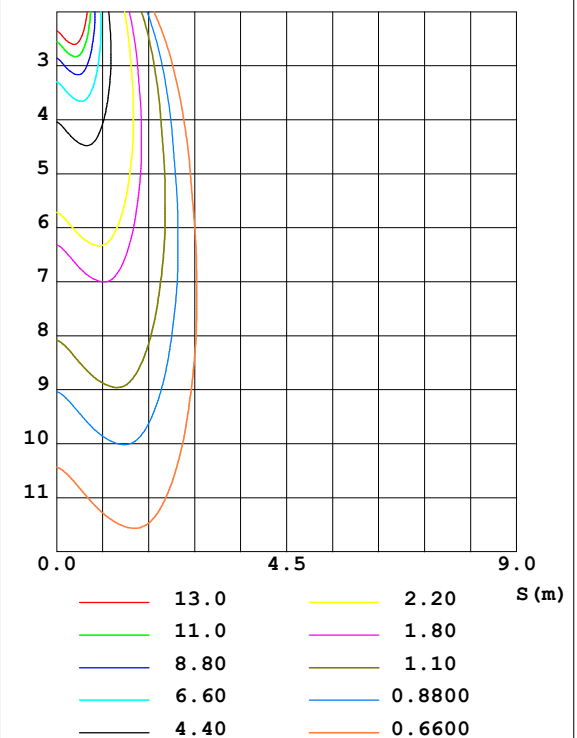
|  |               |                   |
|--|---------------|-------------------|
| Test:U:24.00V I:0.2910A P:6.980W PF:1.000 Lamp Flux:61.6758x1 lm |               |                   |
| NAME: LED Wall Grazer  | TYPE:         | WEIGHT:           |
| DIM.: 18.5MM*18.5MM  | SPEC.:        | SERIAL No.:       |
| MFR.:  | SUR.:1*0.0185 | PROTECTION ANGLE: |

| DATA OF LAMP     |         | PHOTOMETRIC DATA      |        |                   |          | Eff: 8.84 lm/W |
|------------------|---------|-----------------------|--------|-------------------|----------|----------------|
| MODEL            | 3535    | I <sub>max</sub> (cd) | 95.84  | S/MH (C0/180)     | 0.72     |                |
| NOMINAL POWER(W) | 24      | LOR(%)                | 100.0  | S/MH (C90/270)    | 0.59     |                |
| RATED VOLTAGE(V) | 24      | TOTAL FLUX(lm)        | 61.676 | η UP,DN(C0-180)   | 1.5,42.4 |                |
| NOMINAL FLUX(lm) | 61.6758 | CIE CLASS             | DIRECT | η UP,DN(C180-360) | 1.0,55.0 |                |
| LAMPS INSIDE     | 1       | η up(%)               | 2.6    | CIBSE SHR NOM     | 0.50     |                |
| TEST VOLTAGE(V)  | 24.0    | η down(%)             | 97.4   | CIBSE SHR MAX     | 0.65     |                |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



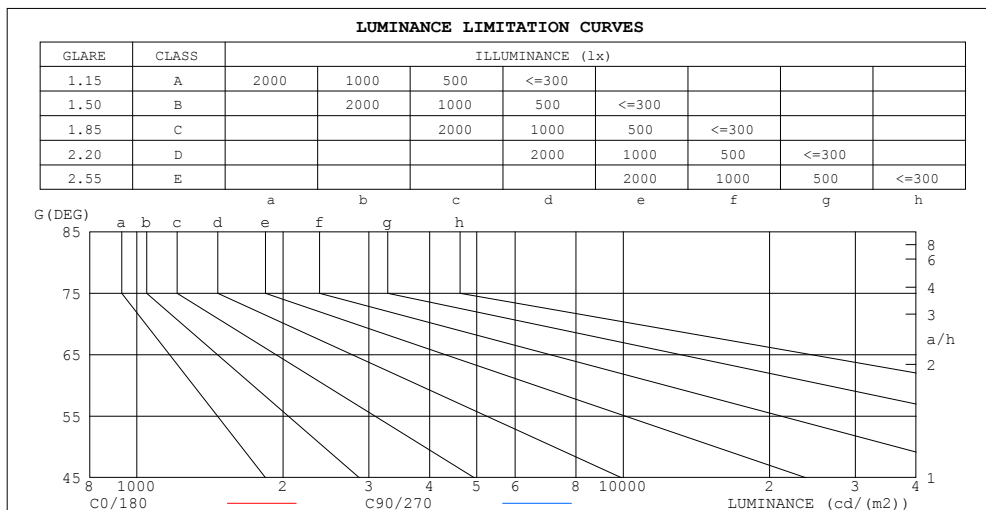
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2023-12-19

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 9.200m [K=1.0000]  
Remarks:

### ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

#### ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 87.70                 | 89.08  | 91.34  | 92.36  | 90.65  | 88.05  | 90.05  | 93.80  | 0- 10    | 8.166       | 8.166        | 13.2,13.2  |
| 20       | 45.06                 | 40.72  | 33.25  | 33.76  | 46.63  | 56.99  | 58.63  | 55.14  | 10- 20   | 19.47       | 27.64        | 44.8,44.8  |
| 30       | 19.86                 | 13.66  | 10.72  | 10.50  | 13.13  | 20.70  | 29.70  | 29.28  | 20- 30   | 13.40       | 41.04        | 66.5,66.5  |
| 40       | 9.412                 | 6.315  | 5.958  | 5.875  | 5.830  | 8.310  | 14.54  | 15.10  | 30- 40   | 8.064       | 49.10        | 79.6,79.6  |
| 50       | 4.085                 | 3.676  | 3.803  | 3.785  | 3.265  | 3.912  | 5.268  | 5.680  | 40- 50   | 4.792       | 53.90        | 87.4,87.4  |
| 60       | 2.398                 | 2.435  | 2.592  | 2.739  | 2.115  | 2.304  | 2.660  | 2.658  | 50- 60   | 2.878       | 56.77        | 92.1,92.1  |
| 70       | 1.478                 | 1.508  | 1.582  | 1.601  | 1.195  | 1.266  | 1.438  | 1.445  | 60- 70   | 1.931       | 58.71        | 95.2,95.2  |
| 80       | 0.7295                | 0.7263 | 0.7130 | 0.6887 | 0.4314 | 0.4371 | 0.5032 | 0.5451 | 70- 80   | 1.057       | 59.76        | 96.9,96.9  |
| 90       | 0.2314                | 0.2212 | 0.2262 | 0.2111 | 0.0403 | 0.0377 | 0.0402 | 0.0504 | 80- 90   | 0.3377      | 60.10        | 97.4,97.4  |
| 100      | 0.2061                | 0.2061 | 0.2262 | 0.2161 | 0.0705 | 0.0653 | 0.0502 | 0.0553 | 90-100   | 0.1442      | 60.24        | 97.7,97.7  |
| 110      | 0.1960                | 0.2086 | 0.2312 | 0.2186 | 0.1307 | 0.0880 | 0.0602 | 0.0754 | 100-110  | 0.1502      | 60.39        | 97.9,97.9  |
| 120      | 0.1960                | 0.2237 | 0.2865 | 0.2413 | 0.2061 | 0.1608 | 0.1256 | 0.1458 | 110-120  | 0.1694      | 60.56        | 98.2,98.2  |
| 130      | 0.2361                | 0.2966 | 0.3620 | 0.3267 | 0.2966 | 0.2413 | 0.2010 | 0.2262 | 120-130  | 0.2092      | 60.77        | 98.5,98.5  |
| 140      | 0.3466                | 0.3945 | 0.4424 | 0.4221 | 0.3870 | 0.3317 | 0.2864 | 0.3166 | 130-140  | 0.2480      | 61.02        | 98.9,98.9  |
| 150      | 0.4472                | 0.4825 | 0.5177 | 0.5076 | 0.4423 | 0.3971 | 0.3568 | 0.3946 | 140-150  | 0.2573      | 61.28        | 99.4,99.4  |
| 160      | 0.5125                | 0.4950 | 0.5277 | 0.5252 | 0.4674 | 0.4473 | 0.4020 | 0.4323 | 150-160  | 0.2131      | 61.49        | 99.7,99.7  |
| 170      | 0.5177                | 0.5101 | 0.5277 | 0.5252 | 0.4876 | 0.4699 | 0.4473 | 0.4548 | 160-170  | 0.1375      | 61.63        | 99.9,99.9  |
| 180      | 0.5277                | 0.5151 | 0.5378 | 0.5252 | 0.4774 | 0.5001 | 0.5076 | 0.5277 | 170-180  | 0.0473      | 61.68        | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |            |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 275    | 234     |
| 80                | 227    | 222     |
| 75                | 226    | 238     |
| 70                | 234    | 250     |
| 65                | 244    | 265     |
| 60                | 259    | 280     |
| 55                | 285    | 295     |
| 50                | 344    | 320     |
| 45                | 472    | 365     |

