

## Goniophotometer Test Report

### Product Info

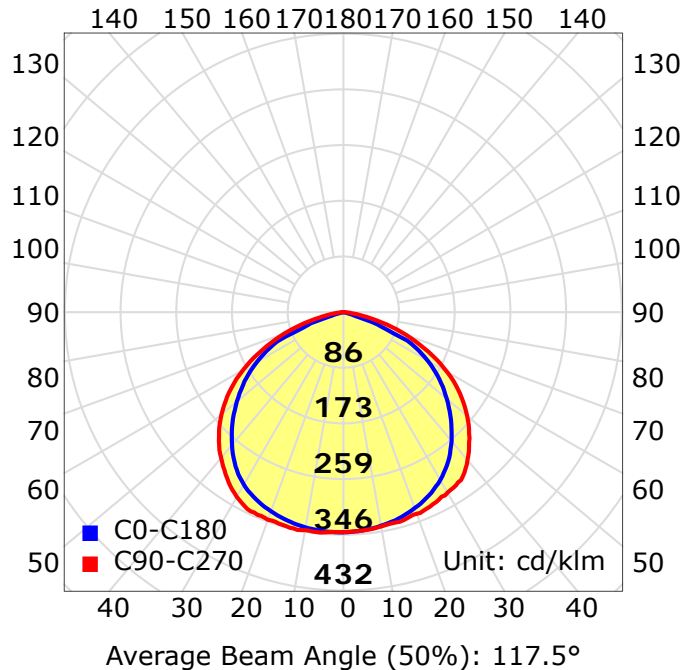
Luminaire Category : **Linear 1500 Growth 160W**  
 Lamp Category : **LED**  
 Manufacturer : **INDUSTRIAL LIGHTING**  
 Number of Lamps : **1** Lumens per Lamp : **10092 lm**  
 Luminous Length : **1500 mm** Luminous Width : **70 mm** Luminous Height : **0 mm**

### Electric Parameters

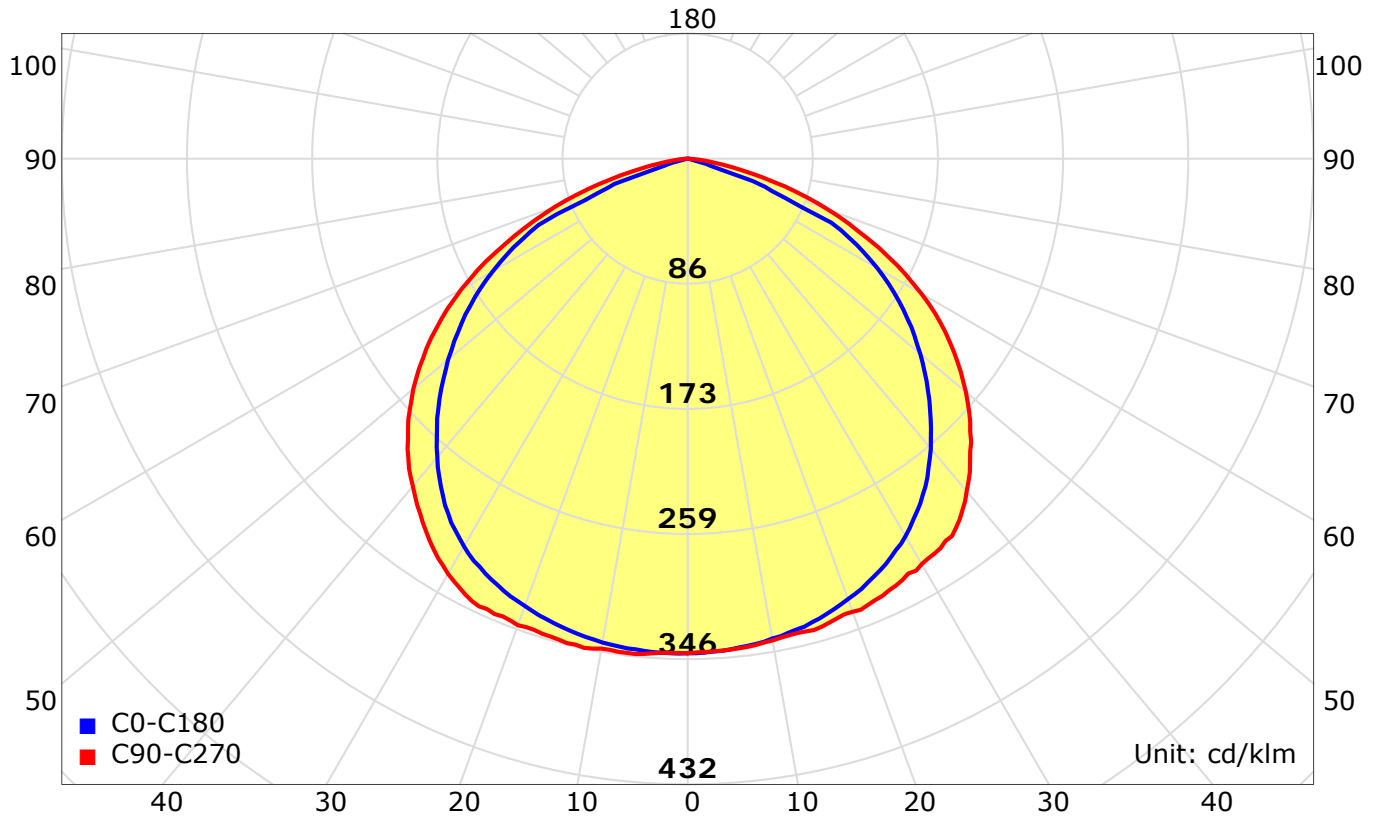
Voltage : **229.00 V** Current : **0.7060 A** Power : **161.00 W** Power Factor : **0.99** Frequency : **49.99 Hz**

### Photometric Parameters

|   |  |
|---|--|
| CIE Class : <b>Direct</b><br>Measurement Flux : <b>10091.5 lm</b><br>Upward Ratio : <b>0.00 %</b><br>Maximum Intensity : <b>345.85 cd/klm</b><br>Central Intensity : <b>341.66 cd/klm</b><br>Luminaire Efficacy Rating (LER) : <b>63</b><br>Conical Flux (90°) : <b>5661.89 lm (56.1%)</b><br>Beam Angle (C0-C180,C90-C270) : <b>114.5 °, 122.6 °</b><br>Field Angle (C0-C180,C90-C270) : <b>143.2 °, 156.3 °</b> | Total Rated Lamp Lumens : <b>10091.5 lm</b><br>Efficiency : <b>100.00 %</b><br>Downward Ratio : <b>100.00 %</b><br>Position Of Maximum Intensity : <b>C265° γ11°</b><br>S/MH(C0-C180,C90-C270) : <b>1.32, 1.42</b><br>Energy Efficiency Class : <b>G (EU 2019/2015 □TM:61lm/W)</b><br>Conical Flux (120°) : <b>8419.34 lm (83.4%)</b><br>Beam Angle (C45-C225,C135-C315) : <b>116.0 °, 116.0 °</b><br>Field Angle (C45-C225,C135-C315) : <b>150.5 °, 150.5 °</b> |
|---|--|



### Light Distribution Curve



### Light Distribution Curve (cd/klm)



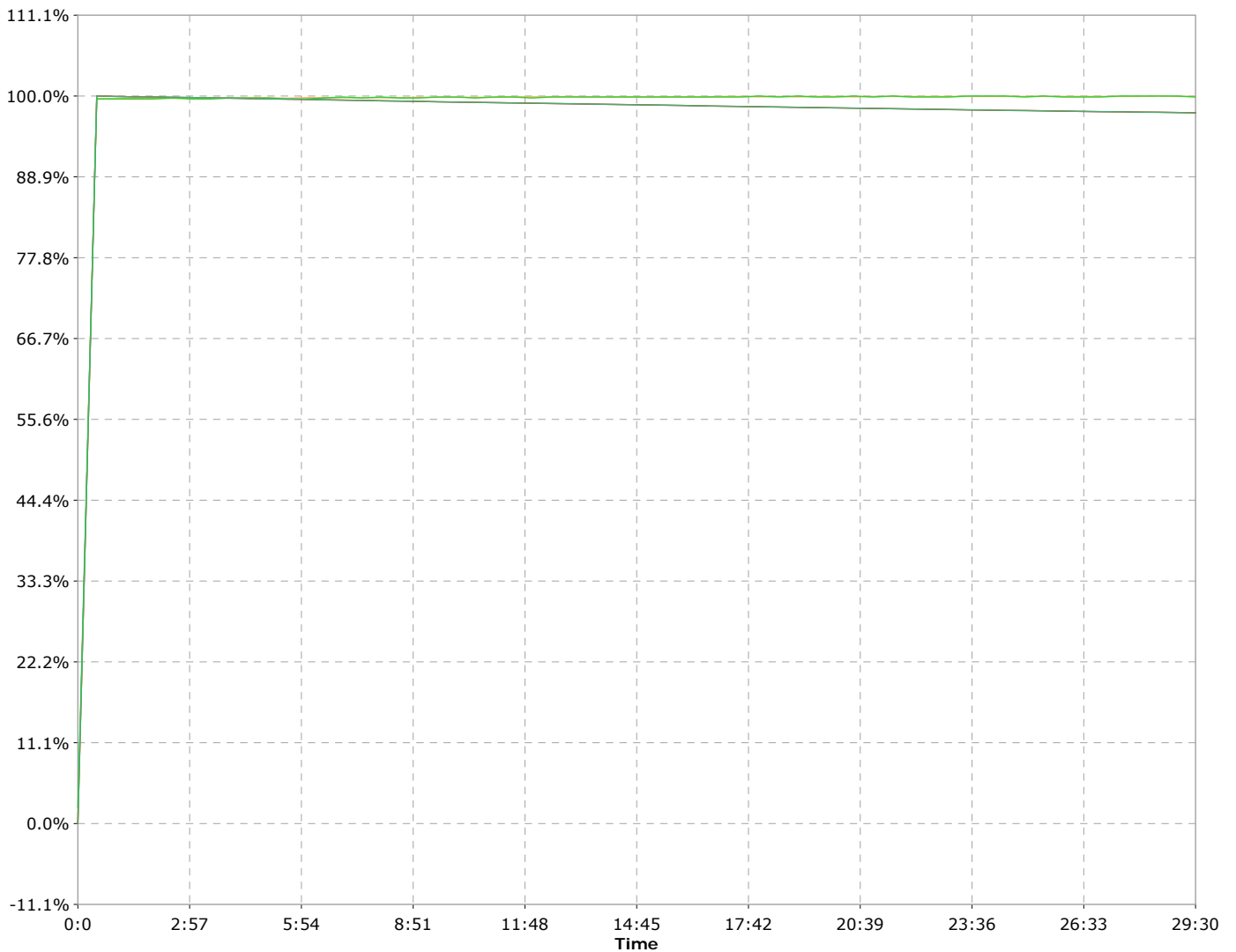


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### Warmup Log



Stable time: 29:30

Uptime: 0:30

| Parameters             | Maximum | Minimum | Change  |
|------------------------|---------|---------|---------|
| Luminous intensity ,cd | 3329.13 | 0.00    | 3329.13 |
| Power ,W               | 161.00  | 0.69    | 160.31  |
| Current ,A             | 0.7060  | 0.0150  | 0.6910  |
| Illumination ,lx       | 50.277  | 0.000   | 50.277  |



### UGR

| Reflectance      |                  |      |      |      |      |                |      |      |      |      |
|------------------|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling (cavity) | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall             | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Reference 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        | 24.0             | 25.6 | 24.4 | 25.9 | 26.2 | 25.3           | 26.9 | 25.6 | 27.2 | 27.5 |
| 3H               | 24.8             | 26.3 | 25.2 | 26.6 | 27.0 | 26.9           | 28.3 | 27.3 | 28.6 | 29.0 |
| 4H               | 24.8             | 26.1 | 25.2 | 26.5 | 26.9 | 27.4           | 28.7 | 27.8 | 29.1 | 29.4 |
| 6H               | 24.7             | 26.0 | 25.1 | 26.3 | 26.7 | 27.6           | 28.8 | 28.0 | 29.2 | 29.6 |
| 8H               | 24.7             | 25.9 | 25.1 | 26.3 | 26.7 | 27.6           | 28.8 | 28.0 | 29.2 | 29.6 |
| 12H              | 24.7             | 25.8 | 25.1 | 26.2 | 26.6 | 27.6           | 28.7 | 28.0 | 29.1 | 29.5 |
| X=4H Y=2H        | 24.6             | 25.9 | 25.0 | 26.3 | 26.7 | 25.7           | 27.0 | 26.1 | 27.4 | 27.8 |
| 3H               | 25.5             | 26.6 | 25.9 | 27.0 | 27.4 | 27.4           | 28.6 | 27.8 | 29.0 | 29.4 |
| 4H               | 25.5             | 26.5 | 25.9 | 26.9 | 27.3 | 28.0           | 29.0 | 28.4 | 29.4 | 29.8 |
| 6H               | 25.4             | 26.3 | 25.9 | 26.7 | 27.2 | 28.2           | 29.1 | 28.7 | 29.5 | 30.0 |
| 8H               | 25.4             | 26.2 | 25.9 | 26.6 | 27.1 | 28.3           | 29.1 | 28.7 | 29.5 | 30.0 |
| 12H              | 25.4             | 26.1 | 25.8 | 26.6 | 27.0 | 28.3           | 29.0 | 28.8 | 29.5 | 29.9 |
| X=8H Y=4H        | 25.6             | 26.4 | 26.0 | 26.8 | 27.3 | 28.0           | 28.8 | 28.5 | 29.3 | 29.7 |
| 6H               | 25.5             | 26.2 | 26.0 | 26.7 | 27.1 | 28.3           | 28.9 | 28.8 | 29.4 | 29.9 |
| 8H               | 25.5             | 26.1 | 26.0 | 26.6 | 27.1 | 28.3           | 28.9 | 28.8 | 29.4 | 29.9 |
| 12H              | 25.4             | 26.0 | 25.9 | 26.5 | 27.0 | 28.3           | 28.9 | 28.8 | 29.4 | 29.9 |
| X=12H Y=4H       | 25.6             | 26.3 | 26.0 | 26.8 | 27.2 | 28.0           | 28.7 | 28.5 | 29.2 | 29.7 |
| 6H               | 25.5             | 26.1 | 26.0 | 26.5 | 27.1 | 28.3           | 28.8 | 28.8 | 29.3 | 29.8 |
| 8H               | 25.5             | 26.0 | 26.0 | 26.5 | 27.0 | 28.3           | 28.8 | 28.8 | 29.3 | 29.9 |

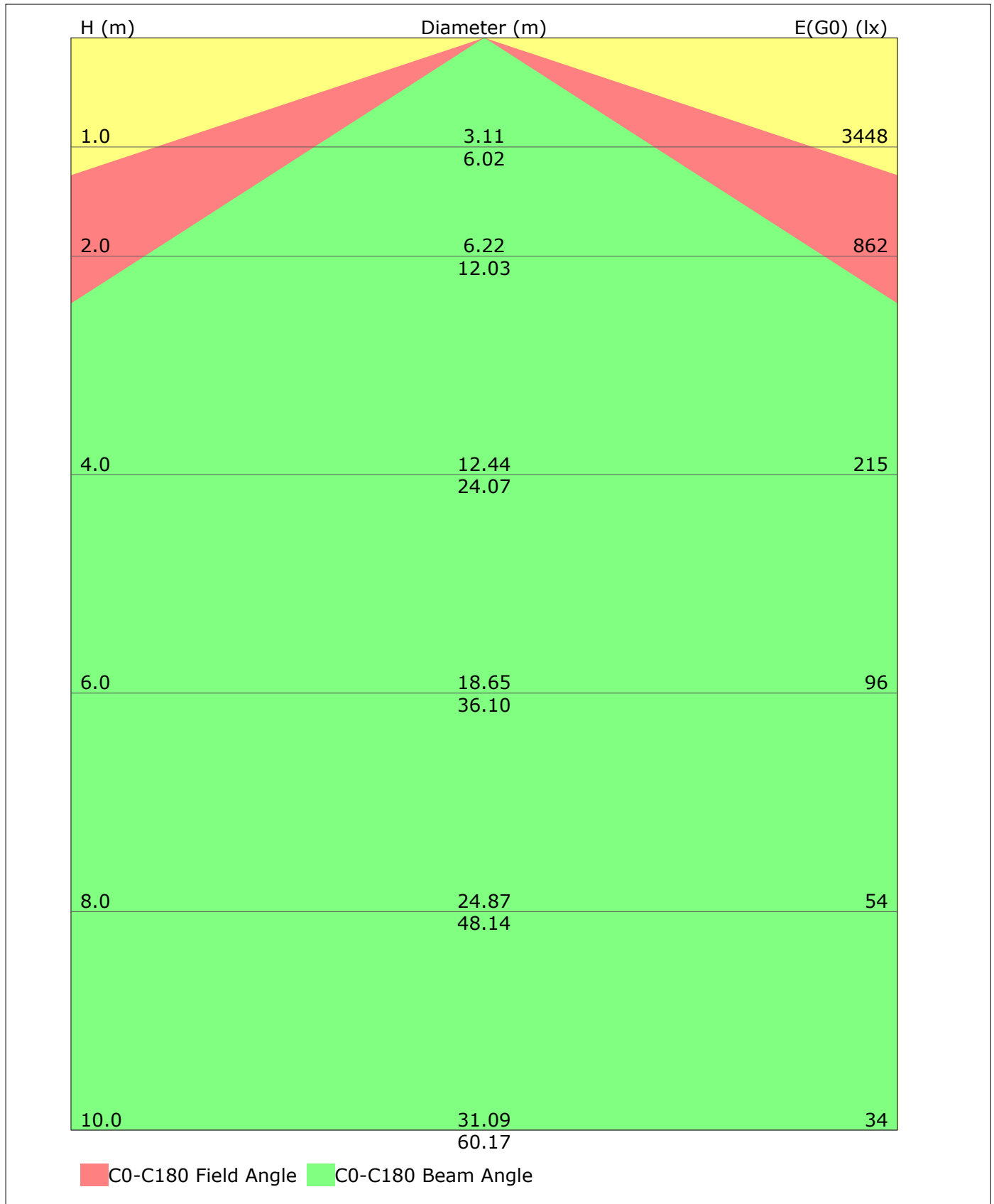
Calculate in accordance with CIE 190:2010. The table is corrected with 10092lm ( $8\log(F/F_0) = 8.0$ ).

| Reflectance                                       |                  |      |      |      |      |                |      |      |      |      |
|---|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling (cavity)                                  | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall  | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Reference 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   | 24.4             | 25.8 | 24.7 | 26.0 | 26.3 | 25.4           | 26.7 | 25.7 | 27.0 | 27.2 |
| 3H  | 25.2             | 26.5 | 25.6 | 26.7 | 27.0 | 26.8           | 28.0 | 27.1 | 28.3 | 28.5 |
| 4H  | 25.2             | 26.3 | 25.5 | 26.6 | 26.9 | 27.2           | 28.3 | 27.5 | 28.6 | 28.9 |
| 6H  | 25.1             | 26.2 | 25.5 | 26.5 | 26.8 | 27.3           | 28.4 | 27.7 | 28.7 | 29.0 |
| 8H  | 25.1             | 26.1 | 25.4 | 26.4 | 26.7 | 27.3           | 28.4 | 27.7 | 28.7 | 29.0 |
| 12H   | 25.0             | 26.0 | 25.4 | 26.3 | 26.7 | 27.3           | 28.3 | 27.7 | 28.6 | 29.0 |
| X=4H Y=2H   | 25.1             | 26.2 | 25.4 | 26.5 | 26.8 | 25.8           | 27.0 | 26.2 | 27.3 | 27.6 |
| 3H  | 26.0             | 27.0 | 26.3 | 27.3 | 27.6 | 27.3           | 28.3 | 27.7 | 28.6 | 29.0 |
| 4H  | 25.9             | 26.8 | 26.3 | 27.2 | 27.5 | 27.8           | 28.7 | 28.2 | 29.0 | 29.4 |
| 6H  | 25.9             | 26.6 | 26.3 | 27.0 | 27.4 | 28.0           | 28.7 | 28.4 | 29.1 | 29.5 |
| 8H  | 25.8             | 26.5 | 26.3 | 26.9 | 27.3 | 28.0           | 28.7 | 28.4 | 29.1 | 29.5 |
| 12H   | 25.8             | 26.4 | 26.2 | 26.8 | 27.3 | 28.0           | 28.6 | 28.4 | 29.0 | 29.5 |
| X=8H Y=4H   | 26.0             | 26.7 | 26.4 | 27.1 | 27.5 | 27.8           | 28.5 | 28.2 | 28.9 | 29.3 |
| 6H  | 25.9             | 26.5 | 26.4 | 26.9 | 27.4 | 28.0           | 28.6 | 28.5 | 29.0 | 29.5 |
| 8H  | 25.9             | 26.4 | 26.4 | 26.9 | 27.3 | 28.0           | 28.5 | 28.5 | 29.0 | 29.5 |
| 12H   | 25.9             | 26.3 | 26.4 | 26.8 | 27.3 | 28.0           | 28.5 | 28.5 | 28.9 | 29.4 |
| X=12H Y=4H  | 26.0             | 26.6 | 26.4 | 27.0 | 27.5 | 27.8           | 28.4 | 28.2 | 28.8 | 29.2 |
| 6H  | 25.9             | 26.4 | 26.4 | 26.9 | 27.4 | 28.0           | 28.5 | 28.5 | 28.9 | 29.4 |
| 8H  | 25.9             | 26.3 | 26.4 | 26.8 | 27.3 | 28.0           | 28.4 | 28.5 | 28.9 | 29.4 |
| Variations with the observer position at spacings |                  |      |      |      |      |                |      |      |      |      |
| S=1.0H  |                  |      |      |      |      | +0.3/-0.5      |      |      |      |      |
| S=1.5H  |                  |      |      |      |      | +0.3/-0.6      |      |      |      |      |
| S=2.0H  |                  |      |      |      |      | +1.0/-1.9      |      |      |      |      |

