

Report No.:

Test Time: 2023-08-23 09:35

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: ADLED12W115G-2T Lamp Catalog: 3000K

Luminous Length (mm): 115

Luminous Width (mm): 115

Voltage: 230.3 V

Current: 0.044 A

Power: 9.66 W

Power Factor: 0.953

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 851.8 lm

Measurement Flux: 851.8 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 141.7, 141.7, 141.7, 141.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 85.4, 85.3, 85.4, 85.4

Luminaire Efficacy Rating (LER): 88.23

Central Intensity: 431.9 cd

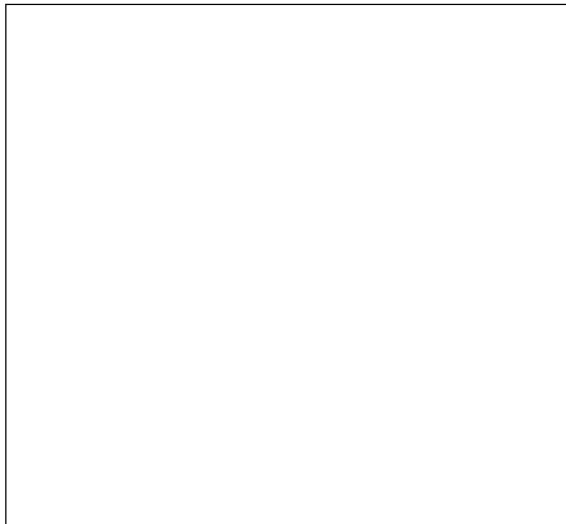
Max. Intensity: 432.33 cd

Pos of Max. Intensity: H0 V1

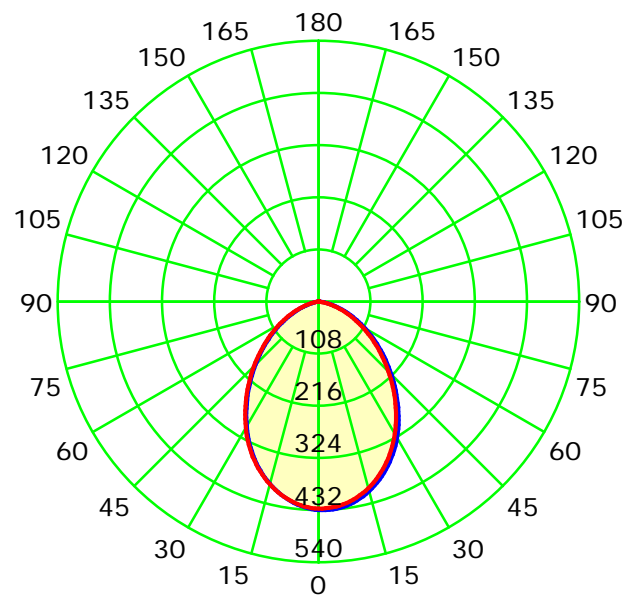
S/MH(C0/C180): 1.10

S/MH(C90/C270): 1.10

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 90.0

Gamma Plane (°):0.0-90.0: 1.0

Test Lab:

Test Device: GPM-1600

Test Type: TYPE C

Distance: 8.350 m

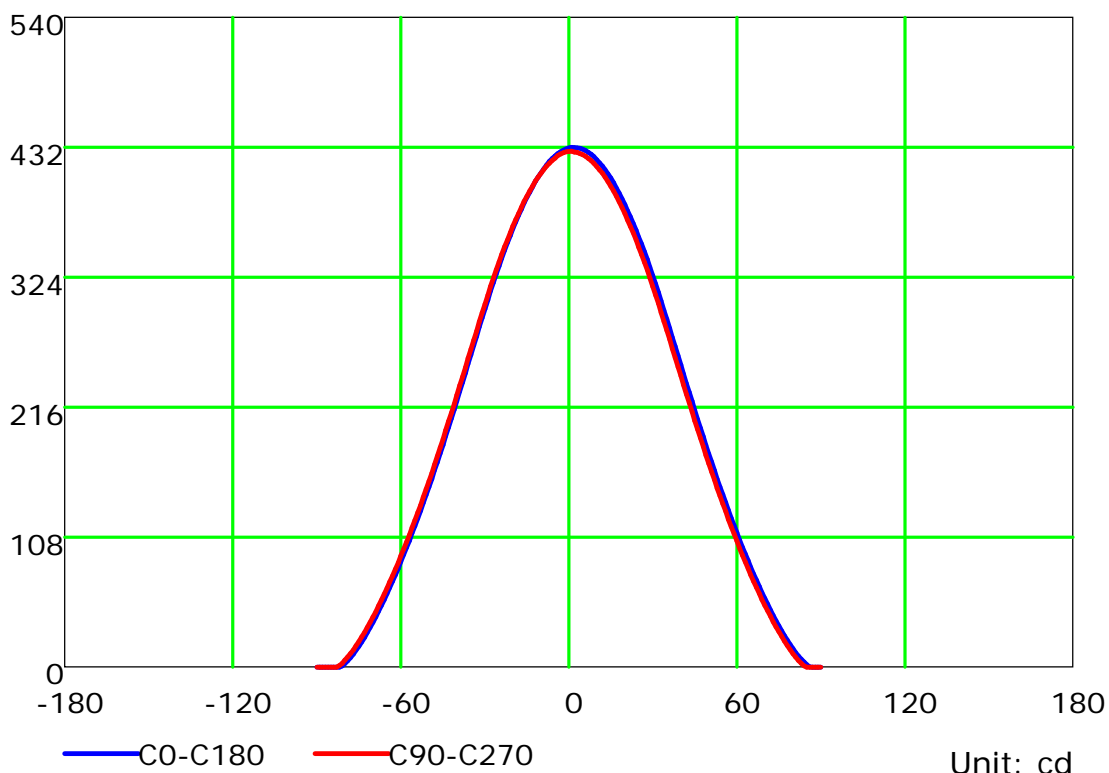
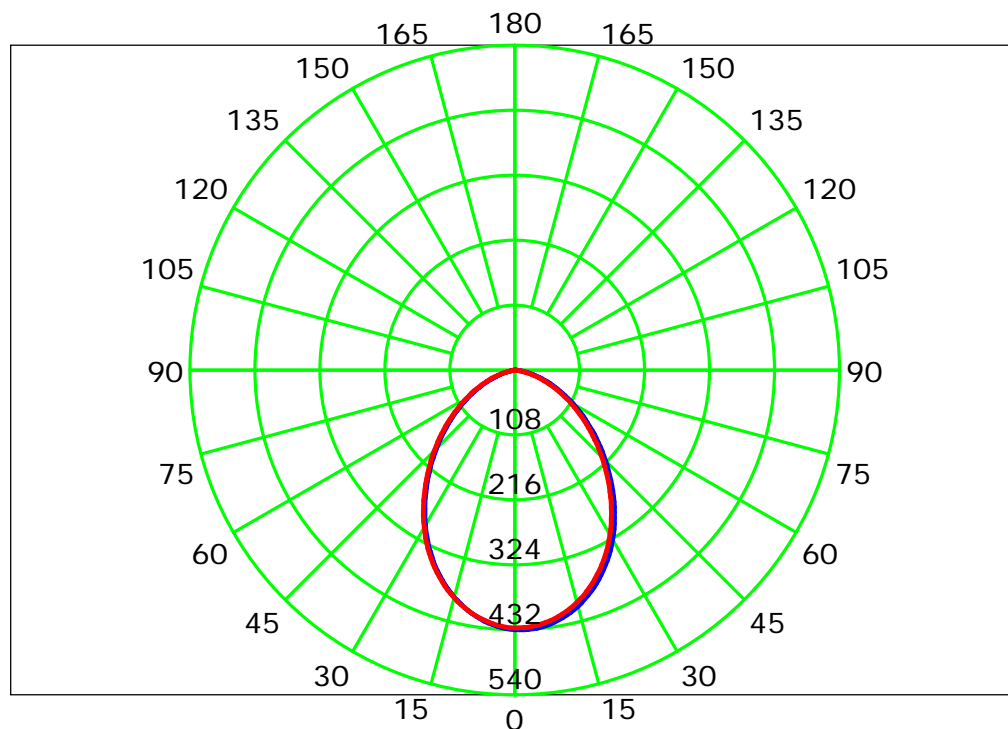
Temperature: 25°C