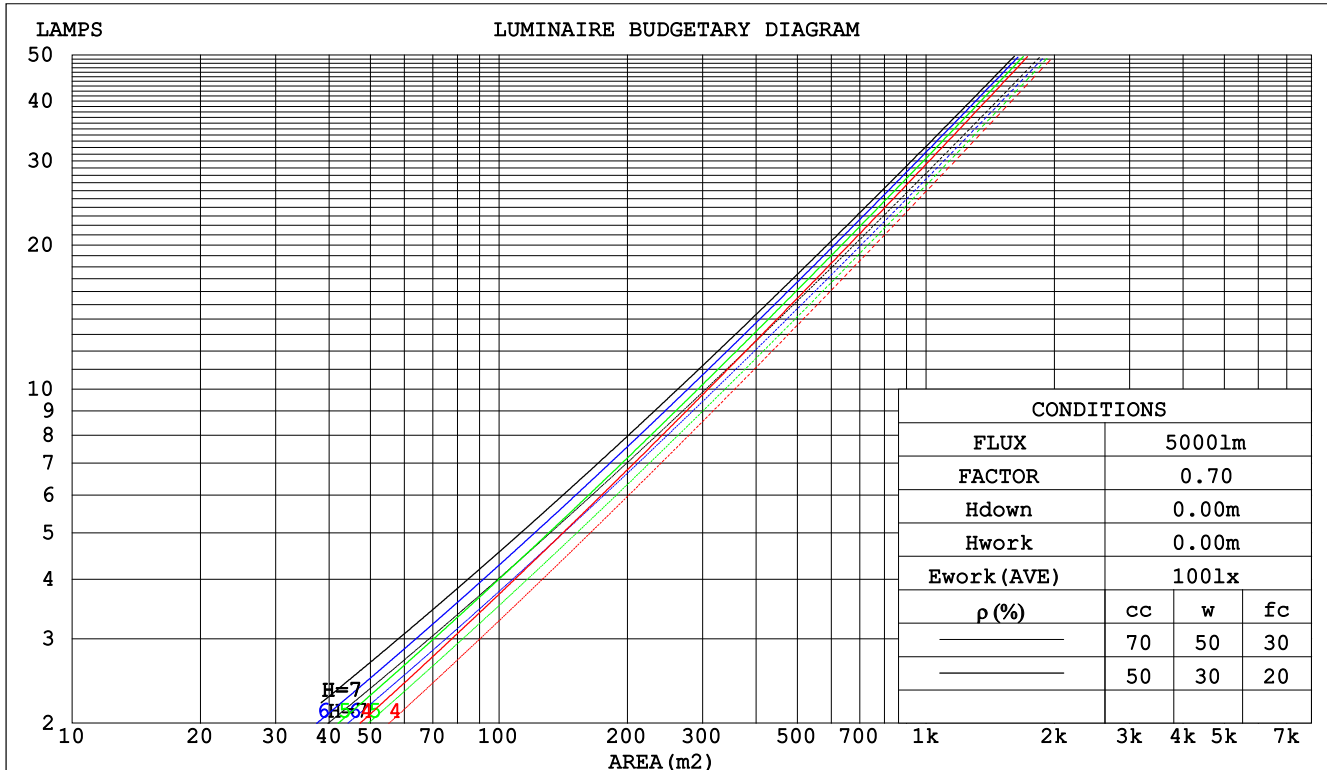
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:GO-2000B\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:9.200m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|  |               |                   |
|--|---------------|-------------------|
| Test:U:24.00V I:0.2910A P:6.980W PF:1.000 Lamp Flux:61.6758x1 lm |               |                   |
| NAME: LED Wall Grazer  | TYPE:         | WEIGHT:           |
| DIM.: 18.5MM*18.5MM  | SPEC.:        | SERIAL No.:       |
| MFR.:  | SUR.:1*0.0185 | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10% |     |     | 0   |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|-----|-----|-----|-----|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50% | 30% | 10% | 0   |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20% |     |     | 0   |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |     |     |     |     |
| 0.0  | 1.18                  | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 1.10                            | 1.10 | 1.10 | 1.04 | 1.04 | 1.04 | .00 | .00 | .00 | .97 |
| 1.0  | 1.09                  | 1.06 | 1.04 | 1.06 | 1.04 | 1.02 | 1.02                            | .00  | .98  | .98  | .96  | .95  | .94 | .93 | .92 | .90 |
| 2.0  | 1.00                  | .96  | .92  | .98  | .94  | .91  | .95                             | .91  | .89  | .91  | .89  | .86  | .88 | .86 | .84 | .82 |
| 3.0  | .93                   | .88  | .83  | .91  | .87  | .82  | .88                             | .84  | .81  | .86  | .82  | .79  | .83 | .80 | .78 | .76 |
| 4.0  | .87                   | .81  | .76  | .85  | .80  | .76  | .83                             | .78  | .74  | .81  | .77  | .73  | .78 | .75 | .72 | .71 |
| 5.0  | .81                   | .75  | .70  | .80  | .74  | .70  | .78                             | .73  | .69  | .76  | .72  | .68  | .74 | .70 | .67 | .66 |
| 6.0  | .76                   | .70  | .65  | .75  | .69  | .65  | .73                             | .68  | .64  | .72  | .67  | .64  | .70 | .66 | .63 | .62 |
| 7.0  | .72                   | .66  | .61  | .71  | .65  | .61  | .69                             | .64  | .60  | .68  | .63  | .60  | .67 | .63 | .59 | .58 |
| 8.0  | .68                   | .62  | .58  | .67  | .61  | .57  | .66                             | .61  | .57  | .65  | .60  | .57  | .63 | .59 | .56 | .55 |
| 9.0  | .64                   | .58  | .54  | .64  | .58  | .54  | .63                             | .57  | .54  | .62  | .57  | .54  | .61 | .56 | .53 | .52 |
| 10.0 | .61                   | .55  | .51  | .61  | .55  | .51  | .60                             | .55  | .51  | .59  | .54  | .51  | .58 | .54 | .51 | .49 |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-12-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:9.200m [K=1.0000]  
 Remarks:

## WEC AND CCEC

|  |  |  |               |  |                   |
|--|--|--|---------------|--|-------------------|
| Test:U:24.00V I:0.2910A P:6.980W PF:1.000 Lamp Flux:61.6758x1 lm |  |  |               |  |                   |
| NAME: LED Wall Grazer  |  |  | TYPE:         |  | WEIGHT:           |
| DIM.: 18.5MM*18.5MM  |  |  | SPEC.:        |  | SERIAL No.:       |
| MFR.:  |  |  | SUR.:1*0.0185 |  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                            |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|------|-----------------------|------|------|------|------|------|--------------------------------|------|------|------|------|------|------|------|------|---|--|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                            | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                            |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coeffcients(WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0  |                       |      |      |      |      |      |                                |      |      |      |      |      |      |      |      |   |  |
| 1.0  | .201                  | .114 | .036 | .194 | .110 | .035 | .179                           | .103 | .033 | .166 | .096 | .031 | .154 | .090 | .029 |   |  |
| 2.0  | .190                  | .104 | .032 | .183 | .101 | .031 | .171                           | .095 | .030 | .160 | .090 | .028 | .150 | .085 | .027 |   |  |
| 3.0  | .178                  | .095 | .028 | .172 | .092 | .028 | .162                           | .088 | .027 | .152 | .083 | .026 | .143 | .079 | .025 |   |  |
| 4.0  | .167                  | .087 | .026 | .162 | .085 | .025 | .153                           | .081 | .024 | .145 | .078 | .023 | .137 | .074 | .023 |   |  |
| 5.0  | .157                  | .080 | .023 | .153 | .078 | .023 | .145                           | .075 | .022 | .137 | .072 | .022 | .130 | .070 | .021 |   |  |
| 6.0  | .148                  | .074 | .021 | .144 | .073 | .021 | .137                           | .070 | .020 | .131 | .068 | .020 | .124 | .065 | .019 |   |  |
| 7.0  | .140                  | .069 | .020 | .137 | .068 | .019 | .130                           | .066 | .019 | .124 | .064 | .019 | .119 | .062 | .018 |   |  |
| 8.0  | .133                  | .065 | .018 | .130 | .064 | .018 | .124                           | .062 | .018 | .119 | .060 | .017 | .114 | .058 | .017 |   |  |
| 9.0  | .126                  | .061 | .017 | .124 | .060 | .017 | .118                           | .059 | .017 | .114 | .057 | .016 | .109 | .055 | .016 |   |  |
| 10.0 | .120                  | .058 | .016 | .118 | .057 | .016 | .113                           | .055 | .016 | .109 | .054 | .015 | .105 | .053 | .015 |   |  |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .210                  | .210 | .210 | .179 | .179 | .179 | .122                                       | .122 | .122 | .070 | .070 | .070 | .022 | .022 | .022 |   |
| 1.0  | .192                  | .177 | .163 | .165 | .152 | .140 | .113                                       | .104 | .097 | .065 | .060 | .056 | .021 | .019 | .018 |   |
| 2.0  | .178                  | .152 | .130 | .153 | .131 | .112 | .105                                       | .091 | .078 | .060 | .053 | .046 | .019 | .017 | .015 |   |
| 3.0  | .167                  | .134 | .107 | .143 | .115 | .093 | .098                                       | .080 | .065 | .057 | .047 | .038 | .018 | .015 | .013 |   |
| 4.0  | .157                  | .119 | .091 | .134 | .103 | .079 | .092                                       | .072 | .055 | .053 | .042 | .033 | .017 | .014 | .011 |   |
| 5.0  | .148                  | .108 | .078 | .127 | .093 | .068 | .087                                       | .065 | .048 | .051 | .038 | .028 | .016 | .012 | .009 |   |
| 6.0  | .140                  | .099 | .069 | .120 | .085 | .060 | .083                                       | .060 | .042 | .048 | .035 | .025 | .016 | .011 | .008 |   |
| 7.0  | .133                  | .091 | .061 | .115 | .079 | .053 | .079                                       | .055 | .038 | .046 | .033 | .023 | .015 | .011 | .007 |   |
| 8.0  | .127                  | .085 | .056 | .110 | .074 | .048 | .076                                       | .052 | .034 | .044 | .030 | .020 | .014 | .010 | .007 |   |
| 9.0  | .122                  | .080 | .051 | .105 | .069 | .045 | .073                                       | .049 | .032 | .042 | .029 | .019 | .014 | .009 | .006 |   |
| 10.0 | .117                  | .075 | .047 | .101 | .065 | .041 | .070                                       | .046 | .029 | .041 | .027 | .018 | .013 | .009 | .006 |   |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-12-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:9.200m [K=1.0000]  
 Remarks:

## Uncorrected UGR Table

|  |     |                  |     |     |               |      |                |                   |     |     |      |
|--|-----|------------------|-----|-----|---------------|------|----------------|-------------------|-----|-----|------|
| Test:U:24.00V I:0.2910A P:6.980W PF:1.000 Lamp Flux:61.6758x1 lm |     |                  |     |     |               |      |                |                   |     |     |      |
| NAME: LED Wall Grazer  |     |                  |     |     | TYPE:         |      |                | WEIGHT:           |     |     |      |
| DIM.: 18.5MM*18.5MM  |     |                  |     |     | SPEC.:        |      |                | SERIAL No.:       |     |     |      |
| MFR.:  |     |                  |     |     | SUR.:1*0.0185 |      |                | 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  |     | 5.0              | 6.0 | 5.3 | 6.2           | 6.4  | 4.6            | 5.6               | 4.8 | 5.8 | 6.0  |
| 3H   |     | 6.0              | 6.9 | 6.3 | 7.2           | 7.4  | 5.9            | 6.8               | 6.2 | 7.0 | 7.3  |
| 4H   |     | 6.5              | 7.4 | 6.8 | 7.6           | 7.9  | 6.5            | 7.3               | 6.8 | 7.6 | 7.9  |
| 6H   |     | 6.9              | 7.7 | 7.3 | 8.0           | 8.3  | 6.9            | 7.7               | 7.2 | 8.0 | 8.3  |
| 8H   |     | 7.1              | 7.9 | 7.5 | 8.2           | 8.5  | 7.1            | 7.9               | 7.4 | 8.2 | 8.5  |
| 12H  |     | 7.3              | 8.0 | 7.6 | 8.3           | 8.7  | 7.2            | 8.0               | 7.6 | 8.3 | 8.6  |
| 4H 2H  |     | 5.4              | 6.3 | 5.7 | 6.5           | 6.8  | 5.0            | 5.9               | 5.3 | 6.2 | 6.4  |
| 3H   |     | 6.6              | 7.4 | 7.0 | 7.7           | 8.0  | 6.6            | 7.3               | 6.9 | 7.6 | 8.0  |
| 4H   |     | 7.2              | 7.9 | 7.6 | 8.2           | 8.6  | 7.3            | 8.0               | 7.7 | 8.3 | 8.7  |
| 6H   |     | 7.8              | 8.4 | 8.2 | 8.8           | 9.2  | 7.9            | 8.5               | 8.3 | 8.8 | 9.2  |
| 8H   |     | 8.0              | 8.6 | 8.5 | 9.0           | 9.4  | 8.1            | 8.7               | 8.5 | 9.1 | 9.5  |
| 12H  |     | 8.3              | 8.8 | 8.7 | 9.2           | 9.7  | 8.3            | 8.8               | 8.8 | 9.2 | 9.7  |
| 8H 4H  |     | 7.4              | 8.0 | 7.9 | 8.4           | 8.8  | 7.5            | 8.1               | 7.9 | 8.5 | 8.9  |
| 6H   |     | 8.2              | 8.6 | 8.6 | 9.1           | 9.5  | 8.3            | 8.7               | 8.7 | 9.2 | 9.6  |
| 8H   |     | 8.5              | 8.9 | 9.0 | 9.4           | 9.9  | 8.6            | 9.0               | 9.1 | 9.5 | 10.0 |
| 12H  |     | 8.9              | 9.2 | 9.4 | 9.7           | 10.2 | 8.9            | 9.3               | 9.4 | 9.8 | 10.3 |
| 12H 4H   |     | 7.5              | 8.0 | 7.9 | 8.4           | 8.8  | 7.5            | 8.0               | 8.0 | 8.4 | 8.9  |
| 6H   |     | 8.2              | 8.6 | 8.7 | 9.1           | 9.6  | 8.3            | 8.7               | 8.8 | 9.2 | 9.7  |
| 8H   |     | 8.6              | 9.0 | 9.1 | 9.5           | 10.0 | 8.7            | 9.1               | 9.2 | 9.6 | 10.1 |
| Variations with the observer position at spacings:               |     |                  |     |     |               |      |                |                   |     |     |      |
| S = 1.0H   |     | + 0.6 / - 0.5    |     |     |               |      | + 0.2 / - 0.3  |                   |     |     |      |
| 1.5H   |     | + 1.1 / - 0.4    |     |     |               |      | + 0.1 / - 0.2  |                   |     |     |      |
| 2.0H   |     | + 0.9 / - 0.3    |     |     |               |      | + 0.2 / - 0.3  |                   |     |     |      |

CIE Pub.117 Corrected 61.68 lm Total Lamp Luminous Flux. (8log(F/F0) = -9.7)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-12-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:9.200m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

|  |               |                   |
|--|---------------|-------------------|
| Test:U:24.00V I:0.2910A P:6.980W PF:1.000 Lamp Flux:61.6758x1 lm |               |                   |
| NAME: LED Wall Grazer  | TYPE:         | WEIGHT:           |
| DIM.: 18.5MM*18.5MM  | SPEC.:        | SERIAL No.:       |
| MFR.:  | SUR.:1*0.0185 | PROTECTION ANGLE: |

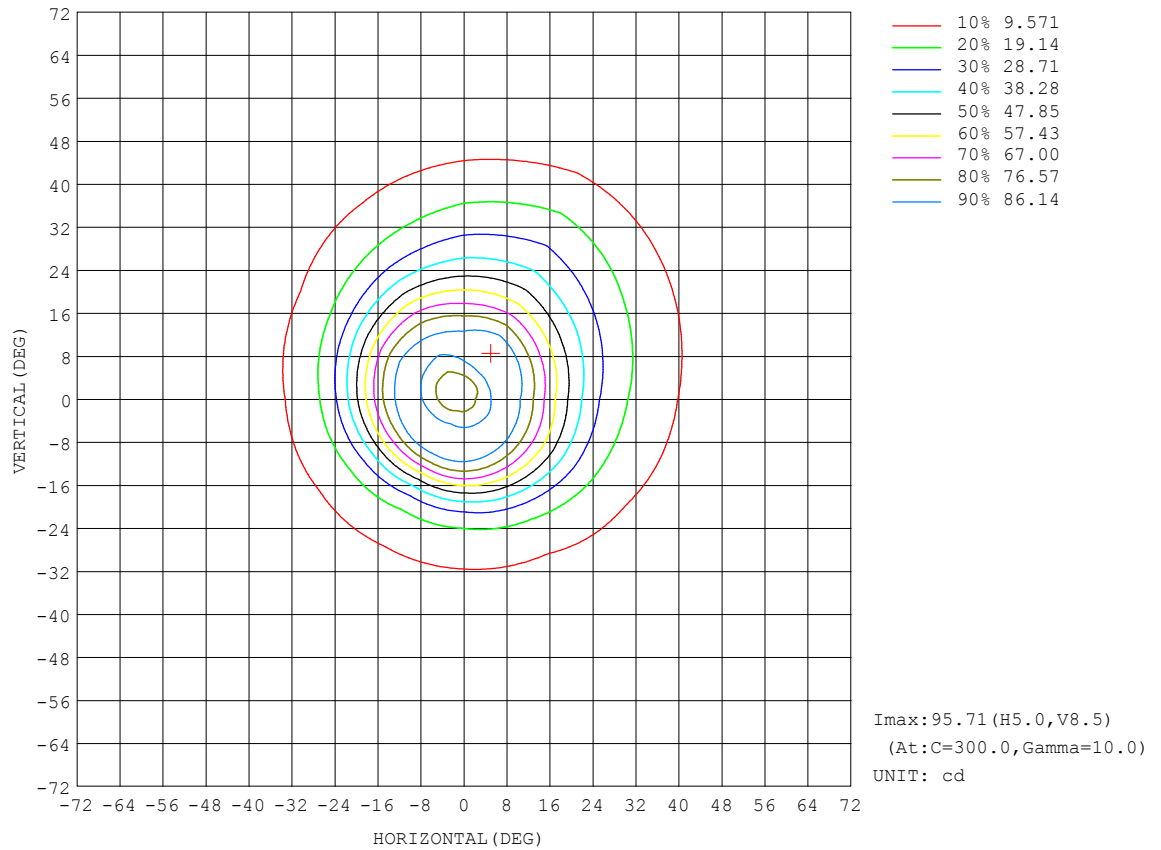
| REFLECTANCE                      |  |     |           |     |     |     |     |               |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 79   | 71  | 67        | 78  | 71  | 67  | 77  | 70            | 66  | 62     |
| 0.80                             | 87   | 80  | 75        | 86  | 79  | 75  | 85  | 78            | 74  | 70     |
| 1.00                             | 93   | 85  | 81        | 91  | 85  | 81  | 89  | 85            | 80  | 75     |
| 1.25                             | 97   | 91  | 86        | 96  | 90  | 86  | 94  | 89            | 85  | 80     |
| 1.50                             | 101  | 95  | 90        | 99  | 94  | 90  | 96  | 92            | 88  | 83     |
| 2.00                             | 104  | 99  | 95        | 103 | 98  | 94  | 99  | 95            | 92  | 86     |
| 2.50                             | 107  | 102 | 98        | 105 | 100 | 97  | 101 | 98            | 95  | 88     |
| 3.00                             | 109  | 104 | 101       | 107 | 103 | 100 | 103 | 100           | 97  | 89     |
| 4.00                             | 111  | 108 | 105       | 109 | 106 | 103 | 105 | 102           | 100 | 92     |
| 5.00                             | 113  | 110 | 107       | 110 | 108 | 105 | 106 | 104           | 102 | 93     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-12-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:9.200m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|  |               |                   |
|--|---------------|-------------------|
| Test:U:24.00V I:0.2910A P:6.980W PF:1.000 Lamp Flux:61.6758x1 lm |               |                   |
| NAME: LED Wall Grazer  | TYPE:         | WEIGHT:           |
| DIM.: 18.5MM*18.5MM  | SPEC.:        | SERIAL No.:       |
| MFR.:  | SUR.:1*0.0185 | PROTECTION ANGLE: |