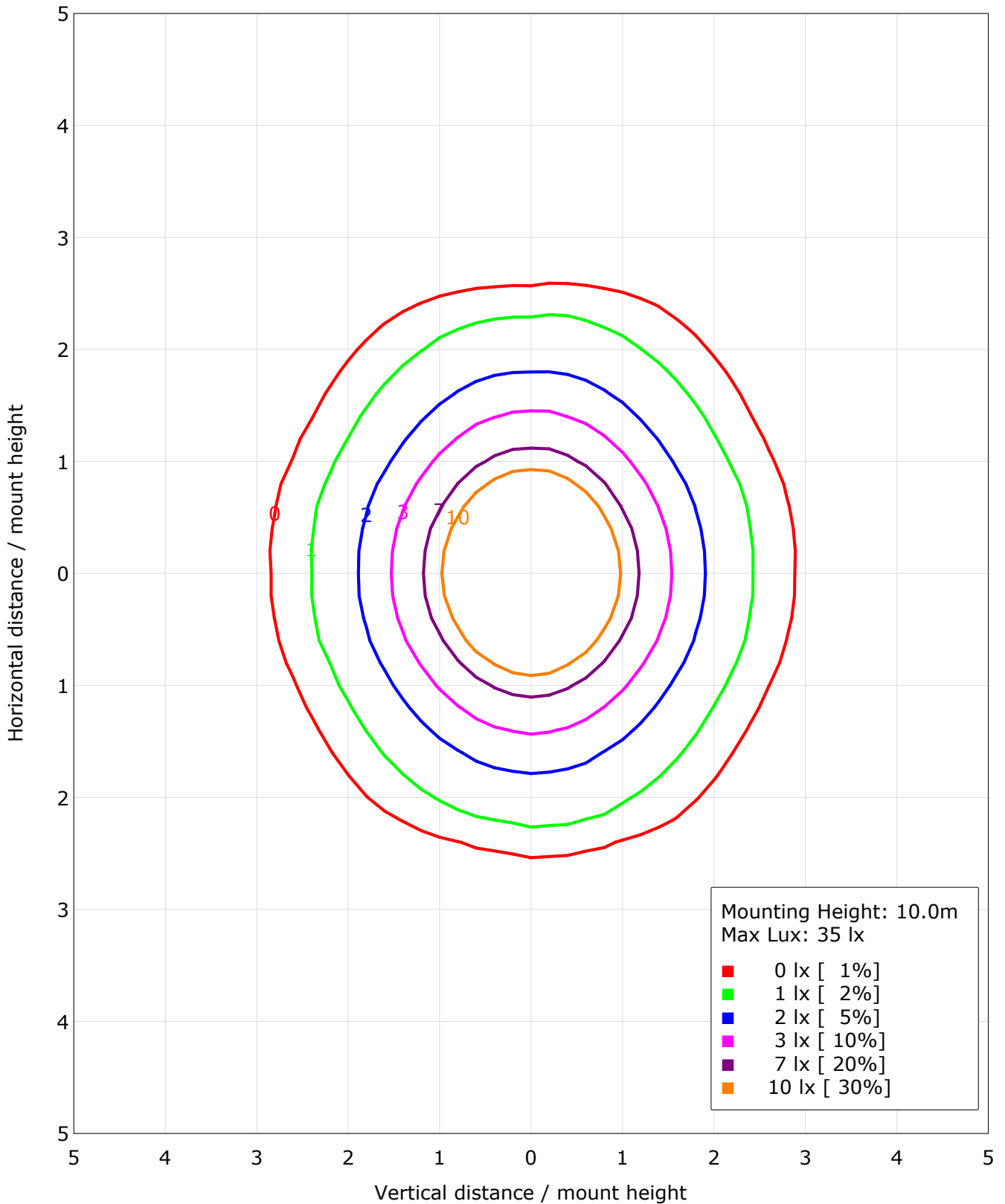
Calculate in accordance with CIE Pub.117. The table is corrected with 10092lm ( $8\log(F/F_0) = 8.0$ ).



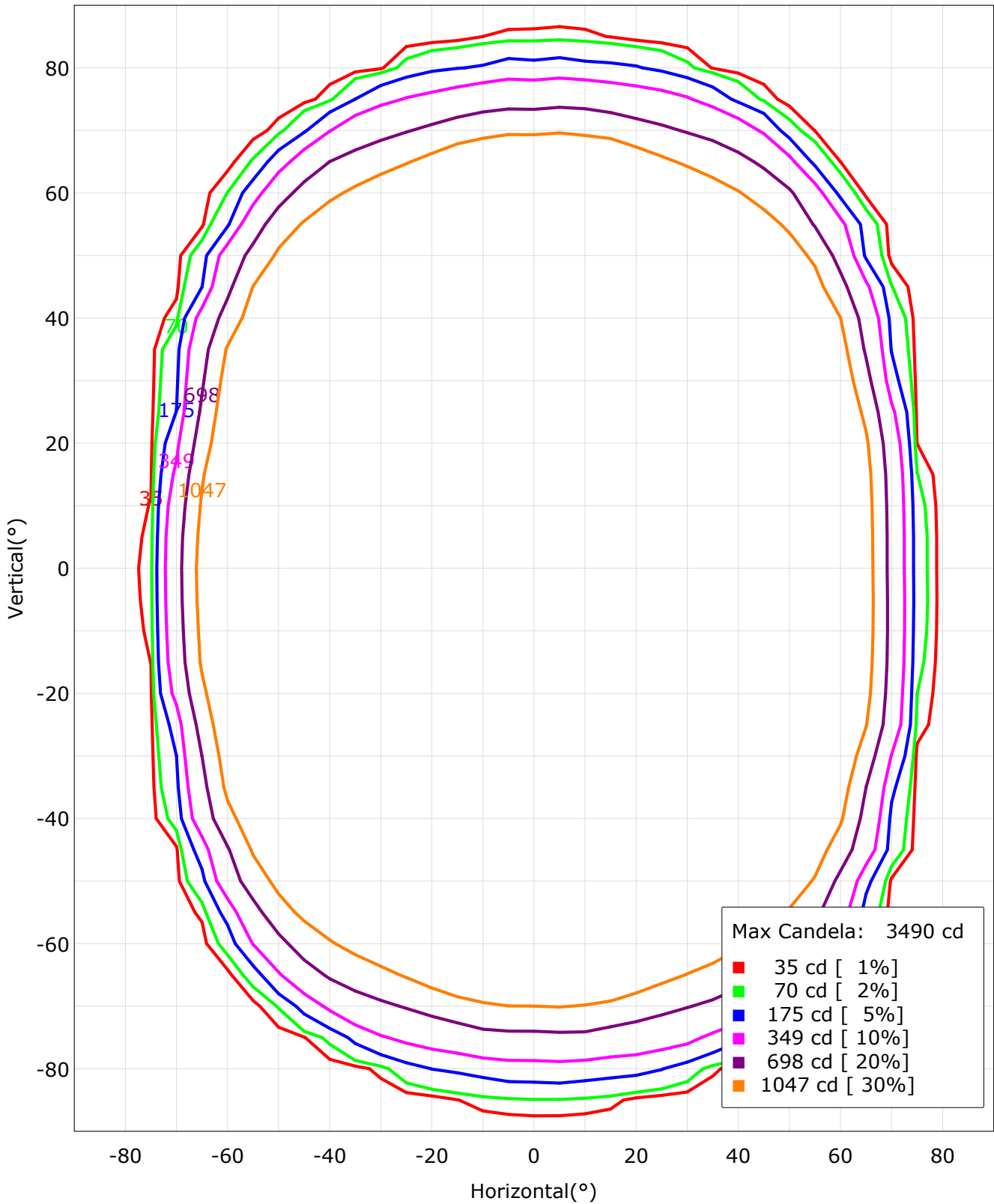
### Lux-Distance



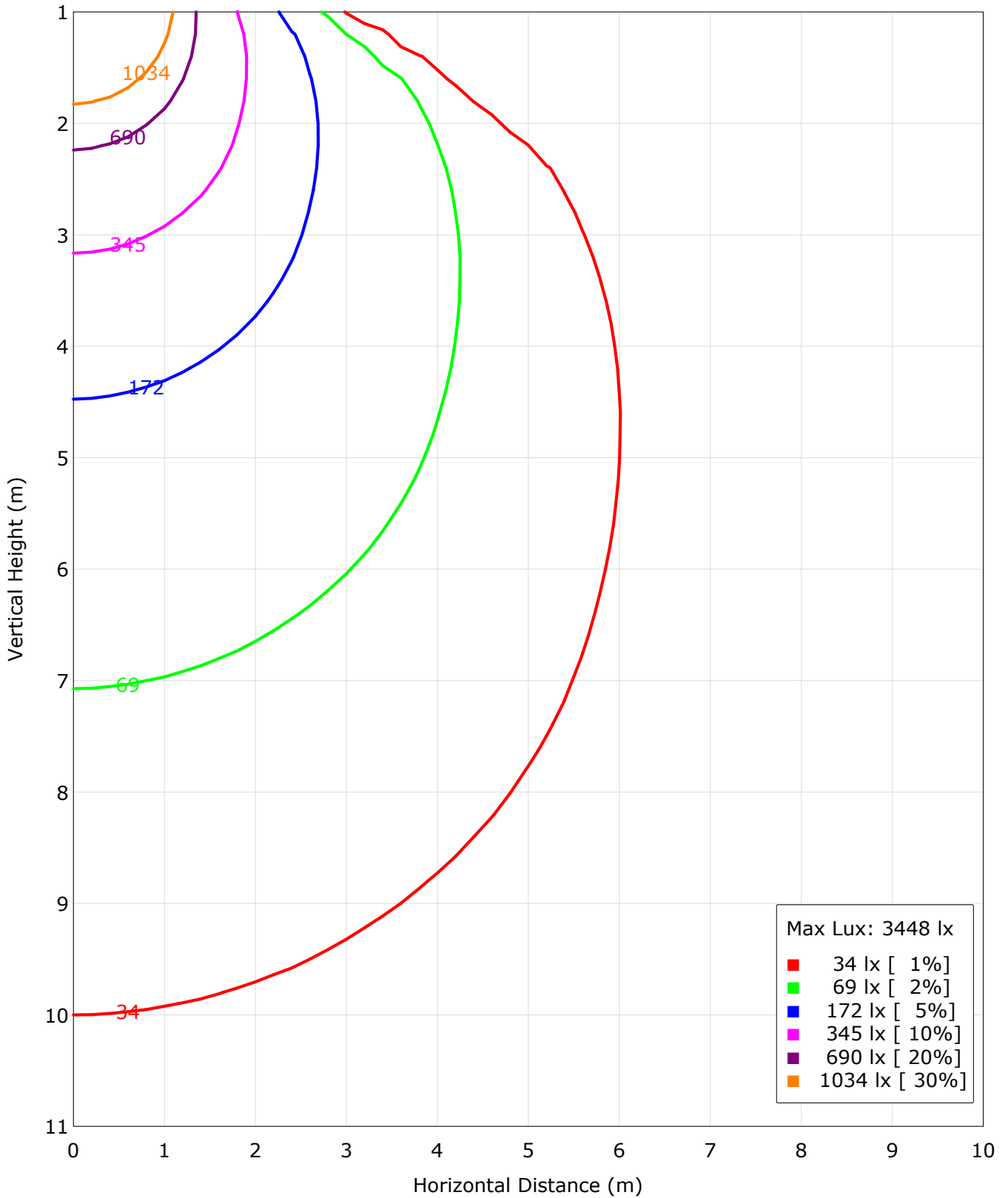
### ISOlux



### IsoCandela

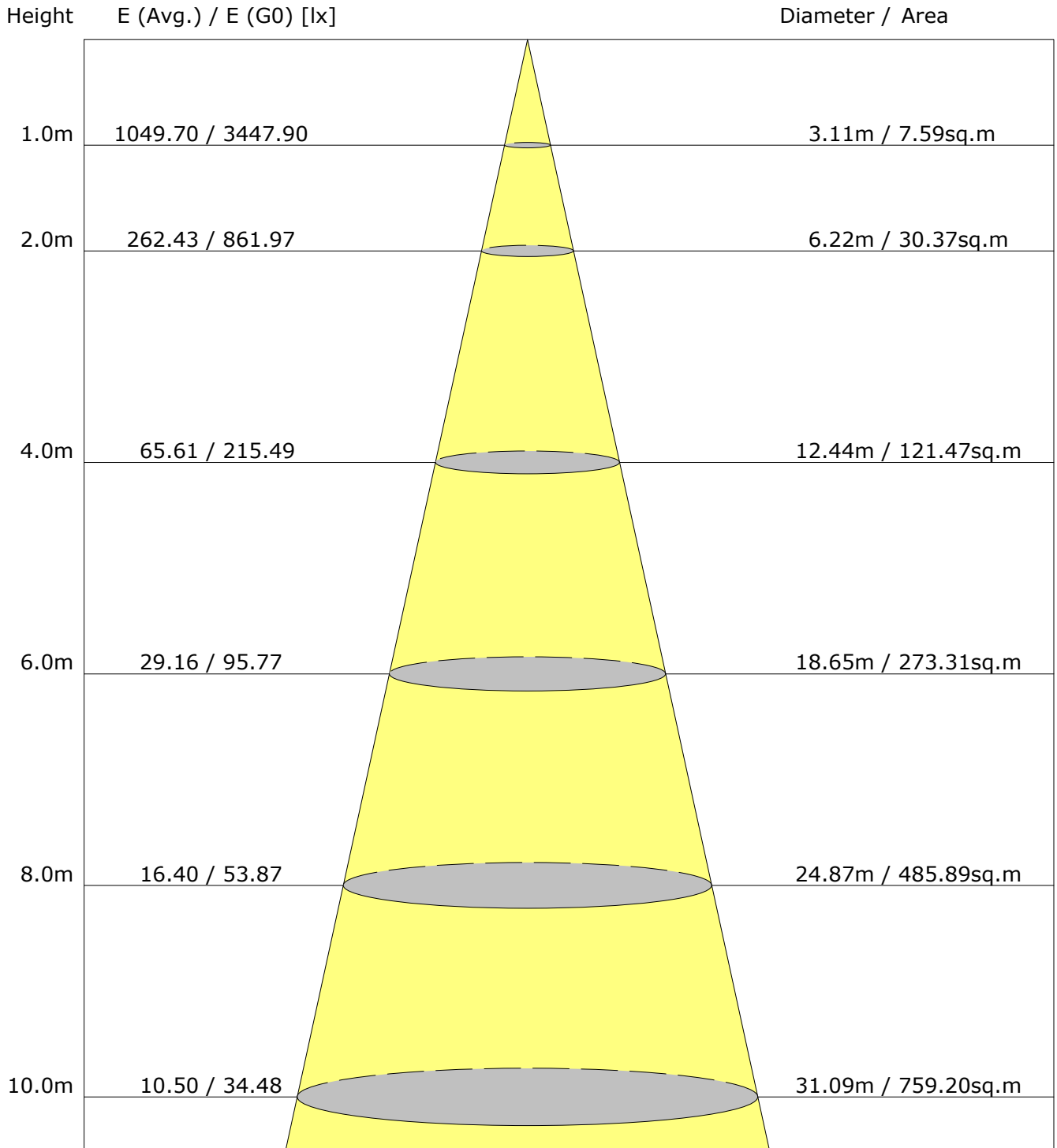


### Vertical IsoLux Plot





### Average Illuminance Effective Figure



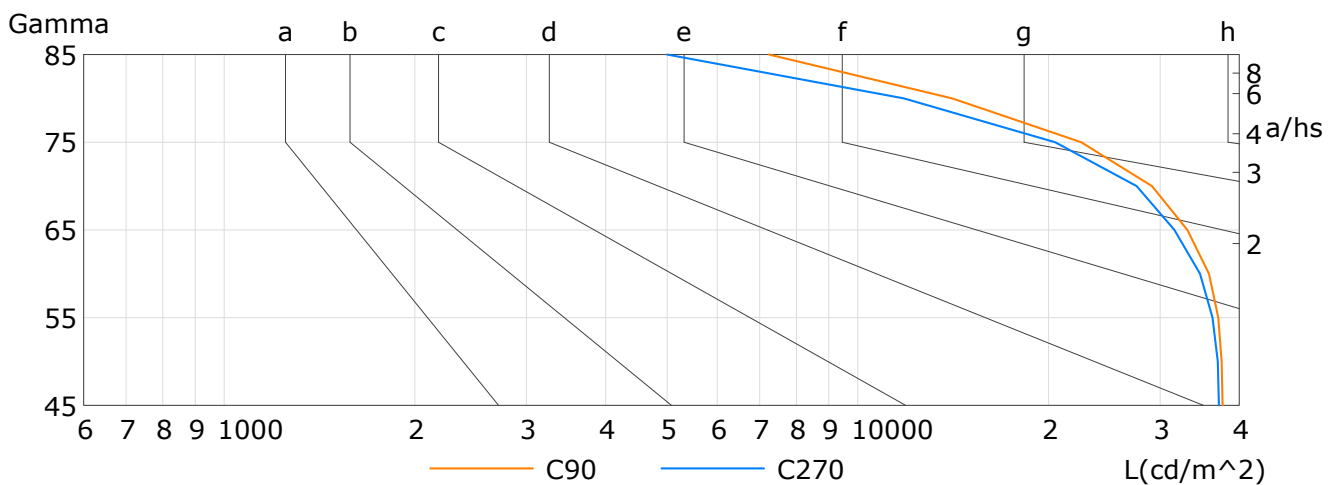
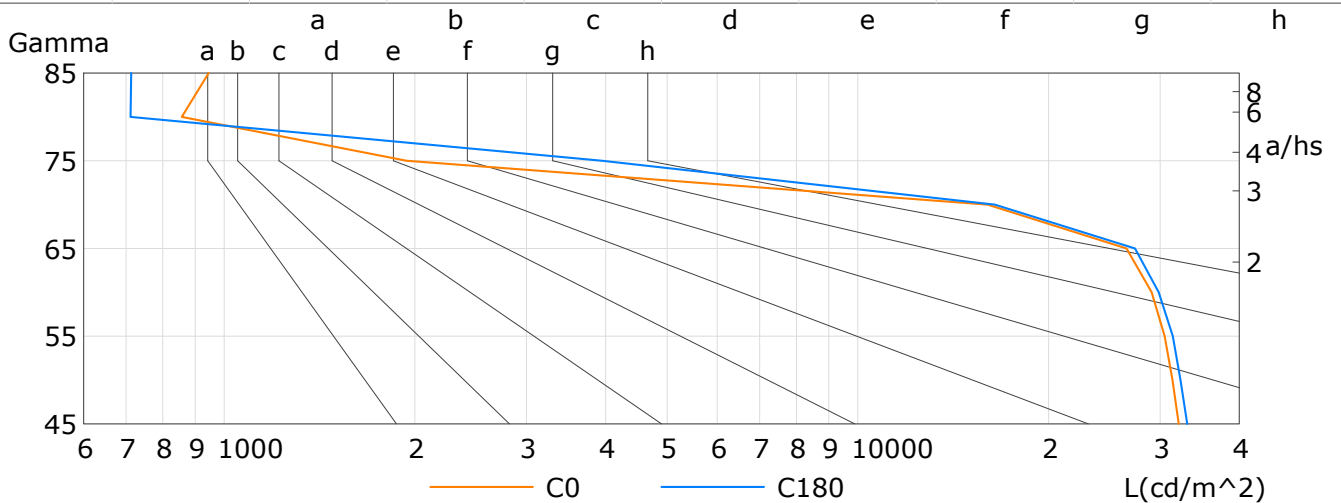
Beam Angle: 114.5° Flux Out: 7969.30lm



### Luminance Limit Curve

| (cd/m <sup>2</sup> ) | G45   | G50   | G55   | G60   | G65   | G70   | G75   | G80   | G85  |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| C0                   | 32099 | 31368 | 30500 | 29092 | 26551 | 16023 | 1941  | 857   | 945  |
| C90                  | 37643 | 37507 | 37063 | 35828 | 33128 | 29127 | 22526 | 14096 | 7240 |
| C180                 | 33097 | 32307 | 31410 | 29848 | 27382 | 16446 | 3949  | 712   | 713  |
| C270                 | 37145 | 36989 | 36281 | 34682 | 31597 | 27545 | 20486 | 11820 | 5001 |

| Dazzle | Quality | Illuminance (lx) |      |      |       |       |       |       |       |
|--------|---------|------------------|------|------|-------|-------|-------|-------|-------|
| 1.15   | A       | 2000             | 1000 | 500  | <=300 |       |       |       |       |
| 1.50   | B       |                  | 2000 | 1000 | 500   | <=300 |       |       |       |
| 1.85   | C       |                  |      | 2000 | 1000  | 500   | <=300 |       |       |
| 2.20   | D       |                  |      |      | 2000  | 1000  | 500   | <=300 |       |
| 2.55   | E       |                  |      |      |       | 2000  | 1000  | 500   | <=300 |





