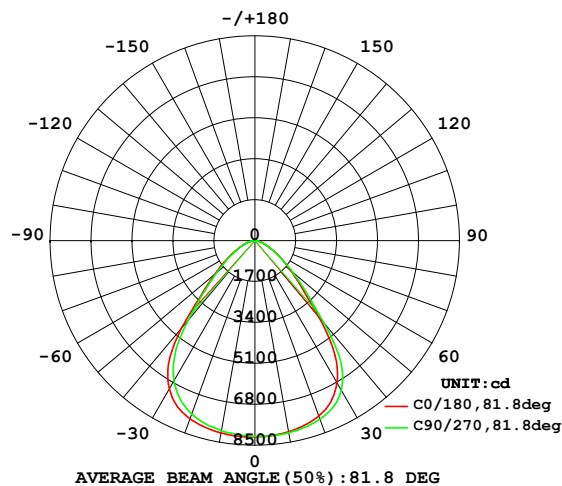


## LUMINAIRE PHOTOMETRIC TEST REPORT

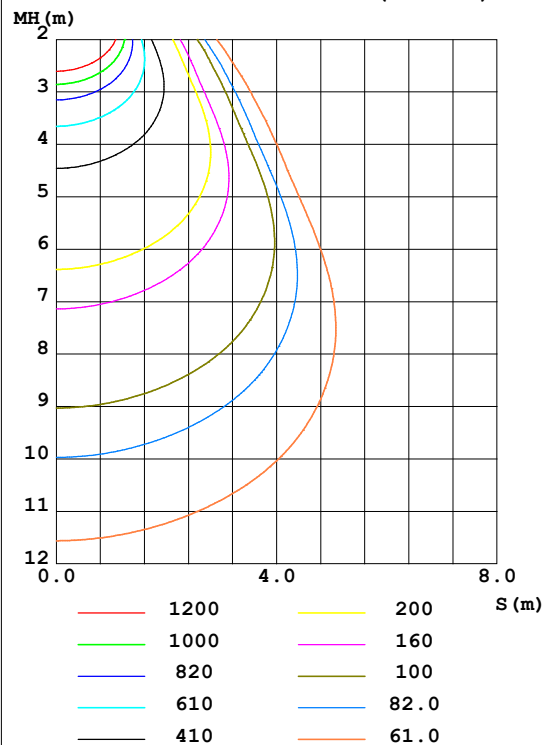
|   |                       |                   |
|---|-----------------------|-------------------|
| Test:U:277.0V I:0.3766A P:101.6W PF:0.9737 Lamp Flux:14865.7x1 lm |                       |                   |
| NAME: LM-100W   | TYPE:90°Lens          | WEIGHT:3.849kg    |
| SPEC.:5000k R80 264L  | DIM.: D280mm*167mm    | SERIAL No.:       |
| MFR.:   | SUR.:0.12m*0.12m*3.14 | PROTECTION ANGLE: |

| DATA OF LAMP     |                       | PHOTOMETRIC DATA Eff: 146.32 lm/W |        |                   |          |
|------------------|-----------------------|-----------------------------------|--------|-------------------|----------|
| MODEL            | SMD3030 (757G P20D41) | I <sub>max</sub> (cd)             | 8156   | S/MH(C0/180)      | 1.20     |
| NOMINAL POWER(W) | 100                   | LOR(%)                            | 100.0  | S/MH(C90/270)     | 1.17     |
| RATED VOLTAGE(V) | 277                   | TOTAL FLUX(lm)                    | 14866  | η UP,DN(C0-180)   | 0.2,49.8 |
| NOMINAL FLUX(lm) | 14865.7               | CIE CLASS                         | DIRECT | η UP,DN(C180-360) | 0.2,49.7 |
| LAMPS INSIDE     | 1                     | η up(%)                           | 0.4    | CIBSE SHR NOM     | 1.00     |
| TEST VOLTAGE(V)  | 277                   | η down(%)                         | 99.6   | CIBSE SHR MAX     | 1.15     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



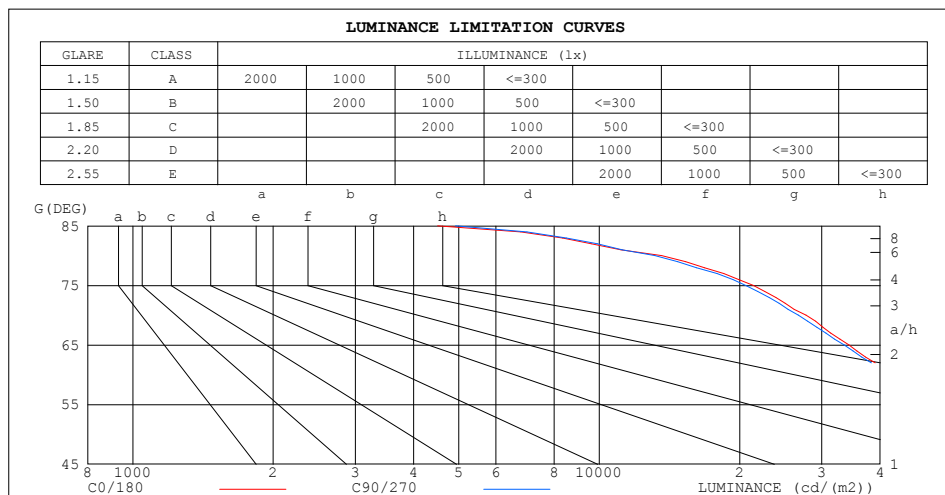
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: DEG  
 Operators: guanlingao  
 Test Date: 2017-12-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
 Humidity: 65.0%  
 Test Distance: 9.390m [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       | 8057   | 8088  | 8100  | 8089   | 8109   | 8053   | 8015   | 7999   | 0- 10    | 773.2       | 773.2        | 5.2,5.2    |
| 20       | 7758   | 7854  | 7889  | 7888   | 7875   | 7732   | 7667   | 7665   | 10- 20   | 2250        | 3023         | 20.3,20.3  |
| 30       | 6824   | 7067  | 7173  | 7198   | 7114   | 6841   | 6721   | 6704   | 20- 30   | 3437        | 6459         | 43.5,43.5  |
| 40       | 4105   | 4411  | 4477  | 4613   | 4714   | 4414   | 4315   | 4216   | 30- 40   | 3676        | 10135        | 68.2,68.2  |
| 50       | 1973   | 2028  | 2052  | 2135   | 2178   | 2111   | 2046   | 2001   | 40- 50   | 2330        | 12465        | 83.9,83.9  |
| 60       | 968.9  | 956.4 | 959.8 | 1043   | 1082   | 1038   | 1005   | 984.5  | 50- 60   | 1320        | 13785        | 92.7,92.7  |
| 70       | 429.0  | 421.6 | 413.1 | 452.2  | 488.6  | 480.2  | 474.2  | 461.5  | 60- 70   | 688.5       | 14474        | 97.4,97.4  |
| 80       | 106.8  | 110.2 | 103.4 | 117.1  | 141.4  | 136.9  | 141.8  | 130.0  | 70- 80   | 288.8       | 14763        | 99.3,99.3  |
| 90       | 1.024  | 1.005 | 1.017 | 0.9786 | 0.9697 | 0.8442 | 0.8211 | 0.7927 | 80- 90   | 41.91       | 14805        | 99.6,99.6  |
| 100      | 1.974  | 1.925 | 1.896 | 1.840  | 1.292  | 1.284  | 1.273  | 1.336  | 90-100   | 1.277       | 14806        | 99.6,99.6  |
| 110      | 3.969  | 3.817 | 3.773 | 3.661  | 2.617  | 2.679  | 2.657  | 2.809  | 100-110  | 2.466       | 14808        | 99.6,99.6  |
| 120      | 7.807  | 7.399 | 7.332 | 7.112  | 5.188  | 5.461  | 5.417  | 5.670  | 110-120  | 4.621       | 14813        | 99.6,99.6  |
| 130      | 13.30  | 12.66 | 12.53 | 12.29  | 9.574  | 10.06  | 10.10  | 10.40  | 120-130  | 7.820       | 14821        | 99.7,99.7  |
| 140      | 19.54  | 18.81 | 18.61 | 18.42  | 14.77  | 15.30  | 15.46  | 15.67  | 130-140  | 10.96       | 14832        | 99.8,99.8  |
| 150      | 24.34  | 23.72 | 23.49 | 23.40  | 19.53  | 20.08  | 20.11  | 20.23  | 140-150  | 12.26       | 14844        | 99.9,99.9  |
| 160      | 28.10  | 27.69 | 27.47 | 27.39  | 24.17  | 24.60  | 24.73  | 24.67  | 150-160  | 11.03       | 14855        | 99.9,99.9  |
| 170      | 30.77  | 30.55 | 30.35 | 30.39  | 28.22  | 28.49  | 28.68  | 28.60  | 160-170  | 7.858       | 14863        | 100,100    |
| 180      | 31.60  | 31.72 | 31.71 | 31.66  | 31.64  | 31.68  | 31.72  | 31.64  | 170-180  | 2.905       | 14866        | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd MAX (Ii - Iavg)/Iavg (0-135) = 213.5 % |       |       |        |        |        |        |        |          | UNIT:lm     |              |            |