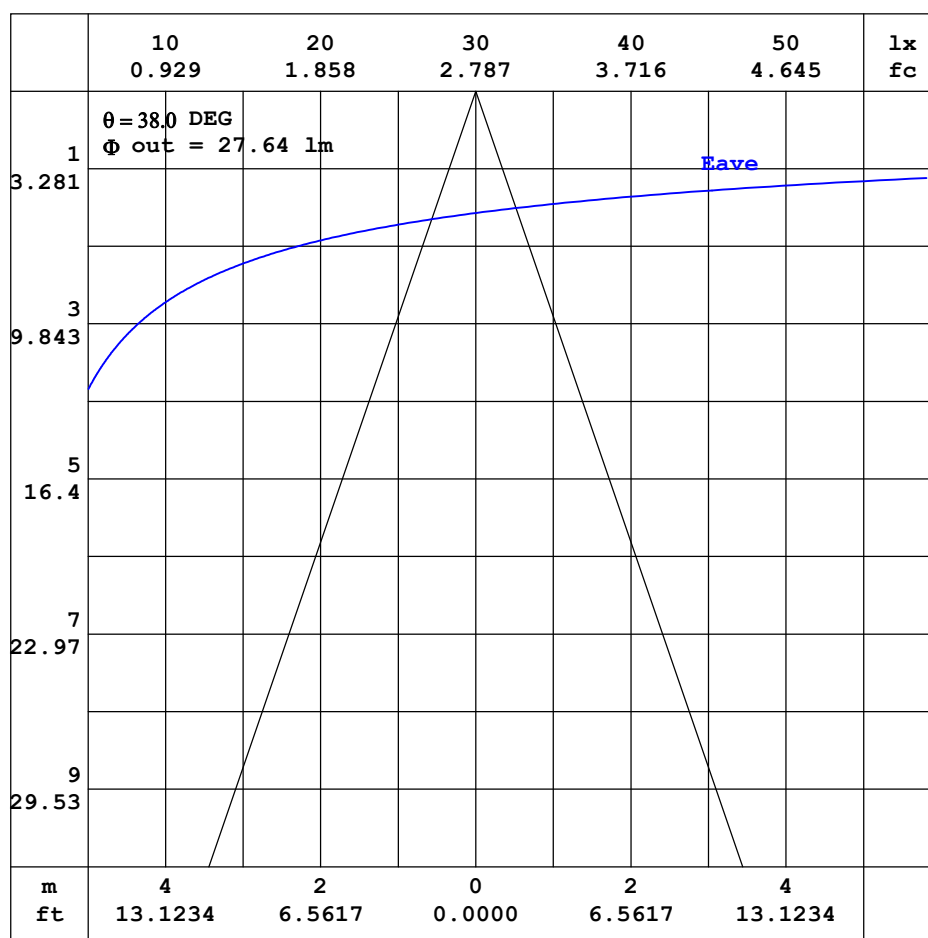


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: GO-2000B\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:9.200m [K=1.0000]  
Remarks:

## AAI CURVES

|  |               |                   |
|--|---------------|-------------------|
| Test:U:24.00V I:0.2910A P:6.980W PF:1.000 Lamp Flux:61.6758x1 lm |               |                   |
| NAME: LED Wall Grazer  | TYPE:         | WEIGHT:           |
| DIM.: 18.5MM*18.5MM  | SPEC.:        | SERIAL No.:       |
| MFR.:  | SUR.:1*0.0185 | PROTECTION ANGLE: |



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

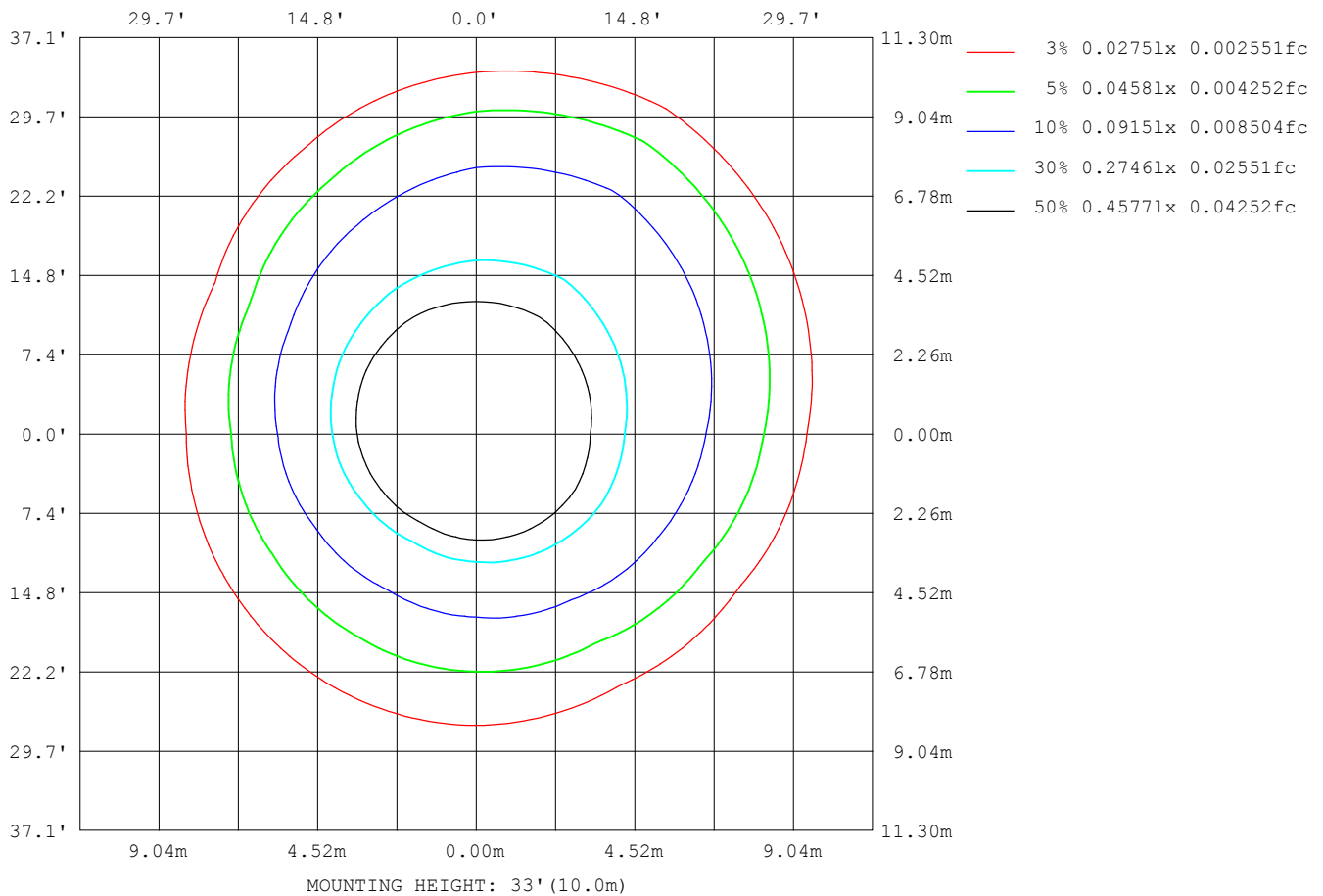
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2023-12-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 9.200m [K=1.0000]  
 Remarks:



## ISOLUX DIAGRAM

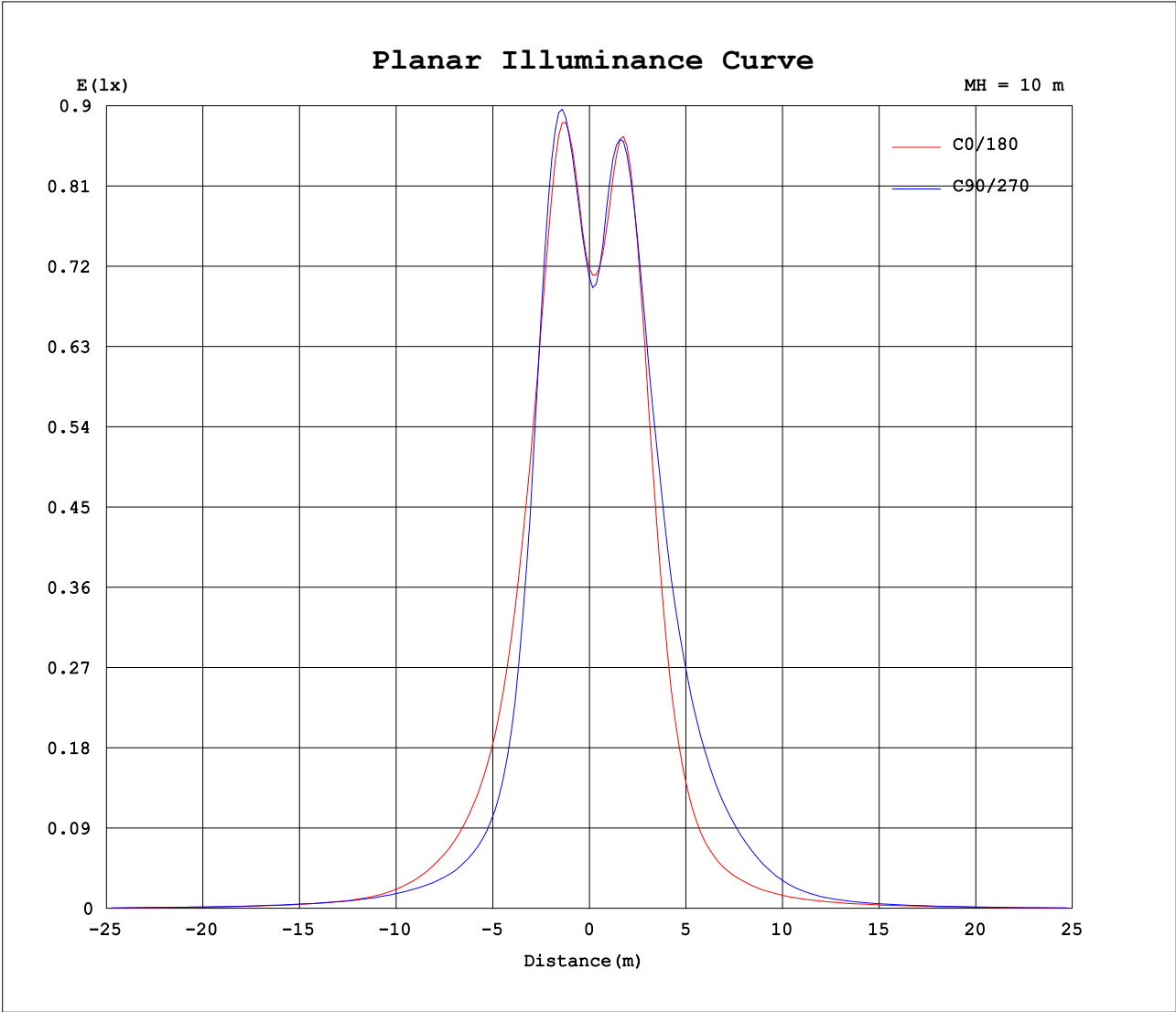
|  |               |                   |
|--|---------------|-------------------|
| Test:U:24.00V I:0.2910A P:6.980W PF:1.000 Lamp Flux:61.6758x1 lm |               |                   |
| NAME: LED Wall Grazer  | TYPE:         | WEIGHT:           |
| DIM.: 18.5MM*18.5MM  | SPEC.:        | SERIAL No.:       |
| MFR.:  | SUR.:1*0.0185 | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2023-12-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 9.200m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: GO-2000B\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:9.200m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|  |               |                   |
|--|---------------|-------------------|
| Test:U:24.00V I:0.2910A P:6.980W PF:1.000 Lamp Flux:61.6758x1 lm |               |                   |
| NAME: LED Wall Grazer  | TYPE:         | WEIGHT:           |
| DIM.: 18.5MM*18.5MM  | SPEC.:        | SERIAL No.:       |
| MFR.:  | SUR.:1*0.0185 | PROTECTION ANGLE: |