**TM5 UF Table**

| Utilisation Factors UF (F) |      |      | SHR NOM = 1.50 |      |      |      |      |      |      |      |      |
|----------------------------|------|------|----------------|------|------|------|------|------|------|------|------|
| Room Reflectance           |      |      | Room Index(RI) |      |      |      |      |      |      |      |      |
| C                          | W    | F    | 0.75           | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70                       | 0.50 | 0.20 | 0.61           | 0.70 | 0.78 | 0.83 | 0.91 | 0.95 | 0.99 | 1.03 | 1.05 |
|                            | 0.30 |      | 0.54           | 0.63 | 0.71 | 0.77 | 0.85 | 0.90 | 0.94 | 0.99 | 1.02 |
|                            | 0.20 |      | 0.49           | 0.58 | 0.66 | 0.72 | 0.80 | 0.86 | 0.90 | 0.96 | 1.00 |
| 0.50                       | 0.50 | 0.20 | 0.60           | 0.68 | 0.76 | 0.81 | 0.88 | 0.92 | 0.95 | 0.99 | 1.01 |
|                            | 0.30 |      | 0.53           | 0.62 | 0.70 | 0.75 | 0.83 | 0.88 | 0.91 | 0.96 | 0.99 |
|                            | 0.20 |      | 0.49           | 0.57 | 0.65 | 0.71 | 0.79 | 0.84 | 0.88 | 0.93 | 0.96 |
| 0.30                       | 0.50 | 0.20 | 0.59           | 0.66 | 0.74 | 0.78 | 0.85 | 0.89 | 0.92 | 0.95 | 0.97 |
|                            | 0.30 |      | 0.53           | 0.61 | 0.68 | 0.74 | 0.81 | 0.85 | 0.89 | 0.93 | 0.95 |
|                            | 0.20 |      | 0.48           | 0.56 | 0.64 | 0.70 | 0.77 | 0.82 | 0.86 | 0.91 | 0.94 |
| 0.00                       | 0.00 | 0.00 | 0.46           | 0.54 | 0.62 | 0.67 | 0.74 | 0.79 | 0.82 | 0.86 | 0.89 |
| Utilisation Factors UF (W) |      |      | SHR NOM = 1.50 |      |      |      |      |      |      |      |      |
| Room Reflectance           |      |      | Room Index(RI) |      |      |      |      |      |      |      |      |
| C                          | W    | F    | 0.75           | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70                       | 0.50 | 0.20 | 0.92           | 0.77 | 0.65 | 0.55 | 0.43 | 0.36 | 0.30 | 0.23 | 0.19 |
|                            | 0.30 |      | 0.77           | 0.66 | 0.56 | 0.49 | 0.39 | 0.33 | 0.28 | 0.22 | 0.18 |
|                            | 0.20 |      | 0.66           | 0.58 | 0.50 | 0.44 | 0.36 | 0.30 | 0.26 | 0.21 | 0.17 |
| 0.50                       | 0.50 | 0.20 | 0.89           | 0.74 | 0.62 | 0.53 | 0.41 | 0.37 | 0.29 | 0.22 | 0.18 |
|                            | 0.30 |      | 0.75           | 0.65 | 0.55 | 0.47 | 0.38 | 0.31 | 0.27 | 0.21 | 0.17 |
|                            | 0.20 |      | 0.65           | 0.57 | 0.49 | 0.43 | 0.35 | 0.29 | 0.25 | 0.20 | 0.16 |
| 0.30                       | 0.50 | 0.20 | 0.86           | 0.71 | 0.59 | 0.51 | 0.39 | 0.32 | 0.27 | 0.21 | 0.17 |
|                            | 0.30 |      | 0.74           | 0.63 | 0.53 | 0.46 | 0.36 | 0.30 | 0.26 | 0.20 | 0.16 |
|                            | 0.20 |      | 0.65           | 0.56 | 0.48 | 0.42 | 0.34 | 0.28 | 0.24 | 0.19 | 0.16 |
| 0.00                       | 0.00 | 0.00 | 0.54           | 0.46 | 0.38 | 0.33 | 0.26 | 0.21 | 0.18 | 0.14 | 0.11 |
| Utilisation Factors UF (C) |      |      | SHR NOM = 1.50 |      |      |      |      |      |      |      |      |
| Room Reflectance           |      |      | Room Index(RI) |      |      |      |      |      |      |      |      |
| C                          | W    | F    | 0.75           | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70                       | 0.50 | 0.20 | 0.16           | 0.17 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 |
|                            | 0.30 |      | 0.09           | 0.11 | 0.12 | 0.13 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 |
|                            | 0.20 |      | 0.05           | 0.06 | 0.08 | 0.09 | 0.11 | 0.13 | 0.14 | 0.16 | 0.17 |
| 0.50                       | 0.50 | 0.20 | 0.15           | 0.17 | 0.17 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 |
|                            | 0.30 |      | 0.09           | 0.11 | 0.12 | 0.13 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 |
|                            | 0.20 |      | 0.05           | 0.06 | 0.08 | 0.09 | 0.11 | 0.13 | 0.14 | 0.16 | 0.17 |
| 0.30                       | 0.50 | 0.20 | 0.15           | 0.16 | 0.17 | 0.17 | 0.18 | 0.19 | 0.19 | 0.19 | 0.20 |
|                            | 0.30 |      | 0.09           | 0.11 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 |
|                            | 0.20 |      | 0.05           | 0.06 | 0.08 | 0.09 | 0.11 | 0.12 | 0.14 | 0.15 | 0.16 |
| 0.00                       | 0.00 | 0.00 | NA             | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   |

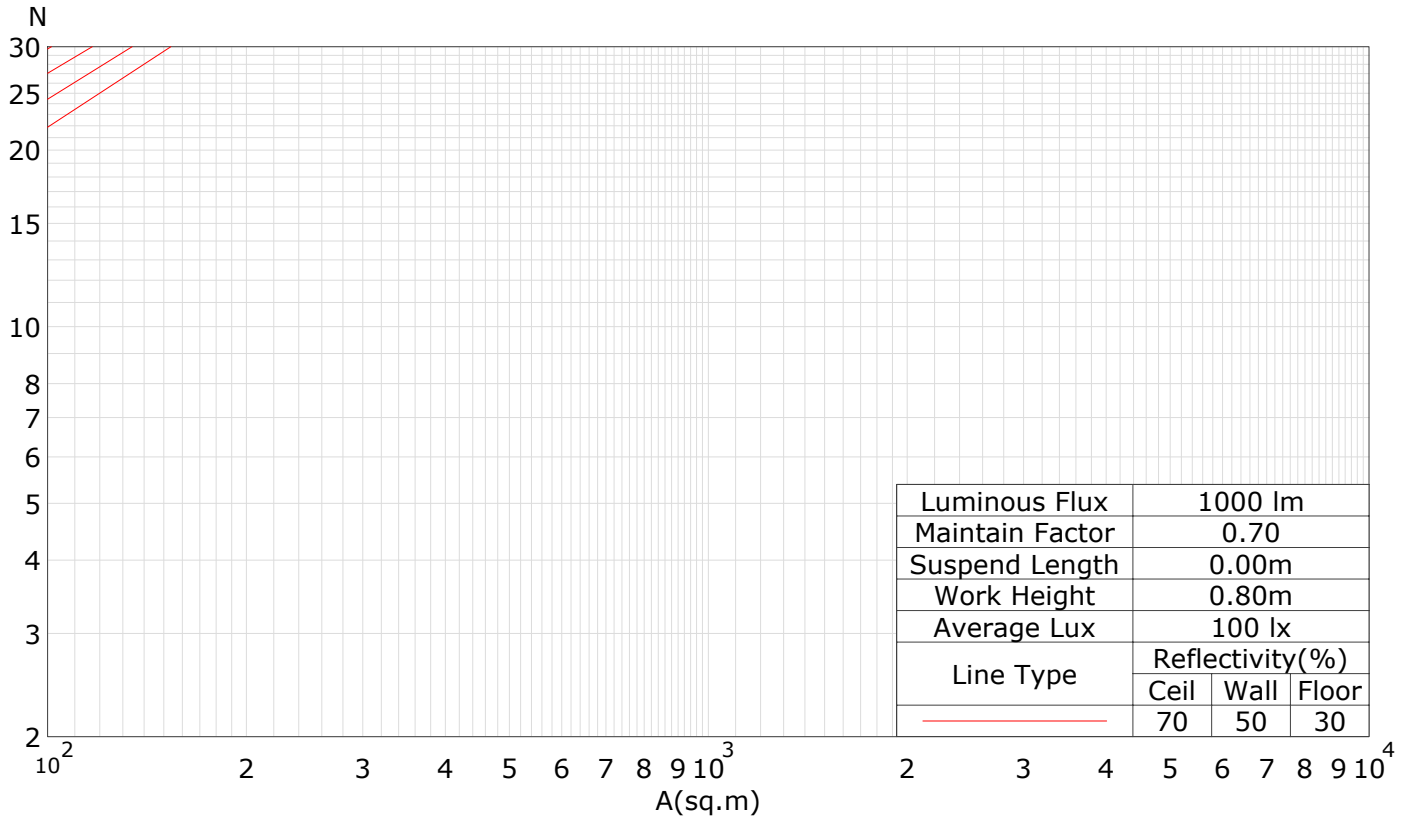
Rating: 161W Photometrically tested without ceiling board.  
 Multiply UF values by service correction factors  
 Calculate in accordance with CIBSE Technical Memorandum No.5/1980



### Indoor CU, Curves of Luminaires vs Lighting Area

|     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RC  | 0.8      | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.1 | 0.1 | 0.1 | 0   |
| RW  | 0.7      | 0.5 | 0.3 | 0.1 | 0.7 | 0.5 | 0.3 | 0.1 | 0.5 | 0.3 | 0.1 | 0.5 | 0.3 | 0.1 | 0.5 | 0.3 | 0.1 | 0   |
| RCR | RF = 0.2 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119      | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 110      | 105 | 102 | 98  | 107 | 103 | 100 | 96  | 99  | 96  | 93  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |
| 2   | 100      | 92  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 77  | 74  | 72  |
| 3   | 91       | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 71  | 65  | 74  | 69  | 64  | 71  | 67  | 63  | 61  |
| 4   | 84       | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 54  | 52  |
| 5   | 77       | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |
| 6   | 71       | 58  | 49  | 43  | 69  | 57  | 48  | 42  | 55  | 48  | 42  | 53  | 47  | 42  | 52  | 46  | 41  | 39  |
| 7   | 66       | 52  | 44  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 35  |
| 8   | 61       | 48  | 39  | 33  | 59  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |
| 9   | 57       | 44  | 35  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 29  | 40  | 34  | 29  | 27  |
| 10  | 53       | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 27  | 25  |

Spacing Criteria: 1.32 (0-180), 1.42 (90-270), 1.45 (Diagonal)





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### Zonal Flux

| Gamma<br>° | I <sub>mean</sub><br>cd/klm | Zonal Flux<br>lm | Sum Zonal Flux<br>lm | Rel Zonal Flux<br>% | Sum Rel Zonal Flux<br>% |
|------------|-----------------------------|------------------|----------------------|---------------------|-------------------------|
| 0.0-1.0    | 341.6                       | 3.3              | 3.3                  | 0.03                | 0.03                    |
| 1.0-2.0    | 341.6                       | 9.9              | 13.2                 | 0.10                | 0.13                    |
| 2.0-3.0    | 341.5                       | 16.5             | 29.7                 | 0.16                | 0.29                    |
| 3.0-4.0    | 341.3                       | 23.1             | 52.7                 | 0.23                | 0.52                    |
| 4.0-5.0    | 341.1                       | 29.6             | 82.4                 | 0.29                | 0.82                    |
| 5.0-6.0    | 340.9                       | 36.2             | 118.5                | 0.36                | 1.17                    |
| 6.0-7.0    | 340.6                       | 42.7             | 161.2                | 0.42                | 1.60                    |
| 7.0-8.0    | 340.3                       | 49.1             | 210.3                | 0.49                | 2.08                    |
| 8.0-9.0    | 339.8                       | 55.6             | 265.9                | 0.55                | 2.64                    |
| 9.0-10.0   | 339.3                       | 62.0             | 327.9                | 0.61                | 3.25                    |
| 10.0-11.0  | 338.8                       | 68.3             | 396.2                | 0.68                | 3.93                    |
| 11.0-12.0  | 338.3                       | 74.6             | 470.9                | 0.74                | 4.67                    |
| 12.0-13.0  | 337.6                       | 80.9             | 551.7                | 0.80                | 5.47                    |
| 13.0-14.0  | 336.9                       | 87.0             | 638.8                | 0.86                | 6.33                    |
| 14.0-15.0  | 336.1                       | 93.1             | 731.9                | 0.92                | 7.25                    |
| 15.0-16.0  | 335.2                       | 99.1             | 831.0                | 0.98                | 8.23                    |
| 16.0-17.0  | 334.2                       | 105.0            | 936.0                | 1.04                | 9.28                    |
| 17.0-18.0  | 333.1                       | 110.9            | 1046.9               | 1.10                | 10.37                   |
| 18.0-19.0  | 332.0                       | 116.6            | 1163.5               | 1.16                | 11.53                   |
| 19.0-20.0  | 330.9                       | 122.2            | 1285.7               | 1.21                | 12.74                   |
| 20.0-21.0  | 329.7                       | 127.8            | 1413.5               | 1.27                | 14.01                   |
| 21.0-22.0  | 328.3                       | 133.2            | 1546.6               | 1.32                | 15.33                   |
| 22.0-23.0  | 326.8                       | 138.4            | 1685.0               | 1.37                | 16.70                   |
| 23.0-24.0  | 325.2                       | 143.5            | 1828.6               | 1.42                | 18.12                   |
| 24.0-25.0  | 323.6                       | 148.5            | 1977.0               | 1.47                | 19.59                   |
| 25.0-26.0  | 321.8                       | 153.3            | 2130.4               | 1.52                | 21.11                   |
| 26.0-27.0  | 319.8                       | 157.9            | 2288.3               | 1.56                | 22.68                   |
| 27.0-28.0  | 317.7                       | 162.4            | 2450.6               | 1.61                | 24.28                   |
| 28.0-29.0  | 315.6                       | 166.6            | 2617.3               | 1.65                | 25.94                   |
| 29.0-30.0  | 313.3                       | 170.7            | 2788.0               | 1.69                | 27.63                   |
| 30.0-31.0  | 310.8                       | 174.6            | 2962.6               | 1.73                | 29.36                   |
| 31.0-32.0  | 308.2                       | 178.2            | 3140.8               | 1.77                | 31.12                   |
| 32.0-33.0  | 305.4                       | 181.6            | 3322.4               | 1.80                | 32.92                   |
| 33.0-34.0  | 302.5                       | 184.8            | 3507.2               | 1.83                | 34.75                   |
| 34.0-35.0  | 299.3                       | 187.6            | 3694.8               | 1.86                | 36.61                   |
| 35.0-36.0  | 296.0                       | 190.2            | 3885.0               | 1.88                | 38.50                   |
| 36.0-37.0  | 292.4                       | 192.5            | 4077.5               | 1.91                | 40.40                   |
| 37.0-38.0  | 288.6                       | 194.4            | 4271.9               | 1.93                | 42.33                   |
| 38.0-39.0  | 284.7                       | 196.1            | 4468.0               | 1.94                | 44.27                   |
| 39.0-40.0  | 280.5                       | 197.4            | 4665.4               | 1.96                | 46.23                   |

Test Type : Type C      Test Distance : 8.137 m      C Plane (°): 0.0-360.0:5.0 (°) : 0.0-90.0:1.0  
Test Device : Lisun LSG-1700B      Temperature : 21.5°C      Humidity : 42.0%  
Test Lab : Light Lab TU-Gabrovo  
Test By : Eng. Ivaylo Stoyanov      Review By :



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### Zonal Flux

| Gamma<br>° | Imean<br>cd/klm | Zonal Flux<br>lm | Sum Zonal Flux<br>lm | Rel Zonal Flux<br>% | Sum Rel Zonal Flux<br>% |
|------------|-----------------|------------------|----------------------|---------------------|-------------------------|
| 40.0-41.0  | 276.1           | 198.4            | 4863.8               | 1.97                | 48.20                   |
| 41.0-42.0  | 271.7           | 199.3            | 5063.1               | 1.97                | 50.17                   |
| 42.0-43.0  | 267.0           | 199.6            | 5262.7               | 1.98                | 52.15                   |
| 43.0-44.0  | 262.1           | 199.7            | 5462.4               | 1.98                | 54.13                   |
| 44.0-45.0  | 257.2           | 199.5            | 5661.9               | 1.98                | 56.11                   |
| 45.0-46.0  | 252.0           | 198.9            | 5860.8               | 1.97                | 58.08                   |
| 46.0-47.0  | 246.9           | 198.2            | 6059.0               | 1.96                | 60.04                   |
| 47.0-48.0  | 241.5           | 197.0            | 6256.0               | 1.95                | 61.99                   |
| 48.0-49.0  | 235.9           | 195.5            | 6451.6               | 1.94                | 63.93                   |
| 49.0-50.0  | 230.5           | 193.9            | 6645.5               | 1.92                | 65.85                   |
| 50.0-51.0  | 224.6           | 191.8            | 6837.3               | 1.90                | 67.75                   |
| 51.0-52.0  | 218.7           | 189.4            | 7026.6               | 1.88                | 69.63                   |
| 52.0-53.0  | 212.7           | 186.7            | 7213.4               | 1.85                | 71.48                   |
| 53.0-54.0  | 206.5           | 183.7            | 7397.0               | 1.82                | 73.30                   |
| 54.0-55.0  | 200.3           | 180.5            | 7577.5               | 1.79                | 75.09                   |
| 55.0-56.0  | 193.9           | 176.8            | 7754.3               | 1.75                | 76.84                   |
| 56.0-57.0  | 187.3           | 172.8            | 7927.1               | 1.71                | 78.55                   |
| 57.0-58.0  | 180.9           | 168.8            | 8095.9               | 1.67                | 80.23                   |
| 58.0-59.0  | 174.0           | 164.2            | 8260.1               | 1.63                | 81.85                   |
| 59.0-60.0  | 167.0           | 159.2            | 8419.3               | 1.58                | 83.43                   |
| 60.0-61.0  | 159.8           | 153.9            | 8573.3               | 1.53                | 84.96                   |
| 61.0-62.0  | 152.5           | 148.3            | 8721.6               | 1.47                | 86.43                   |
| 62.0-63.0  | 145.4           | 142.7            | 8864.3               | 1.41                | 87.84                   |
| 63.0-64.0  | 137.8           | 136.4            | 9000.8               | 1.35                | 89.19                   |
| 64.0-65.0  | 130.0           | 129.9            | 9130.7               | 1.29                | 90.48                   |
| 65.0-66.0  | 122.4           | 123.2            | 9253.9               | 1.22                | 91.70                   |
| 66.0-67.0  | 113.6           | 115.3            | 9369.2               | 1.14                | 92.84                   |
| 67.0-68.0  | 104.0           | 106.4            | 9475.6               | 1.05                | 93.90                   |
| 68.0-69.0  | 94.2            | 97.0             | 9572.6               | 0.96                | 94.86                   |
| 69.0-70.0  | 84.8            | 87.9             | 9660.5               | 0.87                | 95.73                   |
| 70.0-71.0  | 75.9            | 79.2             | 9739.7               | 0.78                | 96.51                   |
| 71.0-72.0  | 65.9            | 69.2             | 9808.8               | 0.69                | 97.20                   |
| 72.0-73.0  | 55.4            | 58.4             | 9867.3               | 0.58                | 97.78                   |
| 73.0-74.0  | 46.3            | 49.1             | 9916.4               | 0.49                | 98.27                   |
| 74.0-75.0  | 38.1            | 40.6             | 9957.0               | 0.40                | 98.67                   |
| 75.0-76.0  | 30.5            | 32.6             | 9989.7               | 0.32                | 98.99                   |
| 76.0-77.0  | 23.9            | 25.7             | 10015.4              | 0.25                | 99.25                   |
| 77.0-78.0  | 18.5            | 19.9             | 10035.3              | 0.20                | 99.44                   |
| 78.0-79.0  | 14.2            | 15.5             | 10050.8              | 0.15                | 99.60                   |
| 79.0-80.0  | 10.7            | 11.7             | 10062.5              | 0.12                | 99.71                   |

Test Type : Type C      Test Distance : 8.137 m      C Plane (°): 0.0-360.0:5.0 (°) : 0.0-90.0:1.0  
Test Device : Lisun LSG-1700B      Temperature : 21.5°C      Humidity : 42.0%  
Test Lab : Light Lab TU-Gabrovo  
Test By : Eng. Ivaylo Stoyanov      Review By :



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Test Time : 2026-05-04 12:55:42 Page 16 of 43

### Zonal Flux

| Gamma<br>° | I <sub>mean</sub><br>cd/klm | Zonal Flux<br>lm | Sum Zonal Flux<br>lm | Rel Zonal Flux<br>% | Sum Rel Zonal Flux<br>% |
|------------|-----------------------------|------------------|----------------------|---------------------|-------------------------|
| 80.0-81.0  | 7.9                         | 8.7              | 10071.1              | 0.09                | 99.80                   |
| 81.0-82.0  | 5.8                         | 6.4              | 10077.5              | 0.06                | 99.86                   |
| 82.0-83.0  | 4.2                         | 4.6              | 10082.1              | 0.05                | 99.91                   |
| 83.0-84.0  | 3.0                         | 3.3              | 10085.4              | 0.03                | 99.94                   |
| 84.0-85.0  | 2.0                         | 2.2              | 10087.6              | 0.02                | 99.96                   |
| 85.0-86.0  | 1.3                         | 1.5              | 10089.1              | 0.01                | 99.98                   |
| 86.0-87.0  | 0.9                         | 1.0              | 10090.1              | 0.01                | 99.99                   |
| 87.0-88.0  | 0.6                         | 0.7              | 10090.7              | 0.01                | 99.99                   |
| 88.0-89.0  | 0.4                         | 0.4              | 10091.2              | 0.00                | 100.00                  |
| 89.0-90.0  | 0.3                         | 0.3              | 10091.5              | 0.00                | 100.00                  |