Humidity: 50%

Operator: XU

Inspector:

Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

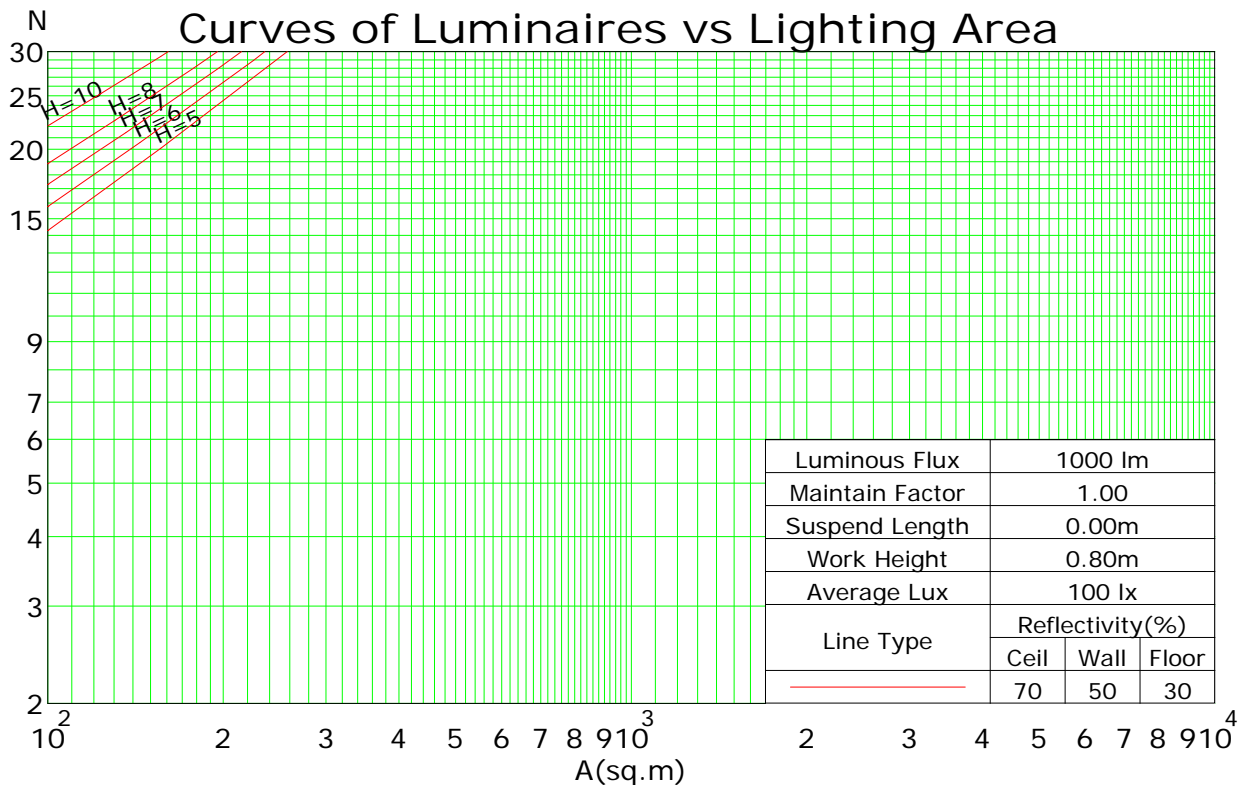
Coefficients Of Utilization - Zonal Cavity Method

| | | | | | | | | | | | | | | | | | | |
|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 98 | 95 | 96 | 94 | 92 | 93 | 91 | 90 | 88 |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 83 | 80 | 78 | 76 |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 80 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 |
| 4 | 87 | 76 | 68 | 62 | 85 | 75 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 60 | 68 | 63 | 59 | 57 |
| 5 | 80 | 69 | 61 | 55 | 78 | 68 | 60 | 54 | 66 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 53 | 51 |
| 6 | 75 | 62 | 54 | 48 | 73 | 62 | 54 | 48 | 60 | 53 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 45 |
| 7 | 70 | 57 | 49 | 43 | 68 | 56 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 42 | 40 |
| 8 | 65 | 52 | 45 | 39 | 64 | 52 | 44 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 38 | 37 |
| 9 | 61 | 48 | 41 | 36 | 60 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 |
| 10 | 57 | 45 | 38 | 33 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 |

Spacing Criteria (0-180): 1.10

Spacing Criteria (90-270): 1.10

Spacing Criteria (Diagonal): 1.18



C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature: 25°C

Operator: XU

Gamma Plane (°):0.0-90.0:1.0

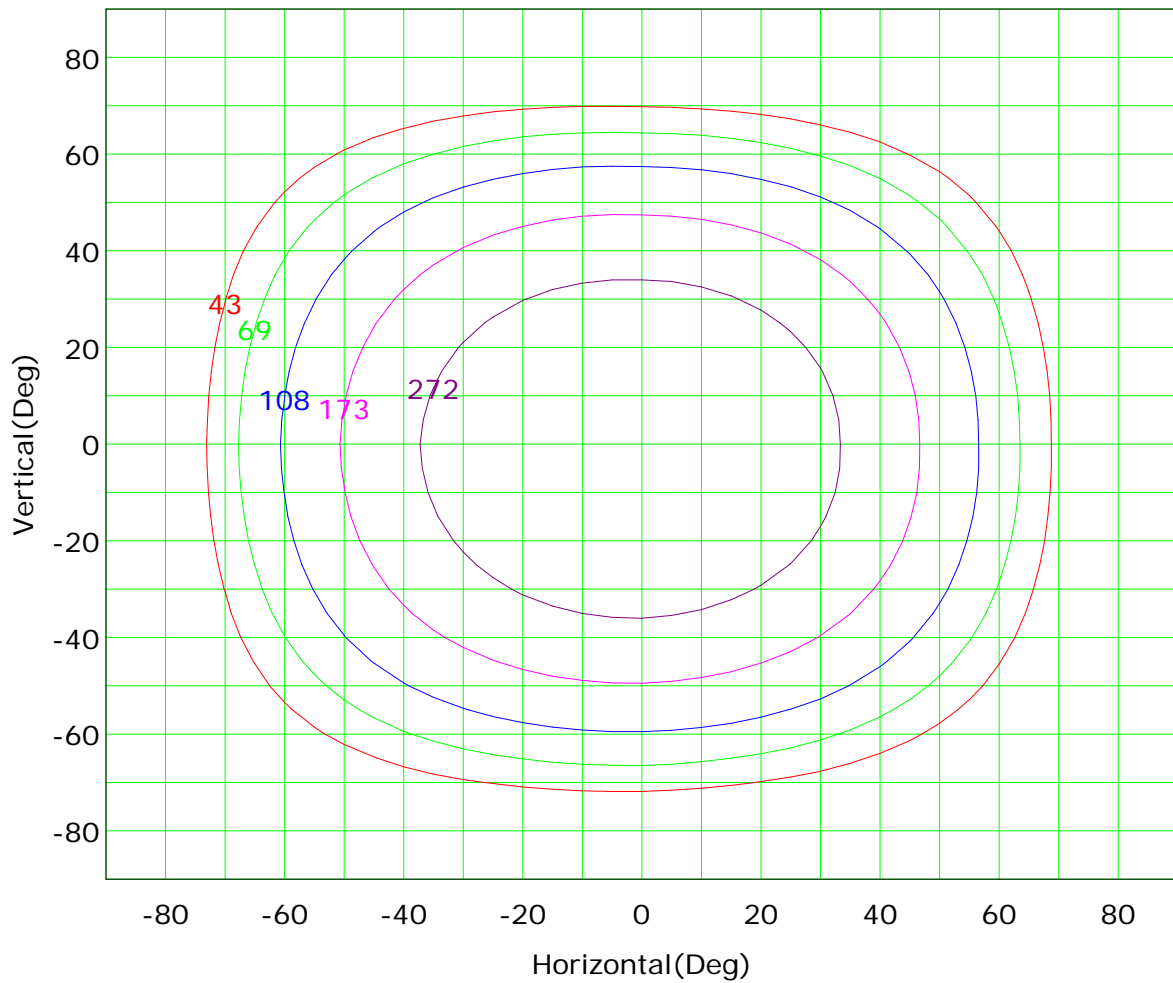
Test Device: GPM-1600

Distance: 8.350 m

Humidity: 50%

Inspector:

Isocandela (rectangle)



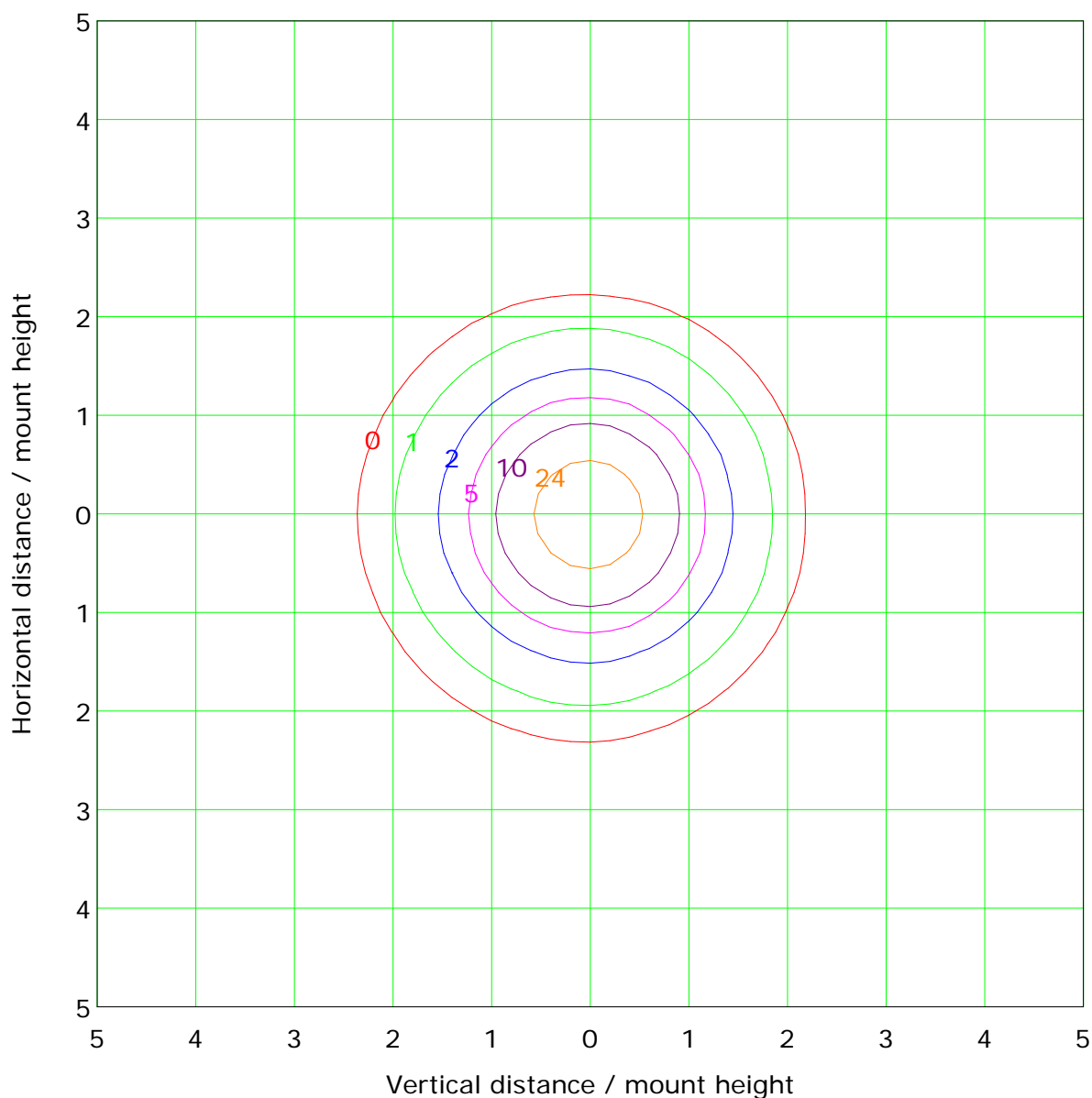
Imax (100%): 432 cd

| | | | |
|---------|--------|---------|--------|
| (10%): | 43 cd | (16%): | 69 cd |
| (25%): | 108 cd | (40%): | 173 cd |
| (63%): | 272 cd | (100%): | 432 cd |

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

IsoLux Plot



Mounting Height: 3.0m Max Lux(100%): 48.0 lx

| | |
|-----------------|----------------|
| (1%): 0.5 lx | (2%): 1.0 lx |
| (5%): 2.4 lx | (10%): 4.8 lx |
| (20%): 9.6 lx | (50%): 24.0 lx |
| (100%): 48.0 lx | |

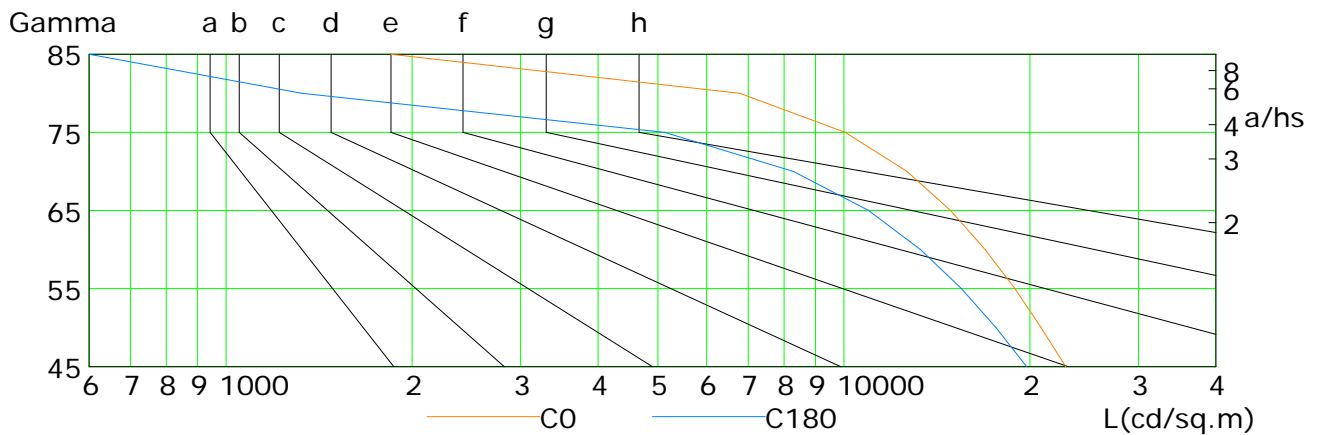
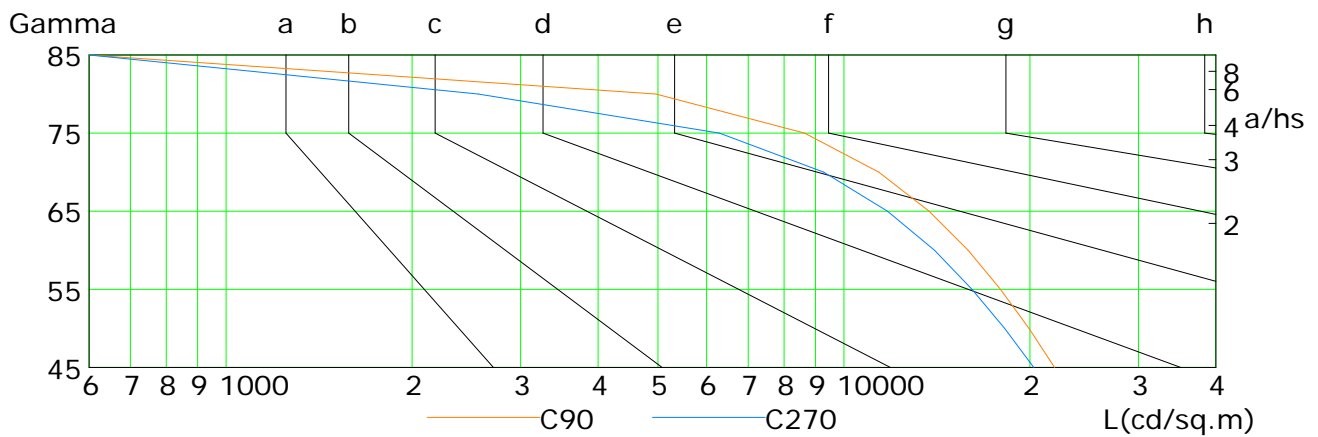
C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