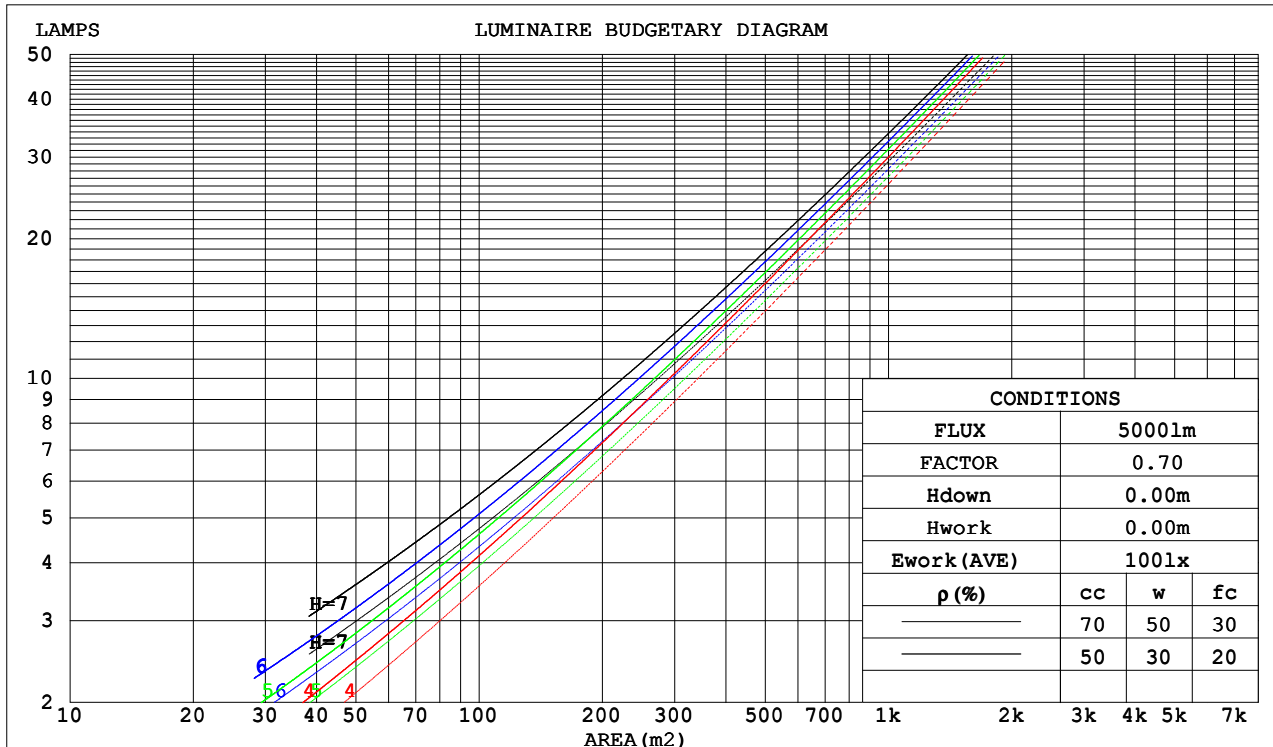
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: DEG  
 Operators: guanlingao  
 Test Date: 2017-12-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
 Humidity: 65.0%  
 Test Distance: 9.390m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|   |                       |                   |
|---|-----------------------|-------------------|
| Test:U:277.0V I:0.3766A P:101.6W PF:0.9737 Lamp Flux:14865.7x1 lm |                       |                   |
| NAME: LM-100W   | TYPE:90° Lens         | WEIGHT:3.849kg    |
| SPEC.:5000k R80 264L  | DIM.: D280mm*167mm    | SERIAL No.:       |
| MFR.:   | SUR.:0.12m*0.12m*3.14 | 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  | 1.19                  | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11                            | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0  | 1.08                  | 1.05 | 1.02 | 1.06 | 1.03 | 1.00 | 1.01                            | .99  | .97  | .98  | .96  | .94  | .94  | .92  | .91  | .89 |
| 2.0  | .97                   | .92  | .88  | .96  | .91  | .87  | .92                             | .88  | .85  | .89  | .86  | .83  | .86  | .83  | .81  | .79 |
| 3.0  | .88                   | .82  | .76  | .87  | .81  | .76  | .84                             | .79  | .74  | .81  | .77  | .73  | .79  | .75  | .72  | .70 |
| 4.0  | .80                   | .73  | .67  | .79  | .72  | .67  | .76                             | .71  | .66  | .74  | .69  | .65  | .72  | .68  | .64  | .62 |
| 5.0  | .73                   | .66  | .60  | .72  | .65  | .60  | .70                             | .64  | .59  | .68  | .63  | .58  | .66  | .62  | .58  | .56 |
| 6.0  | .67                   | .59  | .54  | .66  | .59  | .54  | .64                             | .58  | .53  | .63  | .57  | .53  | .61  | .56  | .52  | .51 |
| 7.0  | .61                   | .54  | .49  | .61  | .54  | .49  | .59                             | .53  | .48  | .58  | .52  | .48  | .57  | .51  | .48  | .46 |
| 8.0  | .57                   | .49  | .44  | .56  | .49  | .44  | .55                             | .48  | .44  | .54  | .48  | .44  | .53  | .47  | .43  | .42 |
| 9.0  | .53                   | .45  | .40  | .52  | .45  | .40  | .51                             | .45  | .40  | .50  | .44  | .40  | .49  | .44  | .40  | .38 |
| 10.0 | .49                   | .42  | .37  | .48  | .42  | .37  | .47                             | .41  | .37  | .47  | .41  | .37  | .46  | .40  | .37  | .35 |