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**Light Distribution Data**

Unit: cd/klm

| G\C   | C0.0  | C5.0  | C10.0 | C15.0 | C20.0 | C25.0 | C30.0 | C35.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| G0.0  | 341.7 | 341.7 | 341.7 | 341.7 | 341.7 | 341.7 | 341.7 | 341.7 |
| G1.0  | 341.7 | 341.4 | 341.2 | 341.3 | 341.4 | 341.3 | 341.3 | 341.1 |
| G2.0  | 341.5 | 341.2 | 341.0 | 341.0 | 341.4 | 341.2 | 341.2 | 341.1 |
| G3.0  | 341.0 | 340.9 | 341.1 | 340.5 | 341.3 | 340.9 | 340.8 | 341.1 |
| G4.0  | 340.9 | 340.5 | 340.1 | 340.3 | 340.5 | 340.5 | 341.0 | 340.1 |
| G5.0  | 340.3 | 340.2 | 340.0 | 340.0 | 340.5 | 340.6 | 340.3 | 340.3 |
| G6.0  | 339.6 | 339.5 | 339.8 | 339.7 | 339.6 | 340.0 | 340.1 | 339.5 |
| G7.0  | 339.1 | 338.8 | 339.1 | 338.9 | 339.3 | 339.4 | 339.2 | 339.1 |
| G8.0  | 338.6 | 338.1 | 338.3 | 338.0 | 338.3 | 338.7 | 338.8 | 338.9 |
| G9.0  | 337.9 | 337.4 | 337.8 | 337.4 | 337.5 | 338.2 | 338.1 | 338.0 |
| G10.0 | 336.7 | 336.7 | 336.8 | 336.8 | 337.0 | 337.2 | 337.4 | 337.4 |
| G11.0 | 336.1 | 335.8 | 336.0 | 335.6 | 336.0 | 336.4 | 336.3 | 336.5 |
| G12.0 | 334.9 | 335.1 | 335.1 | 334.9 | 335.0 | 335.6 | 335.6 | 335.6 |
| G13.0 | 333.9 | 333.7 | 334.1 | 334.0 | 333.9 | 334.5 | 334.4 | 334.7 |
| G14.0 | 333.3 | 332.4 | 333.2 | 332.4 | 332.9 | 333.1 | 333.1 | 333.5 |
| G15.0 | 331.7 | 331.0 | 331.9 | 331.2 | 331.6 | 332.1 | 331.8 | 332.4 |
| G16.0 | 330.5 | 329.9 | 330.2 | 330.1 | 330.1 | 330.2 | 330.3 | 331.1 |
| G17.0 | 328.8 | 328.4 | 329.0 | 328.4 | 328.9 | 329.0 | 328.9 | 329.7 |
| G18.0 | 327.3 | 326.6 | 327.3 | 327.4 | 327.5 | 327.9 | 327.8 | 328.3 |
| G19.0 | 325.6 | 325.1 | 326.0 | 325.7 | 326.3 | 326.1 | 325.8 | 326.7 |
| G20.0 | 323.8 | 323.3 | 324.3 | 324.2 | 324.4 | 324.6 | 323.8 | 325.2 |
| G21.0 | 322.4 | 321.7 | 322.8 | 322.3 | 322.7 | 322.7 | 322.5 | 323.8 |
| G22.0 | 320.6 | 319.9 | 320.5 | 320.9 | 320.9 | 320.6 | 320.1 | 321.8 |
| G23.0 | 318.3 | 317.6 | 319.0 | 319.0 | 319.1 | 318.8 | 318.2 | 319.9 |
| G24.0 | 316.1 | 315.1 | 316.9 | 316.9 | 317.0 | 316.7 | 316.0 | 317.7 |
| G25.0 | 314.1 | 313.2 | 314.5 | 314.6 | 315.0 | 314.6 | 313.5 | 315.7 |
| G26.0 | 311.9 | 311.1 | 312.5 | 313.0 | 313.1 | 312.0 | 311.5 | 314.1 |
| G27.0 | 309.2 | 308.6 | 310.0 | 310.4 | 310.6 | 309.6 | 308.8 | 311.2 |
| G28.0 | 306.4 | 305.7 | 307.3 | 308.2 | 308.0 | 307.3 | 306.3 | 309.0 |
| G29.0 | 304.2 | 302.8 | 304.7 | 305.1 | 305.5 | 304.2 | 303.8 | 306.3 |
| G30.0 | 301.1 | 300.0 | 301.9 | 302.3 | 302.7 | 301.4 | 300.8 | 303.7 |
| G31.0 | 297.8 | 296.7 | 298.9 | 299.6 | 300.2 | 298.4 | 297.6 | 301.1 |
| G32.0 | 294.1 | 293.3 | 295.2 | 295.9 | 296.8 | 295.6 | 294.6 | 297.9 |
| G33.0 | 290.8 | 289.9 | 292.0 | 292.5 | 293.4 | 291.9 | 291.7 | 295.0 |
| G34.0 | 287.4 | 286.3 | 288.4 | 289.2 | 290.3 | 288.7 | 288.4 | 292.0 |
| G35.0 | 283.3 | 282.4 | 284.4 | 285.3 | 286.6 | 284.8 | 284.4 | 288.7 |
| G36.0 | 279.7 | 278.7 | 280.9 | 281.0 | 282.7 | 281.1 | 280.9 | 284.9 |
| G37.0 | 275.3 | 274.2 | 276.5 | 276.9 | 279.3 | 276.7 | 277.1 | 281.1 |
| G38.0 | 270.3 | 269.4 | 271.8 | 272.6 | 275.2 | 272.8 | 273.0 | 277.2 |
| G39.0 | 266.0 | 265.0 | 266.9 | 267.5 | 270.5 | 268.3 | 269.1 | 273.0 |

Test Type : Type C      Test Distance : 8.137 m      C Plane (°): 0.0-360.0:5.0 (°) : 0.0-90.0:1.0  
 Test Device : Lisun LSG-1700B      Temperature : 21.5°C      Humidity : 42.0%  
 Test Lab : Light Lab TU-Gabrovo  
 Test By : Eng. Ivaylo Stoyanov      Review By :



**Light Distribution Data**

Unit: cd/klm

| G\C   | C0.0  | C5.0  | C10.0 | C15.0 | C20.0 | C25.0 | C30.0 | C35.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| G40.0 | 261.4 | 260.0 | 262.2 | 262.7 | 265.4 | 263.4 | 264.7 | 268.6 |
| G41.0 | 256.1 | 255.2 | 257.3 | 257.9 | 261.2 | 258.6 | 260.0 | 264.8 |
| G42.0 | 251.3 | 250.4 | 252.6 | 252.8 | 256.3 | 253.3 | 254.6 | 259.9 |
| G43.0 | 246.2 | 244.9 | 247.1 | 247.4 | 250.6 | 248.2 | 249.4 | 254.6 |
| G44.0 | 241.1 | 240.0 | 242.2 | 242.4 | 245.3 | 242.7 | 244.4 | 249.5 |
| G45.0 | 236.2 | 234.7 | 237.3 | 236.7 | 240.4 | 237.2 | 239.1 | 243.8 |
| G46.0 | 230.8 | 229.8 | 231.7 | 231.8 | 234.7 | 231.9 | 233.4 | 238.4 |
| G47.0 | 225.8 | 224.7 | 226.8 | 226.3 | 229.7 | 226.7 | 227.7 | 232.9 |
| G48.0 | 220.2 | 219.1 | 221.2 | 220.6 | 223.6 | 221.0 | 221.9 | 226.5 |
| G49.0 | 215.1 | 214.1 | 215.9 | 215.7 | 218.5 | 215.2 | 216.8 | 221.2 |
| G50.0 | 209.8 | 208.7 | 210.5 | 210.3 | 213.2 | 209.6 | 210.9 | 215.8 |
| G51.0 | 204.0 | 203.0 | 204.5 | 204.4 | 207.3 | 203.7 | 204.9 | 209.3 |
| G52.0 | 198.9 | 197.9 | 199.1 | 198.8 | 201.7 | 198.3 | 199.4 | 203.3 |
| G53.0 | 193.6 | 191.6 | 193.8 | 193.1 | 196.0 | 191.9 | 193.6 | 197.1 |
| G54.0 | 187.5 | 186.4 | 187.6 | 187.1 | 189.9 | 186.1 | 187.2 | 191.0 |
| G55.0 | 182.0 | 180.9 | 182.1 | 181.6 | 184.1 | 180.5 | 181.5 | 185.0 |
| G56.0 | 175.9 | 174.8 | 175.8 | 175.5 | 178.1 | 174.0 | 174.8 | 178.5 |
| G57.0 | 170.2 | 169.0 | 170.2 | 169.6 | 171.9 | 168.4 | 169.0 | 172.1 |
| G58.0 | 164.0 | 162.9 | 164.1 | 163.6 | 166.0 | 162.8 | 163.1 | 165.4 |
| G59.0 | 157.7 | 156.3 | 157.4 | 157.3 | 159.3 | 155.7 | 156.2 | 158.4 |
| G60.0 | 151.3 | 149.9 | 150.8 | 150.8 | 152.7 | 149.5 | 150.1 | 151.8 |
| G61.0 | 144.4 | 143.0 | 144.1 | 144.0 | 145.7 | 142.5 | 143.3 | 144.5 |
| G62.0 | 137.7 | 136.6 | 137.8 | 137.3 | 139.3 | 135.9 | 136.4 | 138.1 |
| G63.0 | 131.1 | 130.0 | 131.0 | 130.5 | 132.6 | 129.4 | 129.8 | 131.6 |
| G64.0 | 123.5 | 122.3 | 123.1 | 122.9 | 125.0 | 122.2 | 122.4 | 124.3 |
| G65.0 | 116.8 | 115.6 | 116.6 | 115.9 | 117.8 | 115.0 | 115.8 | 116.9 |
| G66.0 | 108.5 | 105.7 | 109.7 | 108.5 | 110.6 | 107.2 | 108.8 | 109.4 |
| G67.0 | 84.8  | 83.9  | 89.2  | 94.7  | 102.5 | 100.4 | 100.6 | 102.6 |
| G68.0 | 73.3  | 72.6  | 74.6  | 74.7  | 83.8  | 90.5  | 93.7  | 94.8  |
| G69.0 | 62.4  | 62.0  | 63.6  | 65.0  | 68.8  | 69.3  | 83.1  | 87.2  |
| G70.0 | 57.0  | 56.6  | 57.0  | 57.0  | 58.6  | 60.6  | 64.1  | 78.0  |
| G71.0 | 47.4  | 46.5  | 50.8  | 51.4  | 52.5  | 51.8  | 55.0  | 59.0  |
| G72.0 | 19.6  | 18.7  | 22.6  | 27.4  | 40.0  | 45.9  | 46.5  | 49.5  |
| G73.0 | 15.5  | 15.4  | 15.6  | 15.8  | 17.1  | 25.9  | 41.2  | 42.0  |
| G74.0 | 13.7  | 13.4  | 13.6  | 13.4  | 13.8  | 13.6  | 19.3  | 34.0  |
| G75.0 | 5.2   | 4.2   | 6.9   | 9.5   | 11.7  | 11.5  | 11.8  | 13.5  |
| G76.0 | 2.6   | 2.6   | 2.7   | 2.8   | 3.2   | 6.8   | 9.7   | 10.0  |
| G77.0 | 2.2   | 2.2   | 2.2   | 2.2   | 2.4   | 2.5   | 3.1   | 7.9   |
| G78.0 | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.2   | 2.5   |
| G79.0 | 1.7   | 1.7   | 1.8   | 1.7   | 1.8   | 1.8   | 1.8   | 1.9   |



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### Light Distribution Data

Unit: cd/klm

| G\C   | C0.0 | C5.0 | C10.0 | C15.0 | C20.0 | C25.0 | C30.0 | C35.0 |
|-------|------|------|-------|-------|-------|-------|-------|-------|
| G80.0 | 1.5  | 1.5  | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   |
| G81.0 | 1.4  | 1.4  | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   |
| G82.0 | 1.2  | 1.2  | 1.3   | 1.2   | 1.3   | 1.2   | 1.2   | 1.2   |
| G83.0 | 1.1  | 1.1  | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| G84.0 | 1.0  | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 0.9   | 0.9   |
| G85.0 | 0.9  | 0.9  | 0.9   | 0.9   | 0.9   | 0.9   | 0.8   | 0.8   |
| G86.0 | 0.7  | 0.8  | 0.8   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| G87.0 | 0.6  | 0.6  | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.5   |
| G88.0 | 0.5  | 0.5  | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| G89.0 | 0.2  | 0.2  | 0.2   | 0.2   | 0.3   | 0.3   | 0.3   | 0.3   |
| G90.0 | 0.2  | 0.2  | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   |



**Light Distribution Data**

Unit: cd/klm

| G\C   | C40.0 | C45.0 | C50.0 | C55.0 | C60.0 | C65.0 | C70.0 | C75.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| G0.0  | 341.7 | 341.7 | 341.7 | 341.7 | 341.7 | 341.7 | 341.7 | 341.7 |
| G1.0  | 341.7 | 341.8 | 341.6 | 341.8 | 341.4 | 341.4 | 341.5 | 341.2 |
| G2.0  | 341.3 | 341.6 | 341.7 | 341.8 | 340.9 | 341.3 | 341.7 | 340.5 |
| G3.0  | 341.6 | 341.3 | 341.5 | 341.3 | 340.6 | 341.1 | 341.0 | 340.0 |
| G4.0  | 341.2 | 340.7 | 341.1 | 341.2 | 340.2 | 340.5 | 341.3 | 339.9 |
| G5.0  | 340.5 | 340.8 | 340.7 | 340.8 | 339.6 | 339.9 | 340.5 | 339.3 |
| G6.0  | 339.8 | 340.1 | 340.8 | 340.1 | 339.4 | 339.5 | 340.0 | 339.3 |
| G7.0  | 339.8 | 339.9 | 340.0 | 339.7 | 339.2 | 339.4 | 339.7 | 338.7 |
| G8.0  | 339.2 | 339.0 | 339.4 | 338.9 | 338.6 | 339.2 | 339.7 | 338.5 |
| G9.0  | 338.5 | 338.6 | 339.0 | 338.8 | 338.6 | 338.3 | 338.4 | 338.7 |
| G10.0 | 338.0 | 337.7 | 338.0 | 337.9 | 338.3 | 338.2 | 338.0 | 338.2 |
| G11.0 | 337.0 | 337.0 | 337.6 | 337.4 | 337.9 | 338.1 | 337.6 | 338.2 |
| G12.0 | 336.0 | 336.3 | 336.5 | 336.4 | 337.6 | 337.4 | 336.8 | 338.0 |
| G13.0 | 335.1 | 335.2 | 335.6 | 335.5 | 337.4 | 336.7 | 336.5 | 337.4 |
| G14.0 | 334.3 | 334.3 | 334.7 | 334.4 | 336.7 | 335.6 | 336.3 | 336.6 |
| G15.0 | 333.0 | 333.7 | 333.7 | 333.9 | 335.6 | 335.7 | 335.6 | 335.6 |
| G16.0 | 331.5 | 332.4 | 332.5 | 332.4 | 334.4 | 335.4 | 334.2 | 335.3 |
| G17.0 | 330.5 | 330.8 | 331.1 | 331.7 | 333.2 | 334.3 | 333.1 | 334.7 |
| G18.0 | 329.2 | 329.7 | 330.1 | 330.0 | 332.2 | 334.0 | 332.3 | 334.0 |
| G19.0 | 327.5 | 328.0 | 328.7 | 328.5 | 330.8 | 333.5 | 332.7 | 332.7 |
| G20.0 | 326.0 | 326.3 | 327.1 | 327.1 | 329.4 | 333.0 | 332.0 | 332.0 |
| G21.0 | 324.7 | 324.5 | 325.7 | 325.7 | 327.9 | 331.5 | 331.6 | 331.2 |
| G22.0 | 322.4 | 323.1 | 323.7 | 324.0 | 326.3 | 331.0 | 330.2 | 329.7 |
| G23.0 | 320.4 | 321.1 | 322.1 | 322.2 | 324.4 | 331.2 | 329.5 | 328.0 |
| G24.0 | 318.6 | 319.4 | 319.9 | 320.4 | 322.7 | 330.0 | 328.9 | 328.9 |
| G25.0 | 316.9 | 317.5 | 318.2 | 318.5 | 321.0 | 328.1 | 328.4 | 327.9 |
| G26.0 | 314.3 | 315.6 | 316.1 | 316.5 | 318.9 | 326.1 | 327.7 | 326.7 |
| G27.0 | 312.3 | 313.2 | 313.9 | 314.2 | 316.8 | 323.8 | 326.2 | 325.8 |
| G28.0 | 310.2 | 310.5 | 312.0 | 312.1 | 314.6 | 321.9 | 325.9 | 325.0 |
| G29.0 | 307.4 | 308.0 | 309.8 | 309.7 | 312.2 | 319.4 | 324.6 | 324.5 |
| G30.0 | 305.0 | 305.9 | 306.6 | 307.2 | 309.7 | 316.9 | 321.9 | 322.2 |
| G31.0 | 302.4 | 303.0 | 304.2 | 304.9 | 307.1 | 314.5 | 319.5 | 322.6 |
| G32.0 | 299.7 | 300.0 | 301.2 | 301.8 | 304.4 | 311.5 | 316.5 | 320.7 |
| G33.0 | 296.6 | 297.3 | 298.8 | 299.0 | 301.7 | 309.0 | 314.1 | 318.1 |
| G34.0 | 293.2 | 294.3 | 295.3 | 296.4 | 299.0 | 306.5 | 311.7 | 315.1 |
| G35.0 | 289.9 | 291.4 | 292.5 | 293.0 | 296.1 | 303.3 | 307.9 | 312.2 |
| G36.0 | 286.9 | 287.6 | 289.2 | 290.2 | 292.8 | 300.3 | 305.2 | 309.1 |
| G37.0 | 283.4 | 284.1 | 285.8 | 286.6 | 289.9 | 296.5 | 302.1 | 305.8 |
| G38.0 | 279.2 | 280.9 | 282.2 | 283.3 | 286.1 | 293.4 | 298.4 | 302.0 |
| G39.0 | 275.5 | 277.3 | 278.5 | 279.9 | 282.9 | 289.9 | 294.8 | 298.4 |



**Light Distribution Data**

Unit: cd/klm

| G\C   | C40.0 | C45.0 | C50.0 | C55.0 | C60.0 | C65.0 | C70.0 | C75.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| G40.0 | 270.7 | 272.8 | 274.8 | 275.8 | 278.7 | 285.9 | 291.1 | 294.2 |
| G41.0 | 267.1 | 268.7 | 271.1 | 271.9 | 275.2 | 281.6 | 287.0 | 290.1 |
| G42.0 | 262.6 | 264.2 | 267.1 | 268.3 | 271.3 | 277.6 | 282.3 | 285.8 |
| G43.0 | 258.1 | 259.7 | 262.2 | 263.5 | 266.4 | 272.9 | 277.5 | 280.5 |
| G44.0 | 253.1 | 255.1 | 258.0 | 259.5 | 261.9 | 268.2 | 272.3 | 275.7 |
| G45.0 | 247.8 | 250.1 | 253.2 | 254.4 | 257.1 | 262.7 | 268.0 | 270.6 |
| G46.0 | 241.3 | 245.1 | 247.7 | 249.4 | 252.0 | 257.7 | 262.5 | 266.0 |
| G47.0 | 236.3 | 239.5 | 242.7 | 244.2 | 247.2 | 252.9 | 257.6 | 261.5 |
| G48.0 | 230.1 | 233.1 | 236.9 | 237.9 | 241.8 | 247.1 | 252.5 | 255.8 |
| G49.0 | 224.7 | 227.2 | 230.8 | 232.8 | 236.4 | 242.4 | 247.6 | 250.9 |
| G50.0 | 218.4 | 221.1 | 224.4 | 226.5 | 231.1 | 237.6 | 242.3 | 245.6 |
| G51.0 | 212.1 | 214.2 | 217.3 | 220.7 | 224.9 | 231.8 | 236.3 | 239.8 |
| G52.0 | 206.4 | 207.6 | 210.5 | 215.3 | 219.1 | 226.7 | 231.0 | 234.3 |
| G53.0 | 199.6 | 200.2 | 204.2 | 208.2 | 213.5 | 220.6 | 225.6 | 228.3 |
| G54.0 | 192.8 | 194.2 | 197.3 | 201.3 | 207.4 | 214.3 | 219.1 | 221.8 |
| G55.0 | 186.6 | 187.6 | 191.0 | 194.6 | 201.4 | 208.4 | 212.7 | 216.0 |
| G56.0 | 179.9 | 180.7 | 183.7 | 187.1 | 194.3 | 201.0 | 206.4 | 208.9 |
| G57.0 | 173.0 | 174.6 | 177.4 | 180.3 | 186.7 | 194.6 | 200.2 | 202.6 |
| G58.0 | 166.7 | 168.2 | 171.0 | 173.3 | 179.4 | 187.7 | 193.7 | 196.1 |
| G59.0 | 159.7 | 161.3 | 163.9 | 166.0 | 171.3 | 180.0 | 186.2 | 188.6 |
| G60.0 | 153.0 | 154.3 | 156.7 | 159.2 | 163.6 | 172.9 | 179.3 | 181.5 |
| G61.0 | 146.0 | 147.2 | 149.5 | 151.2 | 155.6 | 163.9 | 171.2 | 172.9 |
| G62.0 | 139.5 | 140.6 | 142.6 | 144.2 | 148.5 | 155.7 | 162.5 | 165.4 |
| G63.0 | 132.8 | 133.4 | 135.2 | 137.0 | 140.5 | 147.1 | 155.1 | 158.2 |
| G64.0 | 125.4 | 126.1 | 127.7 | 128.6 | 132.1 | 137.7 | 146.0 | 149.6 |
| G65.0 | 118.6 | 119.1 | 120.3 | 121.1 | 124.4 | 129.3 | 137.8 | 141.9 |
| G66.0 | 111.3 | 111.2 | 113.1 | 112.8 | 116.8 | 120.5 | 129.3 | 133.2 |
| G67.0 | 103.4 | 104.1 | 105.0 | 105.5 | 108.5 | 112.5 | 118.8 | 124.7 |
| G68.0 | 96.5  | 96.6  | 97.7  | 98.2  | 100.7 | 103.9 | 109.1 | 116.3 |
| G69.0 | 88.5  | 88.5  | 89.5  | 90.4  | 91.7  | 95.3  | 100.0 | 107.5 |
| G70.0 | 80.6  | 81.2  | 82.4  | 82.8  | 84.4  | 88.0  | 92.2  | 98.6  |
| G71.0 | 73.4  | 73.9  | 75.1  | 75.2  | 77.3  | 80.1  | 83.9  | 89.8  |
| G72.0 | 55.6  | 65.7  | 66.8  | 67.7  | 69.4  | 71.5  | 75.4  | 80.3  |
| G73.0 | 45.8  | 54.4  | 59.8  | 60.5  | 62.3  | 64.3  | 68.1  | 70.7  |
| G74.0 | 37.8  | 41.0  | 52.7  | 52.9  | 55.1  | 56.5  | 60.4  | 61.9  |
| G75.0 | 31.3  | 32.9  | 38.5  | 46.2  | 48.0  | 49.8  | 52.1  | 54.2  |
| G76.0 | 12.5  | 27.4  | 30.6  | 38.8  | 41.7  | 42.9  | 44.4  | 46.5  |
| G77.0 | 8.6   | 10.3  | 23.6  | 27.3  | 34.2  | 35.9  | 37.5  | 39.3  |
| G78.0 | 6.4   | 7.2   | 12.8  | 20.7  | 27.6  | 29.9  | 31.7  | 32.6  |
| G79.0 | 2.2   | 4.9   | 6.2   | 14.8  | 19.3  | 24.6  | 25.7  | 26.6  |