Lum Limit Curve

| 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 |

a b c d e f g h

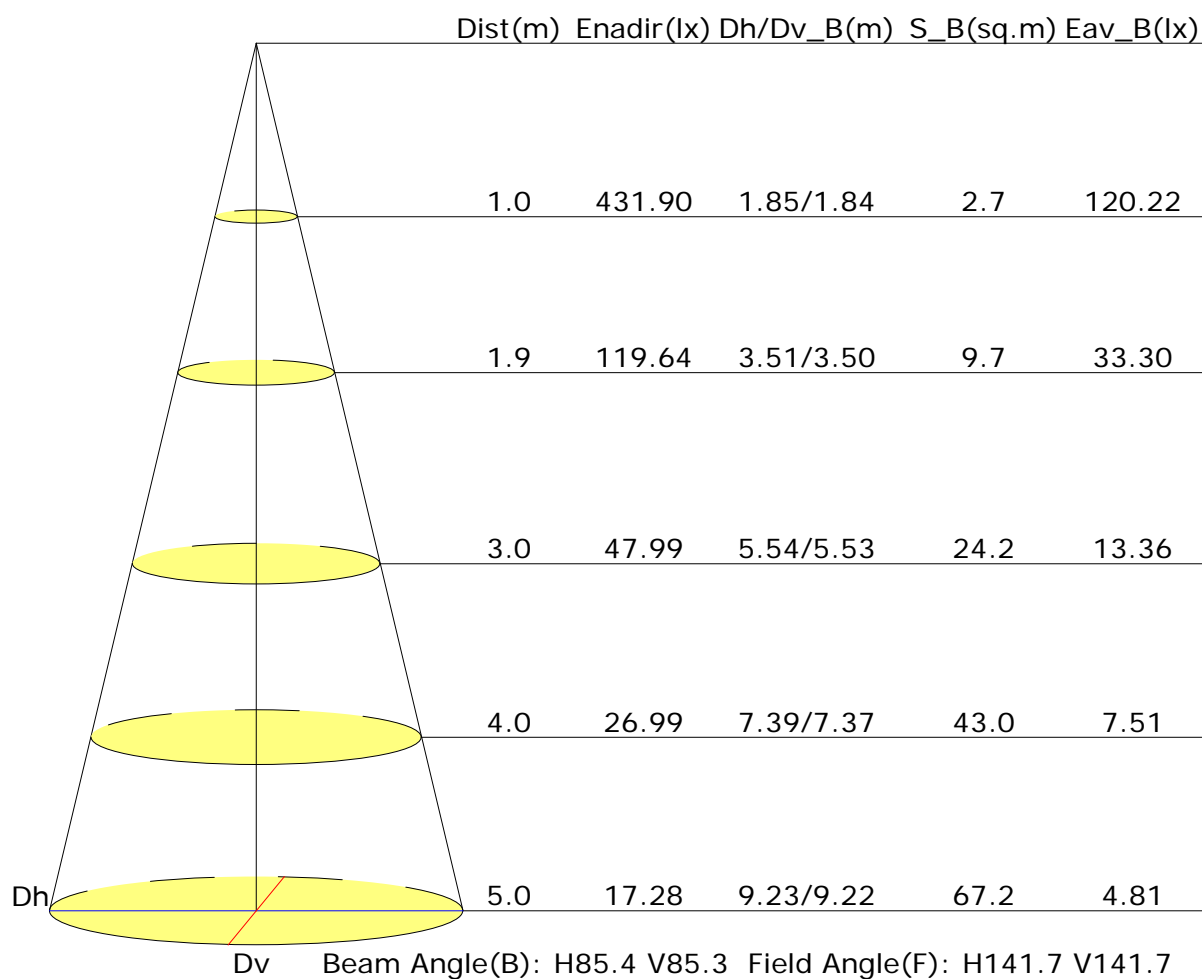


| L(cd/sq.m) | G45 | G50 | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|------------|-------|-------|-------|-------|-------|-------|-------|------|------|
| C0 | 22863 | 20874 | 18916 | 16929 | 14881 | 12657 | 10053 | 6793 | 1848 |
| C90 | 21930 | 19931 | 17929 | 15900 | 13739 | 11397 | 8636 | 4964 | 0 |
| C180 | 19769 | 17644 | 15495 | 13313 | 10966 | 8288 | 5130 | 1328 | 0 |
| C270 | 20291 | 18206 | 16115 | 14016 | 11766 | 9281 | 6287 | 2560 | 0 |

C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

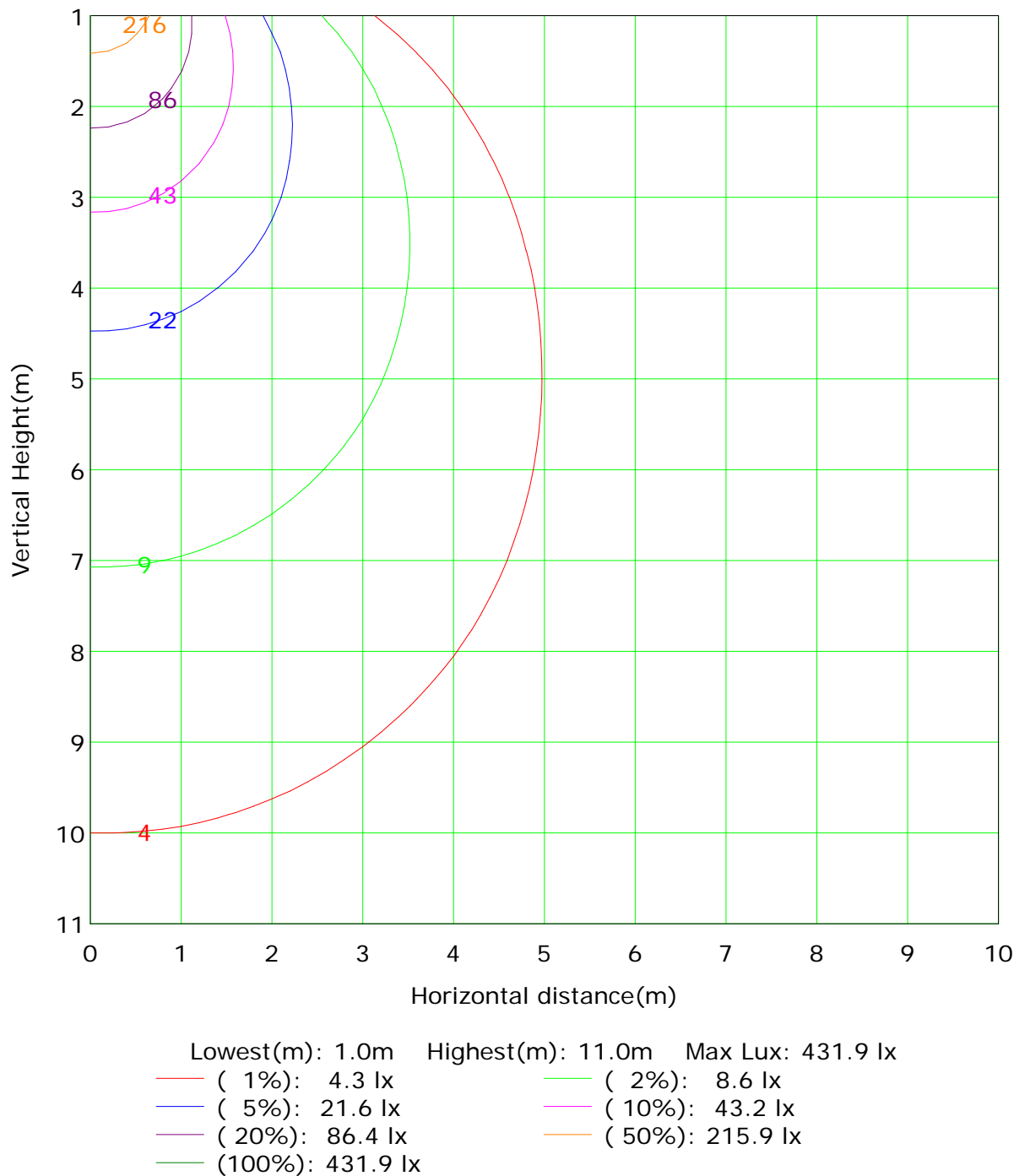
Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