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: DEG  
 Operators: guanlingao  
 Test Date: 2017-12-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
 Humidity: 65.0%  
 Test Distance: 9.390m [K=1.0000]  
 Remarks:

## WEC AND CCEC

|   |                       |                   |
|---|-----------------------|-------------------|
| Test:U:277.0V I:0.3766A P:101.6W PF:0.9737 Lamp Flux:14865.7x1 lm |                       |                   |
| NAME: LM-100W   | TYPE:90°Lens          | WEIGHT:3.849kg    |
| SPEC.:5000k R80 264L  | DIM.: D280mm*167mm    | SERIAL No.:       |
| MFR.:   | SUR.:0.12m*0.12m*3.14 | 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 Coefficients(WEC) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.0  |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 1.0  | .232  | .132 | .042 | .225 | .128 | .041 | .212 | .121 | .039 | .200 | .115 | .037 | .188 | .109 | .035 |   |
| 2.0  | .225  | .123 | .038 | .219 | .120 | .037 | .207 | .115 | .036 | .197 | .110 | .035 | .187 | .106 | .033 |   |
| 3.0  | .213  | .114 | .034 | .208 | .111 | .034 | .198 | .107 | .033 | .189 | .104 | .032 | .181 | .100 | .031 |   |
| 4.0  | .202  | .105 | .031 | .197 | .103 | .030 | .188 | .100 | .030 | .180 | .097 | .029 | .173 | .094 | .029 |   |
| 5.0  | .190  | .097 | .028 | .186 | .096 | .028 | .179 | .093 | .027 | .172 | .090 | .027 | .165 | .088 | .026 |   |
| 6.0  | .180  | .090 | .026 | .176 | .089 | .026 | .169 | .087 | .025 | .163 | .085 | .025 | .157 | .083 | .025 |   |
| 7.0  | .170  | .084 | .024 | .167 | .083 | .024 | .161 | .081 | .023 | .155 | .079 | .023 | .150 | .078 | .023 |   |
| 8.0  | .161  | .079 | .022 | .158 | .078 | .022 | .153 | .076 | .022 | .147 | .075 | .022 | .143 | .073 | .021 |   |
| 9.0  | .153  | .074 | .021 | .150 | .073 | .021 | .145 | .072 | .020 | .141 | .070 | .020 | .136 | .069 | .020 |   |
| 10.0 | .145  | .070 | .019 | .143 | .069 | .019 | .138 | .068 | .019 | .134 | .067 | .019 | .130 | .065 | .019 |   |

| 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  | .194   | .194 | .194 | .165 | .165 | .165 | .113 | .113 | .113 | .065 | .065 | .065 | .021 | .021 | .021 |   |
| 1.0  | .178   | .160 | .144 | .152 | .137 | .124 | .104 | .094 | .086 | .060 | .055 | .050 | .019 | .018 | .016 |   |
| 2.0  | .166   | .135 | .109 | .143 | .117 | .095 | .098 | .081 | .066 | .056 | .047 | .039 | .018 | .015 | .013 |   |
| 3.0  | .157   | .117 | .085 | .134 | .101 | .074 | .092 | .070 | .052 | .053 | .041 | .031 | .017 | .013 | .010 |   |
| 4.0  | .148   | .103 | .069 | .127 | .089 | .060 | .088 | .062 | .042 | .051 | .036 | .025 | .016 | .012 | .008 |   |
| 5.0  | .141   | .092 | .056 | .121 | .080 | .049 | .083 | .056 | .035 | .048 | .033 | .021 | .016 | .011 | .007 |   |
| 6.0  | .134   | .083 | .047 | .115 | .072 | .041 | .079 | .051 | .029 | .046 | .030 | .017 | .015 | .010 | .006 |   |
| 7.0  | .128   | .076 | .040 | .110 | .066 | .035 | .076 | .046 | .025 | .044 | .027 | .015 | .014 | .009 | .005 |   |
| 8.0  | .122   | .070 | .035 | .105 | .061 | .031 | .073 | .043 | .022 | .042 | .025 | .013 | .014 | .008 | .004 |   |
| 9.0  | .117   | .066 | .031 | .101 | .057 | .027 | .070 | .040 | .019 | .041 | .024 | .011 | .013 | .008 | .004 |   |
| 10.0 | .112   | .061 | .028 | .096 | .053 | .024 | .067 | .037 | .017 | .039 | .022 | .010 | .013 | .007 | .003 |   |

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: DEG  
 Operators: guanlingao  
 Test Date: 2017-12-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
 Humidity: 65.0%  
 Test Distance: 9.390m [K=1.0000]  
 Remarks:

### UGR(Unified Glare Rating) Table

|   |     |                  |      |      |                       |      |                |                   |      |      |      |
|---|-----|------------------|------|------|-----------------------|------|----------------|-------------------|------|------|------|
| Test:U:277.0V I:0.3766A P:101.6W PF:0.9737 Lamp Flux:14865.7x1 lm |     |                  |      |      |                       |      |                |                   |      |      |      |
| NAME: LM-100W   |     |                  |      |      | TYPE:90°Lens          |      |                | WEIGHT:3.849kg    |      |      |      |
| SPEC.:5000k R80 264L  |     |                  |      |      | DIM.: D280mm*167mm    |      |                | SERIAL No.:       |      |      |      |
| MFR.:   |     |                  |      |      | SUR.:0.12m*0.12m*3.14 |      |                | 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  | 25.7             | 27.0 | 26.0 | 27.2                  | 27.3 | 25.9           | 27.1              | 26.1 | 27.3 | 27.5 |
|   | 3H  | 26.1             | 27.2 | 26.3 | 27.4                  | 27.7 | 26.2           | 27.3              | 26.5 | 27.5 | 27.8 |
|   | 4H  | 26.2             | 27.2 | 26.5 | 27.5                  | 27.7 | 26.2           | 27.3              | 26.6 | 27.6 | 27.8 |
|   | 6H  | 26.2             | 27.2 | 26.5 | 27.4                  | 27.7 | 26.2           | 27.3              | 26.6 | 27.5 | 27.8 |
|   | 8H  | 26.1             | 27.1 | 26.5 | 27.4                  | 27.7 | 26.2           | 27.2              | 26.5 | 27.5 | 27.7 |
|   | 12H | 26.1             | 27.0 | 26.4 | 27.3                  | 27.6 | 26.2           | 27.1              | 26.5 | 27.4 | 27.7 |
| 4H  | 2H  | 25.8             | 26.9 | 26.1 | 27.1                  | 27.4 | 25.9           | 27.0              | 26.2 | 27.3 | 27.5 |
|   | 3H  | 26.3             | 27.2 | 26.6 | 27.5                  | 27.8 | 26.4           | 27.3              | 26.7 | 27.6 | 27.9 |
|   | 4H  | 26.5             | 27.3 | 26.8 | 27.6                  | 27.9 | 26.5           | 27.4              | 26.9 | 27.7 | 28.0 |
|   | 6H  | 26.5             | 27.2 | 26.9 | 27.6                  | 28.0 | 26.6           | 27.3              | 27.0 | 27.7 | 28.0 |
|   | 8H  | 26.5             | 27.2 | 26.9 | 27.5                  | 27.9 | 26.5           | 27.2              | 27.0 | 27.6 | 28.0 |
|   | 12H | 26.4             | 27.1 | 26.9 | 27.5                  | 27.9 | 26.5           | 27.1              | 26.9 | 27.5 | 27.9 |
| 8H  | 4H  | 26.4             | 27.1 | 26.9 | 27.5                  | 27.9 | 26.5           | 27.2              | 26.9 | 27.6 | 27.9 |
|   | 6H  | 26.5             | 27.1 | 27.0 | 27.5                  | 27.9 | 26.6           | 27.2              | 27.0 | 27.6 | 28.0 |
|   | 8H  | 26.5             | 27.0 | 27.0 | 27.4                  | 27.9 | 26.6           | 27.1              | 27.0 | 27.5 | 28.0 |
|   | 12H | 26.5             | 26.9 | 27.0 | 27.4                  | 27.9 | 26.6           | 27.0              | 27.0 | 27.4 | 27.9 |
| 12H   | 4H  | 26.4             | 27.0 | 26.8 | 27.4                  | 27.8 | 26.5           | 27.1              | 26.9 | 27.5 | 27.9 |
|   | 6H  | 26.5             | 27.0 | 27.0 | 27.4                  | 27.9 | 26.6           | 27.1              | 27.0 | 27.5 | 27.9 |
|   | 8H  | 26.5             | 26.9 | 27.0 | 27.4                  | 27.9 | 26.6           | 27.0              | 27.0 | 27.4 | 27.9 |
| Variations with the observer position at spacings:                |     |                  |      |      |                       |      |                |                   |      |      |      |
| S = 1.0H  |     | + 1.1 / - 1.4    |      |      |                       |      | + 1.1 / - 1.6  |                   |      |      |      |
| 1.5H  |     | + 1.4 / - 0.9    |      |      |                       |      | + 1.6 / - 1.0  |                   |      |      |      |
| 2.0H  |     | + 1.8 / - 1.5    |      |      |                       |      | + 2.0 / - 1.7  |                   |      |      |      |

CIE Pub.117 Corrected 14866 lm Total Lamp Luminous Flux. (8log(F/F0) = 9.4)

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: DEG  
Operators: guanlingao  
Test Date: 2017-12-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
Humidity: 65.0%  
Test Distance: 9.390m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

|   |                       |                   |
|---|-----------------------|-------------------|
| Test:U:277.0V I:0.3766A P:101.6W PF:0.9737 Lamp Flux:14865.7x1 lm |                       |                   |
| NAME: LM-100W   | TYPE:90°Lens          | WEIGHT:3.849kg    |
| SPEC.:5000k R80 264L  | DIM.: D280mm*167mm    | SERIAL No.:       |
| MFR.:   | SUR.:0.12m*0.12m*3.14 | PROTECTION ANGLE: |

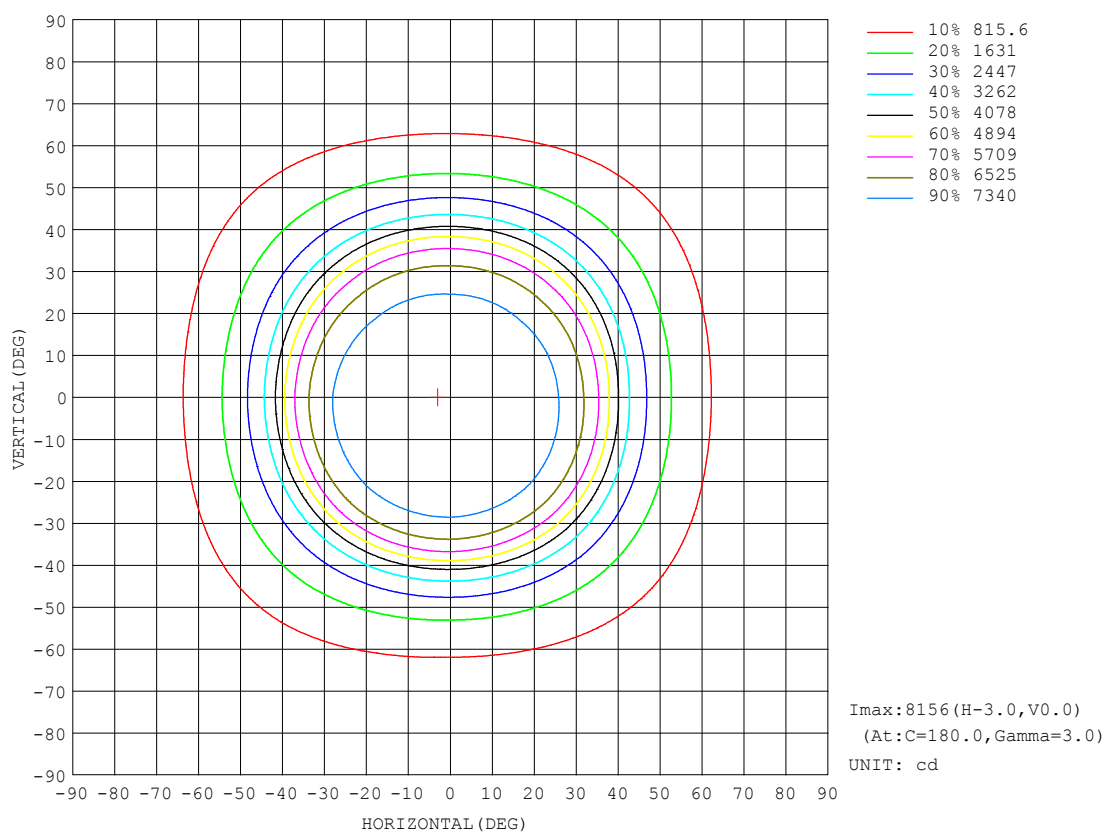
| REFLECTANCE                      |  |     |           |     |     |     |     |               |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 71   | 62  | 57        | 71  | 62  | 57  | 70  | 62            | 57  | 52     |
| 0.80                             | 81   | 72  | 67        | 80  | 72  | 66  | 78  | 71            | 66  | 61     |
| 1.00                             | 88   | 80  | 74        | 87  | 79  | 74  | 85  | 80            | 74  | 68     |
| 1.25                             | 94   | 86  | 81        | 93  | 86  | 81  | 90  | 84            | 80  | 74     |
| 1.50                             | 98   | 91  | 86        | 96  | 90  | 85  | 94  | 88            | 84  | 78     |
| 2.00                             | 103  | 97  | 92        | 101 | 95  | 91  | 98  | 93            | 90  | 83     |
| 2.50                             | 105  | 100 | 95        | 103 | 98  | 95  | 100 | 96            | 93  | 86     |
| 3.00                             | 108  | 103 | 99        | 106 | 101 | 98  | 102 | 98            | 95  | 88     |
| 4.00                             | 110  | 106 | 103       | 108 | 105 | 102 | 104 | 101           | 99  | 91     |
| 5.00                             | 112  | 109 | 106       | 110 | 107 | 104 | 106 | 103           | 101 | 93     |
| ROOM INDEX                       | UF (total)   |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: DEG  
 Operators: guanlingao  
 Test Date: 2017-12-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
 Humidity: 65.0%  
 Test Distance: 9.390m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|   |                       |                   |
|---|-----------------------|-------------------|
| Test:U:277.0V I:0.3766A P:101.6W PF:0.9737 Lamp Flux:14865.7x1 lm |                       |                   |
| NAME: LM-100W   | TYPE:90°Lens          | WEIGHT:3.849kg    |
| SPEC.:5000k R80 264L  | DIM.: D280mm*167mm    | SERIAL No.:       |
| MFR.:   | SUR.:0.12m*0.12m*3.14 | PROTECTION ANGLE: |