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### Light Distribution Data

Unit: cd/klm

| G\C   | C40.0 | C45.0 | C50.0 | C55.0 | C60.0 | C65.0 | C70.0 | C75.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| G80.0 | 1.7   | 1.9   | 4.2   | 5.3   | 13.5  | 18.0  | 20.4  | 21.0  |
| G81.0 | 1.5   | 1.5   | 1.8   | 3.8   | 5.6   | 12.1  | 15.9  | 16.6  |
| G82.0 | 1.3   | 1.3   | 1.4   | 1.5   | 3.4   | 7.1   | 11.8  | 12.6  |
| G83.0 | 1.1   | 1.1   | 1.2   | 1.2   | 1.5   | 2.9   | 7.3   | 9.4   |
| G84.0 | 0.9   | 1.0   | 1.0   | 1.0   | 1.1   | 1.4   | 3.4   | 6.5   |
| G85.0 | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.9   | 1.6   | 3.7   |
| G86.0 | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 1.0   | 1.6   |
| G87.0 | 0.5   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.8   | 0.9   |
| G88.0 | 0.5   | 0.5   | 0.4   | 0.5   | 0.4   | 0.4   | 0.5   | 0.6   |
| G89.0 | 0.3   | 0.3   | 0.3   | 0.4   | 0.4   | 0.3   | 0.4   | 0.5   |
| G90.0 | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |



**Light Distribution Data**

Unit: cd/klm

| G\C   | C80.0 | C85.0 | C90.0 | C95.0 | C100.0 | C105.0 | C110.0 | C115.0 |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| G0.0  | 341.7 | 341.7 | 341.7 | 341.7 | 341.7  | 341.7  | 341.7  | 341.7  |
| G1.0  | 341.4 | 341.9 | 341.2 | 341.1 | 341.5  | 341.6  | 341.3  | 341.5  |
| G2.0  | 340.9 | 341.4 | 341.2 | 341.1 | 341.5  | 341.7  | 341.4  | 341.5  |
| G3.0  | 340.8 | 341.2 | 340.8 | 340.4 | 341.7  | 341.3  | 341.0  | 341.1  |
| G4.0  | 340.3 | 340.9 | 340.7 | 340.3 | 341.4  | 341.1  | 340.8  | 341.1  |
| G5.0  | 339.9 | 340.4 | 340.5 | 339.9 | 341.1  | 340.7  | 340.8  | 340.9  |
| G6.0  | 339.7 | 340.0 | 340.1 | 339.5 | 340.7  | 340.8  | 340.3  | 340.5  |
| G7.0  | 338.9 | 339.4 | 339.9 | 339.5 | 340.1  | 340.3  | 340.2  | 340.5  |
| G8.0  | 338.9 | 338.9 | 339.3 | 338.9 | 339.7  | 340.2  | 339.5  | 340.3  |
| G9.0  | 338.4 | 338.7 | 338.4 | 338.4 | 339.3  | 339.2  | 339.4  | 340.2  |
| G10.0 | 337.9 | 338.3 | 338.0 | 338.7 | 338.9  | 338.9  | 338.5  | 339.4  |
| G11.0 | 338.1 | 337.7 | 337.2 | 338.5 | 337.7  | 338.3  | 338.5  | 338.7  |
| G12.0 | 336.8 | 337.7 | 336.7 | 338.5 | 337.2  | 338.1  | 337.9  | 338.9  |
| G13.0 | 336.4 | 337.1 | 336.4 | 338.1 | 336.2  | 337.8  | 337.3  | 338.4  |
| G14.0 | 335.7 | 337.0 | 336.6 | 337.4 | 335.9  | 337.3  | 336.5  | 338.5  |
| G15.0 | 334.6 | 337.1 | 337.1 | 337.0 | 336.3  | 336.5  | 336.2  | 338.0  |
| G16.0 | 334.4 | 336.2 | 336.4 | 335.7 | 336.7  | 335.5  | 336.6  | 337.1  |
| G17.0 | 334.8 | 335.2 | 335.2 | 334.9 | 336.0  | 334.5  | 336.0  | 336.4  |
| G18.0 | 334.7 | 333.8 | 334.0 | 334.1 | 335.2  | 334.0  | 335.4  | 336.0  |
| G19.0 | 333.5 | 333.1 | 332.9 | 335.2 | 334.4  | 333.2  | 334.5  | 336.5  |
| G20.0 | 332.5 | 334.0 | 333.2 | 334.8 | 333.9  | 332.0  | 333.9  | 335.7  |
| G21.0 | 332.0 | 333.9 | 333.8 | 333.6 | 332.4  | 331.1  | 334.0  | 334.2  |
| G22.0 | 330.5 | 332.1 | 332.5 | 332.9 | 331.0  | 331.6  | 332.9  | 332.9  |
| G23.0 | 329.1 | 331.0 | 331.4 | 331.9 | 330.8  | 330.7  | 332.8  | 331.4  |
| G24.0 | 328.6 | 330.5 | 330.7 | 329.9 | 329.5  | 329.5  | 331.9  | 329.6  |
| G25.0 | 327.0 | 328.9 | 329.1 | 329.2 | 328.3  | 329.0  | 331.2  | 328.1  |
| G26.0 | 324.8 | 327.9 | 328.2 | 327.8 | 328.2  | 328.3  | 331.0  | 326.1  |
| G27.0 | 325.9 | 326.1 | 326.8 | 326.0 | 327.2  | 327.8  | 329.8  | 324.0  |
| G28.0 | 324.7 | 325.0 | 324.6 | 326.9 | 326.0  | 326.9  | 327.8  | 321.5  |
| G29.0 | 323.2 | 325.0 | 325.5 | 325.2 | 325.4  | 325.7  | 325.6  | 319.9  |
| G30.0 | 322.4 | 322.9 | 323.5 | 324.2 | 325.1  | 325.8  | 322.9  | 317.5  |
| G31.0 | 321.6 | 322.1 | 322.4 | 323.4 | 323.1  | 323.7  | 320.7  | 315.0  |
| G32.0 | 320.4 | 322.1 | 321.8 | 322.5 | 323.0  | 320.8  | 318.1  | 312.7  |
| G33.0 | 320.5 | 320.2 | 320.8 | 320.7 | 321.4  | 318.2  | 315.5  | 309.7  |
| G34.0 | 318.3 | 319.2 | 318.6 | 320.7 | 318.8  | 315.1  | 313.1  | 307.1  |
| G35.0 | 314.8 | 317.6 | 318.4 | 317.8 | 315.5  | 312.2  | 309.7  | 304.1  |
| G36.0 | 312.0 | 314.8 | 315.4 | 314.7 | 312.5  | 309.2  | 306.7  | 301.0  |
| G37.0 | 308.4 | 311.4 | 312.1 | 311.3 | 308.9  | 305.1  | 303.4  | 297.8  |
| G38.0 | 304.8 | 307.9 | 308.3 | 307.5 | 305.2  | 302.4  | 300.2  | 294.3  |
| G39.0 | 301.2 | 303.9 | 304.5 | 303.8 | 302.1  | 298.9  | 296.7  | 291.2  |



**Light Distribution Data**

Unit: cd/klm

| G\C   | C80.0 | C85.0 | C90.0 | C95.0 | C100.0 | C105.0 | C110.0 | C115.0 |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| G40.0 | 296.9 | 299.6 | 299.9 | 299.0 | 297.5  | 294.7  | 292.5  | 287.6  |
| G41.0 | 292.5 | 295.3 | 295.7 | 295.3 | 293.3  | 290.3  | 288.6  | 283.8  |
| G42.0 | 288.2 | 290.5 | 291.4 | 290.5 | 288.9  | 286.3  | 284.1  | 279.7  |
| G43.0 | 283.3 | 285.8 | 286.1 | 285.6 | 284.0  | 281.3  | 279.6  | 275.5  |
| G44.0 | 278.5 | 281.0 | 281.1 | 280.6 | 279.0  | 276.7  | 274.8  | 270.8  |
| G45.0 | 274.2 | 275.9 | 277.0 | 275.5 | 274.4  | 271.4  | 270.2  | 265.6  |
| G46.0 | 269.2 | 271.4 | 271.4 | 271.3 | 270.0  | 266.8  | 264.7  | 261.1  |
| G47.0 | 264.4 | 266.8 | 266.9 | 266.4 | 264.9  | 262.1  | 259.8  | 255.8  |
| G48.0 | 259.0 | 261.3 | 261.8 | 260.7 | 259.6  | 256.6  | 254.8  | 250.3  |
| G49.0 | 254.2 | 256.1 | 256.3 | 255.9 | 254.9  | 252.0  | 250.0  | 245.9  |
| G50.0 | 248.7 | 250.9 | 250.9 | 250.3 | 249.4  | 246.5  | 244.8  | 240.7  |
| G51.0 | 242.8 | 244.8 | 245.1 | 244.4 | 243.7  | 240.7  | 239.2  | 235.3  |
| G52.0 | 237.3 | 239.6 | 239.4 | 238.6 | 238.4  | 235.4  | 233.8  | 230.0  |
| G53.0 | 231.8 | 233.6 | 233.6 | 232.4 | 232.6  | 229.2  | 228.0  | 223.7  |
| G54.0 | 225.2 | 227.5 | 227.5 | 226.3 | 225.9  | 223.3  | 221.9  | 218.0  |
| G55.0 | 219.2 | 221.7 | 221.2 | 220.4 | 220.1  | 217.1  | 215.9  | 212.0  |
| G56.0 | 212.6 | 214.2 | 214.9 | 213.9 | 213.5  | 210.5  | 209.5  | 205.5  |
| G57.0 | 206.0 | 207.9 | 208.2 | 207.6 | 207.2  | 204.2  | 203.0  | 199.2  |
| G58.0 | 199.2 | 201.5 | 201.5 | 200.8 | 200.5  | 197.6  | 196.6  | 192.3  |
| G59.0 | 191.7 | 193.7 | 194.0 | 193.4 | 193.0  | 190.4  | 189.2  | 184.9  |
| G60.0 | 184.3 | 185.9 | 186.4 | 185.9 | 185.8  | 183.6  | 183.0  | 177.9  |
| G61.0 | 175.8 | 178.2 | 178.1 | 178.0 | 177.6  | 175.3  | 174.6  | 169.0  |
| G62.0 | 168.0 | 170.5 | 170.6 | 170.7 | 170.4  | 168.0  | 167.3  | 161.3  |
| G63.0 | 160.9 | 163.1 | 162.6 | 163.0 | 163.0  | 161.0  | 160.2  | 153.5  |
| G64.0 | 151.8 | 154.6 | 153.9 | 154.5 | 154.0  | 153.0  | 151.2  | 143.2  |
| G65.0 | 144.1 | 146.5 | 145.7 | 146.8 | 146.5  | 145.5  | 143.8  | 135.2  |
| G66.0 | 135.4 | 137.1 | 136.5 | 137.8 | 138.6  | 137.4  | 134.8  | 126.9  |
| G67.0 | 126.5 | 129.3 | 127.8 | 129.6 | 129.3  | 128.8  | 125.6  | 118.7  |
| G68.0 | 118.6 | 121.4 | 120.3 | 122.1 | 121.5  | 120.8  | 116.3  | 110.8  |
| G69.0 | 110.1 | 112.4 | 112.0 | 113.9 | 112.9  | 113.0  | 106.5  | 101.9  |
| G70.0 | 101.9 | 104.3 | 103.7 | 105.6 | 105.0  | 104.4  | 98.6   | 94.0   |
| G71.0 | 93.8  | 96.1  | 95.5  | 97.6  | 96.6   | 95.7   | 90.2   | 86.7   |
| G72.0 | 85.3  | 87.1  | 86.7  | 88.8  | 88.3   | 85.8   | 81.5   | 78.6   |
| G73.0 | 77.5  | 79.1  | 78.3  | 80.4  | 80.3   | 76.7   | 73.6   | 70.5   |
| G74.0 | 70.0  | 69.7  | 70.1  | 71.6  | 72.9   | 66.9   | 66.3   | 62.7   |
| G75.0 | 61.0  | 61.1  | 60.7  | 62.7  | 64.2   | 59.1   | 58.0   | 55.6   |
| G76.0 | 52.5  | 52.7  | 52.8  | 54.6  | 56.3   | 50.9   | 50.6   | 49.0   |
| G77.0 | 44.0  | 44.6  | 44.8  | 46.1  | 47.8   | 43.3   | 42.5   | 41.2   |
| G78.0 | 36.2  | 37.7  | 37.9  | 39.3  | 39.8   | 36.7   | 36.1   | 35.2   |
| G79.0 | 29.0  | 31.3  | 31.6  | 32.6  | 32.0   | 30.7   | 30.4   | 29.4   |



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### Light Distribution Data

Unit: cd/klm

| G\C   | C80.0 | C85.0 | C90.0 | C95.0 | C100.0 | C105.0 | C110.0 | C115.0 |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| G80.0 | 22.8  | 25.4  | 25.5  | 26.7  | 25.2   | 24.3   | 24.3   | 23.8   |
| G81.0 | 18.2  | 21.1  | 20.6  | 21.7  | 20.1   | 19.5   | 19.6   | 17.7   |
| G82.0 | 14.1  | 16.9  | 16.2  | 17.2  | 15.7   | 15.0   | 15.4   | 11.5   |
| G83.0 | 10.4  | 13.3  | 12.5  | 14.0  | 11.8   | 11.3   | 10.3   | 7.9    |
| G84.0 | 7.6   | 9.5   | 9.4   | 10.2  | 8.6    | 8.3    | 6.8    | 2.8    |
| G85.0 | 5.3   | 6.1   | 6.6   | 6.6   | 6.1    | 5.1    | 2.6    | 1.1    |
| G86.0 | 3.3   | 4.0   | 3.9   | 4.5   | 4.1    | 3.1    | 1.3    | 0.8    |
| G87.0 | 1.7   | 2.3   | 2.2   | 2.7   | 2.4    | 1.3    | 0.8    | 0.6    |
| G88.0 | 0.8   | 1.2   | 1.2   | 1.5   | 1.0    | 0.7    | 0.6    | 0.5    |
| G89.0 | 0.5   | 0.7   | 0.7   | 0.8   | 0.6    | 0.5    | 0.4    | 0.3    |
| G90.0 | 0.4   | 0.4   | 0.5   | 0.4   | 0.4    | 0.4    | 0.4    | 0.3    |



**Light Distribution Data**

Unit: cd/klm

| G\C   | C120.0 | C125.0 | C130.0 | C135.0 | C140.0 | C145.0 | C150.0 | C155.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G0.0  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  |
| G1.0  | 342.0  | 341.8  | 342.1  | 341.7  | 341.8  | 341.6  | 341.9  | 341.3  |
| G2.0  | 341.8  | 341.5  | 342.3  | 341.6  | 341.4  | 341.8  | 341.8  | 341.7  |
| G3.0  | 341.5  | 341.7  | 341.8  | 341.6  | 341.5  | 341.8  | 341.8  | 341.8  |
| G4.0  | 341.6  | 341.6  | 341.9  | 341.3  | 341.7  | 341.5  | 341.9  | 341.3  |
| G5.0  | 341.3  | 341.5  | 341.8  | 341.6  | 341.4  | 341.5  | 341.4  | 341.3  |
| G6.0  | 341.3  | 341.5  | 341.7  | 341.0  | 341.7  | 340.9  | 341.3  | 341.0  |
| G7.0  | 340.8  | 341.3  | 341.2  | 340.8  | 340.9  | 340.7  | 340.8  | 340.7  |
| G8.0  | 340.4  | 340.8  | 340.7  | 340.2  | 340.2  | 340.3  | 340.3  | 340.6  |
| G9.0  | 339.9  | 339.9  | 340.4  | 340.3  | 340.0  | 339.9  | 339.9  | 340.2  |
| G10.0 | 339.2  | 339.3  | 339.8  | 339.4  | 339.5  | 339.3  | 339.5  | 339.6  |
| G11.0 | 338.6  | 338.9  | 338.9  | 338.6  | 339.3  | 338.5  | 339.2  | 338.9  |
| G12.0 | 338.1  | 338.2  | 338.3  | 338.0  | 338.6  | 338.1  | 338.4  | 338.1  |
| G13.0 | 337.3  | 337.4  | 337.4  | 337.6  | 337.5  | 337.3  | 337.9  | 337.7  |
| G14.0 | 336.8  | 336.7  | 336.9  | 336.6  | 336.5  | 336.7  | 336.7  | 336.6  |
| G15.0 | 335.6  | 335.8  | 336.3  | 335.7  | 335.8  | 335.4  | 335.9  | 335.9  |
| G16.0 | 334.4  | 334.9  | 335.0  | 334.5  | 334.6  | 334.4  | 334.9  | 334.7  |
| G17.0 | 333.5  | 333.7  | 334.2  | 333.6  | 333.7  | 333.6  | 334.3  | 333.5  |
| G18.0 | 332.6  | 332.3  | 332.9  | 332.1  | 332.6  | 332.5  | 332.6  | 332.2  |
| G19.0 | 331.1  | 331.1  | 332.1  | 331.1  | 331.2  | 331.1  | 331.5  | 330.9  |
| G20.0 | 330.3  | 330.5  | 330.5  | 329.6  | 330.2  | 329.8  | 330.1  | 329.7  |
| G21.0 | 329.1  | 328.6  | 328.8  | 328.8  | 328.7  | 328.3  | 328.9  | 328.5  |
| G22.0 | 327.3  | 327.0  | 327.9  | 327.0  | 327.2  | 326.9  | 327.1  | 327.1  |
| G23.0 | 325.7  | 325.6  | 326.4  | 325.5  | 325.4  | 325.6  | 326.0  | 325.0  |
| G24.0 | 323.9  | 323.9  | 324.3  | 323.5  | 324.1  | 323.5  | 324.3  | 323.6  |
| G25.0 | 322.4  | 322.2  | 322.4  | 322.0  | 322.4  | 321.8  | 322.2  | 321.8  |
| G26.0 | 320.4  | 320.4  | 320.9  | 320.3  | 320.7  | 320.3  | 320.3  | 319.7  |
| G27.0 | 318.2  | 318.2  | 318.6  | 318.5  | 318.8  | 318.5  | 318.3  | 317.9  |
| G28.0 | 316.4  | 316.3  | 317.0  | 316.1  | 316.3  | 316.4  | 316.4  | 315.8  |
| G29.0 | 314.5  | 314.1  | 314.6  | 313.8  | 314.4  | 314.2  | 314.1  | 313.6  |
| G30.0 | 311.9  | 311.9  | 312.4  | 311.6  | 312.0  | 312.0  | 311.8  | 311.1  |
| G31.0 | 309.7  | 309.7  | 310.1  | 309.7  | 309.6  | 309.5  | 309.6  | 308.8  |
| G32.0 | 306.9  | 307.1  | 307.1  | 306.9  | 307.2  | 306.9  | 306.9  | 306.0  |
| G33.0 | 304.2  | 304.3  | 304.5  | 304.8  | 304.7  | 304.3  | 304.6  | 303.1  |
| G34.0 | 301.6  | 301.9  | 302.3  | 301.7  | 301.8  | 301.6  | 301.1  | 300.0  |
| G35.0 | 298.7  | 298.8  | 299.0  | 298.9  | 299.3  | 298.3  | 297.6  | 296.8  |
| G36.0 | 296.1  | 295.9  | 296.6  | 295.5  | 296.1  | 294.9  | 294.7  | 293.4  |
| G37.0 | 293.0  | 292.8  | 293.6  | 292.6  | 293.0  | 291.1  | 291.2  | 289.0  |
| G38.0 | 289.6  | 289.7  | 290.2  | 289.4  | 288.9  | 287.9  | 286.8  | 285.5  |
| G39.0 | 286.5  | 286.6  | 287.0  | 285.8  | 285.7  | 284.5  | 283.2  | 281.2  |



**Light Distribution Data**

Unit: cd/klm

| G\C   | C120.0 | C125.0 | C130.0 | C135.0 | C140.0 | C145.0 | C150.0 | C155.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G40.0 | 282.3  | 282.9  | 283.3  | 281.8  | 281.4  | 279.5  | 278.7  | 276.2  |
| G41.0 | 279.1  | 279.1  | 279.5  | 278.3  | 278.0  | 275.8  | 273.6  | 271.5  |
| G42.0 | 275.5  | 275.7  | 275.8  | 274.4  | 273.4  | 271.1  | 268.9  | 267.2  |
| G43.0 | 271.5  | 271.7  | 271.1  | 269.8  | 268.6  | 265.6  | 263.8  | 261.7  |
| G44.0 | 267.2  | 267.6  | 267.3  | 265.2  | 263.7  | 261.0  | 258.7  | 256.2  |
| G45.0 | 262.2  | 262.7  | 262.7  | 260.4  | 258.2  | 255.1  | 253.4  | 250.9  |
| G46.0 | 257.4  | 257.8  | 257.9  | 255.5  | 252.8  | 249.5  | 247.5  | 245.5  |
| G47.0 | 252.6  | 252.8  | 252.7  | 249.5  | 247.4  | 244.3  | 242.0  | 240.4  |
| G48.0 | 246.9  | 246.7  | 247.1  | 243.7  | 241.1  | 238.0  | 235.9  | 234.5  |
| G49.0 | 241.8  | 242.0  | 241.4  | 238.0  | 235.2  | 232.3  | 230.7  | 229.2  |
| G50.0 | 236.5  | 235.7  | 234.5  | 231.4  | 229.2  | 226.5  | 224.9  | 223.7  |
| G51.0 | 230.6  | 229.7  | 227.5  | 224.5  | 222.5  | 220.1  | 218.6  | 217.2  |
| G52.0 | 225.4  | 223.6  | 220.8  | 217.9  | 216.6  | 214.6  | 212.8  | 211.3  |
| G53.0 | 220.3  | 216.2  | 213.8  | 210.7  | 210.2  | 207.8  | 206.8  | 204.8  |
| G54.0 | 213.3  | 209.7  | 206.6  | 203.9  | 203.5  | 201.8  | 200.1  | 198.8  |
| G55.0 | 207.5  | 203.4  | 200.1  | 197.3  | 197.1  | 195.5  | 193.9  | 193.1  |
| G56.0 | 200.3  | 195.4  | 192.8  | 190.2  | 189.8  | 188.6  | 187.6  | 186.2  |
| G57.0 | 193.0  | 188.5  | 186.1  | 183.8  | 183.0  | 182.1  | 181.3  | 180.4  |
| G58.0 | 185.9  | 181.6  | 179.3  | 177.1  | 176.0  | 175.4  | 174.6  | 174.2  |
| G59.0 | 178.2  | 173.9  | 172.3  | 169.9  | 168.9  | 168.1  | 168.0  | 167.7  |
| G60.0 | 170.3  | 166.8  | 165.5  | 162.7  | 161.8  | 161.2  | 161.8  | 161.4  |
| G61.0 | 162.0  | 159.3  | 157.8  | 155.4  | 154.2  | 153.8  | 154.4  | 154.1  |
| G62.0 | 154.7  | 152.2  | 150.7  | 148.5  | 147.4  | 146.8  | 147.7  | 147.8  |
| G63.0 | 147.6  | 145.1  | 143.8  | 141.2  | 141.1  | 140.2  | 141.2  | 140.8  |
| G64.0 | 139.1  | 137.0  | 135.7  | 133.8  | 133.5  | 132.7  | 133.6  | 133.2  |
| G65.0 | 131.4  | 129.7  | 128.5  | 126.9  | 126.6  | 126.0  | 126.2  | 126.3  |
| G66.0 | 124.0  | 121.4  | 121.2  | 119.0  | 119.8  | 118.1  | 119.1  | 118.8  |
| G67.0 | 115.3  | 113.3  | 113.0  | 112.1  | 112.0  | 110.9  | 111.3  | 111.4  |
| G68.0 | 108.1  | 106.0  | 105.9  | 105.1  | 104.8  | 104.0  | 104.1  | 104.1  |
| G69.0 | 99.7   | 98.3   | 98.0   | 97.3   | 97.1   | 96.1   | 96.1   | 96.3   |
| G70.0 | 91.2   | 90.7   | 90.9   | 89.7   | 90.1   | 88.8   | 88.4   | 81.2   |
| G71.0 | 84.1   | 83.2   | 83.5   | 82.6   | 82.6   | 81.6   | 73.9   | 63.2   |
| G72.0 | 76.5   | 75.6   | 75.8   | 74.8   | 74.6   | 66.5   | 56.1   | 54.0   |
| G73.0 | 69.1   | 68.4   | 68.5   | 67.7   | 64.1   | 50.7   | 48.5   | 48.0   |
| G74.0 | 62.2   | 60.9   | 61.7   | 58.8   | 46.7   | 43.5   | 42.9   | 36.3   |
| G75.0 | 55.0   | 53.8   | 53.8   | 42.1   | 39.6   | 37.7   | 29.8   | 15.2   |
| G76.0 | 48.2   | 47.4   | 44.1   | 34.8   | 33.8   | 23.2   | 13.1   | 12.7   |
| G77.0 | 41.3   | 40.2   | 30.6   | 28.7   | 19.7   | 11.0   | 10.8   | 10.2   |
| G78.0 | 34.6   | 27.4   | 25.5   | 17.7   | 9.6    | 8.9    | 7.2    | 2.4    |
| G79.0 | 28.7   | 21.7   | 19.5   | 8.1    | 7.7    | 3.3    | 2.2    | 1.9    |



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### Light Distribution Data

Unit: cd/klm

| G\C   | C120.0 | C125.0 | C130.0 | C135.0 | C140.0 | C145.0 | C150.0 | C155.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G80.0 | 17.9   | 16.9   | 6.7    | 6.3    | 2.2    | 1.8    | 1.7    | 1.6    |
| G81.0 | 14.2   | 5.5    | 5.2    | 1.9    | 1.6    | 1.5    | 1.5    | 1.4    |
| G82.0 | 7.0    | 4.2    | 1.8    | 1.4    | 1.4    | 1.3    | 1.3    | 1.2    |
| G83.0 | 3.5    | 1.5    | 1.3    | 1.2    | 1.1    | 1.1    | 1.1    | 1.0    |
| G84.0 | 1.4    | 1.1    | 1.1    | 1.0    | 1.0    | 1.0    | 0.9    | 0.9    |
| G85.0 | 1.0    | 0.9    | 0.9    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| G86.0 | 0.8    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| G87.0 | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.5    |
| G88.0 | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.4    |
| G89.0 | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| G90.0 | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.2    |



**Light Distribution Data**

Unit: cd/klm

| G\C   | C160.0 | C165.0 | C170.0 | C175.0 | C180.0 | C185.0 | C190.0 | C195.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G0.0  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  |
| G1.0  | 341.8  | 342.1  | 341.4  | 341.9  | 341.9  | 341.7  | 341.7  | 341.4  |
| G2.0  | 342.0  | 342.1  | 342.0  | 342.0  | 341.9  | 341.9  | 341.4  | 341.7  |
| G3.0  | 341.8  | 342.1  | 341.5  | 342.1  | 341.8  | 341.7  | 341.4  | 341.7  |
| G4.0  | 342.1  | 341.6  | 341.5  | 341.8  | 341.8  | 341.4  | 341.4  | 341.6  |
| G5.0  | 341.5  | 341.7  | 341.3  | 341.4  | 341.5  | 341.7  | 341.2  | 341.6  |
| G6.0  | 340.9  | 341.7  | 340.9  | 341.1  | 340.9  | 340.9  | 341.0  | 340.9  |
| G7.0  | 340.7  | 341.2  | 340.6  | 341.1  | 340.9  | 341.0  | 341.1  | 341.2  |
| G8.0  | 340.4  | 340.8  | 340.3  | 340.5  | 340.4  | 340.5  | 340.6  | 340.5  |
| G9.0  | 339.6  | 340.2  | 339.9  | 339.8  | 339.9  | 339.6  | 339.9  | 339.9  |
| G10.0 | 339.0  | 340.2  | 339.3  | 339.9  | 339.4  | 339.4  | 339.4  | 339.3  |
| G11.0 | 338.6  | 339.0  | 339.1  | 339.0  | 338.6  | 338.8  | 338.3  | 338.6  |
| G12.0 | 337.6  | 338.3  | 338.3  | 338.4  | 338.0  | 337.9  | 338.1  | 338.0  |
| G13.0 | 336.8  | 337.7  | 337.5  | 337.5  | 337.1  | 337.1  | 337.2  | 338.2  |
| G14.0 | 336.2  | 336.7  | 336.9  | 336.6  | 336.1  | 336.2  | 336.5  | 336.5  |
| G15.0 | 335.2  | 335.8  | 336.0  | 335.5  | 335.1  | 335.6  | 335.7  | 335.6  |
| G16.0 | 334.0  | 334.4  | 334.6  | 334.4  | 334.1  | 334.3  | 334.6  | 335.1  |
| G17.0 | 333.3  | 333.5  | 333.6  | 333.3  | 332.8  | 333.2  | 333.4  | 333.6  |
| G18.0 | 331.7  | 332.2  | 332.5  | 332.0  | 331.9  | 332.0  | 332.4  | 332.3  |
| G19.0 | 330.9  | 330.9  | 331.4  | 330.6  | 330.4  | 330.6  | 331.3  | 331.0  |
| G20.0 | 329.4  | 330.2  | 330.5  | 329.6  | 329.0  | 329.1  | 329.5  | 329.9  |
| G21.0 | 328.2  | 328.4  | 328.9  | 327.9  | 327.6  | 327.9  | 328.5  | 328.3  |
| G22.0 | 326.1  | 326.8  | 327.7  | 326.5  | 326.3  | 326.1  | 327.0  | 326.7  |
| G23.0 | 325.0  | 325.3  | 326.7  | 325.0  | 324.6  | 324.8  | 325.8  | 325.2  |
| G24.0 | 323.3  | 323.4  | 324.2  | 323.2  | 322.6  | 323.0  | 323.6  | 323.4  |
| G25.0 | 321.4  | 321.8  | 322.8  | 321.3  | 320.9  | 321.3  | 322.0  | 321.6  |
| G26.0 | 319.6  | 319.9  | 321.1  | 319.3  | 318.9  | 319.3  | 320.2  | 319.7  |
| G27.0 | 317.4  | 317.9  | 319.1  | 317.5  | 316.5  | 316.8  | 318.0  | 317.4  |
| G28.0 | 315.5  | 315.5  | 317.0  | 315.4  | 314.7  | 314.7  | 316.0  | 315.1  |
| G29.0 | 313.0  | 313.2  | 315.0  | 312.7  | 312.2  | 312.3  | 313.6  | 313.1  |
| G30.0 | 311.0  | 310.7  | 312.0  | 310.0  | 309.1  | 309.2  | 310.8  | 310.3  |
| G31.0 | 308.1  | 308.4  | 309.6  | 307.3  | 306.0  | 306.2  | 307.9  | 307.5  |
| G32.0 | 305.2  | 304.7  | 306.1  | 304.0  | 302.9  | 303.4  | 304.8  | 303.8  |
| G33.0 | 302.1  | 302.2  | 303.9  | 300.7  | 300.0  | 300.1  | 301.9  | 301.1  |
| G34.0 | 299.1  | 298.8  | 300.3  | 297.5  | 295.8  | 296.4  | 298.2  | 298.0  |
| G35.0 | 295.5  | 294.9  | 296.6  | 293.2  | 292.3  | 292.5  | 294.6  | 293.6  |
| G36.0 | 291.9  | 291.4  | 293.0  | 289.4  | 287.8  | 288.4  | 290.4  | 290.1  |
| G37.0 | 288.3  | 286.8  | 288.7  | 284.7  | 283.3  | 284.2  | 285.8  | 286.2  |
| G38.0 | 283.5  | 282.4  | 283.9  | 280.6  | 278.9  | 279.7  | 281.6  | 281.3  |
| G39.0 | 279.3  | 278.1  | 280.0  | 276.3  | 274.4  | 275.3  | 277.2  | 276.7  |



**Light Distribution Data**

Unit: cd/klm

| G\C   | C160.0 | C165.0 | C170.0 | C175.0 | C180.0 | C185.0 | C190.0 | C195.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G40.0 | 274.4  | 273.6  | 274.9  | 270.8  | 269.1  | 269.6  | 272.2  | 271.7  |
| G41.0 | 269.8  | 268.5  | 270.0  | 266.3  | 264.3  | 265.1  | 267.2  | 267.0  |
| G42.0 | 264.8  | 264.0  | 265.4  | 261.2  | 259.0  | 259.6  | 262.6  | 261.8  |
| G43.0 | 259.9  | 258.1  | 259.6  | 255.9  | 254.0  | 254.6  | 256.9  | 256.4  |
| G44.0 | 254.3  | 253.0  | 255.2  | 250.8  | 249.2  | 249.6  | 252.0  | 251.4  |
| G45.0 | 249.1  | 247.7  | 249.7  | 245.5  | 243.5  | 244.6  | 246.5  | 246.5  |
| G46.0 | 243.7  | 242.6  | 244.2  | 240.3  | 238.4  | 238.8  | 241.6  | 241.0  |
| G47.0 | 238.7  | 237.3  | 238.9  | 234.9  | 232.7  | 233.6  | 236.0  | 235.6  |
| G48.0 | 233.0  | 231.5  | 233.3  | 228.9  | 227.0  | 227.6  | 230.1  | 229.8  |
| G49.0 | 227.4  | 225.9  | 227.4  | 223.7  | 221.3  | 221.7  | 224.6  | 224.1  |
| G50.0 | 221.7  | 220.3  | 221.9  | 218.1  | 216.1  | 216.5  | 219.0  | 218.3  |
| G51.0 | 215.4  | 214.4  | 216.0  | 212.1  | 210.0  | 210.7  | 213.1  | 212.5  |
| G52.0 | 209.7  | 208.7  | 210.5  | 206.9  | 204.6  | 204.9  | 207.3  | 206.8  |
| G53.0 | 204.1  | 202.3  | 204.7  | 200.5  | 198.4  | 199.4  | 201.0  | 200.9  |
| G54.0 | 197.6  | 196.8  | 198.5  | 195.1  | 192.8  | 193.2  | 195.2  | 194.6  |
| G55.0 | 191.9  | 191.2  | 192.7  | 189.7  | 187.5  | 187.5  | 189.5  | 188.8  |
| G56.0 | 185.6  | 184.9  | 186.2  | 183.3  | 180.8  | 181.3  | 183.1  | 182.6  |
| G57.0 | 179.6  | 179.1  | 180.4  | 177.4  | 175.0  | 175.3  | 177.1  | 176.5  |
| G58.0 | 173.5  | 173.1  | 174.3  | 171.4  | 168.7  | 169.3  | 171.0  | 170.8  |
| G59.0 | 167.1  | 166.6  | 167.7  | 164.9  | 162.0  | 162.5  | 164.2  | 164.1  |
| G60.0 | 160.8  | 159.8  | 161.1  | 158.2  | 155.3  | 156.1  | 157.7  | 157.7  |
| G61.0 | 153.5  | 152.8  | 154.0  | 151.3  | 148.5  | 149.8  | 150.7  | 151.0  |
| G62.0 | 147.1  | 146.6  | 147.7  | 144.9  | 141.7  | 142.4  | 143.8  | 144.0  |
| G63.0 | 140.8  | 140.0  | 140.9  | 138.4  | 135.0  | 135.6  | 137.1  | 137.0  |
| G64.0 | 132.9  | 132.5  | 133.5  | 130.8  | 127.2  | 128.2  | 129.3  | 129.7  |
| G65.0 | 126.3  | 125.6  | 126.2  | 123.8  | 120.4  | 120.8  | 122.3  | 122.3  |
| G66.0 | 119.2  | 117.8  | 119.3  | 116.3  | 113.0  | 114.0  | 115.0  | 115.3  |
| G67.0 | 111.1  | 110.5  | 111.6  | 108.9  | 97.8   | 101.1  | 105.3  | 107.4  |
| G68.0 | 104.0  | 101.7  | 97.2   | 89.3   | 76.8   | 79.6   | 83.4   | 92.9   |
| G69.0 | 90.3   | 78.6   | 75.9   | 73.6   | 66.6   | 68.4   | 68.8   | 73.4   |
| G70.0 | 70.3   | 66.0   | 65.0   | 62.7   | 58.5   | 59.7   | 60.8   | 62.3   |
| G71.0 | 59.7   | 58.6   | 58.2   | 56.8   | 53.4   | 54.0   | 55.0   | 55.6   |
| G72.0 | 52.8   | 52.3   | 52.1   | 47.8   | 28.0   | 34.7   | 39.1   | 49.2   |
| G73.0 | 47.1   | 36.2   | 27.8   | 20.7   | 16.6   | 17.1   | 17.7   | 24.7   |
| G74.0 | 23.6   | 16.1   | 16.2   | 15.6   | 14.3   | 14.9   | 15.1   | 15.5   |
| G75.0 | 14.2   | 13.9   | 13.8   | 13.3   | 10.6   | 12.4   | 12.6   | 12.9   |
| G76.0 | 11.9   | 11.8   | 10.6   | 6.2    | 2.5    | 2.6    | 2.9    | 7.7    |
| G77.0 | 5.5    | 2.5    | 2.4    | 2.2    | 1.9    | 2.0    | 2.1    | 2.2    |
| G78.0 | 2.1    | 2.0    | 1.9    | 1.8    | 1.7    | 1.7    | 1.7    | 1.8    |
| G79.0 | 1.7    | 1.7    | 1.7    | 1.6    | 1.5    | 1.5    | 1.5    | 1.6    |



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### Light Distribution Data

Unit: cd/klm

| G\C   | C160.0 | C165.0 | C170.0 | C175.0 | C180.0 | C185.0 | C190.0 | C195.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G80.0 | 1.5    | 1.5    | 1.4    | 1.4    | 1.3    | 1.3    | 1.3    | 1.4    |
| G81.0 | 1.3    | 1.3    | 1.3    | 1.3    | 1.1    | 1.1    | 1.2    | 1.2    |
| G82.0 | 1.2    | 1.1    | 1.1    | 1.1    | 1.0    | 1.0    | 1.0    | 1.0    |
| G83.0 | 1.0    | 1.0    | 1.0    | 1.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| G84.0 | 0.9    | 0.9    | 0.9    | 0.9    | 0.8    | 0.8    | 0.8    | 0.8    |
| G85.0 | 0.8    | 0.8    | 0.8    | 0.8    | 0.6    | 0.7    | 0.7    | 0.7    |
| G86.0 | 0.7    | 0.7    | 0.7    | 0.7    | 0.5    | 0.5    | 0.5    | 0.5    |
| G87.0 | 0.5    | 0.5    | 0.5    | 0.5    | 0.4    | 0.4    | 0.4    | 0.4    |
| G88.0 | 0.4    | 0.4    | 0.4    | 0.4    | 0.3    | 0.4    | 0.4    | 0.3    |
| G89.0 | 0.3    | 0.3    | 0.3    | 0.3    | 0.2    | 0.1    | 0.2    | 0.1    |
| G90.0 | 0.2    | 0.2    | 0.2    | 0.2    | 0.1    | 0.1    | 0.1    | 0.1    |



**Light Distribution Data**

Unit: cd/klm

| G\C   | C200.0 | C205.0 | C210.0 | C215.0 | C220.0 | C225.0 | C230.0 | C235.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G0.0  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  |
| G1.0  | 342.1  | 341.5  | 341.9  | 341.8  | 342.0  | 341.9  | 341.9  | 341.6  |
| G2.0  | 341.8  | 341.6  | 341.8  | 341.4  | 341.8  | 341.7  | 342.0  | 341.9  |
| G3.0  | 341.2  | 341.2  | 341.4  | 341.2  | 342.0  | 341.9  | 341.6  | 341.6  |
| G4.0  | 341.3  | 341.0  | 341.6  | 341.1  | 341.7  | 341.7  | 341.8  | 341.4  |
| G5.0  | 341.2  | 340.7  | 341.5  | 341.3  | 341.3  | 341.3  | 341.3  | 341.4  |
| G6.0  | 340.3  | 340.6  | 341.3  | 341.0  | 341.0  | 341.2  | 341.2  | 341.2  |
| G7.0  | 340.1  | 340.2  | 340.8  | 340.6  | 340.8  | 341.2  | 341.2  | 340.8  |
| G8.0  | 339.7  | 339.9  | 340.0  | 340.2  | 340.5  | 340.5  | 340.2  | 340.6  |
| G9.0  | 339.3  | 339.4  | 340.3  | 339.5  | 339.9  | 340.0  | 340.0  | 339.5  |
| G10.0 | 338.6  | 339.2  | 339.7  | 339.5  | 339.4  | 339.4  | 339.5  | 339.3  |
| G11.0 | 337.9  | 338.5  | 339.0  | 338.5  | 338.9  | 338.7  | 338.8  | 338.6  |
| G12.0 | 336.9  | 338.1  | 338.3  | 337.6  | 338.1  | 338.4  | 338.3  | 338.2  |
| G13.0 | 335.7  | 337.1  | 337.4  | 337.0  | 337.7  | 337.6  | 337.7  | 337.5  |
| G14.0 | 334.6  | 336.4  | 336.4  | 336.3  | 336.4  | 336.8  | 336.6  | 336.4  |
| G15.0 | 334.0  | 335.4  | 335.6  | 335.4  | 335.6  | 335.9  | 335.8  | 335.2  |
| G16.0 | 332.9  | 334.6  | 334.7  | 334.4  | 334.7  | 334.5  | 334.3  | 334.5  |
| G17.0 | 331.9  | 333.5  | 333.4  | 333.2  | 333.6  | 333.6  | 333.5  | 333.5  |
| G18.0 | 330.6  | 332.4  | 332.3  | 332.0  | 332.1  | 332.7  | 332.4  | 332.3  |
| G19.0 | 329.2  | 330.8  | 331.1  | 330.8  | 331.0  | 331.0  | 331.2  | 330.7  |
| G20.0 | 328.2  | 329.7  | 329.7  | 329.1  | 329.7  | 329.5  | 329.8  | 329.9  |
| G21.0 | 326.8  | 328.0  | 328.2  | 328.3  | 328.2  | 328.4  | 328.3  | 328.1  |
| G22.0 | 325.0  | 326.2  | 326.9  | 326.7  | 326.9  | 326.7  | 326.9  | 326.3  |
| G23.0 | 323.4  | 324.7  | 324.9  | 324.8  | 325.0  | 325.2  | 325.0  | 324.9  |
| G24.0 | 321.9  | 322.6  | 323.2  | 323.2  | 323.1  | 323.7  | 323.3  | 323.4  |
| G25.0 | 320.1  | 320.7  | 321.2  | 321.2  | 321.3  | 321.7  | 321.7  | 321.2  |
| G26.0 | 318.5  | 318.6  | 319.6  | 319.6  | 319.9  | 319.6  | 320.0  | 319.5  |
| G27.0 | 316.4  | 316.1  | 317.4  | 317.4  | 317.8  | 317.8  | 317.4  | 317.1  |
| G28.0 | 314.1  | 314.4  | 315.1  | 315.2  | 315.2  | 315.5  | 315.5  | 315.2  |
| G29.0 | 312.1  | 312.2  | 313.2  | 313.3  | 313.1  | 313.8  | 313.4  | 313.0  |
| G30.0 | 309.6  | 309.7  | 310.8  | 310.7  | 310.7  | 310.8  | 311.1  | 310.7  |
| G31.0 | 306.9  | 307.3  | 308.2  | 308.5  | 308.4  | 308.6  | 308.8  | 308.5  |
| G32.0 | 303.7  | 304.1  | 305.3  | 305.8  | 306.2  | 306.0  | 305.8  | 305.8  |
| G33.0 | 300.9  | 301.6  | 302.7  | 303.1  | 303.0  | 303.5  | 303.7  | 303.3  |
| G34.0 | 297.8  | 298.3  | 299.7  | 300.5  | 300.6  | 300.8  | 300.7  | 300.5  |
| G35.0 | 294.1  | 295.0  | 296.3  | 297.1  | 297.6  | 298.2  | 297.9  | 297.6  |
| G36.0 | 290.1  | 291.5  | 293.0  | 293.8  | 294.8  | 294.9  | 295.1  | 295.1  |
| G37.0 | 286.4  | 287.4  | 289.3  | 290.6  | 290.9  | 292.1  | 291.7  | 291.5  |
| G38.0 | 282.0  | 283.4  | 284.9  | 286.4  | 287.6  | 288.8  | 288.4  | 288.2  |
| G39.0 | 277.3  | 278.8  | 281.4  | 283.1  | 283.8  | 284.9  | 285.2  | 284.9  |