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |  |  |  |  |  |  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0                  | 71.8 | 71.3 | 71.3 | 70.9 | 71.0 | 70.9 | 71.8 | 71.3 | 71.3 | 70.9 | 71.0 | 70.9 |  |  |  |  |  |  |
| 5                  | 86.1 | 85.3 | 85.6 | 85.3 | 85.4 | 81.2 | 76.8 | 74.1 | 74.0 | 79.0 | 83.4 | 85.7 |  |  |  |  |  |  |
| 10                 | 87.7 | 88.3 | 89.8 | 91.3 | 92.3 | 92.5 | 90.6 | 88.9 | 87.2 | 90.0 | 95.8 | 91.8 |  |  |  |  |  |  |
| 15                 | 66.5 | 66.9 | 66.4 | 65.7 | 63.7 | 69.1 | 76.7 | 81.8 | 81.5 | 78.5 | 80.3 | 73.1 |  |  |  |  |  |  |
| 20                 | 45.1 | 43.3 | 38.2 | 33.3 | 30.8 | 36.7 | 46.6 | 54.6 | 59.4 | 58.6 | 58.6 | 51.7 |  |  |  |  |  |  |
| 25                 | 29.3 | 25.6 | 20.1 | 17.1 | 16.0 | 18.5 | 24.2 | 31.2 | 38.2 | 41.6 | 43.1 | 36.5 |  |  |  |  |  |  |
| 30                 | 19.9 | 15.5 | 11.8 | 10.7 | 10.1 | 10.9 | 13.1 | 17.5 | 23.9 | 29.7 | 32.3 | 26.2 |  |  |  |  |  |  |
| 35                 | 13.7 | 9.96 | 7.87 | 7.65 | 7.45 | 7.58 | 8.27 | 10.4 | 15.4 | 21.2 | 24.2 | 18.7 |  |  |  |  |  |  |
| 40                 | 9.41 | 6.78 | 5.85 | 5.96 | 5.90 | 5.85 | 5.83 | 6.66 | 9.96 | 14.5 | 17.1 | 13.1 |  |  |  |  |  |  |
| 45                 | 6.18 | 4.86 | 4.58 | 4.78 | 4.76 | 4.49 | 4.24 | 4.61 | 6.44 | 8.93 | 10.8 | 8.50 |  |  |  |  |  |  |
| 50                 | 4.08 | 3.69 | 3.67 | 3.80 | 3.94 | 3.63 | 3.27 | 3.46 | 4.36 | 5.27 | 6.15 | 5.21 |  |  |  |  |  |  |
| 55                 | 3.02 | 2.92 | 3.03 | 3.13 | 3.40 | 3.10 | 2.62 | 2.74 | 3.19 | 3.54 | 3.82 | 3.40 |  |  |  |  |  |  |
| 60                 | 2.40 | 2.37 | 2.50 | 2.59 | 2.89 | 2.59 | 2.11 | 2.17 | 2.44 | 2.66 | 2.78 | 2.54 |  |  |  |  |  |  |
| 65                 | 1.91 | 1.88 | 2.01 | 2.07 | 2.28 | 2.05 | 1.63 | 1.67 | 1.82 | 1.99 | 2.06 | 1.92 |  |  |  |  |  |  |
| 70                 | 1.48 | 1.45 | 1.57 | 1.58 | 1.68 | 1.52 | 1.20 | 1.23 | 1.31 | 1.44 | 1.48 | 1.41 |  |  |  |  |  |  |
| 75                 | 1.08 | 1.05 | 1.14 | 1.14 | 1.18 | 1.04 | 0.78 | 0.81 | 0.83 | 0.95 | 0.97 | 0.95 |  |  |  |  |  |  |
| 80                 | 0.73 | 0.69 | 0.76 | 0.71 | 0.73 | 0.64 | 0.43 | 0.45 | 0.43 | 0.50 | 0.53 | 0.56 |  |  |  |  |  |  |
| 85                 | 0.44 | 0.41 | 0.45 | 0.38 | 0.40 | 0.33 | 0.13 | 0.16 | 0.12 | 0.18 | 0.19 | 0.26 |  |  |  |  |  |  |
| 90                 | 0.23 | 0.21 | 0.24 | 0.23 | 0.23 | 0.20 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.06 |  |  |  |  |  |  |
| 95                 | 0.22 | 0.20 | 0.21 | 0.23 | 0.22 | 0.21 | 0.06 | 0.04 | 0.06 | 0.04 | 0.06 | 0.05 |  |  |  |  |  |  |
| 100                | 0.21 | 0.20 | 0.21 | 0.23 | 0.22 | 0.21 | 0.07 | 0.06 | 0.07 | 0.05 | 0.07 | 0.05 |  |  |  |  |  |  |
| 105                | 0.20 | 0.20 | 0.21 | 0.23 | 0.22 | 0.21 | 0.10 | 0.06 | 0.10 | 0.05 | 0.09 | 0.05 |  |  |  |  |  |  |
| 110                | 0.20 | 0.21 | 0.21 | 0.23 | 0.22 | 0.22 | 0.13 | 0.06 | 0.12 | 0.06 | 0.10 | 0.05 |  |  |  |  |  |  |
| 115                | 0.20 | 0.22 | 0.21 | 0.26 | 0.22 | 0.24 | 0.16 | 0.11 | 0.15 | 0.08 | 0.13 | 0.08 |  |  |  |  |  |  |
| 120                | 0.20 | 0.24 | 0.21 | 0.29 | 0.23 | 0.26 | 0.21 | 0.14 | 0.19 | 0.13 | 0.17 | 0.12 |  |  |  |  |  |  |
| 125                | 0.21 | 0.27 | 0.24 | 0.32 | 0.29 | 0.31 | 0.25 | 0.19 | 0.23 | 0.15 | 0.21 | 0.16 |  |  |  |  |  |  |
| 130                | 0.24 | 0.31 | 0.29 | 0.36 | 0.31 | 0.35 | 0.30 | 0.22 | 0.26 | 0.20 | 0.26 | 0.20 |  |  |  |  |  |  |
| 135                | 0.28 | 0.36 | 0.33 | 0.41 | 0.36 | 0.40 | 0.34 | 0.29 | 0.31 | 0.25 | 0.30 | 0.26 |  |  |  |  |  |  |
| 140                | 0.35 | 0.41 | 0.38 | 0.44 | 0.40 | 0.45 | 0.39 | 0.31 | 0.36 | 0.29 | 0.34 | 0.29 |  |  |  |  |  |  |
| 145                | 0.39 | 0.46 | 0.44 | 0.49 | 0.44 | 0.50 | 0.40 | 0.35 | 0.40 | 0.33 | 0.38 | 0.37 |  |  |  |  |  |  |
| 150                | 0.45 | 0.51 | 0.46 | 0.52 | 0.48 | 0.54 | 0.44 | 0.37 | 0.42 | 0.36 | 0.42 | 0.37 |  |  |  |  |  |  |
| 155                | 0.47 | 0.51 | 0.48 | 0.53 | 0.50 | 0.53 | 0.46 | 0.40 | 0.45 | 0.39 | 0.44 | 0.39 |  |  |  |  |  |  |
| 160                | 0.51 | 0.51 | 0.48 | 0.53 | 0.52 | 0.53 | 0.47 | 0.43 | 0.47 | 0.40 | 0.45 | 0.41 |  |  |  |  |  |  |
| 165                | 0.52 | 0.51 | 0.50 | 0.53 | 0.52 | 0.53 | 0.48 | 0.44 | 0.48 | 0.44 | 0.46 | 0.44 |  |  |  |  |  |  |
| 170                | 0.52 | 0.51 | 0.51 | 0.53 | 0.52 | 0.53 | 0.49 | 0.45 | 0.49 | 0.45 | 0.46 | 0.45 |  |  |  |  |  |  |
| 175                | 0.52 | 0.51 | 0.51 | 0.53 | 0.52 | 0.53 | 0.49 | 0.46 | 0.52 | 0.46 | 0.47 | 0.45 |  |  |  |  |  |  |
| 180                | 0.53 | 0.51 | 0.52 | 0.54 | 0.53 | 0.52 | 0.48 | 0.48 | 0.52 | 0.51 | 0.52 | 0.53 |  |  |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-19

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:GO-2000B\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:9.200m [K=1.0000]  
Remarks:

## Photometric Data Table [cd]

| G/C   | 0.0    | 30.0   | 60.0   | 90.0   | 120.0  | 150.0  | 180.0  | 210.0  | 240.0  | 270.0  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0   | 71.83  | 71.33  | 71.29  | 70.91  | 70.98  | 70.87  | 71.83  | 71.33  | 71.29  | 70.91  |
| 3.0   | 79.65  | 79.06  | 79.38  | 78.86  | 78.34  | 74.86  | 72.20  | 70.24  | 70.00  | 71.99  |
| 6.0   | 88.43  | 88.04  | 88.46  | 88.22  | 88.90  | 84.99  | 80.06  | 77.03  | 76.89  | 82.80  |
| 9.0   | 89.95  | 90.35  | 91.48  | 92.63  | 93.89  | 92.84  | 89.51  | 86.69  | 85.30  | 89.52  |
| 12.0  | 80.39  | 81.19  | 82.93  | 84.60  | 84.43  | 87.16  | 88.72  | 89.78  | 88.02  | 87.64  |
| 15.0  | 66.53  | 66.92  | 66.35  | 65.69  | 63.69  | 69.10  | 76.74  | 81.75  | 81.53  | 78.55  |
| 18.0  | 53.19  | 52.80  | 48.71  | 44.37  | 41.90  | 49.08  | 58.61  | 66.56  | 68.76  | 66.09  |
| 21.0  | 41.34  | 39.11  | 33.62  | 28.53  | 26.46  | 31.83  | 41.09  | 49.15  | 54.62  | 54.63  |
| 24.0  | 32.03  | 28.53  | 22.76  | 19.25  | 17.91  | 21.21  | 27.60  | 35.43  | 41.93  | 44.37  |
| 27.0  | 24.87  | 20.92  | 15.93  | 13.87  | 13.04  | 14.63  | 18.65  | 24.39  | 31.57  | 36.34  |
| 30.0  | 19.86  | 15.53  | 11.79  | 10.72  | 10.14  | 10.85  | 13.13  | 17.49  | 23.91  | 29.70  |
| 33.0  | 15.89  | 11.89  | 9.090  | 8.685  | 8.354  | 8.580  | 9.786  | 12.61  | 18.42  | 24.17  |
| 36.0  | 12.71  | 9.201  | 7.368  | 7.239  | 7.085  | 7.194  | 7.653  | 9.416  | 14.11  | 19.72  |
| 39.0  | 10.17  | 7.327  | 6.166  | 6.219  | 6.180  | 6.159  | 6.242  | 7.203  | 10.86  | 15.75  |
| 42.0  | 7.979  | 5.932  | 5.285  | 5.466  | 5.396  | 5.240  | 5.118  | 5.698  | 8.326  | 12.11  |
| 45.0  | 6.178  | 4.857  | 4.581  | 4.778  | 4.757  | 4.491  | 4.244  | 4.606  | 6.437  | 8.934  |
| 48.0  | 4.768  | 4.084  | 4.002  | 4.140  | 4.208  | 3.919  | 3.601  | 3.846  | 5.052  | 6.468  |
| 51.0  | 3.803  | 3.501  | 3.525  | 3.647  | 3.821  | 3.507  | 3.124  | 3.298  | 4.078  | 4.794  |
| 54.0  | 3.178  | 3.050  | 3.147  | 3.251  | 3.499  | 3.176  | 2.733  | 2.871  | 3.385  | 3.797  |
| 57.0  | 2.750  | 2.683  | 2.816  | 2.919  | 3.202  | 2.889  | 2.416  | 2.504  | 2.858  | 3.148  |
| 60.0  | 2.398  | 2.366  | 2.504  | 2.592  | 2.886  | 2.592  | 2.115  | 2.167  | 2.441  | 2.660  |
| 63.0  | 2.097  | 2.065  | 2.213  | 2.276  | 2.539  | 2.266  | 1.823  | 1.870  | 2.054  | 2.258  |
| 66.0  | 1.815  | 1.783  | 1.921  | 1.969  | 2.157  | 1.944  | 1.552  | 1.584  | 1.713  | 1.866  |
| 69.0  | 1.564  | 1.517  | 1.644  | 1.678  | 1.795  | 1.617  | 1.281  | 1.322  | 1.396  | 1.549  |
| 72.0  | 1.313  | 1.276  | 1.393  | 1.411  | 1.474  | 1.321  | 1.019  | 1.051  | 1.105  | 1.227  |
| 75.0  | 1.081  | 1.050  | 1.142  | 1.140  | 1.177  | 1.045  | 0.7782 | 0.8099 | 0.8334 | 0.9458 |
| 78.0  | 0.8652 | 0.8288 | 0.9005 | 0.8838 | 0.9006 | 0.7885 | 0.5572 | 0.5836 | 0.5871 | 0.6742 |
| 81.0  | 0.6641 | 0.6278 | 0.6942 | 0.6377 | 0.6592 | 0.5823 | 0.3561 | 0.3874 | 0.3510 | 0.4278 |
| 84.0  | 0.4982 | 0.4569 | 0.5083 | 0.4416 | 0.4582 | 0.3865 | 0.1853 | 0.2116 | 0.1603 | 0.2217 |
| 87.0  | 0.3373 | 0.3062 | 0.3524 | 0.2861 | 0.2971 | 0.2210 | 0.0352 | 0.0708 | 0.0502 | 0.0858 |
| 90.0  | 0.2314 | 0.2060 | 0.2364 | 0.2262 | 0.2262 | 0.1960 | 0.0403 | 0.0352 | 0.0403 | 0.0402 |
| 93.0  | 0.2161 | 0.1960 | 0.2211 | 0.2262 | 0.2211 | 0.1961 | 0.0553 | 0.0352 | 0.0504 | 0.0402 |
| 96.0  | 0.2111 | 0.2060 | 0.2111 | 0.2262 | 0.2211 | 0.2061 | 0.0553 | 0.0352 | 0.0604 | 0.0402 |
| 99.0  | 0.2062 | 0.2010 | 0.2111 | 0.2262 | 0.2211 | 0.2111 | 0.0704 | 0.0603 | 0.0753 | 0.0452 |
| 102.0 | 0.1961 | 0.2010 | 0.2111 | 0.2262 | 0.2211 | 0.2111 | 0.0854 | 0.0603 | 0.0705 | 0.0503 |
| 105.0 | 0.1960 | 0.2010 | 0.2111 | 0.2262 | 0.2161 | 0.2111 | 0.0955 | 0.0603 | 0.0955 | 0.0503 |
| 108.0 | 0.1960 | 0.2110 | 0.2111 | 0.2312 | 0.2161 | 0.2111 | 0.1157 | 0.0603 | 0.1106 | 0.0503 |
| 111.0 | 0.1960 | 0.2061 | 0.2111 | 0.2312 | 0.2161 | 0.2211 | 0.1308 | 0.0653 | 0.1207 | 0.0603 |
| 114.0 | 0.1960 | 0.2161 | 0.2111 | 0.2563 | 0.2161 | 0.2362 | 0.1608 | 0.0854 | 0.1359 | 0.0704 |
| 117.0 | 0.1960 | 0.2212 | 0.2111 | 0.2614 | 0.2161 | 0.2464 | 0.1810 | 0.1156 | 0.1609 | 0.1105 |
| 120.0 | 0.1960 | 0.2363 | 0.2111 | 0.2865 | 0.2261 | 0.2564 | 0.2061 | 0.1356 | 0.1860 | 0.1256 |
| 123.0 | 0.2061 | 0.2564 | 0.2210 | 0.3016 | 0.2611 | 0.2865 | 0.2313 | 0.1607 | 0.1962 | 0.1356 |
| 126.0 | 0.2061 | 0.2814 | 0.2462 | 0.3268 | 0.2914 | 0.3166 | 0.2614 | 0.2009 | 0.2313 | 0.1607 |
| 129.0 | 0.2261 | 0.3016 | 0.2814 | 0.3519 | 0.2965 | 0.3368 | 0.2866 | 0.2110 | 0.2514 | 0.2010 |
| 132.0 | 0.2710 | 0.3367 | 0.3014 | 0.3820 | 0.3316 | 0.3620 | 0.3166 | 0.2412 | 0.2815 | 0.2160 |
| 135.0 | 0.2814 | 0.3619 | 0.3266 | 0.4071 | 0.3569 | 0.3971 | 0.3419 | 0.2864 | 0.3116 | 0.2461 |
| 138.0 | 0.3115 | 0.3921 | 0.3619 | 0.4322 | 0.3819 | 0.4272 | 0.3720 | 0.2915 | 0.3418 | 0.2764 |
| 141.0 | 0.3617 | 0.4273 | 0.3869 | 0.4574 | 0.4219 | 0.4474 | 0.3921 | 0.3215 | 0.3670 | 0.2914 |
| 144.0 | 0.3818 | 0.4524 | 0.4420 | 0.4825 | 0.4372 | 0.4826 | 0.4021 | 0.3517 | 0.3821 | 0.3165 |
| 147.0 | 0.4269 | 0.4826 | 0.4473 | 0.5027 | 0.4523 | 0.5077 | 0.4322 | 0.3618 | 0.4071 | 0.3568 |
| 150.0 | 0.4472 | 0.5076 | 0.4573 | 0.5177 | 0.4774 | 0.5377 | 0.4423 | 0.3719 | 0.4222 | 0.3568 |
| 153.0 | 0.4673 | 0.5126 | 0.4675 | 0.5277 | 0.4924 | 0.5327 | 0.4474 | 0.3869 | 0.4373 | 0.3769 |
| 156.0 | 0.4824 | 0.5126 | 0.4725 | 0.5277 | 0.5075 | 0.5327 | 0.4574 | 0.4020 | 0.4473 | 0.3870 |
| 159.0 | 0.5026 | 0.5126 | 0.4775 | 0.5277 | 0.5276 | 0.5377 | 0.4624 | 0.4171 | 0.4624 | 0.3970 |
| 162.0 | 0.5177 | 0.5126 | 0.4824 | 0.5277 | 0.5227 | 0.5277 | 0.4724 | 0.4322 | 0.4774 | 0.4021 |
| 165.0 | 0.5177 | 0.5126 | 0.5025 | 0.5277 | 0.5227 | 0.5277 | 0.4775 | 0.4372 | 0.4775 | 0.4371 |
| 168.0 | 0.5177 | 0.5126 | 0.5076 | 0.5277 | 0.5227 | 0.5277 | 0.4825 | 0.4473 | 0.4876 | 0.4473 |
| 171.0 | 0.5177 | 0.5126 | 0.5076 | 0.5277 | 0.5227 | 0.5277 | 0.4925 | 0.4473 | 0.4975 | 0.4473 |
| 174.0 | 0.5177 | 0.5126 | 0.5076 | 0.5277 | 0.5227 | 0.5277 | 0.4925 | 0.4573 | 0.4978 | 0.4523 |
| 177.0 | 0.5177 | 0.5126 | 0.5076 | 0.5277 | 0.5227 | 0.5426 | 0.4925 | 0.4573 | 0.5177 | 0.4825 |
| 180.0 | 0.5277 | 0.5126 | 0.5177 | 0.5378 | 0.5327 | 0.5177 | 0.4774 | 0.4825 | 0.5177 | 0.5076 |
| G/C   | 300.0  | 330.0  |        |        |        |        |        |        |        |        |
| 0.0   | 70.98  | 70.87  |        |        |        |        |        |        |        |        |
| 3.0   | 74.30  | 76.82  |        |        |        |        |        |        |        |        |
| 6.0   | 87.80  | 89.03  |        |        |        |        |        |        |        |        |
| 9.0   | 95.47  | 92.97  |        |        |        |        |        |        |        |        |
| 12.0  | 91.98  | 85.98  |        |        |        |        |        |        |        |        |
| 15.0  | 80.26  | 73.07  |        |        |        |        |        |        |        |        |
| 18.0  | 66.55  | 60.18  |        |        |        |        |        |        |        |        |
| 21.0  | 54.96  | 48.03  |        |        |        |        |        |        |        |        |
| 24.0  | 45.76  | 39.31  |        |        |        |        |        |        |        |        |
| 27.0  | 38.34  | 31.79  |        |        |        |        |        |        |        |        |
| 30.0  | 32.32  | 26.23  |        |        |        |        |        |        |        |        |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2023-12-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 9.200m [K=1.0000]  
 Remarks:

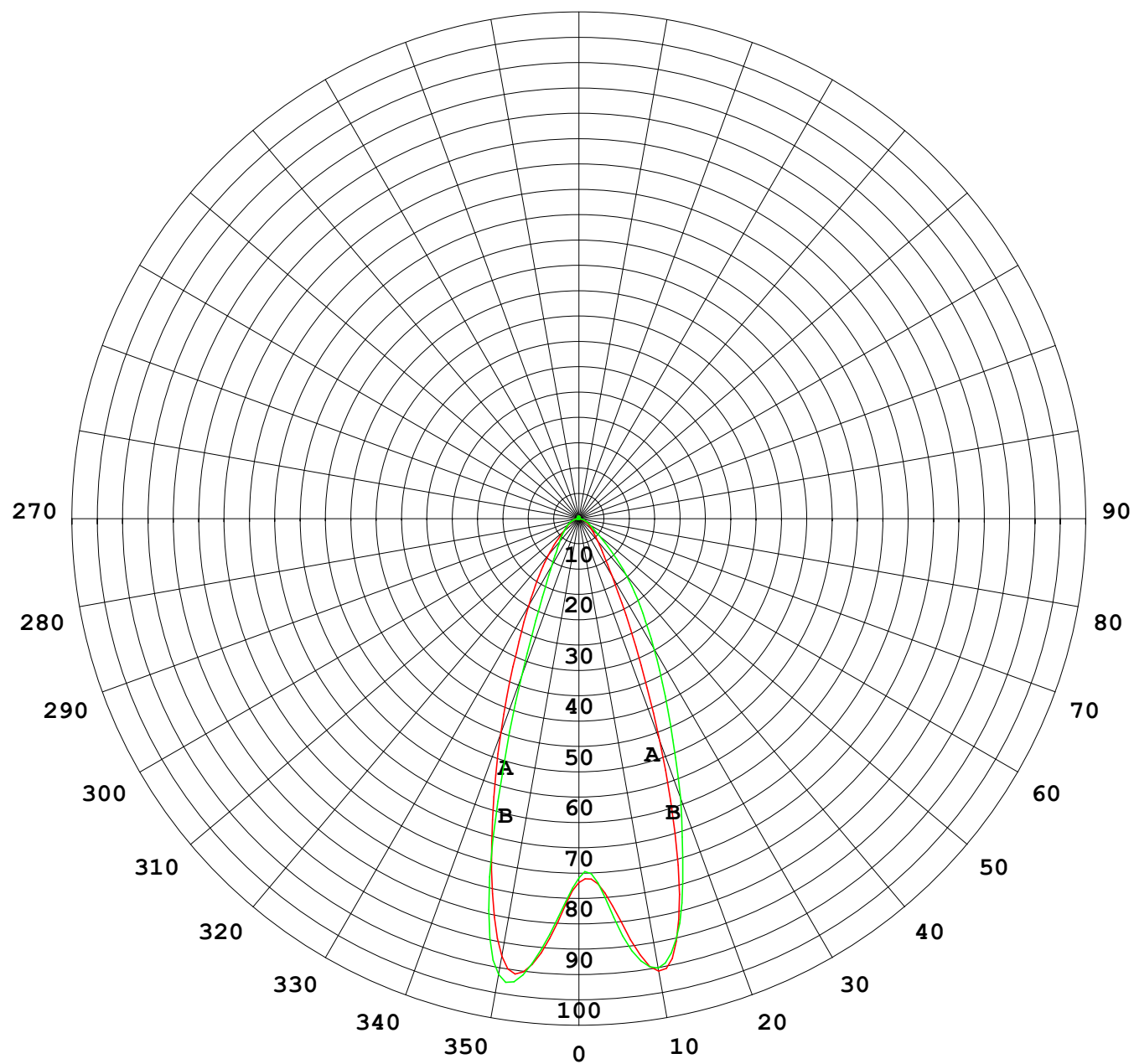
**Photometric Data Table [cd]**

|       |        |        |
|-------|--------|--------|
| 33.0  | 27.32  | 21.31  |
| 36.0  | 22.65  | 17.58  |
| 39.0  | 18.43  | 14.15  |
| 42.0  | 14.55  | 11.21  |
| 45.0  | 10.81  | 8.495  |
| 48.0  | 7.745  | 6.307  |
| 51.0  | 5.506  | 4.704  |
| 54.0  | 4.123  | 3.656  |
| 57.0  | 3.335  | 2.982  |
| 60.0  | 2.777  | 2.539  |
| 63.0  | 2.330  | 2.142  |
| 66.0  | 1.954  | 1.800  |
| 69.0  | 1.582  | 1.513  |
| 72.0  | 1.265  | 1.217  |
| 75.0  | 0.9740 | 0.9507 |
| 78.0  | 0.6927 | 0.7142 |
| 81.0  | 0.4514 | 0.4981 |
| 84.0  | 0.2406 | 0.3072 |
| 87.0  | 0.0801 | 0.1562 |
| 90.0  | 0.0453 | 0.0554 |
| 93.0  | 0.0503 | 0.0452 |
| 96.0  | 0.0553 | 0.0452 |
| 99.0  | 0.0653 | 0.0452 |
| 102.0 | 0.0704 | 0.0502 |
| 105.0 | 0.0854 | 0.0503 |
| 108.0 | 0.0955 | 0.0503 |
| 111.0 | 0.1106 | 0.0503 |
| 114.0 | 0.1207 | 0.0653 |
| 117.0 | 0.1458 | 0.1005 |
| 120.0 | 0.1710 | 0.1206 |
| 123.0 | 0.1911 | 0.1406 |
| 126.0 | 0.2162 | 0.1608 |
| 129.0 | 0.2464 | 0.1960 |
| 132.0 | 0.2714 | 0.2210 |
| 135.0 | 0.2966 | 0.2561 |
| 138.0 | 0.3218 | 0.2814 |
| 141.0 | 0.3470 | 0.3014 |
| 144.0 | 0.3720 | 0.3618 |
| 147.0 | 0.3922 | 0.3719 |
| 150.0 | 0.4172 | 0.3719 |
| 153.0 | 0.4323 | 0.3719 |
| 156.0 | 0.4473 | 0.3920 |
| 159.0 | 0.4523 | 0.4120 |
| 162.0 | 0.4573 | 0.4221 |
| 165.0 | 0.4573 | 0.4372 |
| 168.0 | 0.4573 | 0.4523 |
| 171.0 | 0.4573 | 0.4523 |
| 174.0 | 0.4575 | 0.4523 |
| 177.0 | 0.5227 | 0.4674 |
| 180.0 | 0.5227 | 0.5327 |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-19

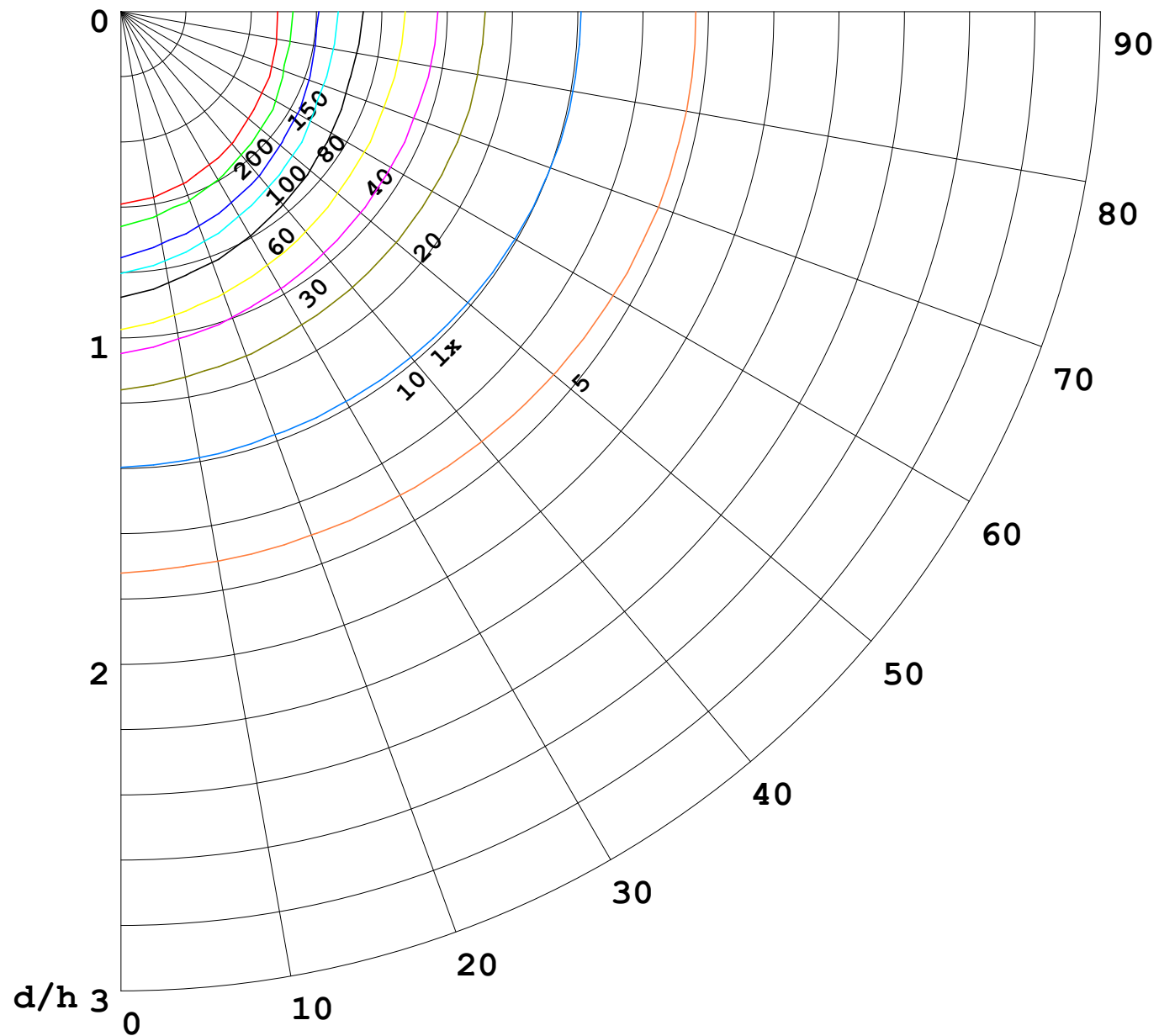
γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: GO-2000B\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:9.200m [K=1.0000]  
Remarks:

I (cd)



1000 lm

$\kappa = 1$



F = 5000 lm  
 K = 0.7  
 Hcc = 0.0 m  
 Hfc = 0.0 m  
 Eave = 100 lx

|   | Pcc | Pw | Pfc |
|---|-----|----|-----|
| — | 70  | 50 | 30  |
| — | 50  | 30 | 20  |