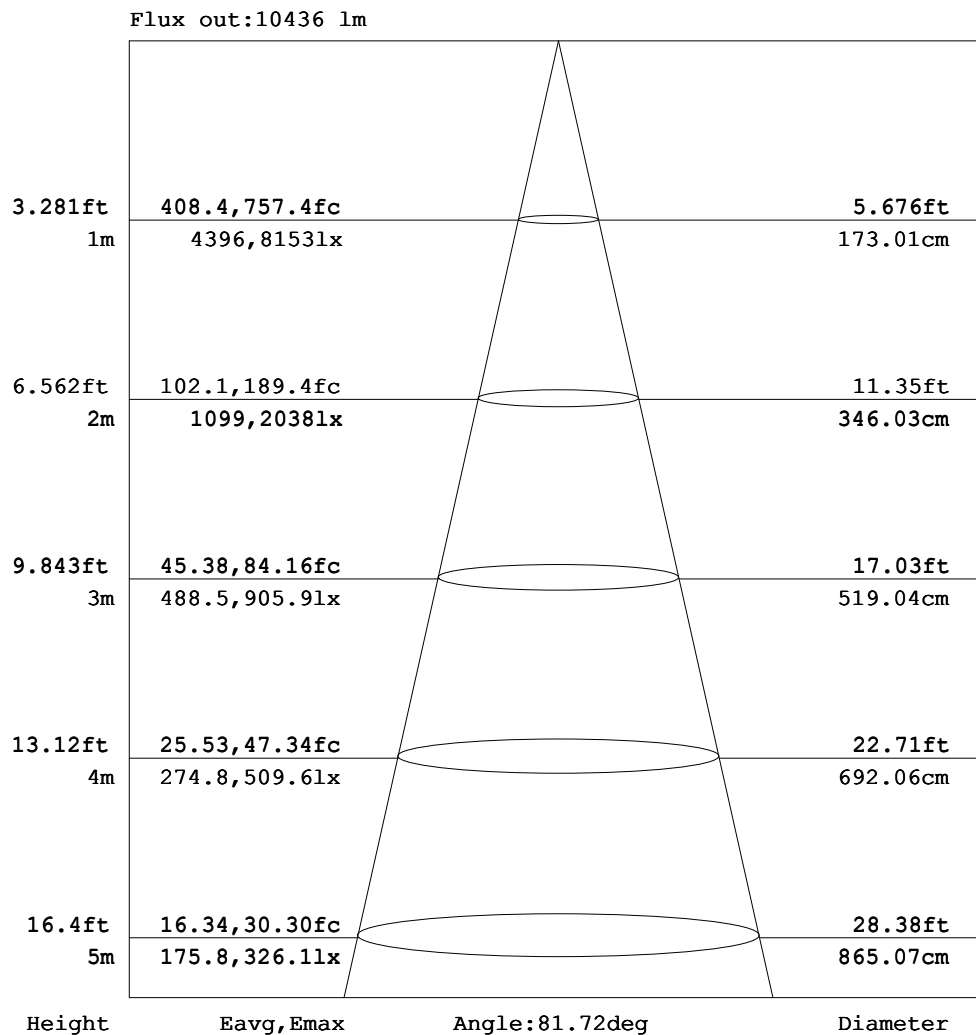


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: DEG  
Operators: guanlingao  
Test Date: 2017-12-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
Humidity: 65.0%  
Test Distance: 9.390m [K=1.0000]  
Remarks:

### AAI Figure

|   |                       |                   |
|---|-----------------------|-------------------|
| Test:U:277.0V I:0.3766A P:101.6W PF:0.9737 Lamp Flux:14865.7x1 lm |                       |                   |
| NAME: LM-100W   | TYPE:90°Lens          | WEIGHT:3.849kg    |
| SPEC.:5000k R80 264L  | DIM.: D280mm*167mm    | SERIAL No.:       |
| MFR.:   | SUR.:0.12m*0.12m*3.14 | PROTECTION ANGLE: |



