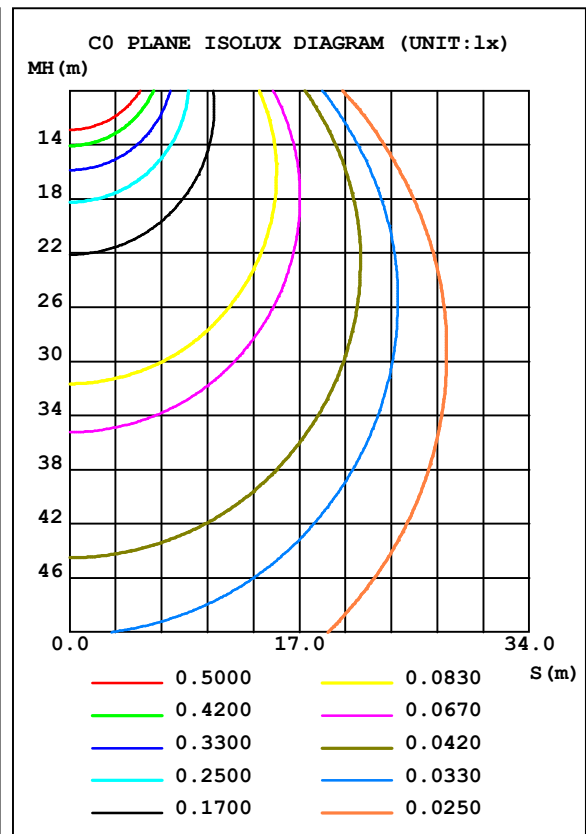
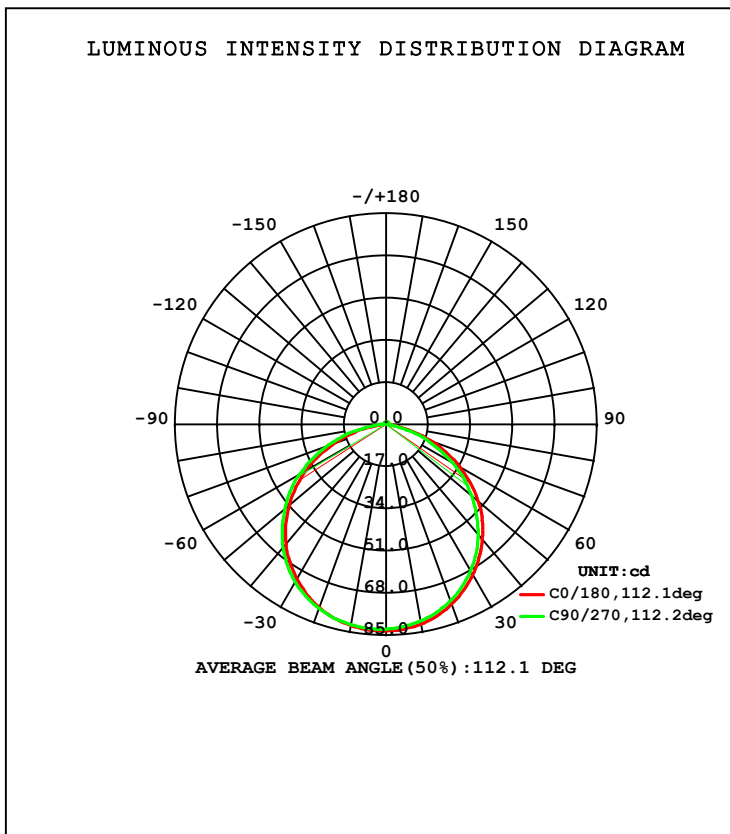


LUMINAIRE PHOTOMETRIC TEST REPORT

|                         |             |                      |
|-------------------------|-------------|----------------------|
| NAME: GU10 玻璃灯杯 3W WW-1 | TYPE:       | WEIGHT:              |
| DIM.:                   | SPEC.:      | SERIAL No.:          |
| MFR.: MK                | SUR.:0.6325 | PROTECTION ANGLE:135 |

| DATA OF LAMP      |         | PHOTOMETRIC DATA Eff: 77.11 lm/W |        |                     |           |
|-------------------|---------|----------------------------------|--------|---------------------|-----------|
| MODEL             |         | I <sub>max</sub> (cd)            | 83.23  | S/MH (C0/180)       | 1.25      |
| NOMINAL POWER (W) | 3       | LOR (%)                          | 100.9  | S/MH (C90/270)      | 1.24      |
| RATED VOLTAGE (V) | 230     | TOTAL FLUX (lm)                  | 236.07 | η UP, DN (C0-180)   | 1.1, 46.4 |
| NOMINAL FLUX (lm) | 233.891 | CIE CLASS                        | DIRECT | η UP, DN (C180-360) | 1.0, 52.4 |
| LAMPS INSIDE      | 1       | η up (%)                         | 2.1    | CIBSE SHR NOM       | 1.25      |
| TEST VOLTAGE (V)  | 230.2   | η down (%)                       | 98.8   | CIBSE SHR MAX       | 1.35      |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: gg  
 Test Date: 2013-11-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 8.920m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C90    | C180   | C270   |  |  |  |  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--|--|--|--|----------|-------------|--------------|------------|
| 10       | 81.68                 | 80.42  | 82.32  | 81.96  |  |  |  |  | 0- 10    | 7.848       | 7.848        | 3.32,3.36  |
| 20       | 77.25                 | 75.82  | 78.63  | 78.97  |  |  |  |  | 10- 20   | 22.59       | 30.44        | 12.9,13    |
| 30       | 70.00                 | 68.20  | 71.99  | 73.28  |  |  |  |  | 20- 30   | 34.38       | 64.82        | 27.5,27.7  |
| 40       | 60.48                 | 57.79  | 62.91  | 64.65  |  |  |  |  | 30- 40   | 41.59       | 106.4        | 45.1,45.5  |
| 50       | 48.64                 | 45.11  | 51.04  | 53.28  |  |  |  |  | 40- 50   | 42.97       | 149.4        | 63.3,63.9  |
| 60       | 34.22                 | 30.91  | 37.37  | 40.31  |  |  |  |  | 50- 60   | 38.28       | 187.7        | 79.5,80.2  |
| 70       | 19.00                 | 15.66  | 21.70  | 24.71  |  |  |  |  | 60- 70   | 27.70       | 215.3        | 91.2,92.1  |
| 80       | 3.972                 | 2.715  | 6.132  | 8.536  |  |  |  |  | 70- 80   | 12.96       | 228.3        | 96.7,97.6  |
| 90       | 1.247                 | 0.5980 | 0.7541 | 1.772  |  |  |  |  | 80- 90   | 2.797       | 231.1        | 97.9,98.8  |
| 100      | 0.5430                | 0.4613 | 0.4967 | 0.6295 |  |  |  |  | 90-100   | 0.8416      | 231.9        | 98.3,99.2  |
| 110      | 0.5471                | 0.5985 | 0.6083 | 0.4907 |  |  |  |  | 100-110  | 0.5424      | 232.5        | 98.5,99.4  |
| 120      | 0.8278                | 0.7810 | 0.7504 | 0.6891 |  |  |  |  | 110-120  | 0.6531      | 233.1        | 98.8,99.7  |
| 130      | 0.8780                | 0.8923 | 0.8518 | 0.8345 |  |  |  |  | 120-130  | 0.7355      | 233.9        | 99.1,100   |
| 140      | 0.9935                | 1.049  | 0.9430 | 0.9379 |  |  |  |  | 130-140  | 0.7132      | 234.6        | 99.4,100   |
| 150      | 1.111                 | 1.095  | 1.043  | 0.9986 |  |  |  |  | 140-150  | 0.6452      | 235.2        | 99.6,101   |
| 160      | 1.065                 | 1.090  | 1.044  | 0.9937 |  |  |  |  | 150-160  | 0.4895      | 235.7        | 99.9,101   |
| 170      | 0.7965                | 0.7899 | 0.8564 | 0.8011 |  |  |  |  | 160-170  | 0.2741      | 236.0        | 100,101    |
| 180      | 0.7148                | 0.7097 | 0.7148 | 0.7098 |  |  |  |  | 170-180  | 0.0699      | 236.1        | 100,101    |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |  |  |  |  |          | UNIT:lm     |              |            |

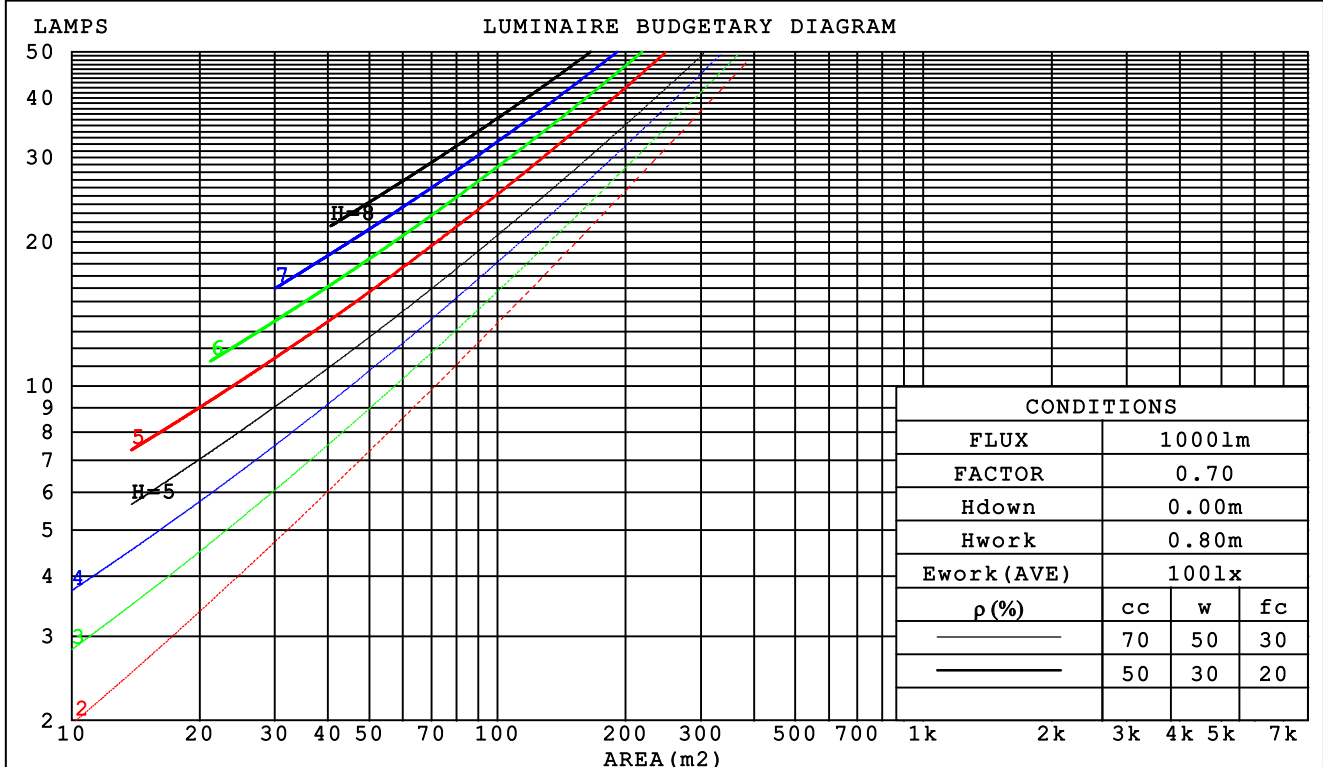
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:gg  
 Test Date:2013-11-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:8.920m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                         |             |                      |
|-------------------------|-------------|----------------------|
| NAME: GU10 玻璃灯杯 3W WW-1 | TYPE:       | WEIGHT:              |
| DIM.:                   | SPEC.:      | SERIAL No.:          |
| MFR.: MK                | SUR.:0.6325 | PROTECTION ANGLE:135 |

|      |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |     |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|-----|
| 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  | 1.20                  | 1.20 | 1.20 | 1.17 | 1.17 | 1.17 | 1.11                            | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.01 | 1.01 | 1.01 | .99 |
| 1.0  | 1.05                  | 1.01 | .97  | 1.03 | .99  | .96  | .98                             | .95  | .92  | .94  | .91  | .89  | .90  | .88  | .86  | .84 |
| 2.0  | .92                   | .85  | .80  | .90  | .84  | .79  | .86                             | .81  | .76  | .82  | .78  | .74  | .79  | .75  | .72  | .70 |
| 3.0  | .81                   | .73  | .66  | .79  | .72  | .66  | .76                             | .69  | .64  | .73  | .67  | .63  | .70  | .65  | .61  | .59 |
| 4.0  | .72                   | .63  | .56  | .70  | .62  | .56  | .67                             | .60  | .55  | .65  | .59  | .54  | .62  | .57  | .53  | .51 |
| 5.0  | .64                   | .55  | .48  | .63  | .54  | .48  | .60                             | .53  | .47  | .58  | .52  | .47  | .56  | .50  | .46  | .44 |
| 6.0  | .58                   | .49  | .42  | .57  | .48  | .42  | .54                             | .47  | .41  | .53  | .46  | .41  | .51  | .45  | .40  | .38 |
| 7.0  | .52                   | .43  | .37  | .51  | .43  | .37  | .50                             | .42  | .37  | .48  | .41  | .36  | .46  | .40  | .36  | .34 |
| 8.0  | .48                   | .39  | .33  | .47  | .39  | .33  | .45                             | .38  | .33  | .44  | .37  | .32  | .43  | .37  | .32  | .30 |
| 9.0  | .44                   | .35  | .30  | .43  | .35  | .30  | .42                             | .34  | .29  | .40  | .34  | .29  | .39  | .33  | .29  | .27 |
| 10.0 | .40                   | .32  | .27  | .40  | .32  | .27  | .39                             | .32  | .27  | .37  | .31  | .27  | .36  | .31  | .26  | .25 |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:gg  
 Test Date:2013-11-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:8.920m [K=1.0000]  
 Remarks:

WEC AND CCEC

|                         |             |                      |
|-------------------------|-------------|----------------------|
| NAME: GU10 玻璃灯杯 3W WW-1 | TYPE:       | WEIGHT:              |
| DIM.:                   | SPEC.:      | SERIAL No.:          |
| MFR.: MK                | SUR.:0.6325 | PROTECTION ANGLE:135 |

| $\rho_{cc}$ | 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         | .297                  | .169 | .054 | .289 | .165 | .052 | .275                             | .158 | .050 | .262 | .151 | .048 | .249 | .144 | .047 |   |
| 2.0         | .283                  | .155 | .048 | .277 | .152 | .047 | .264                             | .147 | .046 | .252 | .141 | .044 | .241 | .136 | .043 |   |
| 3.0         | .265                  | .141 | .042 | .258 | .138 | .042 | .247                             | .134 | .041 | .237 | .130 | .040 | .227 | .126 | .039 |   |
| 4.0         | .246                  | .128 | .038 | .240 | .126 | .037 | .230                             | .122 | .036 | .221 | .118 | .036 | .212 | .115 | .035 |   |
| 5.0         | .228                  | .116 | .034 | .223 | .115 | .033 | .214                             | .111 | .033 | .206 | .109 | .032 | .198 | .106 | .032 |   |
| 6.0         | .212                  | .106 | .030 | .208 | .105 | .030 | .200                             | .102 | .030 | .192 | .100 | .029 | .185 | .097 | .029 |   |
| 7.0         | .198                  | .098 | .028 | .194 | .097 | .028 | .187                             | .094 | .027 | .180 | .092 | .027 | .173 | .090 | .026 |   |
| 8.0         | .185                  | .090 | .025 | .182 | .089 | .025 | .175                             | .087 | .025 | .169 | .086 | .025 | .163 | .084 | .024 |   |
| 9.0         | .174                  | .084 | .023 | .171 | .083 | .023 | .165                             | .081 | .023 | .159 | .080 | .023 | .154 | .078 | .023 |   |
| 10.0        | .163                  | .078 | .022 | .161 | .078 | .022 | .155                             | .076 | .021 | .150 | .075 | .021 | .145 | .073 | .021 |   |

| $\rho_{cc}$ | 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 |      |      |      |      |      | Ceiling Cavity Exitance Coefficients (CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0         | .208                  | .208 | .208 | .178 | .178 | .178 | .122  | .122 | .122 | .070 | .070 | .070 | .022 | .022 | .022 |   |
| 1.0         | .197                  | .174 | .153 | .169 | .149 | .132 | .115  | .103 | .091 | .066 | .059 | .053 | .021 | .019 | .017 |   |
| 2.0         | .189                  | .150 | .117 | .162 | .129 | .101 | .111  | .089 | .070 | .064 | .052 | .041 | .021 | .017 | .013 |   |
| 3.0         | .181                  | .132 | .093 | .155 | .114 | .080 | .107  | .079 | .056 | .062 | .046 | .033 | .020 | .015 | .011 |   |
| 4.0         | .173                  | .118 | .076 | .149 | .102 | .066 | .102  | .071 | .047 | .059 | .042 | .028 | .019 | .014 | .009 |   |
| 5.0         | .166                  | .108 | .065 | .143 | .093 | .056 | .098  | .065 | .040 | .057 | .038 | .024 | .018 | .012 | .008 |   |
| 6.0         | .159                  | .099 | .057 | .137 | .086 | .049 | .094  | .060 | .035 | .055 | .035 | .021 | .018 | .012 | .007 |   |
| 7.0         | .152                  | .093 | .051 | .131 | .080 | .044 | .091  | .056 | .031 | .053 | .033 | .019 | .017 | .011 | .006 |   |
| 8.0         | .146                  | .087 | .046 | .126 | .075 | .040 | .087  | .053 | .028 | .051 | .031 | .017 | .016 | .010 | .006 |   |
| 9.0         | .140                  | .082 | .042 | .121 | .071 | .037 | .084  | .050 | .026 | .049 | .029 | .016 | .016 | .010 | .005 |   |
| 10.0        | .134                  | .077 | .040 | .116 | .067 | .035 | .080  | .047 | .025 | .047 | .028 | .015 | .015 | .009 | .005 |   |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:gg  
 Test Date:2013-11-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:8.920m [K=1.0000]  
 Remarks:

Uncorrected UGR Table

|  |                  |      |      |      |             |                |      |      |      |                      |  |  |  |  |
|--|------------------|------|------|------|-------------|----------------|------|------|------|----------------------|--|--|--|--|
| NAME: GU10 玻璃灯杯 3W WW-1                            |                  |      |      |      | TYPE:       |                |      |      |      | WEIGHT:              |  |  |  |  |
| DIM.:  |                  |      |      |      | SPEC.:      |                |      |      |      | SERIAL No.:          |  |  |  |  |
| MFR.: MK   |                  |      |      |      | SUR.:0.6325 |                |      |      |      | PROTECTION ANGLE:135 |  |  |  |  |
| 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                                      | 9.0              | 10.5 | 9.3  | 10.7 | 11.0        | 8.7            | 10.1 | 9.0  | 10.4 | 10.6                 |  |  |  |  |
| 3H   | 10.3             | 11.6 | 10.6 | 11.9 | 12.2        | 9.7            | 11.1 | 10.1 | 11.4 | 11.6                 |  |  |  |  |
| 4H   | 10.5             | 11.8 | 10.9 | 12.1 | 12.4        | 9.9            | 11.2 | 10.3 | 11.5 | 11.8                 |  |  |  |  |
| 6H   | 10.6             | 11.8 | 10.9 | 12.1 | 12.4        | 9.9            | 11.1 | 10.3 | 11.4 | 11.7                 |  |  |  |  |
| 8H   | 10.6             | 11.7 | 11.0 | 12.1 | 12.4        | 9.9            | 11.0 | 10.2 | 11.3 | 11.7                 |  |  |  |  |
| 12H  | 10.6             | 11.7 | 11.0 | 12.0 | 12.4        | 9.8            | 10.9 | 10.2 | 11.3 | 11.6                 |  |  |  |  |
| 4H 2H  | 9.5              | 10.8 | 9.8  | 11.1 | 11.4        | 9.2            | 10.5 | 9.5  | 10.8 | 11.1                 |  |  |  |  |
| 3H   | 10.9             | 12.0 | 11.2 | 12.3 | 12.7        | 10.4           | 11.5 | 10.8 | 11.8 | 12.2                 |  |  |  |  |
| 4H   | 11.2             | 12.2 | 11.6 | 12.6 | 12.9        | 10.6           | 11.6 | 11.0 | 12.0 | 12.4                 |  |  |  |  |
| 6H   | 11.3             | 12.2 | 11.7 | 12.6 | 13.0        | 10.7           | 11.6 | 11.1 | 11.9 | 12.4                 |  |  |  |  |
| 8H   | 11.3             | 12.1 | 11.7 | 12.5 | 13.0        | 10.6           | 11.5 | 11.1 | 11.9 | 12.3                 |  |  |  |  |
| 12H  | 11.3             | 12.1 | 11.8 | 12.5 | 13.0        | 10.6           | 11.4 | 11.1 | 11.8 | 12.3                 |  |  |  |  |
| 8H 4H  | 11.2             | 12.1 | 11.7 | 12.5 | 12.9        | 10.7           | 11.5 | 11.1 | 11.9 | 12.4                 |  |  |  |  |
| 6H   | 11.4             | 12.0 | 11.8 | 12.5 | 13.0        | 10.8           | 11.5 | 11.2 | 11.9 | 12.4                 |  |  |  |  |
| 8H   | 11.4             | 12.0 | 11.9 | 12.5 | 13.0        | 10.8           | 11.4 | 11.3 | 11.9 | 12.4                 |  |  |  |  |
| 12H  | 11.5             | 12.0 | 12.0 | 12.5 | 13.0        | 10.8           | 11.3 | 11.3 | 11.8 | 12.3                 |  |  |  |  |
| 12H 4H   | 11.2             | 11.9 | 11.6 | 12.4 | 12.8        | 10.7           | 11.4 | 11.1 | 11.9 | 12.3                 |  |  |  |  |
| 6H   | 11.3             | 11.9 | 11.8 | 12.4 | 12.9        | 10.8           | 11.4 | 11.2 | 11.8 | 12.3                 |  |  |  |  |
| 8H   | 11.4             | 11.9 | 11.9 | 12.4 | 12.9        | 10.8           | 11.3 | 11.3 | 11.8 | 12.3                 |  |  |  |  |
| Variations with the observer position at spacings: |                  |      |      |      |             |                |      |      |      |                      |  |  |  |  |
| S = 1.0H   | + 0.3 / - 0.3    |      |      |      |             | + 0.3 / - 0.4  |      |      |      |                      |  |  |  |  |
| 1.5H   | + 0.3 / - 0.4    |      |      |      |             | + 0.3 / - 0.6  |      |      |      |                      |  |  |  |  |
| 2.0H   | + 0.4 / - 0.4    |      |      |      |             | + 0.4 / - 0.5  |      |      |      |                      |  |  |  |  |