**Light Distribution Data**

Unit: cd/klm

| G\C   | C200.0 | C205.0 | C210.0 | C215.0 | C220.0 | C225.0 | C230.0 | C235.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G40.0 | 272.6  | 273.3  | 276.5  | 278.1  | 279.9  | 281.0  | 281.5  | 280.6  |
| G41.0 | 267.7  | 268.9  | 271.4  | 274.1  | 275.3  | 277.0  | 277.2  | 276.8  |
| G42.0 | 262.8  | 264.1  | 266.6  | 269.5  | 271.0  | 273.0  | 272.8  | 273.0  |
| G43.0 | 257.9  | 258.8  | 261.3  | 263.7  | 266.1  | 268.3  | 268.3  | 268.0  |
| G44.0 | 252.3  | 253.6  | 256.1  | 258.9  | 261.0  | 263.1  | 263.4  | 263.9  |
| G45.0 | 246.8  | 248.2  | 250.1  | 253.3  | 254.9  | 258.3  | 258.3  | 259.1  |
| G46.0 | 241.7  | 242.8  | 244.7  | 247.4  | 249.7  | 252.4  | 253.7  | 254.0  |
| G47.0 | 236.8  | 237.8  | 239.0  | 242.1  | 244.0  | 246.4  | 248.1  | 249.5  |
| G48.0 | 230.4  | 231.8  | 232.8  | 235.6  | 237.0  | 239.9  | 242.3  | 244.2  |
| G49.0 | 225.2  | 226.7  | 226.9  | 229.9  | 230.9  | 234.0  | 236.5  | 239.2  |
| G50.0 | 219.2  | 220.7  | 221.5  | 223.9  | 224.5  | 227.4  | 229.8  | 233.6  |
| G51.0 | 212.8  | 214.3  | 214.7  | 217.5  | 217.9  | 220.6  | 223.6  | 227.7  |
| G52.0 | 207.3  | 208.5  | 208.9  | 211.2  | 211.5  | 214.3  | 217.3  | 221.5  |
| G53.0 | 200.8  | 202.8  | 202.5  | 204.8  | 204.9  | 207.9  | 209.5  | 214.6  |
| G54.0 | 195.0  | 196.4  | 196.3  | 198.1  | 198.6  | 200.8  | 203.2  | 207.7  |
| G55.0 | 189.0  | 190.6  | 190.5  | 191.5  | 192.3  | 194.3  | 196.5  | 200.9  |
| G56.0 | 182.9  | 184.1  | 183.4  | 184.1  | 185.1  | 187.5  | 188.9  | 192.7  |
| G57.0 | 176.7  | 178.2  | 177.3  | 178.0  | 178.6  | 181.0  | 182.5  | 185.7  |
| G58.0 | 171.2  | 172.4  | 170.6  | 171.5  | 172.2  | 174.3  | 175.6  | 178.8  |
| G59.0 | 164.2  | 165.6  | 163.7  | 164.2  | 164.6  | 167.1  | 168.1  | 170.7  |
| G60.0 | 157.9  | 159.3  | 157.0  | 157.9  | 158.2  | 160.1  | 161.1  | 164.0  |
| G61.0 | 150.7  | 152.7  | 150.0  | 151.4  | 150.7  | 153.3  | 153.4  | 156.5  |
| G62.0 | 144.3  | 145.7  | 143.3  | 144.3  | 144.2  | 145.6  | 146.6  | 149.0  |
| G63.0 | 137.0  | 138.5  | 136.6  | 137.5  | 137.4  | 138.7  | 139.1  | 141.3  |
| G64.0 | 129.8  | 131.1  | 129.1  | 130.1  | 130.0  | 130.9  | 131.5  | 133.3  |
| G65.0 | 122.7  | 124.1  | 122.3  | 122.9  | 122.9  | 124.0  | 123.7  | 125.8  |
| G66.0 | 115.5  | 116.7  | 115.0  | 115.7  | 115.6  | 116.9  | 116.3  | 118.5  |
| G67.0 | 107.6  | 109.0  | 107.5  | 108.3  | 107.9  | 109.2  | 108.6  | 110.0  |
| G68.0 | 100.0  | 101.4  | 99.8   | 101.0  | 100.9  | 101.7  | 101.5  | 103.0  |
| G69.0 | 78.3   | 93.4   | 91.8   | 93.7   | 92.8   | 94.3   | 93.6   | 95.3   |
| G70.0 | 63.8   | 71.5   | 81.9   | 85.3   | 85.6   | 86.7   | 86.6   | 86.9   |
| G71.0 | 56.2   | 59.1   | 63.0   | 77.9   | 78.0   | 79.5   | 79.0   | 80.1   |
| G72.0 | 49.6   | 51.3   | 51.4   | 58.1   | 69.8   | 71.7   | 71.0   | 72.2   |
| G73.0 | 35.2   | 45.7   | 45.4   | 46.9   | 54.2   | 63.9   | 64.3   | 65.2   |
| G74.0 | 15.3   | 26.8   | 39.5   | 40.9   | 41.9   | 54.5   | 57.1   | 58.0   |
| G75.0 | 13.0   | 13.8   | 16.5   | 34.8   | 35.8   | 37.6   | 49.3   | 51.0   |
| G76.0 | 10.8   | 11.5   | 11.7   | 14.3   | 29.5   | 32.2   | 34.1   | 44.2   |
| G77.0 | 2.4    | 6.3    | 9.3    | 10.0   | 10.7   | 26.3   | 27.4   | 35.8   |
| G78.0 | 1.9    | 2.1    | 2.5    | 7.8    | 8.6    | 11.0   | 22.6   | 23.9   |
| G79.0 | 1.6    | 1.7    | 1.8    | 2.2    | 5.6    | 7.4    | 9.6    | 19.5   |



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### Light Distribution Data

Unit: cd/klm

| G\C   | C200.0 | C205.0 | C210.0 | C215.0 | C220.0 | C225.0 | C230.0 | C235.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G80.0 | 1.4    | 1.5    | 1.5    | 1.6    | 1.8    | 4.3    | 5.8    | 10.8   |
| G81.0 | 1.2    | 1.3    | 1.3    | 1.4    | 1.4    | 1.6    | 2.8    | 4.9    |
| G82.0 | 1.0    | 1.1    | 1.1    | 1.2    | 1.2    | 1.3    | 1.4    | 2.9    |
| G83.0 | 0.9    | 0.9    | 1.0    | 1.0    | 1.0    | 1.0    | 1.1    | 1.2    |
| G84.0 | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.9    | 0.9    | 1.0    |
| G85.0 | 0.6    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.8    |
| G86.0 | 0.5    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| G87.0 | 0.4    | 0.4    | 0.4    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| G88.0 | 0.3    | 0.3    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| G89.0 | 0.2    | 0.2    | 0.2    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    |
| G90.0 | 0.1    | 0.1    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |



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**Light Distribution Data**

Unit: cd/klm

| G\C   | C240.0 | C245.0 | C250.0 | C255.0 | C260.0 | C265.0 | C270.0 | C275.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G0.0  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  |
| G1.0  | 342.1  | 341.9  | 342.0  | 342.4  | 342.1  | 341.5  | 341.6  | 341.6  |
| G2.0  | 342.3  | 342.6  | 341.9  | 342.8  | 342.3  | 341.8  | 341.7  | 342.3  |
| G3.0  | 343.0  | 342.3  | 342.1  | 343.6  | 342.3  | 342.7  | 341.9  | 343.1  |
| G4.0  | 343.1  | 342.6  | 342.8  | 343.3  | 342.5  | 343.2  | 342.6  | 343.4  |
| G5.0  | 342.8  | 342.9  | 342.9  | 343.5  | 342.0  | 343.8  | 343.4  | 344.1  |
| G6.0  | 342.7  | 343.3  | 342.8  | 343.4  | 342.3  | 344.6  | 344.1  | 343.5  |
| G7.0  | 342.3  | 343.2  | 343.2  | 343.7  | 343.0  | 344.5  | 344.0  | 343.4  |
| G8.0  | 341.8  | 343.5  | 342.9  | 343.7  | 344.2  | 344.3  | 344.1  | 343.1  |
| G9.0  | 341.1  | 343.9  | 342.5  | 343.5  | 344.5  | 344.0  | 343.6  | 343.8  |
| G10.0 | 340.7  | 344.3  | 343.7  | 343.0  | 344.0  | 344.4  | 343.7  | 345.0  |
| G11.0 | 339.9  | 343.9  | 344.1  | 343.0  | 344.0  | 345.8  | 344.9  | 345.1  |
| G12.0 | 339.7  | 343.9  | 343.6  | 343.3  | 344.4  | 345.6  | 345.5  | 344.4  |
| G13.0 | 338.7  | 344.0  | 343.6  | 342.7  | 343.4  | 345.0  | 344.6  | 344.8  |
| G14.0 | 337.6  | 344.7  | 343.8  | 342.5  | 342.9  | 345.3  | 345.0  | 344.1  |
| G15.0 | 336.8  | 344.2  | 343.8  | 343.4  | 343.0  | 344.9  | 344.1  | 343.9  |
| G16.0 | 336.0  | 342.8  | 343.7  | 343.2  | 342.0  | 343.9  | 343.6  | 343.4  |
| G17.0 | 334.5  | 341.9  | 343.0  | 342.7  | 342.3  | 343.8  | 343.3  | 342.5  |
| G18.0 | 333.5  | 340.4  | 343.3  | 342.7  | 342.8  | 343.0  | 342.4  | 342.4  |
| G19.0 | 332.3  | 339.4  | 343.5  | 342.7  | 342.0  | 343.0  | 342.3  | 343.0  |
| G20.0 | 330.9  | 337.9  | 342.2  | 342.4  | 341.8  | 343.3  | 343.1  | 342.1  |
| G21.0 | 329.5  | 336.7  | 340.7  | 341.6  | 342.0  | 342.7  | 341.8  | 341.6  |
| G22.0 | 328.0  | 335.0  | 338.9  | 342.5  | 341.8  | 341.7  | 341.2  | 341.9  |
| G23.0 | 326.4  | 333.4  | 337.4  | 340.9  | 340.9  | 342.3  | 341.8  | 341.3  |
| G24.0 | 324.5  | 331.6  | 335.4  | 339.1  | 341.5  | 341.5  | 340.6  | 340.5  |
| G25.0 | 322.9  | 329.6  | 333.4  | 337.2  | 339.3  | 342.2  | 341.3  | 340.8  |
| G26.0 | 320.9  | 327.8  | 331.9  | 335.2  | 337.5  | 340.8  | 340.1  | 338.9  |
| G27.0 | 318.9  | 326.0  | 329.6  | 333.3  | 335.3  | 338.1  | 338.1  | 336.2  |
| G28.0 | 316.6  | 323.3  | 327.8  | 331.2  | 333.0  | 336.1  | 335.8  | 334.6  |
| G29.0 | 314.6  | 321.3  | 325.1  | 328.8  | 330.6  | 333.9  | 333.6  | 332.6  |
| G30.0 | 312.4  | 319.0  | 322.8  | 326.4  | 328.2  | 331.5  | 331.2  | 329.6  |
| G31.0 | 309.9  | 316.5  | 320.8  | 324.1  | 325.5  | 328.6  | 328.1  | 327.2  |
| G32.0 | 307.1  | 313.8  | 317.8  | 321.0  | 322.4  | 325.6  | 325.5  | 323.8  |
| G33.0 | 304.9  | 311.5  | 314.7  | 318.0  | 319.7  | 322.8  | 322.2  | 321.0  |
| G34.0 | 301.7  | 308.4  | 311.4  | 314.9  | 316.4  | 318.8  | 318.7  | 317.9  |
| G35.0 | 298.7  | 305.1  | 308.3  | 311.0  | 312.8  | 315.8  | 314.9  | 314.4  |
| G36.0 | 296.0  | 301.8  | 304.9  | 308.0  | 309.0  | 311.6  | 311.2  | 310.5  |
| G37.0 | 292.2  | 298.2  | 300.9  | 304.3  | 304.8  | 308.0  | 307.1  | 306.9  |
| G38.0 | 288.8  | 294.6  | 297.2  | 300.0  | 301.3  | 304.0  | 303.5  | 302.8  |
| G39.0 | 285.0  | 290.3  | 293.5  | 296.2  | 297.5  | 300.2  | 299.4  | 299.1  |

Test Type : Type C      Test Distance : 8.137 m      C Plane (°): 0.0-360.0:5.0 (°) : 0.0-90.0:1.0  
 Test Device : Lisun LSG-1700B      Temperature : 21.5°C      Humidity : 42.0%  
 Test Lab : Light Lab TU-Gabrovo  
 Test By : Eng. Ivaylo Stoyanov      Review By :



**Light Distribution Data**

Unit: cd/klm

| G\C   | C240.0 | C245.0 | C250.0 | C255.0 | C260.0 | C265.0 | C270.0 | C275.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G40.0 | 281.0  | 286.3  | 289.0  | 291.9  | 293.5  | 296.3  | 295.4  | 295.0  |
| G41.0 | 277.1  | 282.1  | 285.3  | 288.3  | 289.6  | 292.3  | 291.7  | 291.4  |
| G42.0 | 272.7  | 278.0  | 281.5  | 284.4  | 285.3  | 288.4  | 287.8  | 287.1  |
| G43.0 | 268.5  | 273.7  | 276.9  | 280.2  | 281.1  | 283.5  | 283.0  | 282.8  |
| G44.0 | 264.2  | 269.7  | 272.5  | 275.5  | 276.8  | 279.4  | 278.5  | 278.2  |
| G45.0 | 259.5  | 265.7  | 268.0  | 271.5  | 271.8  | 274.6  | 273.3  | 273.7  |
| G46.0 | 255.3  | 260.6  | 263.4  | 265.9  | 267.3  | 269.2  | 268.5  | 268.8  |
| G47.0 | 251.0  | 256.2  | 258.9  | 261.6  | 262.1  | 264.1  | 263.9  | 263.9  |
| G48.0 | 245.5  | 250.8  | 253.4  | 256.1  | 257.0  | 258.7  | 258.3  | 258.1  |
| G49.0 | 240.5  | 245.9  | 248.4  | 250.9  | 251.5  | 253.5  | 252.7  | 253.4  |
| G50.0 | 235.4  | 240.8  | 243.0  | 245.4  | 246.5  | 248.5  | 247.4  | 248.1  |
| G51.0 | 229.3  | 235.2  | 236.7  | 239.5  | 240.4  | 241.8  | 241.3  | 242.0  |
| G52.0 | 224.0  | 229.5  | 231.4  | 233.9  | 234.6  | 236.0  | 235.5  | 236.2  |
| G53.0 | 217.3  | 223.6  | 224.9  | 228.0  | 228.4  | 230.3  | 228.9  | 230.0  |
| G54.0 | 211.1  | 216.9  | 218.9  | 221.7  | 222.1  | 223.7  | 223.1  | 223.8  |
| G55.0 | 205.1  | 211.0  | 213.1  | 214.9  | 216.1  | 217.5  | 216.5  | 217.3  |
| G56.0 | 197.3  | 203.7  | 206.2  | 208.2  | 209.3  | 210.0  | 209.3  | 210.2  |
| G57.0 | 189.5  | 197.4  | 199.8  | 201.5  | 202.5  | 203.7  | 202.6  | 203.7  |
| G58.0 | 182.9  | 190.4  | 193.3  | 194.9  | 195.7  | 196.6  | 195.7  | 196.3  |
| G59.0 | 174.3  | 183.3  | 185.5  | 186.9  | 187.5  | 188.8  | 187.7  | 188.4  |
| G60.0 | 166.5  | 175.7  | 178.3  | 179.9  | 180.4  | 181.7  | 180.4  | 181.6  |
| G61.0 | 158.6  | 167.0  | 170.1  | 172.6  | 172.5  | 174.8  | 172.1  | 174.2  |
| G62.0 | 150.6  | 157.9  | 162.9  | 165.0  | 165.4  | 166.4  | 164.9  | 166.3  |
| G63.0 | 142.7  | 150.4  | 155.8  | 157.6  | 157.6  | 159.1  | 156.7  | 158.5  |
| G64.0 | 134.8  | 140.5  | 147.2  | 149.9  | 148.6  | 150.0  | 147.6  | 149.4  |
| G65.0 | 127.1  | 132.5  | 139.0  | 142.1  | 140.5  | 142.0  | 138.9  | 141.0  |
| G66.0 | 119.8  | 124.2  | 129.5  | 134.0  | 132.6  | 133.9  | 130.7  | 133.2  |
| G67.0 | 111.3  | 115.4  | 120.1  | 125.5  | 124.1  | 125.6  | 122.4  | 124.5  |
| G68.0 | 103.5  | 107.2  | 111.0  | 117.3  | 116.1  | 117.8  | 114.3  | 116.9  |
| G69.0 | 94.8   | 99.7   | 101.9  | 110.2  | 107.3  | 109.8  | 105.7  | 108.3  |
| G70.0 | 87.6   | 91.3   | 93.7   | 100.5  | 99.7   | 101.2  | 98.0   | 99.1   |
| G71.0 | 80.2   | 83.8   | 85.6   | 92.0   | 91.5   | 93.2   | 89.6   | 91.2   |
| G72.0 | 72.3   | 75.1   | 77.0   | 82.0   | 83.3   | 84.5   | 80.6   | 82.4   |
| G73.0 | 65.1   | 67.8   | 69.2   | 73.0   | 75.4   | 76.4   | 72.3   | 74.0   |
| G74.0 | 58.4   | 60.3   | 62.0   | 63.9   | 67.7   | 68.0   | 63.9   | 65.6   |
| G75.0 | 50.9   | 52.9   | 53.5   | 55.3   | 58.8   | 58.4   | 55.2   | 56.2   |
| G76.0 | 44.2   | 45.9   | 45.8   | 47.5   | 51.1   | 51.0   | 47.8   | 48.1   |
| G77.0 | 37.0   | 38.7   | 38.4   | 40.2   | 42.6   | 42.5   | 39.9   | 40.4   |
| G78.0 | 31.0   | 32.6   | 32.3   | 33.7   | 35.1   | 35.6   | 33.2   | 33.7   |
| G79.0 | 22.0   | 27.1   | 26.6   | 27.7   | 27.7   | 29.2   | 27.2   | 28.2   |



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### Light Distribution Data

Unit: cd/klm

| G\C   | C240.0 | C245.0 | C250.0 | C255.0 | C260.0 | C265.0 | C270.0 | C275.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G80.0 | 15.6   | 21.2   | 21.2   | 21.5   | 21.5   | 23.4   | 21.4   | 23.0   |
| G81.0 | 11.4   | 14.2   | 16.6   | 17.0   | 16.8   | 19.0   | 17.1   | 18.6   |
| G82.0 | 3.8    | 10.2   | 12.1   | 12.9   | 12.7   | 15.0   | 13.1   | 14.7   |
| G83.0 | 2.2    | 3.7    | 7.6    | 9.4    | 9.4    | 11.7   | 10.1   | 10.1   |
| G84.0 | 1.0    | 2.2    | 4.7    | 6.6    | 6.8    | 8.2    | 7.2    | 6.8    |
| G85.0 | 0.8    | 0.8    | 1.8    | 3.7    | 4.6    | 5.0    | 4.5    | 4.4    |
| G86.0 | 0.6    | 0.6    | 0.8    | 1.5    | 2.8    | 3.1    | 2.4    | 2.6    |
| G87.0 | 0.5    | 0.5    | 0.6    | 0.7    | 1.4    | 1.7    | 1.4    | 1.4    |
| G88.0 | 0.4    | 0.3    | 0.5    | 0.5    | 0.6    | 0.8    | 0.7    | 0.7    |
| G89.0 | 0.3    | 0.3    | 0.3    | 0.3    | 0.4    | 0.4    | 0.5    | 0.3    |
| G90.0 | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |



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### Light Distribution Data

Unit: cd/klm

| G\C   | C280.0 | C285.0 | C290.0 | C295.0 | C300.0 | C305.0 | C310.0 | C315.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G0.0  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  |
| G1.0  | 341.7  | 341.6  | 341.3  | 341.7  | 341.5  | 341.4  | 341.8  | 341.2  |
| G2.0  | 341.7  | 341.8  | 341.4  | 341.4  | 341.2  | 341.4  | 341.5  | 340.9  |
| G3.0  | 341.9  | 342.0  | 341.3  | 341.9  | 340.9  | 340.9  | 341.0  | 340.6  |
| G4.0  | 341.5  | 342.0  | 341.1  | 342.0  | 340.7  | 340.7  | 340.8  | 340.1  |
| G5.0  | 342.0  | 342.4  | 341.5  | 342.5  | 340.4  | 340.0  | 340.5  | 339.9  |
| G6.0  | 343.1  | 342.1  | 341.7  | 342.7  | 339.8  | 340.0  | 339.6  | 339.6  |
| G7.0  | 343.8  | 341.8  | 342.5  | 342.3  | 338.9  | 339.1  | 339.6  | 339.2  |
| G8.0  | 343.8  | 341.6  | 342.3  | 342.6  | 338.5  | 338.9  | 338.7  | 337.9  |
| G9.0  | 343.1  | 341.7  | 342.5  | 342.8  | 338.1  | 338.2  | 338.0  | 337.4  |
| G10.0 | 343.0  | 341.8  | 342.5  | 343.2  | 337.6  | 337.3  | 337.7  | 336.9  |
| G11.0 | 343.6  | 341.2  | 342.6  | 343.0  | 336.8  | 336.6  | 336.8  | 336.0  |
| G12.0 | 343.0  | 340.7  | 342.6  | 342.3  | 335.6  | 335.7  | 335.9  | 335.1  |
| G13.0 | 342.5  | 341.7  | 342.7  | 341.4  | 334.9  | 335.0  | 335.0  | 334.1  |
| G14.0 | 342.3  | 342.1  | 342.9  | 340.3  | 333.8  | 333.9  | 333.8  | 333.7  |
| G15.0 | 342.0  | 341.4  | 342.4  | 339.4  | 333.0  | 332.8  | 332.6  | 332.1  |
| G16.0 | 341.2  | 341.1  | 342.7  | 338.1  | 331.6  | 332.3  | 331.7  | 330.9  |
| G17.0 | 342.7  | 341.4  | 342.9  | 337.1  | 330.4  | 330.7  | 330.3  | 329.8  |
| G18.0 | 341.5  | 341.6  | 341.8  | 335.7  | 329.3  | 329.5  | 329.1  | 328.3  |
| G19.0 | 341.3  | 340.7  | 340.4  | 334.5  | 327.8  | 327.9  | 327.4  | 326.8  |
| G20.0 | 341.2  | 340.3  | 339.0  | 332.9  | 326.5  | 326.2  | 326.3  | 325.3  |
| G21.0 | 341.6  | 341.0  | 337.8  | 331.5  | 325.2  | 324.6  | 324.3  | 323.9  |
| G22.0 | 340.2  | 339.3  | 336.0  | 329.6  | 323.4  | 323.0  | 323.0  | 322.2  |
| G23.0 | 340.8  | 337.6  | 334.0  | 328.2  | 321.6  | 321.3  | 320.9  | 320.1  |
| G24.0 | 339.7  | 336.3  | 331.9  | 326.4  | 319.7  | 319.3  | 318.9  | 318.2  |
| G25.0 | 338.0  | 333.9  | 329.9  | 324.4  | 317.9  | 317.1  | 316.9  | 316.3  |
| G26.0 | 335.9  | 332.2  | 328.4  | 322.2  | 315.8  | 315.2  | 314.9  | 313.8  |
| G27.0 | 333.7  | 330.0  | 326.1  | 320.0  | 313.5  | 313.1  | 312.9  | 311.4  |
| G28.0 | 331.5  | 327.4  | 323.4  | 317.7  | 311.2  | 311.0  | 310.2  | 309.2  |
| G29.0 | 329.2  | 325.2  | 321.7  | 315.8  | 309.1  | 308.7  | 307.3  | 307.0  |
| G30.0 | 326.8  | 323.0  | 318.8  | 313.2  | 306.5  | 306.3  | 305.3  | 304.0  |
| G31.0 | 324.4  | 320.2  | 316.7  | 310.5  | 304.1  | 303.7  | 302.6  | 301.5  |
| G32.0 | 321.1  | 317.3  | 313.8  | 307.7  | 301.7  | 300.9  | 299.5  | 298.2  |
| G33.0 | 318.1  | 314.7  | 310.6  | 305.2  | 298.8  | 297.8  | 296.8  | 295.8  |
| G34.0 | 314.6  | 311.7  | 307.8  | 302.0  | 295.7  | 295.4  | 294.1  | 292.7  |
| G35.0 | 311.1  | 308.1  | 304.4  | 298.9  | 292.6  | 291.7  | 290.6  | 289.2  |
| G36.0 | 307.7  | 304.0  | 300.5  | 295.5  | 289.1  | 288.8  | 287.5  | 286.5  |
| G37.0 | 303.6  | 300.6  | 296.8  | 292.0  | 285.9  | 285.3  | 284.0  | 282.8  |
| G38.0 | 299.7  | 296.6  | 293.1  | 287.9  | 282.0  | 281.7  | 280.0  | 279.2  |
| G39.0 | 296.3  | 292.8  | 289.2  | 284.0  | 278.1  | 278.1  | 276.6  | 275.4  |

Test Type : Type C      Test Distance : 8.137 m      C Plane (°): 0.0-360.0:5.0 (°) : 0.0-90.0:1.0  
Test Device : Lisun LSG-1700B      Temperature : 21.5°C      Humidity : 42.0%  
Test Lab : Light Lab TU-Gabrovo  
Test By : Eng. Ivaylo Stoyanov      Review By :



**Light Distribution Data**

Unit: cd/klm

| G\C   | C280.0 | C285.0 | C290.0 | C295.0 | C300.0 | C305.0 | C310.0 | C315.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G40.0 | 292.2  | 288.5  | 285.0  | 279.7  | 273.6  | 273.5  | 272.9  | 271.2  |
| G41.0 | 288.0  | 285.0  | 280.6  | 275.7  | 269.6  | 269.2  | 268.4  | 267.1  |
| G42.0 | 284.3  | 280.8  | 276.5  | 271.2  | 265.6  | 265.0  | 263.9  | 262.5  |
| G43.0 | 279.8  | 276.3  | 272.2  | 267.2  | 260.7  | 260.3  | 258.9  | 257.4  |
| G44.0 | 275.3  | 271.9  | 268.3  | 262.8  | 256.3  | 256.0  | 254.0  | 252.7  |
| G45.0 | 270.5  | 267.7  | 263.2  | 258.8  | 251.8  | 251.0  | 248.2  | 247.4  |
| G46.0 | 266.0  | 262.6  | 258.5  | 253.9  | 247.2  | 245.8  | 243.0  | 241.4  |
| G47.0 | 261.1  | 257.8  | 253.9  | 249.1  | 242.7  | 241.1  | 238.1  | 235.2  |
| G48.0 | 255.6  | 252.4  | 248.4  | 243.9  | 237.5  | 235.3  | 232.4  | 228.8  |
| G49.0 | 250.3  | 247.5  | 243.5  | 238.7  | 232.4  | 230.3  | 226.5  | 223.0  |
| G50.0 | 245.3  | 242.1  | 238.2  | 233.8  | 227.2  | 224.7  | 220.2  | 216.6  |
| G51.0 | 239.2  | 236.1  | 232.5  | 227.8  | 220.9  | 218.6  | 213.5  | 210.0  |
| G52.0 | 233.4  | 230.3  | 227.0  | 222.6  | 215.4  | 212.5  | 207.2  | 204.2  |
| G53.0 | 226.9  | 224.7  | 220.7  | 216.5  | 209.0  | 206.0  | 200.2  | 198.1  |
| G54.0 | 220.9  | 218.2  | 214.3  | 210.4  | 202.7  | 198.4  | 193.4  | 190.9  |
| G55.0 | 214.7  | 211.6  | 208.6  | 203.8  | 196.4  | 191.9  | 187.3  | 185.0  |
| G56.0 | 207.3  | 204.8  | 201.6  | 196.6  | 189.1  | 184.3  | 180.2  | 177.9  |
| G57.0 | 200.5  | 197.7  | 195.2  | 189.9  | 181.7  | 177.5  | 173.8  | 171.6  |
| G58.0 | 193.5  | 191.4  | 188.7  | 183.2  | 174.6  | 170.9  | 167.3  | 165.4  |
| G59.0 | 185.6  | 183.4  | 180.7  | 175.4  | 165.9  | 163.2  | 159.8  | 158.3  |
| G60.0 | 178.4  | 176.1  | 173.1  | 167.3  | 158.6  | 156.3  | 153.2  | 151.3  |
| G61.0 | 170.2  | 168.7  | 164.3  | 158.9  | 150.3  | 149.0  | 145.4  | 144.8  |
| G62.0 | 163.1  | 161.0  | 156.8  | 149.9  | 142.5  | 141.2  | 138.4  | 137.2  |
| G63.0 | 154.9  | 153.3  | 148.8  | 141.4  | 135.1  | 133.5  | 131.0  | 130.5  |
| G64.0 | 145.7  | 144.9  | 139.6  | 132.3  | 126.4  | 125.3  | 123.0  | 122.7  |
| G65.0 | 137.6  | 136.7  | 130.9  | 124.2  | 119.3  | 117.6  | 115.8  | 116.0  |
| G66.0 | 129.5  | 128.7  | 121.3  | 116.3  | 111.5  | 110.4  | 108.3  | 108.5  |
| G67.0 | 121.2  | 119.9  | 111.7  | 107.1  | 102.8  | 102.2  | 100.5  | 100.5  |
| G68.0 | 112.9  | 111.9  | 103.1  | 99.6   | 94.7   | 94.9   | 93.2   | 92.9   |
| G69.0 | 104.2  | 103.0  | 94.2   | 91.9   | 86.9   | 87.1   | 85.2   | 85.7   |
| G70.0 | 96.1   | 93.2   | 86.3   | 83.7   | 79.6   | 79.1   | 77.7   | 77.9   |
| G71.0 | 88.6   | 84.7   | 78.7   | 75.6   | 72.5   | 72.2   | 70.5   | 69.9   |
| G72.0 | 80.0   | 74.5   | 70.2   | 67.7   | 64.4   | 64.5   | 62.4   | 61.0   |
| G73.0 | 72.8   | 66.2   | 62.8   | 60.3   | 57.7   | 57.3   | 55.2   | 44.8   |
| G74.0 | 64.3   | 58.5   | 54.9   | 53.5   | 50.8   | 50.1   | 43.8   | 37.1   |
| G75.0 | 54.4   | 49.7   | 46.8   | 46.0   | 43.5   | 42.8   | 33.0   | 29.6   |
| G76.0 | 46.5   | 42.7   | 39.9   | 38.9   | 36.7   | 31.2   | 25.8   | 18.7   |
| G77.0 | 37.9   | 35.6   | 33.3   | 32.5   | 30.0   | 23.4   | 16.8   | 8.0    |
| G78.0 | 30.4   | 28.9   | 27.6   | 26.8   | 20.6   | 17.9   | 6.8    | 6.3    |
| G79.0 | 24.7   | 23.6   | 22.3   | 21.4   | 15.1   | 6.4    | 5.2    | 2.2    |



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### Light Distribution Data

Unit: cd/klm

| G\C   | C280.0 | C285.0 | C290.0 | C295.0 | C300.0 | C305.0 | C310.0 | C315.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G80.0 | 19.2   | 18.2   | 17.1   | 13.9   | 6.9    | 4.3    | 1.9    | 1.6    |
| G81.0 | 15.1   | 14.3   | 12.8   | 9.6    | 3.6    | 1.8    | 1.4    | 1.3    |
| G82.0 | 10.9   | 10.6   | 7.9    | 3.3    | 1.5    | 1.3    | 1.2    | 1.2    |
| G83.0 | 8.1    | 7.4    | 4.0    | 1.7    | 1.1    | 1.1    | 1.0    | 0.9    |
| G84.0 | 5.7    | 4.3    | 1.9    | 1.0    | 0.9    | 0.8    | 0.8    | 0.8    |
| G85.0 | 3.6    | 1.7    | 0.9    | 0.7    | 0.6    | 0.7    | 0.7    | 0.7    |
| G86.0 | 1.9    | 0.9    | 0.7    | 0.5    | 0.6    | 0.6    | 0.5    | 0.5    |
| G87.0 | 0.8    | 0.6    | 0.5    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| G88.0 | 0.5    | 0.4    | 0.4    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    |
| G89.0 | 0.3    | 0.3    | 0.3    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| G90.0 | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |



**Light Distribution Data**

Unit: cd/klm

| G\C   | C320.0 | C325.0 | C330.0 | C335.0 | C340.0 | C345.0 | C350.0 | C355.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G0.0  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  | 341.7  |
| G1.0  | 341.0  | 341.0  | 341.8  | 341.3  | 341.3  | 341.5  | 341.0  | 341.8  |
| G2.0  | 340.8  | 340.9  | 341.2  | 340.6  | 341.0  | 341.2  | 340.8  | 341.4  |
| G3.0  | 340.9  | 340.6  | 340.7  | 340.5  | 340.8  | 341.0  | 340.4  | 341.1  |
| G4.0  | 340.7  | 340.1  | 340.4  | 340.1  | 340.2  | 340.3  | 340.2  | 340.4  |
| G5.0  | 340.1  | 339.8  | 339.7  | 339.9  | 339.3  | 340.1  | 340.2  | 340.3  |
| G6.0  | 339.7  | 339.5  | 339.3  | 339.2  | 338.9  | 339.6  | 339.4  | 339.8  |
| G7.0  | 339.4  | 338.8  | 339.0  | 338.6  | 338.4  | 338.8  | 338.7  | 339.1  |
| G8.0  | 338.3  | 338.3  | 338.1  | 338.1  | 338.0  | 338.8  | 338.3  | 338.2  |
| G9.0  | 337.5  | 337.5  | 337.6  | 337.0  | 337.4  | 337.2  | 337.2  | 337.3  |
| G10.0 | 337.1  | 336.8  | 337.0  | 336.2  | 336.6  | 336.4  | 337.1  | 336.6  |
| G11.0 | 336.0  | 336.0  | 335.7  | 335.7  | 335.1  | 335.8  | 335.6  | 335.3  |
| G12.0 | 335.1  | 334.9  | 334.7  | 334.4  | 334.7  | 334.7  | 334.9  | 334.7  |
| G13.0 | 334.6  | 334.2  | 333.5  | 334.1  | 333.5  | 333.7  | 333.5  | 333.5  |
| G14.0 | 333.2  | 333.3  | 333.0  | 332.7  | 332.5  | 332.3  | 332.8  | 332.4  |
| G15.0 | 332.2  | 331.6  | 331.2  | 331.5  | 331.2  | 331.2  | 331.1  | 330.7  |
| G16.0 | 330.7  | 330.4  | 329.9  | 330.1  | 329.4  | 329.9  | 330.1  | 329.7  |
| G17.0 | 329.4  | 329.3  | 328.6  | 329.0  | 328.6  | 328.2  | 329.0  | 328.2  |
| G18.0 | 328.0  | 327.7  | 326.8  | 327.3  | 327.1  | 327.2  | 327.4  | 326.6  |
| G19.0 | 326.4  | 326.2  | 325.1  | 326.1  | 324.9  | 325.4  | 325.2  | 324.7  |
| G20.0 | 324.8  | 324.7  | 323.1  | 324.2  | 323.9  | 323.3  | 323.6  | 323.3  |
| G21.0 | 323.5  | 323.0  | 321.5  | 322.6  | 322.0  | 321.8  | 321.9  | 321.7  |
| G22.0 | 321.2  | 321.2  | 319.6  | 320.2  | 319.8  | 319.6  | 320.5  | 319.1  |
| G23.0 | 319.5  | 319.0  | 316.7  | 318.6  | 318.2  | 317.7  | 318.0  | 317.2  |
| G24.0 | 317.4  | 317.3  | 314.8  | 316.5  | 316.0  | 315.7  | 315.6  | 315.1  |
| G25.0 | 315.4  | 315.1  | 312.8  | 314.3  | 313.8  | 313.6  | 313.5  | 313.0  |
| G26.0 | 313.0  | 312.8  | 310.2  | 312.1  | 311.7  | 311.4  | 311.6  | 310.6  |
| G27.0 | 310.9  | 310.3  | 307.6  | 309.0  | 309.0  | 308.6  | 308.6  | 307.7  |
| G28.0 | 308.6  | 308.1  | 304.6  | 306.6  | 306.8  | 305.9  | 306.0  | 305.2  |
| G29.0 | 306.0  | 305.5  | 302.5  | 303.6  | 304.0  | 303.4  | 303.6  | 302.4  |
| G30.0 | 303.0  | 302.4  | 299.3  | 301.0  | 300.9  | 300.4  | 300.4  | 299.6  |
| G31.0 | 300.6  | 300.1  | 296.5  | 297.8  | 298.6  | 297.8  | 296.8  | 296.1  |
| G32.0 | 297.7  | 296.6  | 293.3  | 294.9  | 294.7  | 293.6  | 293.8  | 292.7  |
| G33.0 | 294.4  | 293.6  | 290.3  | 291.1  | 291.6  | 290.4  | 289.9  | 289.0  |
| G34.0 | 291.3  | 290.9  | 286.8  | 287.9  | 288.1  | 286.6  | 286.6  | 285.6  |
| G35.0 | 287.9  | 286.8  | 282.8  | 283.7  | 284.1  | 282.5  | 282.6  | 281.7  |
| G36.0 | 284.9  | 283.6  | 279.0  | 279.9  | 280.3  | 279.1  | 279.1  | 277.7  |
| G37.0 | 280.5  | 279.6  | 274.7  | 276.1  | 276.5  | 275.0  | 274.5  | 273.5  |
| G38.0 | 277.3  | 275.7  | 270.9  | 272.0  | 272.8  | 269.8  | 269.5  | 268.1  |
| G39.0 | 273.3  | 272.1  | 267.1  | 267.6  | 267.4  | 264.7  | 265.4  | 264.1  |



**Light Distribution Data**

Unit: cd/klm

| G\C   | C320.0 | C325.0 | C330.0 | C335.0 | C340.0 | C345.0 | C350.0 | C355.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G40.0 | 268.8  | 267.2  | 262.2  | 261.7  | 262.4  | 259.7  | 260.4  | 258.6  |
| G41.0 | 264.1  | 263.1  | 257.2  | 256.8  | 257.8  | 255.3  | 255.4  | 253.7  |
| G42.0 | 260.3  | 258.4  | 252.0  | 252.0  | 252.8  | 250.3  | 250.4  | 248.8  |
| G43.0 | 255.1  | 252.4  | 246.8  | 246.6  | 247.3  | 244.6  | 245.3  | 243.2  |
| G44.0 | 249.9  | 247.4  | 241.7  | 241.0  | 242.3  | 239.4  | 240.3  | 238.6  |
| G45.0 | 243.4  | 242.2  | 235.4  | 235.8  | 236.5  | 234.5  | 234.7  | 233.5  |
| G46.0 | 238.5  | 236.2  | 230.3  | 229.9  | 231.5  | 229.0  | 229.7  | 227.9  |
| G47.0 | 232.5  | 230.7  | 224.9  | 224.8  | 225.9  | 223.2  | 224.5  | 222.8  |
| G48.0 | 226.1  | 224.4  | 219.0  | 218.7  | 220.3  | 217.8  | 218.6  | 217.3  |
| G49.0 | 219.7  | 218.7  | 213.5  | 213.2  | 214.6  | 212.4  | 213.9  | 212.0  |
| G50.0 | 213.9  | 212.9  | 208.0  | 208.3  | 209.6  | 207.4  | 208.3  | 207.1  |
| G51.0 | 207.2  | 206.3  | 201.8  | 201.9  | 203.6  | 201.3  | 202.3  | 201.3  |
| G52.0 | 201.1  | 200.2  | 196.3  | 196.1  | 197.8  | 196.1  | 196.9  | 195.8  |
| G53.0 | 194.2  | 194.1  | 190.1  | 190.3  | 191.7  | 190.8  | 190.6  | 190.4  |
| G54.0 | 187.9  | 187.3  | 183.9  | 184.3  | 185.8  | 184.8  | 185.3  | 184.5  |
| G55.0 | 182.3  | 181.2  | 178.1  | 178.3  | 180.2  | 179.3  | 179.5  | 178.8  |
| G56.0 | 175.2  | 174.1  | 171.2  | 172.0  | 173.4  | 172.9  | 173.4  | 172.6  |
| G57.0 | 169.2  | 168.1  | 165.2  | 165.9  | 167.5  | 167.1  | 167.1  | 166.4  |
| G58.0 | 162.9  | 161.7  | 159.2  | 160.2  | 161.5  | 160.8  | 161.2  | 160.8  |
| G59.0 | 155.8  | 155.2  | 152.5  | 153.7  | 154.6  | 154.2  | 154.6  | 154.0  |
| G60.0 | 149.4  | 149.0  | 146.1  | 147.1  | 148.3  | 147.7  | 147.9  | 147.5  |
| G61.0 | 142.1  | 142.5  | 139.4  | 140.6  | 140.8  | 141.3  | 141.0  | 140.9  |
| G62.0 | 135.3  | 135.1  | 132.6  | 133.5  | 134.5  | 134.3  | 134.1  | 133.7  |
| G63.0 | 128.8  | 128.6  | 125.8  | 126.7  | 127.5  | 127.6  | 126.9  | 126.6  |
| G64.0 | 121.0  | 120.7  | 118.2  | 119.3  | 119.6  | 119.8  | 119.7  | 119.6  |
| G65.0 | 114.2  | 114.1  | 111.6  | 111.9  | 112.5  | 112.6  | 112.5  | 112.4  |
| G66.0 | 106.9  | 106.9  | 104.2  | 105.0  | 105.3  | 105.4  | 99.2   | 99.1   |
| G67.0 | 99.3   | 99.1   | 96.6   | 97.1   | 90.9   | 83.9   | 77.7   | 77.5   |
| G68.0 | 91.7   | 91.4   | 89.0   | 81.7   | 72.1   | 71.8   | 68.5   | 67.9   |
| G69.0 | 83.3   | 83.9   | 69.8   | 65.9   | 62.1   | 61.1   | 59.0   | 60.3   |
| G70.0 | 75.7   | 68.0   | 58.7   | 55.4   | 54.3   | 54.9   | 54.0   | 54.4   |
| G71.0 | 63.2   | 54.7   | 49.3   | 49.2   | 49.2   | 44.7   | 33.5   | 32.8   |
| G72.0 | 48.7   | 44.8   | 42.8   | 39.2   | 22.4   | 18.0   | 16.5   | 16.7   |
| G73.0 | 40.1   | 38.7   | 26.1   | 15.7   | 14.7   | 14.4   | 14.2   | 14.4   |
| G74.0 | 33.9   | 23.2   | 12.6   | 12.5   | 12.5   | 12.6   | 12.4   | 12.5   |
| G75.0 | 16.7   | 11.0   | 10.3   | 10.6   | 6.0    | 3.5    | 2.9    | 2.9    |
| G76.0 | 9.4    | 9.0    | 6.0    | 2.9    | 2.6    | 2.5    | 2.4    | 2.4    |
| G77.0 | 7.4    | 3.0    | 2.3    | 2.2    | 2.1    | 2.0    | 2.0    | 2.1    |
| G78.0 | 2.4    | 2.1    | 1.9    | 1.9    | 1.8    | 1.8    | 1.8    | 1.8    |
| G79.0 | 1.8    | 1.7    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |



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### Light Distribution Data

Unit: cd/klm

| G\C   | C320.0 | C325.0 | C330.0 | C335.0 | C340.0 | C345.0 | C350.0 | C355.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G80.0 | 1.5    | 1.5    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| G81.0 | 1.3    | 1.3    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.3    |
| G82.0 | 1.1    | 1.1    | 1.0    | 1.1    | 1.1    | 1.1    | 1.1    | 1.2    |
| G83.0 | 0.9    | 0.9    | 0.9    | 0.9    | 1.0    | 1.0    | 1.0    | 1.0    |
| G84.0 | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.9    | 0.9    |
| G85.0 | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.8    |
| G86.0 | 0.5    | 0.6    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.6    |
| G87.0 | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.5    | 0.5    |
| G88.0 | 0.3    | 0.3    | 0.3    | 0.3    | 0.2    | 0.2    | 0.2    | 0.2    |
| G89.0 | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.1    | 0.1    | 0.2    |
| G90.0 | 0.2    | 0.2    | 0.2    | 0.2    | 0.1    | 0.1    | 0.1    | 0.1    |

Test Type : Type C      Test Distance : 8.137 m      C Plane (°): 0.0-360.0:5.0 (°) : 0.0-90.0:1.0  
Test Device : Lisun LSG-1700B      Temperature : 21.5°C      Humidity : 42.0%  
Test Lab : Light Lab TU-Gabrovo  
Test By : Eng. Ivaylo Stoyanov      Review By :