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

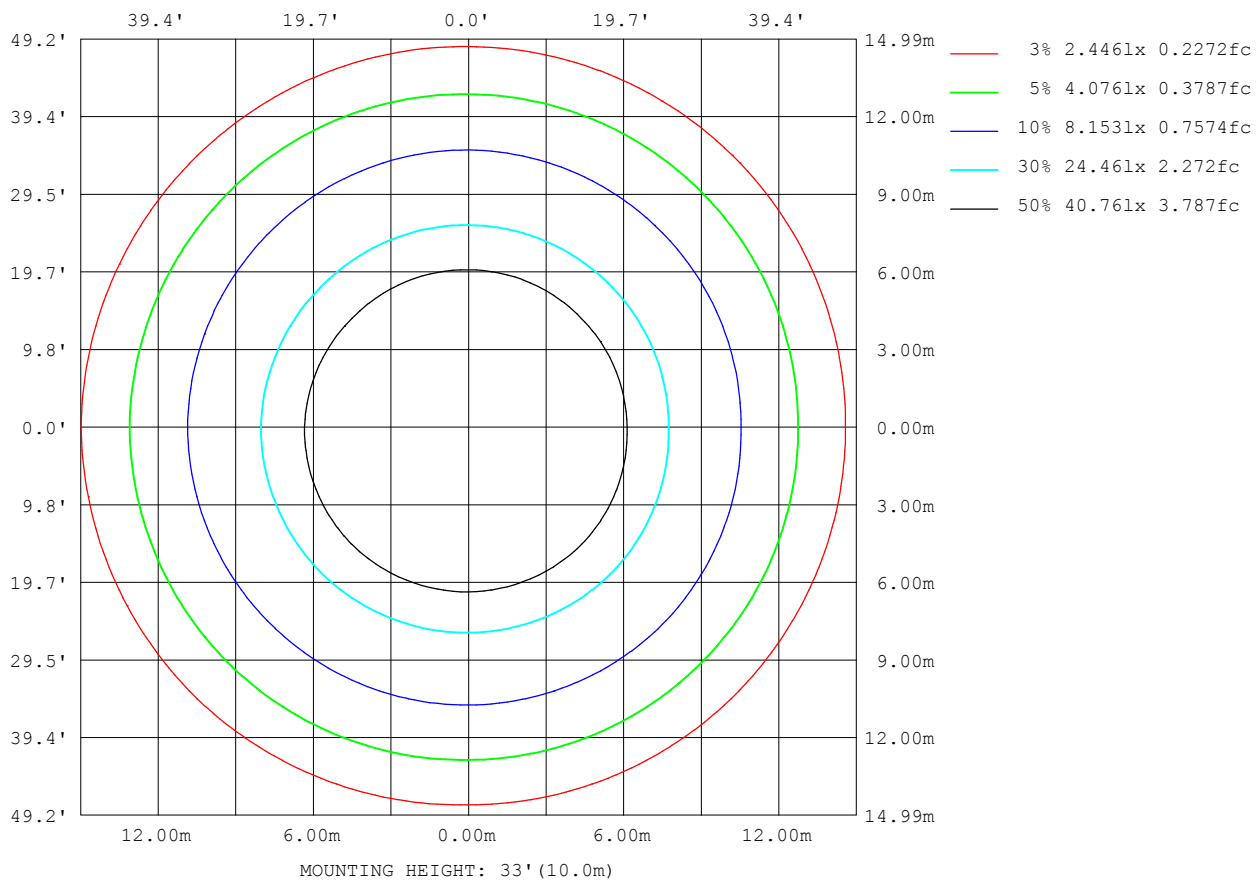
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: DEG  
Operators: guanlingao  
Test Date: 2017-12-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
Humidity: 65.0%  
Test Distance: 9.390m [K=1.0000]  
Remarks:



## ISOLUX DIAGRAM

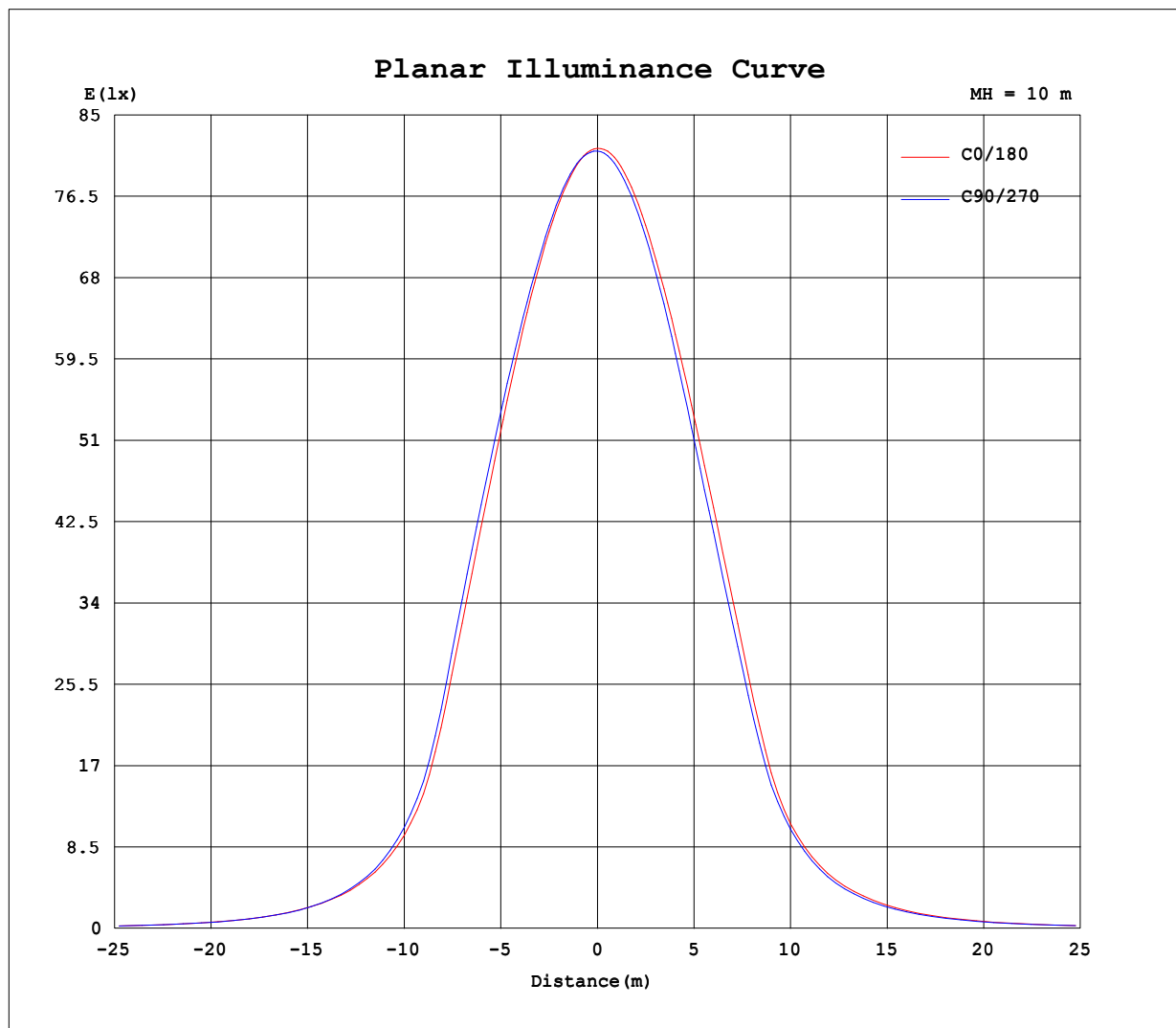
|   |                       |                   |
|---|-----------------------|-------------------|
| Test:U:277.0V I:0.3766A P:101.6W PF:0.9737 Lamp Flux:14865.7x1 lm |                       |                   |
| NAME: LM-100W   | TYPE:90°Lens          | WEIGHT:3.849kg    |
| SPEC.:5000k R80 264L  | DIM.: D280mm*167mm    | SERIAL No.:       |
| MFR.:   | SUR.:0.12m*0.12m*3.14 | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: DEG  
Operators: guanlingao  
Test Date: 2017-12-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
Humidity: 65.0%  
Test Distance: 9.390m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: DEG  
Operators: guanlingao  
Test Date: 2017-12-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
Humidity: 65.0%  
Test Distance: 9.390m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|   |                       |                   |
|---|-----------------------|-------------------|
| Test:U:277.0V I:0.3766A P:101.6W PF:0.9737 Lamp Flux:14865.7x1 lm |                       |                   |
| NAME: LM-100W   | TYPE:90°Lens          | WEIGHT:3.849kg    |
| SPEC.:5000k R80 264L  | DIM.: D280mm*167mm    | SERIAL No.:       |
| MFR.:   | SUR.:0.12m*0.12m*3.14 | PROTECTION ANGLE: |