CIE Pub.117 Corrected 233.9 lm Total Lamp Luminous Flux. (8log(F/F0) = -5.0)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:gg  
 Test Date:2013-11-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:8.920m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

|                         |             |                      |
|-------------------------|-------------|----------------------|
| NAME: GU10 玻璃灯杯 3W WW-1 | TYPE:       | WEIGHT:              |
| DIM.:                   | SPEC.:      | SERIAL No.:          |
| MFR.: MK                | SUR.:0.6325 | PROTECTION ANGLE:135 |

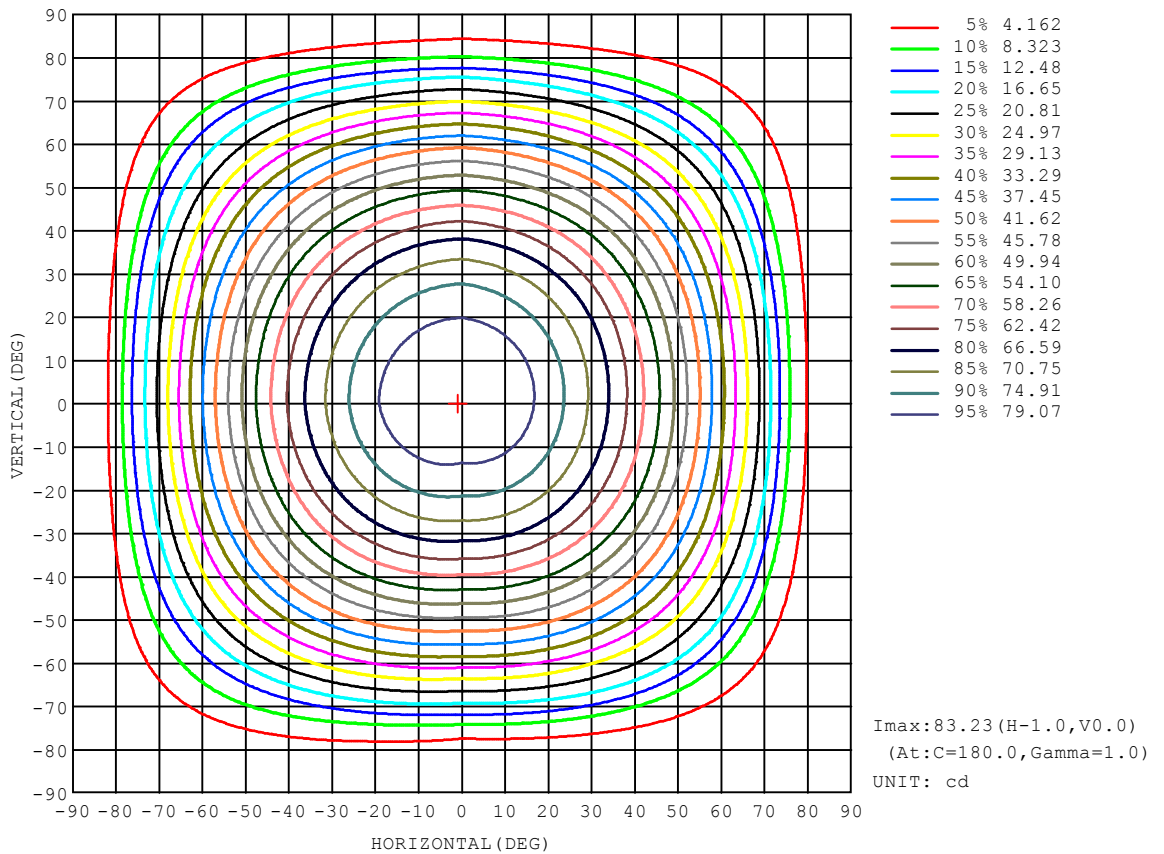
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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                         | 58   | 46  | 40        | 57  | 46  | 39  | 56            | 46  | 39  | 33     |
| 0.80                             | 68   | 57  | 49        | 67  | 56  | 49  | 65            | 55  | 49  | 42     |
| 1.00                             | 77   | 66  | 59        | 76  | 65  | 58  | 73            | 66  | 58  | 50     |
| 1.25                             | 84   | 74  | 67        | 83  | 73  | 66  | 80            | 71  | 65  | 58     |
| 1.50                             | 89   | 79  | 73        | 87  | 78  | 72  | 84            | 76  | 71  | 63     |
| 2.00                             | 96   | 88  | 81        | 94  | 86  | 80  | 90            | 84  | 79  | 71     |
| 2.50                             | 100  | 92  | 86        | 98  | 91  | 85  | 94            | 88  | 83  | 75     |
| 3.00                             | 103  | 97  | 91        | 101 | 95  | 90  | 97            | 92  | 88  | 79     |
| 4.00                             | 107  | 102 | 97        | 105 | 100 | 96  | 100           | 96  | 93  | 83     |
| 5.00                             | 110  | 105 | 101       | 107 | 103 | 99  | 102           | 99  | 96  | 86     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:gg  
 Test Date:2013-11-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:8.920m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