Vertical IsoLux Plot



C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: XU

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 8.350 m
Humidity: 50%
Inspector:

Area Flux Table

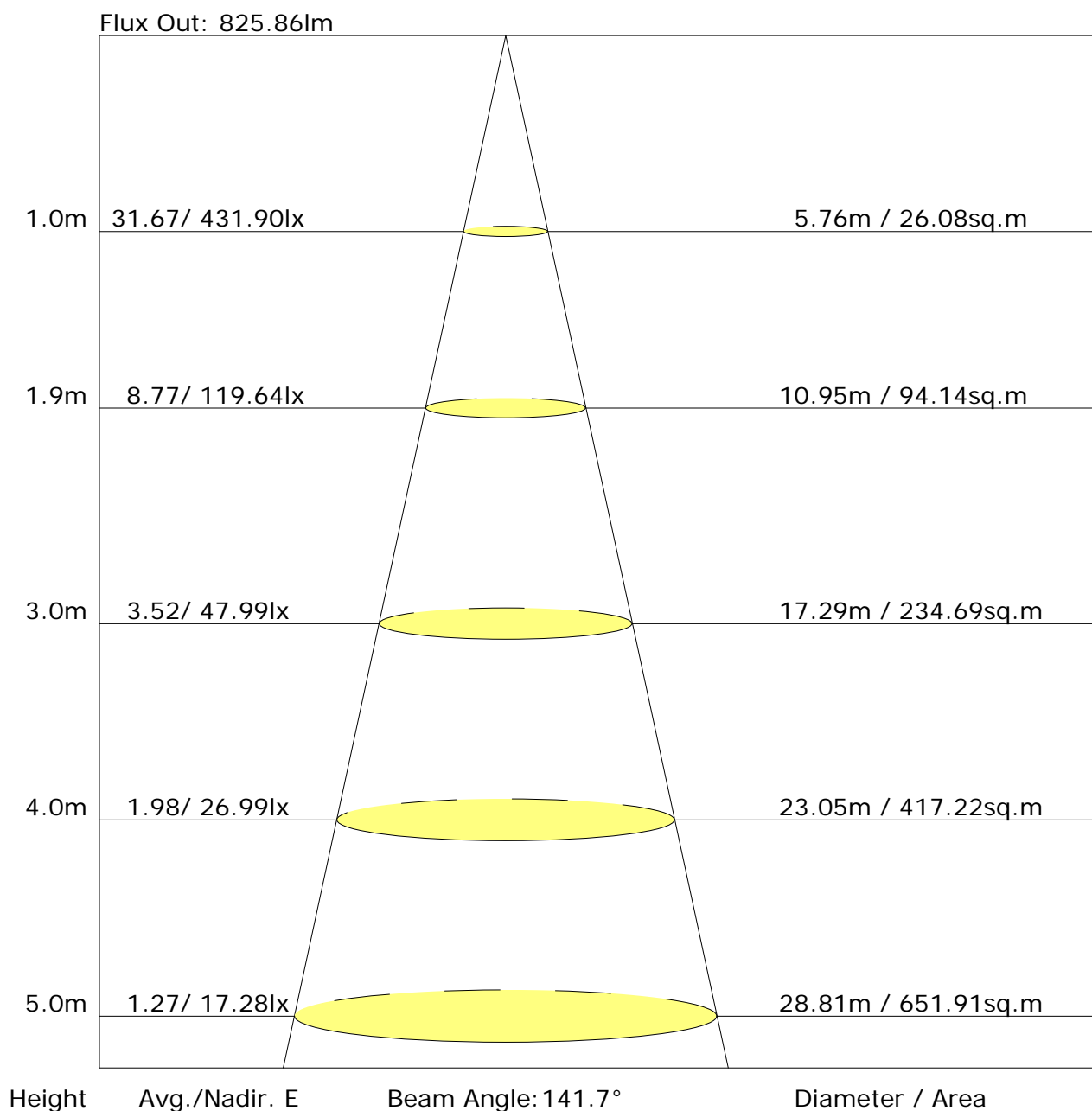
Unit: lm

| Vertical plane | Horizontal plane | | | | | | | | | | | | | | | | | | |
|----------------|------------------|-----|-----|------|------|------|------|------|-------|-------|-------|------|------|------|------|-----|-----|-----|-----|
| | -90 | -80 | -70 | -60 | -50 | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| Flux(E) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flux(T) | 0.0 | 1.2 | 6.9 | 18.4 | 35.7 | 57.3 | 80.2 | 99.6 | 111.1 | 112.3 | 103.2 | 85.6 | 63.4 | 41.3 | 22.9 | 9.9 | 2.6 | 0.1 | 852 |
| Flux(E) | 0.0 | 0.0 | 4.6 | 16.7 | 34.1 | 55.8 | 78.7 | 98.1 | 109.6 | 110.9 | 101.7 | 84.1 | 61.9 | 39.8 | 21.3 | 8.1 | 0.6 | 0.0 | 826 |