Table--1

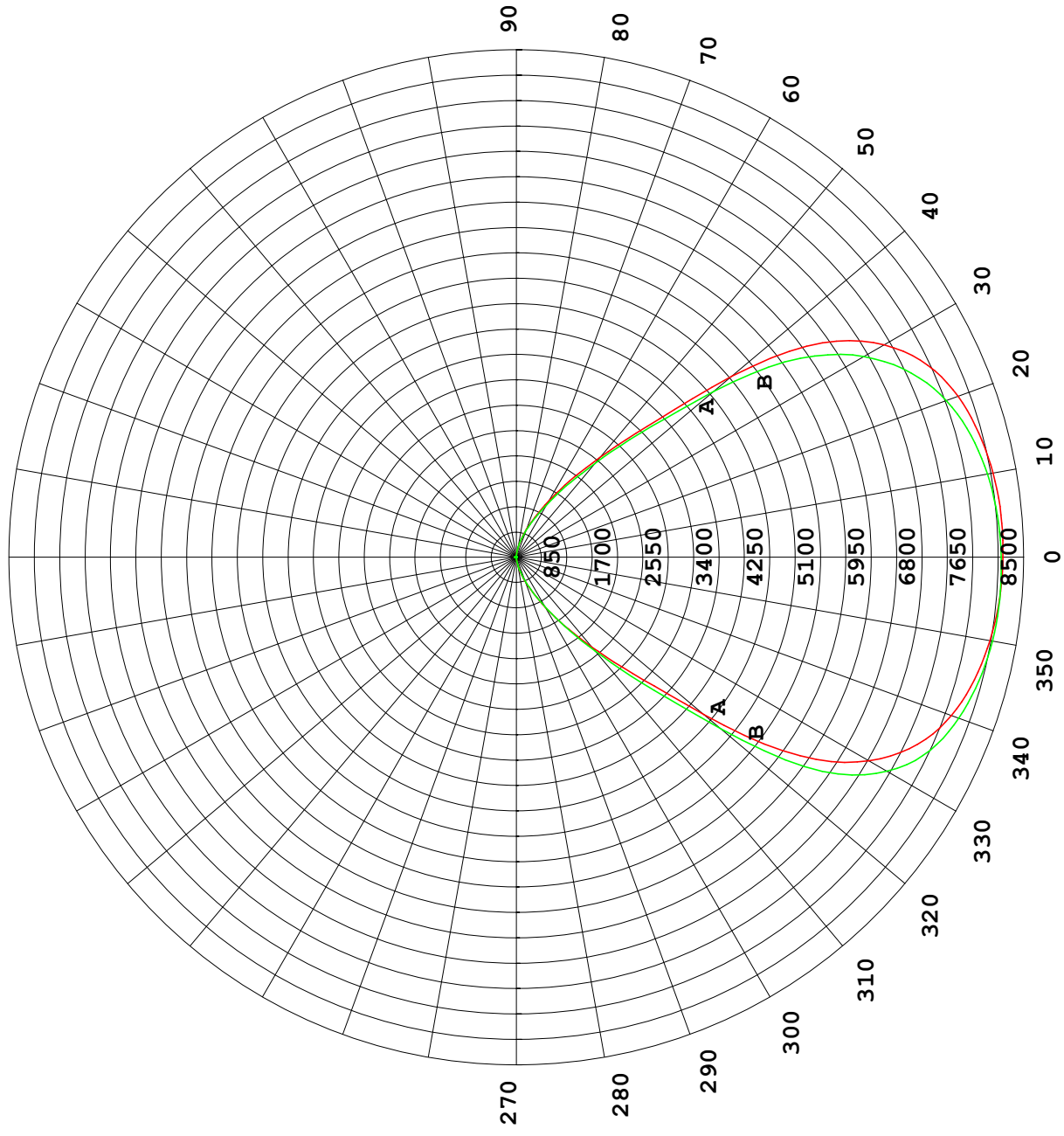
UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 45   | 90   | 135  | 180  | 225  | 270  | 315  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| 0                  | 8153 | 8141 | 8123 | 8113 | 8153 | 8141 | 8123 | 8113 |  |  |  |  |  |  |  |  |  |  |
| 5                  | 8125 | 8133 | 8130 | 8120 | 8151 | 8119 | 8090 | 8075 |  |  |  |  |  |  |  |  |  |  |
| 10                 | 8057 | 8088 | 8100 | 8089 | 8109 | 8053 | 8015 | 7999 |  |  |  |  |  |  |  |  |  |  |
| 15                 | 7944 | 8000 | 8023 | 8017 | 8023 | 7931 | 7884 | 7872 |  |  |  |  |  |  |  |  |  |  |
| 20                 | 7758 | 7854 | 7889 | 7888 | 7875 | 7732 | 7667 | 7665 |  |  |  |  |  |  |  |  |  |  |
| 25                 | 7417 | 7586 | 7653 | 7658 | 7606 | 7396 | 7298 | 7301 |  |  |  |  |  |  |  |  |  |  |
| 30                 | 6824 | 7067 | 7173 | 7198 | 7114 | 6841 | 6721 | 6704 |  |  |  |  |  |  |  |  |  |  |
| 35                 | 5805 | 6119 | 6255 | 6327 | 6259 | 5928 | 5810 | 5736 |  |  |  |  |  |  |  |  |  |  |
| 40                 | 4105 | 4411 | 4477 | 4613 | 4714 | 4414 | 4315 | 4216 |  |  |  |  |  |  |  |  |  |  |
| 45                 | 2761 | 2940 | 2991 | 3026 | 3098 | 2994 | 2936 | 2842 |  |  |  |  |  |  |  |  |  |  |
| 50                 | 1973 | 2028 | 2052 | 2135 | 2178 | 2111 | 2046 | 2001 |  |  |  |  |  |  |  |  |  |  |
| 55                 | 1401 | 1419 | 1413 | 1512 | 1561 | 1499 | 1453 | 1426 |  |  |  |  |  |  |  |  |  |  |
| 60                 | 969  | 956  | 960  | 1043 | 1082 | 1038 | 1005 | 985  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 655  | 641  | 640  | 699  | 736  | 714  | 693  | 676  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 429  | 422  | 413  | 452  | 489  | 480  | 474  | 462  |  |  |  |  |  |  |  |  |  |  |
| 75                 | 250  | 247  | 241  | 262  | 292  | 288  | 288  | 276  |  |  |  |  |  |  |  |  |  |  |
| 80                 | 107  | 110  | 103  | 117  | 141  | 137  | 142  | 130  |  |  |  |  |  |  |  |  |  |  |
| 85                 | 17.7 | 19.8 | 19.4 | 27.1 | 37.3 | 35.1 | 34.8 | 26.4 |  |  |  |  |  |  |  |  |  |  |
| 90                 | 1.02 | 1.00 | 1.02 | 0.98 | 0.97 | 0.84 | 0.82 | 0.79 |  |  |  |  |  |  |  |  |  |  |
| 95                 | 1.37 | 1.36 | 1.34 | 1.31 | 0.92 | 0.91 | 0.90 | 0.95 |  |  |  |  |  |  |  |  |  |  |
| 100                | 1.97 | 1.93 | 1.90 | 1.84 | 1.29 | 1.28 | 1.27 | 1.34 |  |  |  |  |  |  |  |  |  |  |
| 105                | 2.80 | 2.72 | 2.68 | 2.60 | 1.85 | 1.86 | 1.85 | 1.96 |  |  |  |  |  |  |  |  |  |  |
| 110                | 3.97 | 3.82 | 3.77 | 3.66 | 2.62 | 2.68 | 2.66 | 2.81 |  |  |  |  |  |  |  |  |  |  |
| 115                | 5.62 | 5.35 | 5.31 | 5.14 | 3.69 | 3.83 | 3.82 | 3.98 |  |  |  |  |  |  |  |  |  |  |
| 120                | 7.81 | 7.40 | 7.33 | 7.11 | 5.19 | 5.46 | 5.42 | 5.67 |  |  |  |  |  |  |  |  |  |  |
| 125                | 10.4 | 9.86 | 9.76 | 9.53 | 7.16 | 7.57 | 7.54 | 7.86 |  |  |  |  |  |  |  |  |  |  |
| 130                | 13.3 | 12.7 | 12.5 | 12.3 | 9.57 | 10.1 | 10.1 | 10.4 |  |  |  |  |  |  |  |  |  |  |
| 135                | 16.4 | 15.7 | 15.6 | 15.3 | 12.2 | 12.8 | 12.9 | 13.2 |  |  |  |  |  |  |  |  |  |  |
| 140                | 19.5 | 18.8 | 18.6 | 18.4 | 14.8 | 15.3 | 15.5 | 15.7 |  |  |  |  |  |  |  |  |  |  |
| 145                | 22.2 | 21.5 | 21.3 | 21.1 | 17.4 | 17.9 | 18.0 | 18.2 |  |  |  |  |  |  |  |  |  |  |
| 150                | 24.3 | 23.7 | 23.5 | 23.4 | 19.5 | 20.1 | 20.1 | 20.2 |  |  |  |  |  |  |  |  |  |  |
| 155                | 26.2 | 25.7 | 25.5 | 25.4 | 21.8 | 22.2 | 22.3 | 22.3 |  |  |  |  |  |  |  |  |  |  |
| 160                | 28.1 | 27.7 | 27.5 | 27.4 | 24.2 | 24.6 | 24.7 | 24.7 |  |  |  |  |  |  |  |  |  |  |
| 165                | 29.7 | 29.4 | 29.2 | 29.1 | 26.2 | 26.6 | 26.7 | 26.7 |  |  |  |  |  |  |  |  |  |  |
| 170                | 30.8 | 30.5 | 30.4 | 30.4 | 28.2 | 28.5 | 28.7 | 28.6 |  |  |  |  |  |  |  |  |  |  |
| 175                | 31.1 | 31.1 | 31.0 | 31.0 | 30.9 | 31.0 | 31.1 | 30.9 |  |  |  |  |  |  |  |  |  |  |
| 180                | 31.6 | 31.7 | 31.7 | 31.7 | 31.6 | 31.7 | 31.7 | 31.6 |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: DEG  
 Operators: guanlingao  
 Test Date: 2017-12-29

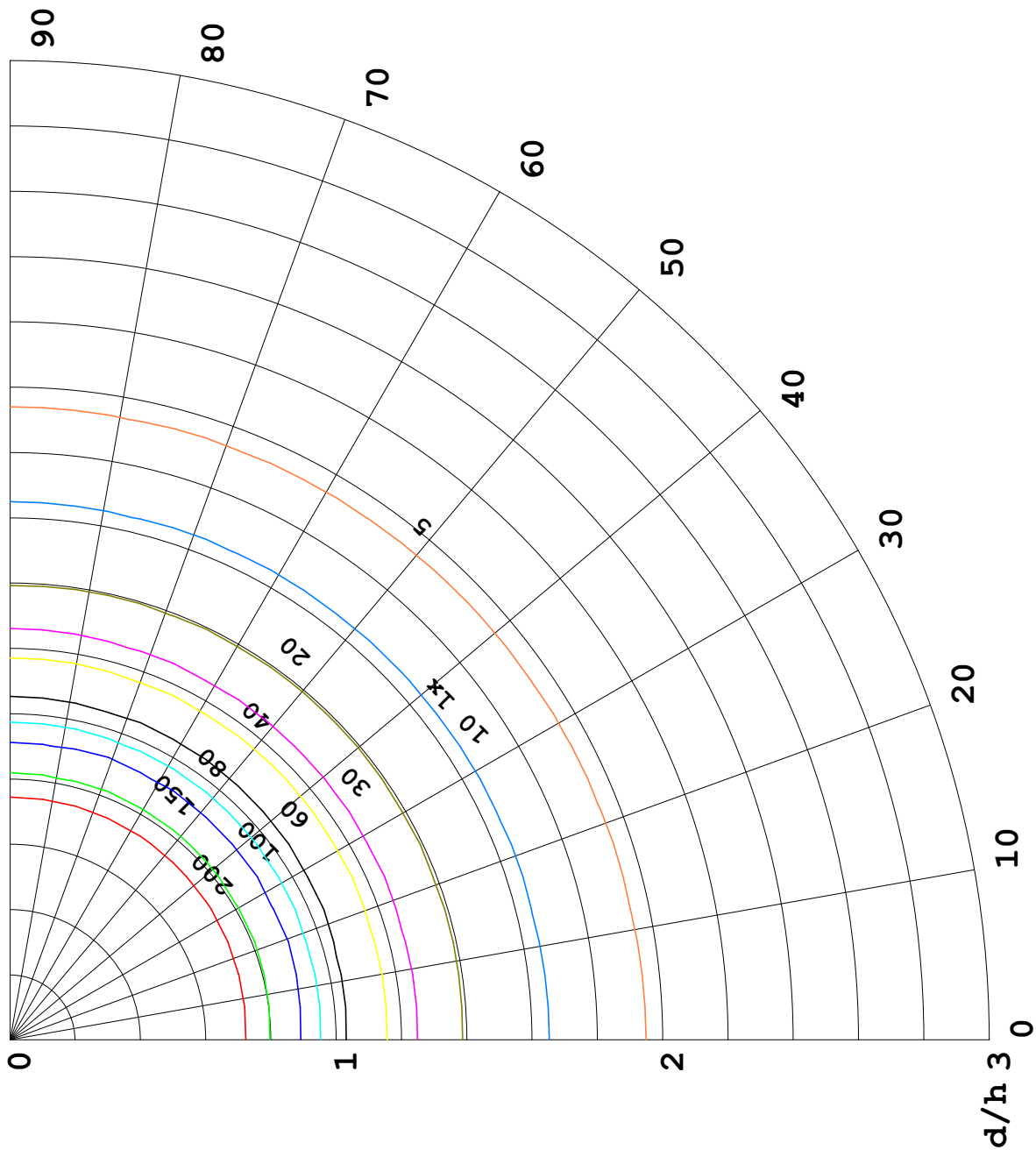
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
 Humidity: 65.0%  
 Test Distance: 9.390m [K=1.0000]  
 Remarks:

I (cd)



$\kappa = 1$

1000 lm



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  |