|                         |             |                      |
|-------------------------|-------------|----------------------|
| NAME: GU10 玻璃灯杯 3W WW-1 | TYPE:       | WEIGHT:              |
| DIM.:                   | SPEC.:      | SERIAL No.:          |
| MFR.: MK                | SUR.:0.6325 | PROTECTION ANGLE:135 |

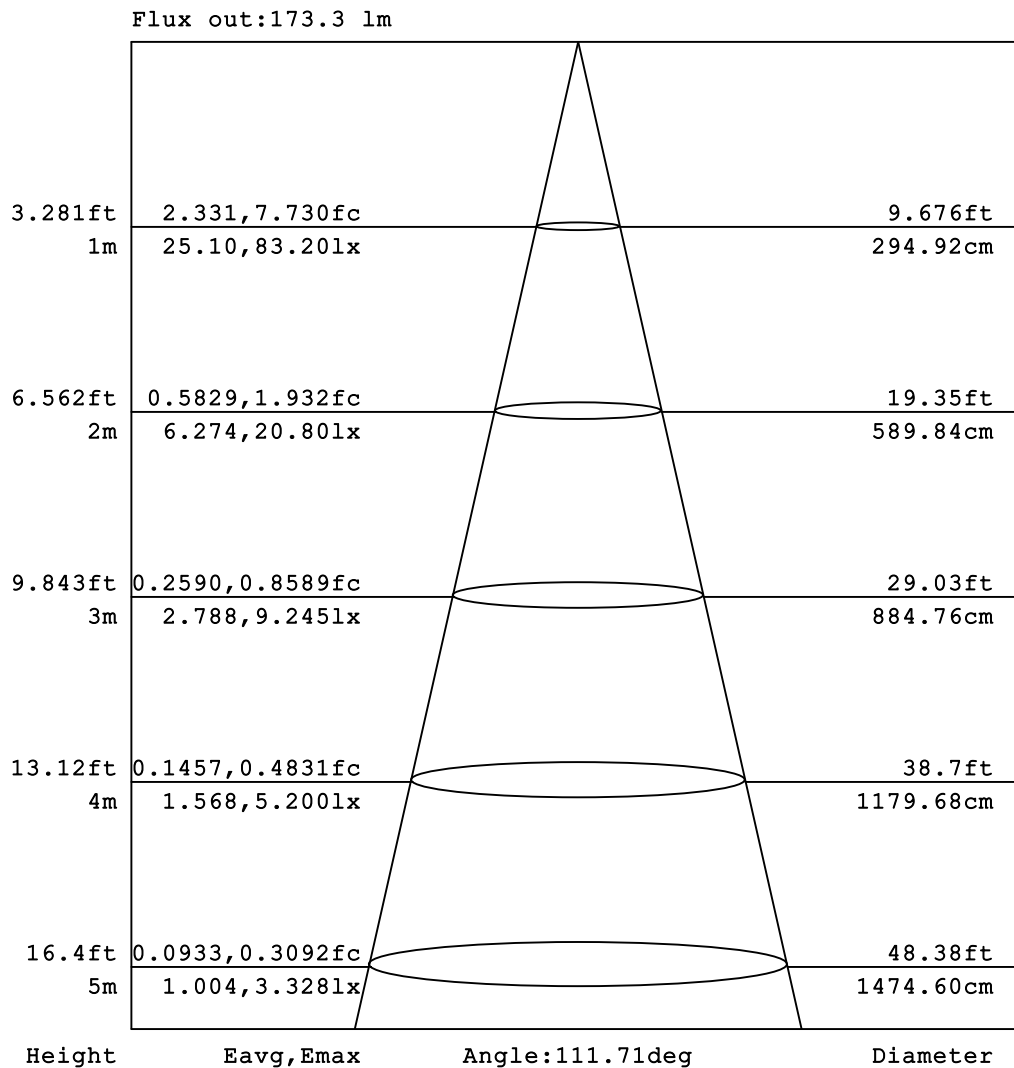


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:gg  
 Test Date:2013-11-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:8.920m [K=1.0000]  
 Remarks:

AAI Figure

|                         |             |                      |
|-------------------------|-------------|----------------------|
| NAME: GU10 玻璃灯杯 3W WW-1 | TYPE:       | WEIGHT:              |
| DIM.:                   | SPEC.:      | SERIAL No.:          |
| MFR.: MK                | SUR.:0.6325 | PROTECTION ANGLE:135 |



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

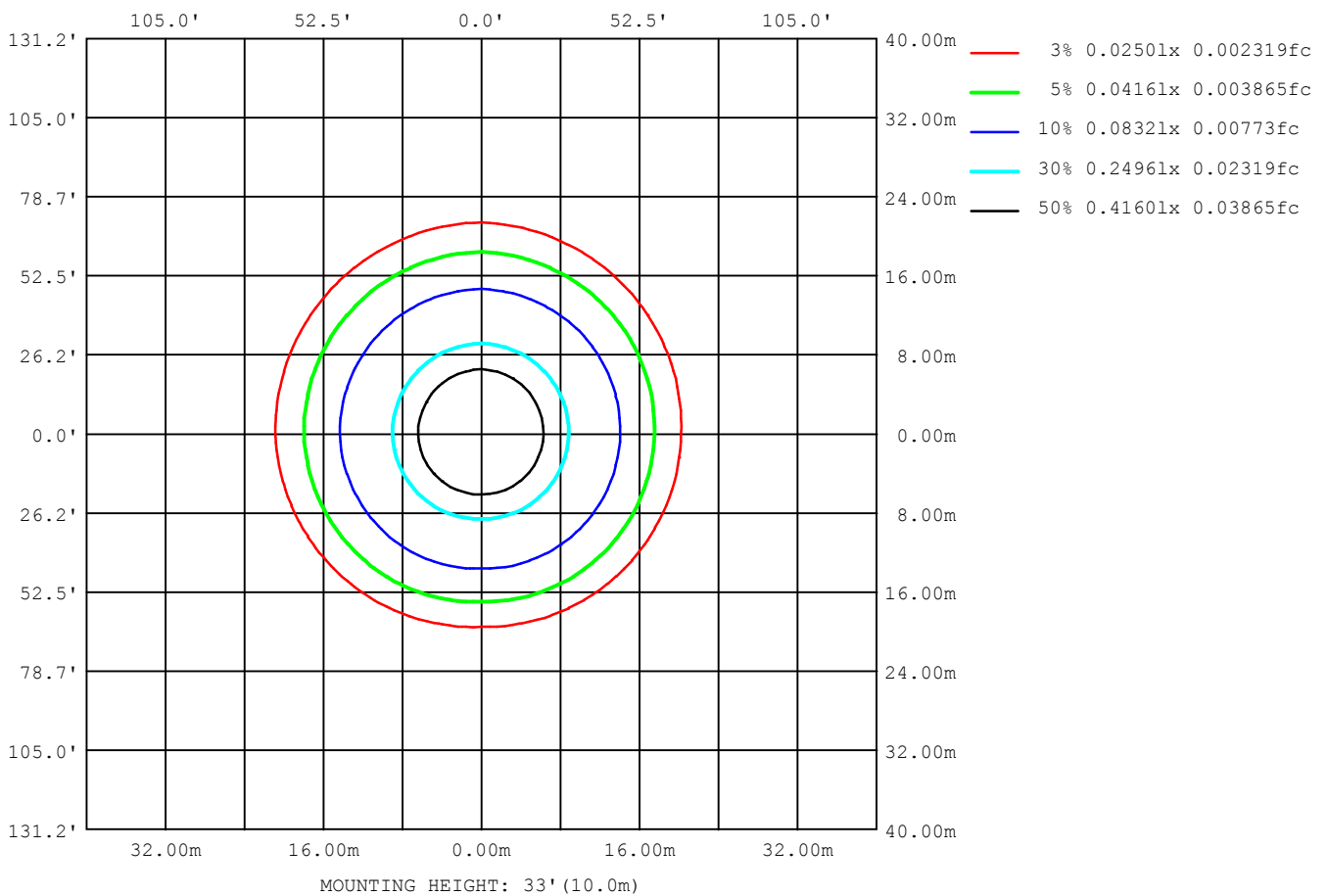
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: gg  
 Test Date: 2013-11-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 8.920m [K=1.0000]  
 Remarks:



ISOLUX DIAGRAM

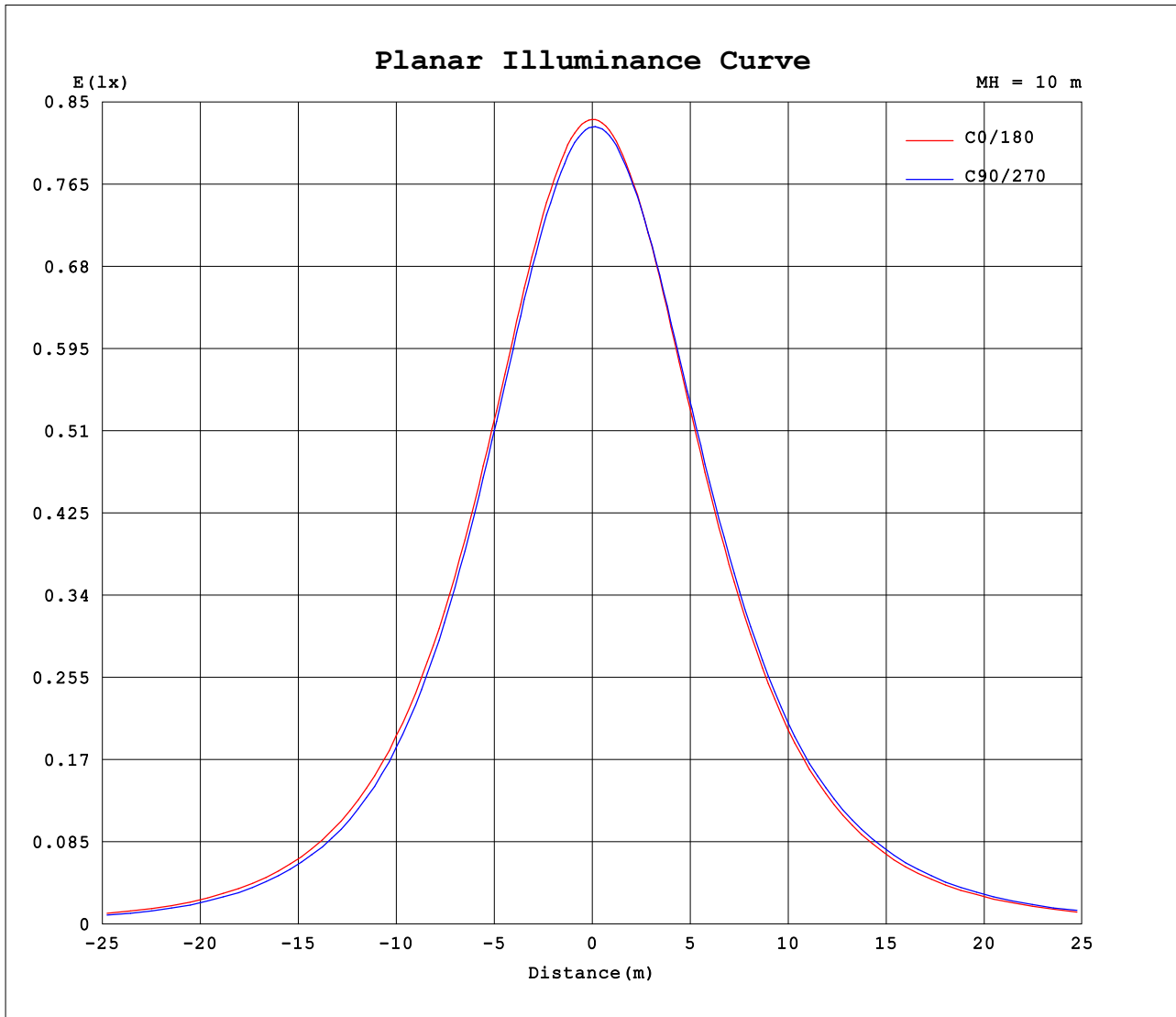
|                         |             |                      |
|-------------------------|-------------|----------------------|
| NAME: GU10 玻璃灯杯 3W WW-1 | TYPE:       | WEIGHT:              |
| DIM.:                   | SPEC.:      | SERIAL No.:          |
| MFR.: MK                | SUR.:0.6325 | PROTECTION ANGLE:135 |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:gg  
 Test Date:2013-11-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:8.920m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: gg  
 Test Date: 2013-11-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 8.920m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|                         |             |                      |
|-------------------------|-------------|----------------------|
| NAME: GU10 玻璃灯杯 3W WW-1 | TYPE:       | WEIGHT:              |
| DIM.:                   | SPEC.:      | SERIAL No.:          |
| MFR.: MK                | SUR.:0.6325 | PROTECTION ANGLE:135 |

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                  | 83.2 | 82.4 | 83.2 | 82.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 82.8 | 81.7 | 83.1 | 82.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 81.7 | 80.4 | 82.3 | 82.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 79.9 | 78.5 | 80.9 | 80.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 77.3 | 75.8 | 78.6 | 79.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 73.8 | 72.4 | 75.7 | 76.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 70.0 | 68.2 | 72.0 | 73.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 65.5 | 63.4 | 67.7 | 69.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 60.5 | 57.8 | 62.9 | 64.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 54.9 | 51.6 | 57.3 | 59.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 48.6 | 45.1 | 51.0 | 53.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 41.7 | 38.4 | 44.4 | 47.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                 | 34.2 | 30.9 | 37.4 | 40.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 26.5 | 23.0 | 29.9 | 32.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 19.0 | 15.7 | 21.7 | 24.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                 | 9.60 | 6.96 | 14.1 | 17.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                 | 3.97 | 2.71 | 6.13 | 8.54 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                 | 2.21 | 1.01 | 2.16 | 3.77 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                 | 1.25 | 0.60 | 0.75 | 1.77 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                 | 0.91 | 0.46 | 0.54 | 1.11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100                | 0.54 | 0.46 | 0.50 | 0.63 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105                | 0.50 | 0.52 | 0.51 | 0.46 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110                | 0.55 | 0.60 | 0.61 | 0.49 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115                | 0.68 | 0.72 | 0.68 | 0.55 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120                | 0.83 | 0.78 | 0.75 | 0.69 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125                | 0.84 | 0.85 | 0.80 | 0.80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130                | 0.88 | 0.89 | 0.85 | 0.83 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135                | 0.94 | 0.96 | 0.90 | 0.89 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140                | 0.99 | 1.05 | 0.94 | 0.94 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145                | 1.09 | 1.08 | 0.99 | 0.94 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150                | 1.11 | 1.10 | 1.04 | 1.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155                | 1.07 | 1.11 | 1.04 | 1.01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160                | 1.06 | 1.09 | 1.04 | 0.99 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165                | 0.99 | 0.99 | 0.99 | 0.90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170                | 0.80 | 0.79 | 0.86 | 0.80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175                | 0.71 | 0.70 | 0.73 | 0.69 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180                | 0.71 | 0.71 | 0.71 | 0.71 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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