C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

The Average Illuminance Effective Figure



C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

UGR Table

| | | | | | | | | | | |
|--|------------------|------|------|------|------|----------------|------|------|------|------|
| 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 | 22.6 | 23.8 | 22.8 | 24.0 | 24.3 | 22.1 | 23.4 | 22.4 | 23.6 | 23.8 |
| 3H | 23.6 | 24.7 | 23.9 | 24.9 | 25.2 | 23.0 | 24.1 | 23.3 | 24.4 | 24.7 |
| 4H | 23.9 | 24.9 | 24.2 | 25.2 | 25.5 | 23.2 | 24.3 | 23.6 | 24.6 | 24.8 |
| 6H | 24.0 | 25.0 | 24.4 | 25.3 | 25.6 | 23.3 | 24.3 | 23.6 | 24.6 | 24.9 |
| 8H | 24.0 | 24.9 | 24.4 | 25.3 | 25.6 | 23.2 | 24.2 | 23.6 | 24.5 | 24.8 |
| 12H | 24.0 | 24.9 | 24.4 | 25.2 | 25.5 | 23.2 | 24.1 | 23.6 | 24.4 | 24.8 |
| X=4H Y=2H | 23.0 | 24.0 | 23.3 | 24.3 | 24.6 | 22.6 | 23.7 | 23.0 | 24.0 | 24.3 |
| 3H | 24.1 | 25.0 | 24.5 | 25.4 | 25.7 | 23.7 | 24.6 | 24.0 | 24.9 | 25.2 |
| 4H | 24.5 | 25.3 | 24.9 | 25.7 | 26.0 | 24.0 | 24.8 | 24.4 | 25.1 | 25.5 |
| 6H | 24.7 | 25.4 | 25.1 | 25.8 | 26.2 | 24.1 | 24.8 | 24.5 | 25.1 | 25.5 |
| 8H | 24.7 | 25.4 | 25.2 | 25.8 | 26.2 | 24.0 | 24.7 | 24.5 | 25.1 | 25.5 |
| 12H | 24.7 | 25.3 | 25.2 | 25.7 | 26.2 | 24.0 | 24.6 | 24.5 | 25.0 | 25.4 |
| X=8H Y=4H | 24.6 | 25.3 | 25.0 | 25.7 | 26.1 | 24.1 | 24.7 | 24.5 | 25.1 | 25.5 |
| 6H | 24.9 | 25.4 | 25.3 | 25.8 | 26.3 | 24.2 | 24.7 | 24.7 | 25.2 | 25.6 |
| 8H | 24.9 | 25.4 | 25.4 | 25.8 | 26.3 | 24.2 | 24.7 | 24.7 | 25.1 | 25.6 |
| 12H | 24.9 | 25.3 | 25.4 | 25.8 | 26.3 | 24.2 | 24.6 | 24.7 | 25.1 | 25.6 |
| X=12H Y=4H | 24.6 | 25.2 | 25.0 | 25.6 | 26.0 | 24.1 | 24.6 | 24.5 | 25.1 | 25.5 |
| 6H | 24.9 | 25.3 | 25.3 | 25.8 | 26.2 | 24.2 | 24.7 | 24.7 | 25.1 | 25.6 |
| 8H | 24.9 | 25.3 | 25.4 | 25.8 | 26.3 | 24.2 | 24.6 | 24.7 | 25.1 | 25.6 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S=1.0H | +0.2/-0.3 | | | | | +0.3/-0.4 | | | | |
| S=1.5H | +0.4/-0.8 | | | | | +0.6/-1.1 | | | | |
| S=2.0H | +1.0/-1.4 | | | | | +1.0/-2.0 | | | | |

Calculate in accordance with CIE Pub.117. The table is revised with 852Im ($8\log(F/F_0) = -0.6$).

C Plane (°): 0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
Test Device: GPM-1600
Distance: 8.350 m
Humidity: 50%
Inspector:

Utilisation Factor Table(Floor cavity)

| Utilisation Factors UF(F) | | | SHR NOM = 1.25 | | | | | | | | |
|---|------|-------|----------------|------|------|------|------|------|------|------|------|
| Room Reflectance | | | Room Index(RI) | | | | | | | | |
| Ceiling | Wall | Floor | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70 | 0.50 | 0.20 | 0.65 | 0.75 | 0.82 | 0.87 | 0.93 | 0.97 | 1.00 | 1.04 | 1.06 |
| | 0.30 | | 0.58 | 0.68 | 0.76 | 0.81 | 0.88 | 0.93 | 0.96 | 1.01 | 1.04 |
| | 0.20 | | 0.53 | 0.63 | 0.71 | 0.76 | 0.84 | 0.89 | 0.93 | 0.98 | 1.01 |
| 0.50 | 0.50 | 0.20 | 0.64 | 0.73 | 0.80 | 0.84 | 0.90 | 0.94 | 0.97 | 1.00 | 1.02 |
| | 0.30 | | 0.58 | 0.67 | 0.74 | 0.79 | 0.86 | 0.90 | 0.93 | 0.97 | 1.00 |
| | 0.20 | | 0.53 | 0.63 | 0.70 | 0.75 | 0.82 | 0.87 | 0.90 | 0.95 | 0.98 |
| 0.30 | 0.50 | 0.20 | 0.62 | 0.71 | 0.77 | 0.82 | 0.87 | 0.91 | 0.93 | 0.97 | 0.99 |
| | 0.30 | | 0.57 | 0.66 | 0.73 | 0.77 | 0.84 | 0.88 | 0.91 | 0.94 | 0.97 |
| | 0.20 | | 0.53 | 0.62 | 0.69 | 0.74 | 0.81 | 0.85 | 0.88 | 0.92 | 0.95 |
| 0.00 | 0.00 | 0.00 | 0.51 | 0.60 | 0.66 | 0.71 | 0.77 | 0.81 | 0.84 | 0.88 | 0.90 |
| <p>Rating: 10W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p> | | | | | | | | | | | |

Utilisation Factor Table(Wall)

| Utilisation Factors UF(W) | | | SHR NOM = 1.25 | | | | | | | | |
|---|------|-------|----------------|------|------|------|------|------|------|------|------|
| Room Reflectance | | | Room Index(RI) | | | | | | | | |
| Ceiling | Wall | Floor | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70 | 0.50 | 0.20 | 0.87 | 0.70 | 0.59 | 0.51 | 0.40 | 0.33 | 0.28 | 0.21 | 0.17 |
| | 0.30 | | 0.73 | 0.60 | 0.51 | 0.45 | 0.36 | 0.30 | 0.26 | 0.20 | 0.16 |
| | 0.20 | | 0.62 | 0.53 | 0.46 | 0.40 | 0.33 | 0.28 | 0.24 | 0.19 | 0.16 |
| 0.50 | 0.50 | 0.20 | 0.84 | 0.67 | 0.56 | 0.49 | 0.38 | 0.35 | 0.26 | 0.20 | 0.16 |
| | 0.30 | | 0.71 | 0.58 | 0.50 | 0.43 | 0.35 | 0.29 | 0.25 | 0.19 | 0.16 |
| | 0.20 | | 0.61 | 0.52 | 0.45 | 0.39 | 0.32 | 0.27 | 0.23 | 0.18 | 0.15 |
| 0.30 | 0.50 | 0.20 | 0.81 | 0.65 | 0.54 | 0.46 | 0.36 | 0.29 | 0.25 | 0.19 | 0.15 |
| | 0.30 | | 0.69 | 0.57 | 0.48 | 0.42 | 0.33 | 0.28 | 0.23 | 0.18 | 0.15 |
| | 0.20 | | 0.61 | 0.51 | 0.44 | 0.38 | 0.31 | 0.26 | 0.22 | 0.17 | 0.14 |
| 0.00 | 0.00 | 0.00 | 0.49 | 0.40 | 0.34 | 0.29 | 0.23 | 0.19 | 0.16 | 0.12 | 0.10 |
| <p>Rating: 10W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p> | | | | | | | | | | | |

Utilisation Factor Table(Ceiling cavity)

| Utilisation Factors UF(C) | | | SHR NOM = 1.25 | | | | | | | | | |
|---|------|-------|----------------|------|------|------|------|------|------|------|------|--|
| Room Reflectance | | | Room Index(RI) | | | | | | | | | |
| Ceiling | Wall | Floor | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 | |
| 0.70 | 0.50 | 0.20 | 0.15 | 0.17 | 0.17 | 0.18 | 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 | 0.07 | 0.08 | 0.10 | 0.12 | 0.13 | 0.15 | 0.16 | 0.17 | |
| 0.50 | 0.50 | 0.20 | 0.15 | 0.16 | 0.17 | 0.17 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | |
| | 0.30 | | 0.09 | 0.11 | 0.12 | 0.13 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | |
| | 0.20 | | 0.05 | 0.07 | 0.08 | 0.10 | 0.12 | 0.13 | 0.14 | 0.16 | 0.17 | |
| 0.30 | 0.50 | 0.20 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.18 | 0.19 | 0.19 | 0.20 | |
| | 0.30 | | 0.09 | 0.10 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | |
| | 0.20 | | 0.05 | 0.07 | 0.08 | 0.09 | 0.11 | 0.13 | 0.14 | 0.15 | 0.16 | |
| 0.00 | 0.00 | 0.00 | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| <p>Rating: 10W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p> | | | | | | | | | | | | |

Zonal Lumen

| Gamma [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 0.0-1.0 | 430.4 | 0.4 | 0.4 | 0.05 | 0.05 |
| 1.0-2.0 | 430.0 | 1.2 | 1.6 | 0.14 | 0.19 |
| 2.0-3.0 | 429.3 | 2.1 | 3.7 | 0.24 | 0.43 |
| 3.0-4.0 | 428.4 | 2.9 | 6.6 | 0.34 | 0.77 |
| 4.0-5.0 | 427.2 | 3.7 | 10.2 | 0.43 | 1.20 |
| 5.0-6.0 | 425.7 | 4.5 | 14.7 | 0.53 | 1.73 |
| 6.0-7.0 | 423.8 | 5.3 | 20.0 | 0.62 | 2.35 |
| 7.0-8.0 | 421.7 | 6.0 | 26.0 | 0.71 | 3.05 |
| 8.0-9.0 | 419.4 | 6.8 | 32.8 | 0.80 | 3.85 |
| 9.0-10.0 | 416.7 | 7.5 | 40.4 | 0.89 | 4.74 |
| 10.0-11.0 | 413.7 | 8.3 | 48.6 | 0.97 | 5.71 |
| 11.0-12.0 | 410.5 | 9.0 | 57.6 | 1.05 | 6.76 |
| 12.0-13.0 | 407.1 | 9.7 | 67.3 | 1.13 | 7.90 |
| 13.0-14.0 | 403.4 | 10.3 | 77.6 | 1.21 | 9.11 |
| 14.0-15.0 | 399.4 | 11.0 | 88.6 | 1.29 | 10.40 |
| 15.0-16.0 | 395.2 | 11.6 | 100.1 | 1.36 | 11.76 |
| 16.0-17.0 | 390.8 | 12.2 | 112.3 | 1.43 | 13.18 |
| 17.0-18.0 | 386.1 | 12.7 | 125.0 | 1.49 | 14.68 |
| 18.0-19.0 | 381.2 | 13.3 | 138.3 | 1.56 | 16.24 |
| 19.0-20.0 | 376.1 | 13.8 | 152.1 | 1.62 | 17.85 |
| 20.0-21.0 | 370.8 | 14.2 | 166.3 | 1.67 | 19.52 |
| 21.0-22.0 | 365.3 | 14.7 | 181.0 | 1.72 | 21.25 |
| 22.0-23.0 | 359.6 | 15.1 | 196.1 | 1.77 | 23.02 |
| 23.0-24.0 | 353.6 | 15.5 | 211.5 | 1.82 | 24.83 |
| 24.0-25.0 | 347.5 | 15.8 | 227.3 | 1.86 | 26.69 |
| 25.0-26.0 | 341.3 | 16.1 | 243.5 | 1.89 | 28.58 |
| 26.0-27.0 | 334.8 | 16.4 | 259.8 | 1.92 | 30.50 |
| 27.0-28.0 | 328.2 | 16.6 | 276.5 | 1.95 | 32.46 |
| 28.0-29.0 | 321.3 | 16.8 | 293.3 | 1.97 | 34.43 |
| 29.0-30.0 | 314.2 | 17.0 | 310.2 | 1.99 | 36.42 |
| 30.0-31.0 | 307.0 | 17.1 | 327.3 | 2.01 | 38.43 |
| 31.0-32.0 | 299.7 | 17.2 | 344.5 | 2.02 | 40.44 |
| 32.0-33.0 | 292.4 | 17.2 | 361.7 | 2.02 | 42.47 |
| 33.0-34.0 | 284.9 | 17.2 | 379.0 | 2.02 | 44.49 |
| 34.0-35.0 | 277.3 | 17.2 | 396.2 | 2.02 | 46.51 |
| 35.0-36.0 | 269.8 | 17.2 | 413.4 | 2.02 | 48.53 |

C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

Zonal Lumen (Continue 1)

| Gamma [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 36.0-37.0 | 262.2 | 17.1 | 430.5 | 2.01 | 50.54 |
| 37.0-38.0 | 254.6 | 17.0 | 447.5 | 2.00 | 52.53 |
| 38.0-39.0 | 247.0 | 16.9 | 464.3 | 1.98 | 54.51 |
| 39.0-40.0 | 239.4 | 16.7 | 481.0 | 1.96 | 56.47 |
| 40.0-41.0 | 231.8 | 16.5 | 497.5 | 1.94 | 58.41 |
| 41.0-42.0 | 224.3 | 16.3 | 513.8 | 1.91 | 60.32 |
| 42.0-43.0 | 216.8 | 16.1 | 529.9 | 1.89 | 62.21 |
| 43.0-44.0 | 209.5 | 15.8 | 545.7 | 1.86 | 64.07 |
| 44.0-45.0 | 202.1 | 15.5 | 561.3 | 1.82 | 65.89 |
| 45.0-46.0 | 194.8 | 15.2 | 576.5 | 1.79 | 67.68 |
| 46.0-47.0 | 187.6 | 14.9 | 591.4 | 1.75 | 69.43 |
| 47.0-48.0 | 180.4 | 14.6 | 606.0 | 1.71 | 71.14 |
| 48.0-49.0 | 173.3 | 14.2 | 620.2 | 1.67 | 72.81 |
| 49.0-50.0 | 166.3 | 13.9 | 634.1 | 1.63 | 74.44 |
| 50.0-51.0 | 159.5 | 13.5 | 647.6 | 1.58 | 76.03 |
| 51.0-52.0 | 152.8 | 13.1 | 660.7 | 1.54 | 77.57 |
| 52.0-53.0 | 146.0 | 12.7 | 673.4 | 1.49 | 79.06 |
| 53.0-54.0 | 139.5 | 12.3 | 685.7 | 1.44 | 80.50 |
| 54.0-55.0 | 133.1 | 11.9 | 697.6 | 1.39 | 81.90 |
| 55.0-56.0 | 126.7 | 11.5 | 709.1 | 1.34 | 83.24 |
| 56.0-57.0 | 120.5 | 11.0 | 720.1 | 1.29 | 84.53 |
| 57.0-58.0 | 114.3 | 10.6 | 730.6 | 1.24 | 85.77 |
| 58.0-59.0 | 108.3 | 10.1 | 740.8 | 1.19 | 86.96 |
| 59.0-60.0 | 102.4 | 9.7 | 750.4 | 1.14 | 88.10 |
| 60.0-61.0 | 96.5 | 9.2 | 759.6 | 1.08 | 89.18 |
| 61.0-62.0 | 90.8 | 8.7 | 768.4 | 1.03 | 90.21 |
| 62.0-63.0 | 85.2 | 8.3 | 776.7 | 0.97 | 91.18 |
| 63.0-64.0 | 79.7 | 7.8 | 784.5 | 0.92 | 92.10 |
| 64.0-65.0 | 74.4 | 7.4 | 791.9 | 0.86 | 92.96 |
| 65.0-66.0 | 69.1 | 6.9 | 798.8 | 0.81 | 93.77 |
| 66.0-67.0 | 64.0 | 6.4 | 805.2 | 0.76 | 94.53 |
| 67.0-68.0 | 59.0 | 6.0 | 811.2 | 0.70 | 95.23 |
| 68.0-69.0 | 54.1 | 5.5 | 816.7 | 0.65 | 95.88 |
| 69.0-70.0 | 49.4 | 5.1 | 821.8 | 0.60 | 96.47 |
| 70.0-71.0 | 44.8 | 4.6 | 826.4 | 0.54 | 97.02 |
| 71.0-72.0 | 40.3 | 4.2 | 830.6 | 0.49 | 97.51 |

C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

Zonal Lumen (Continue 2)

[illegible]

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: XU

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 8.350 m
Humidity: 50%
Inspector:

Candlepower Table

Unit: cd

| G\C | C0.0 | C90.0 | C180.0 | C270.0 | C360.0 | | | | | |
|-------|-------|-------|--------|--------|--------|--|--|--|--|--|
| G0.0 | 431.9 | 428.9 | 431.9 | 428.9 | 431.9 | | | | | |
| G1.0 | 432.3 | 429.1 | 431.1 | 428.8 | 432.3 | | | | | |
| G2.0 | 432.2 | 428.5 | 430.0 | 427.9 | 432.2 | | | | | |
| G3.0 | 432.0 | 428.2 | 428.8 | 426.8 | 432.0 | | | | | |
| G4.0 | 431.6 | 427.3 | 427.2 | 425.4 | 431.6 | | | | | |
| G5.0 | 430.9 | 426.4 | 425.3 | 423.5 | 430.9 | | | | | |
| G6.0 | 429.9 | 424.9 | 423.0 | 421.6 | 429.9 | | | | | |
| G7.0 | 428.3 | 423.2 | 420.6 | 419.2 | 428.3 | | | | | |
| G8.0 | 426.6 | 421.2 | 417.6 | 416.8 | 426.6 | | | | | |
| G9.0 | 424.6 | 419.3 | 414.6 | 414.1 | 424.6 | | | | | |
| G10.0 | 422.2 | 416.5 | 411.1 | 411.0 | 422.2 | | | | | |
| G11.0 | 419.5 | 413.6 | 407.6 | 407.7 | 419.5 | | | | | |
| G12.0 | 416.8 | 410.8 | 404.0 | 404.2 | 416.8 | | | | | |
| G13.0 | 413.8 | 407.6 | 399.8 | 400.2 | 413.8 | | | | | |
| G14.0 | 410.3 | 404.0 | 395.2 | 396.3 | 410.3 | | | | | |
| G15.0 | 406.8 | 400.0 | 390.9 | 391.7 | 406.8 | | | | | |
| G16.0 | 402.8 | 396.0 | 386.2 | 387.4 | 402.8 | | | | | |
| G17.0 | 398.5 | 392.0 | 381.0 | 382.5 | 398.5 | | | | | |
| G18.0 | 394.4 | 387.1 | 375.9 | 377.4 | 394.4 | | | | | |
| G19.0 | 389.6 | 382.4 | 370.5 | 372.3 | 389.6 | | | | | |
| G20.0 | 384.8 | 377.4 | 364.8 | 367.0 | 384.8 | | | | | |
| G21.0 | 379.8 | 372.1 | 359.1 | 361.5 | 379.8 | | | | | |
| G22.0 | 374.7 | 366.7 | 353.2 | 355.3 | 374.7 | | | | | |
| G23.0 | 369.1 | 361.3 | 346.7 | 349.6 | 369.1 | | | | | |
| G24.0 | 363.6 | 355.4 | 340.1 | 343.2 | 363.6 | | | | | |
| G25.0 | 357.5 | 349.5 | 333.6 | 337.2 | 357.5 | | | | | |
| G26.0 | 352.0 | 343.2 | 327.0 | 330.4 | 352.0 | | | | | |
| G27.0 | 345.5 | 337.0 | 320.0 | 323.6 | 345.5 | | | | | |
| G28.0 | 339.4 | 330.4 | 312.8 | 316.6 | 339.4 | | | | | |
| G29.0 | 332.5 | 323.8 | 305.6 | 309.5 | 332.5 | | | | | |
| G30.0 | 325.7 | 316.6 | 298.0 | 302.1 | 325.7 | | | | | |
| G31.0 | 318.7 | 309.6 | 290.5 | 294.8 | 318.7 | | | | | |
| G32.0 | 311.6 | 302.4 | 283.0 | 287.4 | 311.6 | | | | | |
| G33.0 | 304.8 | 295.0 | 275.4 | 279.8 | 304.8 | | | | | |
| G34.0 | 296.7 | 287.6 | 267.8 | 272.3 | 296.7 | | | | | |
| G35.0 | 289.5 | 280.2 | 260.0 | 264.6 | 289.5 | | | | | |
| G36.0 | 281.9 | 272.8 | 252.4 | 257.0 | 281.9 | | | | | |

C Plane (°): 0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
Test Device: GPM-1600
Distance: 8.350 m
Humidity: 50%
Inspector:

Candlepower Table (Continue 1)

Unit: cd

| G\C | C0.0 | C90.0 | C180.0 | C270.0 | C360.0 | | | | | |
|-------|-------|-------|--------|--------|--------|--|--|--|--|--|
| G37.0 | 274.4 | 265.1 | 244.8 | 249.4 | 274.4 | | | | | |
| G38.0 | 266.8 | 257.4 | 237.1 | 241.7 | 266.8 | | | | | |
| G39.0 | 259.2 | 250.0 | 229.5 | 234.3 | 259.2 | | | | | |
| G40.0 | 251.3 | 242.5 | 221.7 | 226.5 | 251.3 | | | | | |
| G41.0 | 244.0 | 234.9 | 214.3 | 219.0 | 244.0 | | | | | |
| G42.0 | 236.1 | 227.3 | 206.9 | 211.6 | 236.1 | | | | | |
| G43.0 | 228.7 | 219.9 | 199.6 | 204.6 | 228.7 | | | | | |
| G44.0 | 221.2 | 212.6 | 192.4 | 197.1 | 221.2 | | | | | |
| G45.0 | 213.8 | 205.1 | 184.9 | 189.8 | 213.8 | | | | | |
| G46.0 | 206.3 | 197.9 | 177.9 | 182.6 | 206.3 | | | | | |
| G47.0 | 199.0 | 190.7 | 170.6 | 175.6 | 199.0 | | | | | |
| G48.0 | 191.7 | 183.6 | 163.9 | 168.4 | 191.7 | | | | | |
| G49.0 | 184.6 | 176.3 | 156.6 | 161.6 | 184.6 | | | | | |
| G50.0 | 177.4 | 169.4 | 150.0 | 154.8 | 177.4 | | | | | |
| G51.0 | 170.7 | 162.4 | 143.4 | 148.1 | 170.7 | | | | | |
| G52.0 | 163.6 | 155.8 | 136.7 | 141.4 | 163.6 | | | | | |
| G53.0 | 156.6 | 149.1 | 130.3 | 134.7 | 156.6 | | | | | |
| G54.0 | 150.0 | 142.5 | 124.0 | 128.8 | 150.0 | | | | | |
| G55.0 | 143.5 | 136.0 | 117.5 | 122.2 | 143.5 | | | | | |
| G56.0 | 137.0 | 129.7 | 111.7 | 116.2 | 137.0 | | | | | |
| G57.0 | 130.7 | 123.2 | 105.4 | 109.9 | 130.7 | | | | | |
| G58.0 | 124.2 | 117.1 | 99.6 | 104.2 | 124.2 | | | | | |
| G59.0 | 117.9 | 111.0 | 93.8 | 98.3 | 117.9 | | | | | |
| G60.0 | 111.9 | 105.1 | 88.0 | 92.7 | 111.9 | | | | | |
| G61.0 | 106.0 | 99.3 | 82.1 | 87.0 | 106.0 | | | | | |
| G62.0 | 100.1 | 93.4 | 76.8 | 81.6 | 100.1 | | | | | |
| G63.0 | 94.4 | 87.6 | 71.3 | 76.1 | 94.4 | | | | | |
| G64.0 | 88.7 | 82.2 | 66.1 | 70.9 | 88.7 | | | | | |
| G65.0 | 83.2 | 76.8 | 61.3 | 65.8 | 83.2 | | | | | |
| G66.0 | 77.7 | 71.5 | 56.2 | 60.7 | 77.7 | | | | | |
| G67.0 | 72.6 | 66.3 | 51.3 | 55.9 | 72.6 | | | | | |
| G68.0 | 67.2 | 61.4 | 46.6 | 51.1 | 67.2 | | | | | |
| G69.0 | 62.3 | 56.3 | 41.9 | 46.3 | 62.3 | | | | | |
| G70.0 | 57.3 | 51.5 | 37.5 | 42.0 | 57.3 | | | | | |
| G71.0 | 52.5 | 47.0 | 33.0 | 37.5 | 52.5 | | | | | |
| G72.0 | 47.7 | 42.3 | 29.0 | 33.2 | 47.7 | | | | | |
| G73.0 | 43.2 | 38.0 | 25.0 | 29.1 | 43.2 | | | | | |

C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

Unit: cd

C Plane (°): 0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: XU

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 8.350 m
Humidity: 50%
Inspector: