

Report No.:

Test Time: 2023-05-09 09:24

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: ACL12-25W2TEM

Luminous Length (mm): 300

Voltage: 230.7 V

Power: 27.81 W

Lamp Description: 4000K

Luminous Width (mm): 300

Current: 0.128 A

Power Factor: 0.942

Photometric Results

CIE Class: Direct

Measurement Flux: 2614.5 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 168.3, 165.1, 166.7, 166.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.5, 111.1, 111.8, 111.8

Luminaire Efficacy Rating (LER): 94.06

Max. Intensity: 903.79 cd

S/MH(C0/C180): 1.24

Total Rated Lamp Lumens: 2614.5 lm

Efficiency: 100%

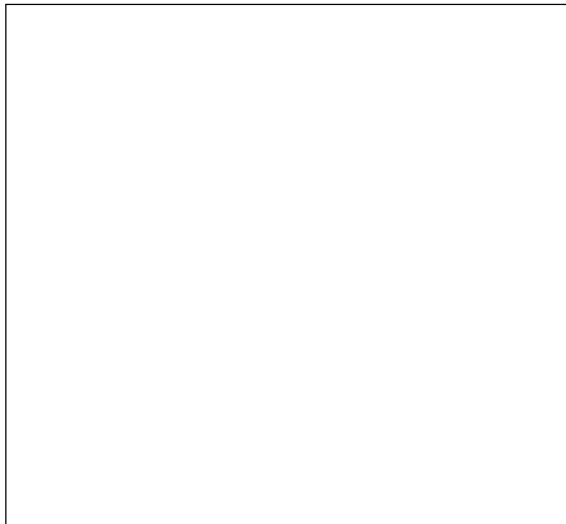
Upward Ratio: 0%

Central Intensity: 902.52 cd

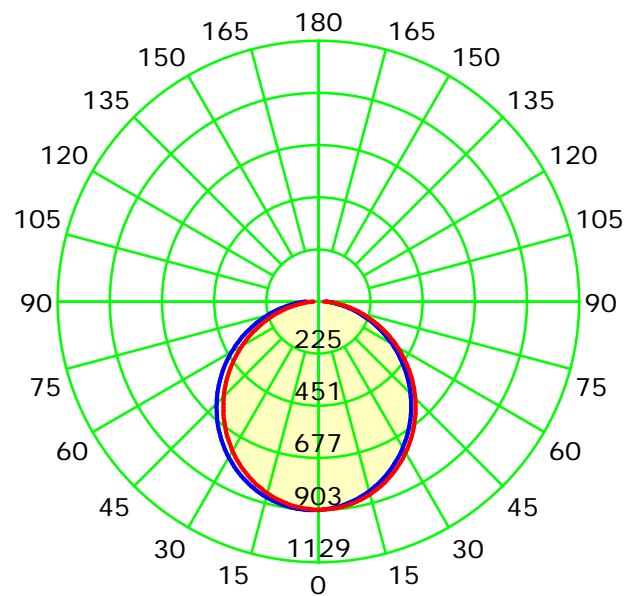
Pos of Max. Intensity: H180 V3

S/MH(C90/C270): 1.24

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

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

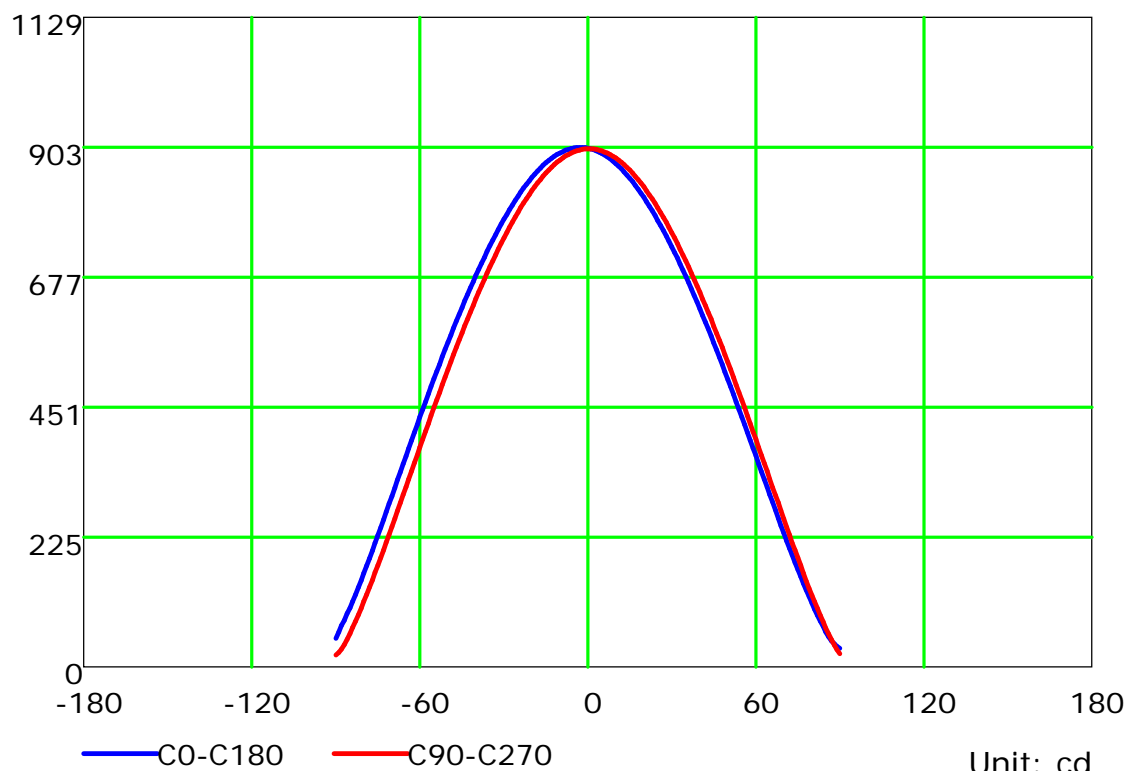
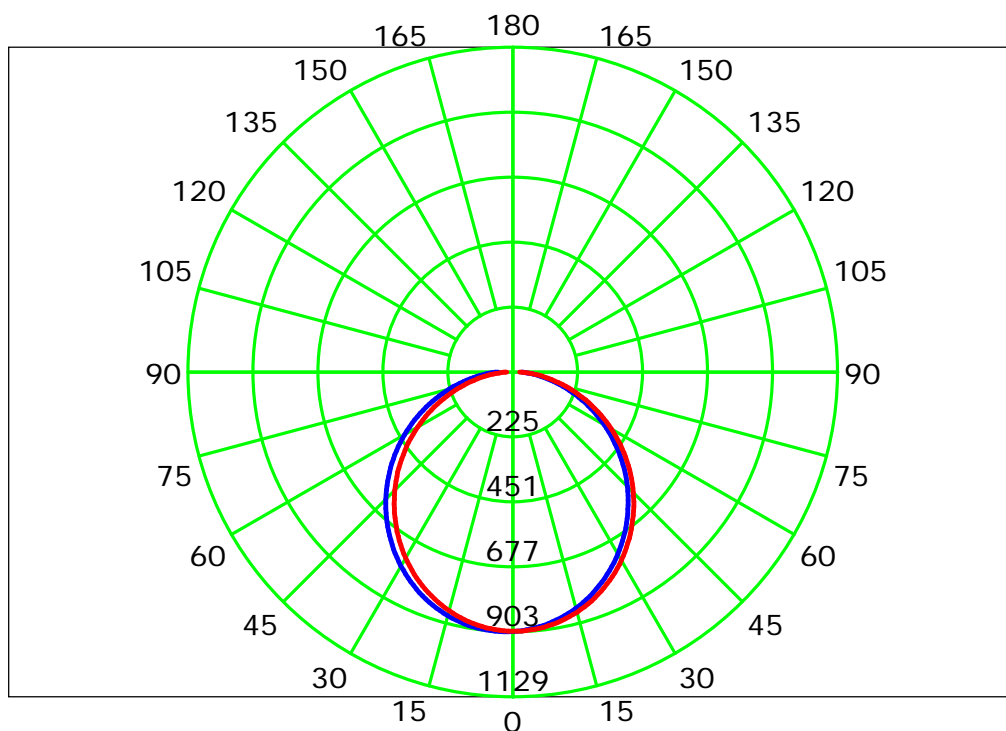
Test Device: GPM-1600

Distance: 8.350 m

Humidity: 50%

Inspector:

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:

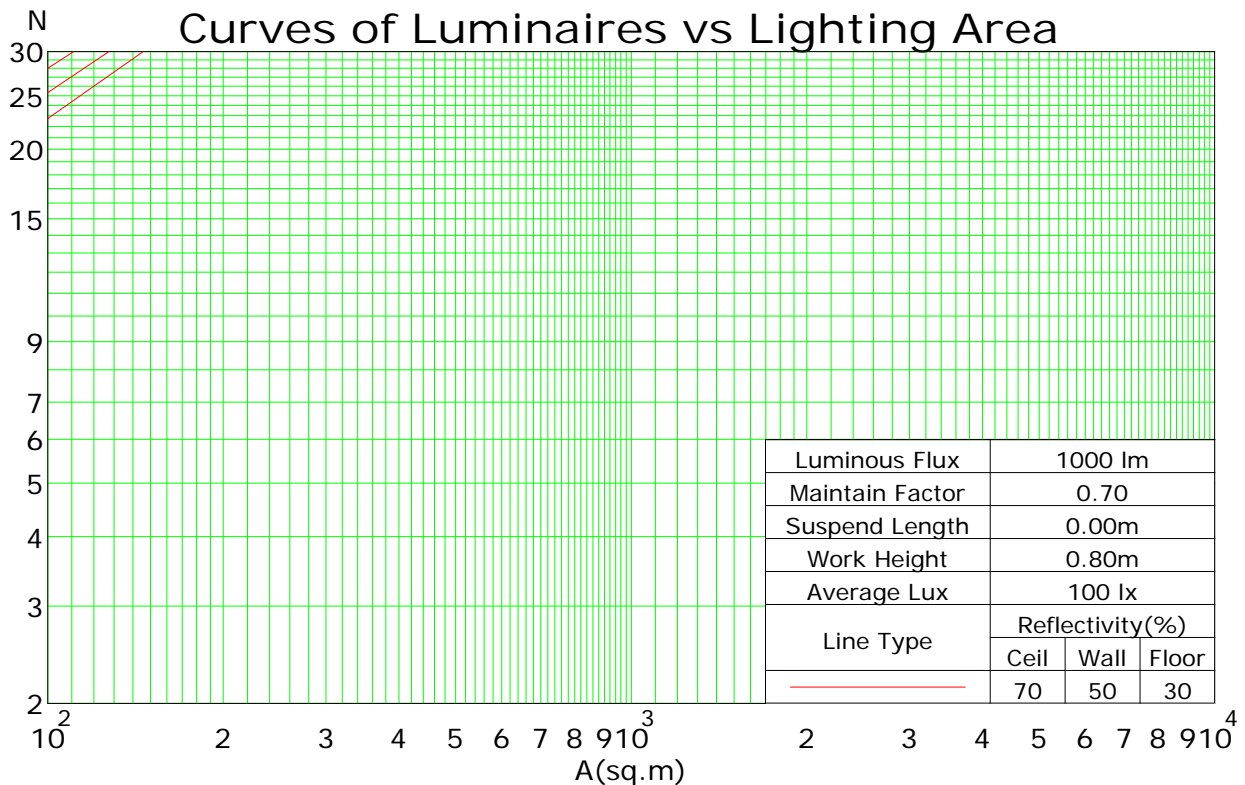
Coefficients Of Utilization - Zonal Cavity Method

| | | | | | | | | | | | | | | | | | | |
|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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 | 108 | 103 | 98 | 94 | 105 | 101 | 97 | 93 | 96 | 93 | 90 | 92 | 90 | 87 | 89 | 87 | 84 | 82 |
| 2 | 98 | 89 | 82 | 76 | 95 | 88 | 81 | 75 | 84 | 78 | 74 | 81 | 76 | 72 | 78 | 74 | 70 | 68 |
| 3 | 89 | 78 | 70 | 63 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 65 | 60 | 68 | 63 | 59 | 57 |
| 4 | 82 | 69 | 60 | 53 | 79 | 68 | 60 | 53 | 65 | 58 | 52 | 63 | 57 | 52 | 61 | 55 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 39 | 51 | 44 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 50 | 42 | 35 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 23 |

Spacing Criteria (0-180): 1.24

Spacing Criteria (90-270): 1.24

Spacing Criteria (Diagonal): 1.36



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

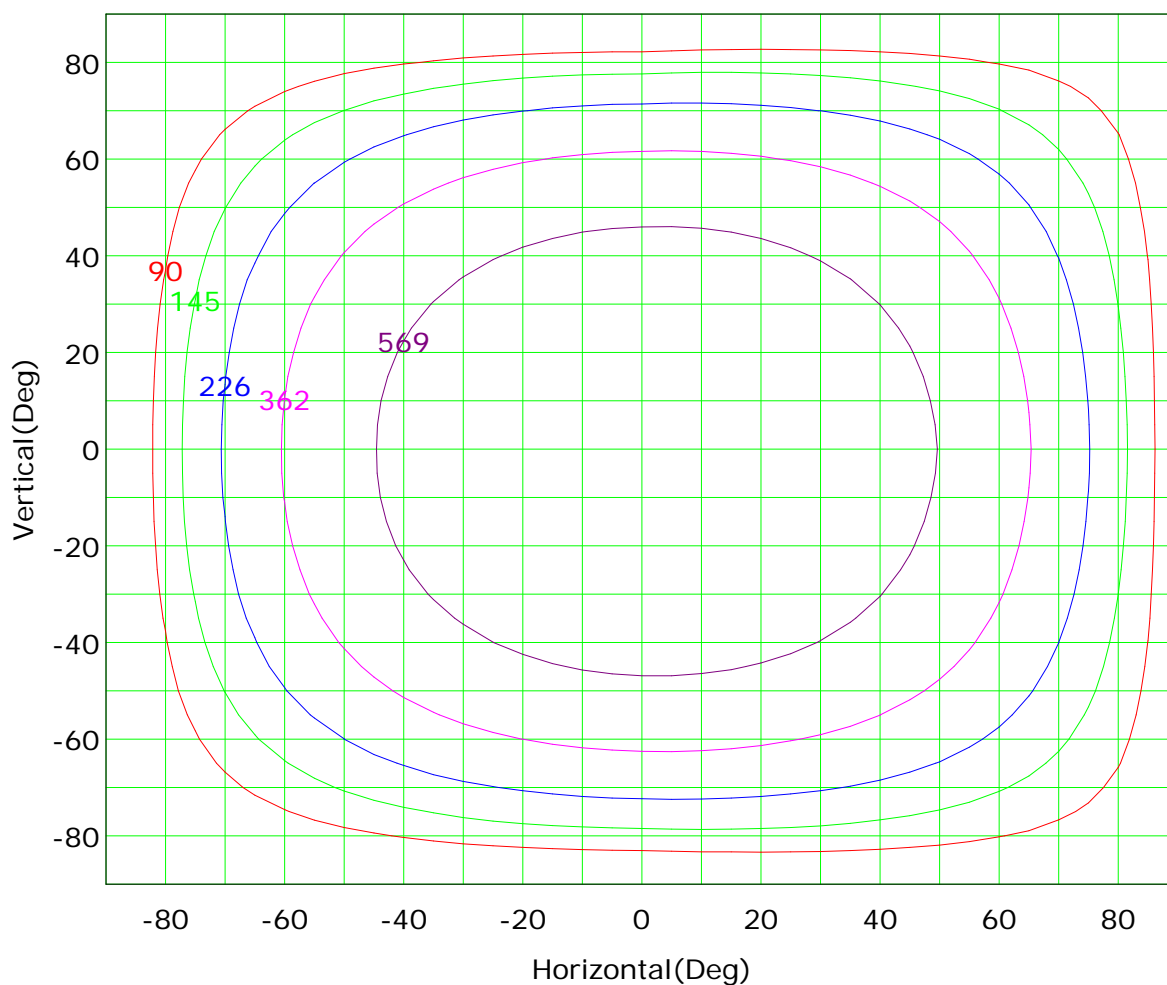
Test Device: GPM-1600

Distance: 8.350 m

Humidity: 50%

Inspector:

Isocandela (rectangle)



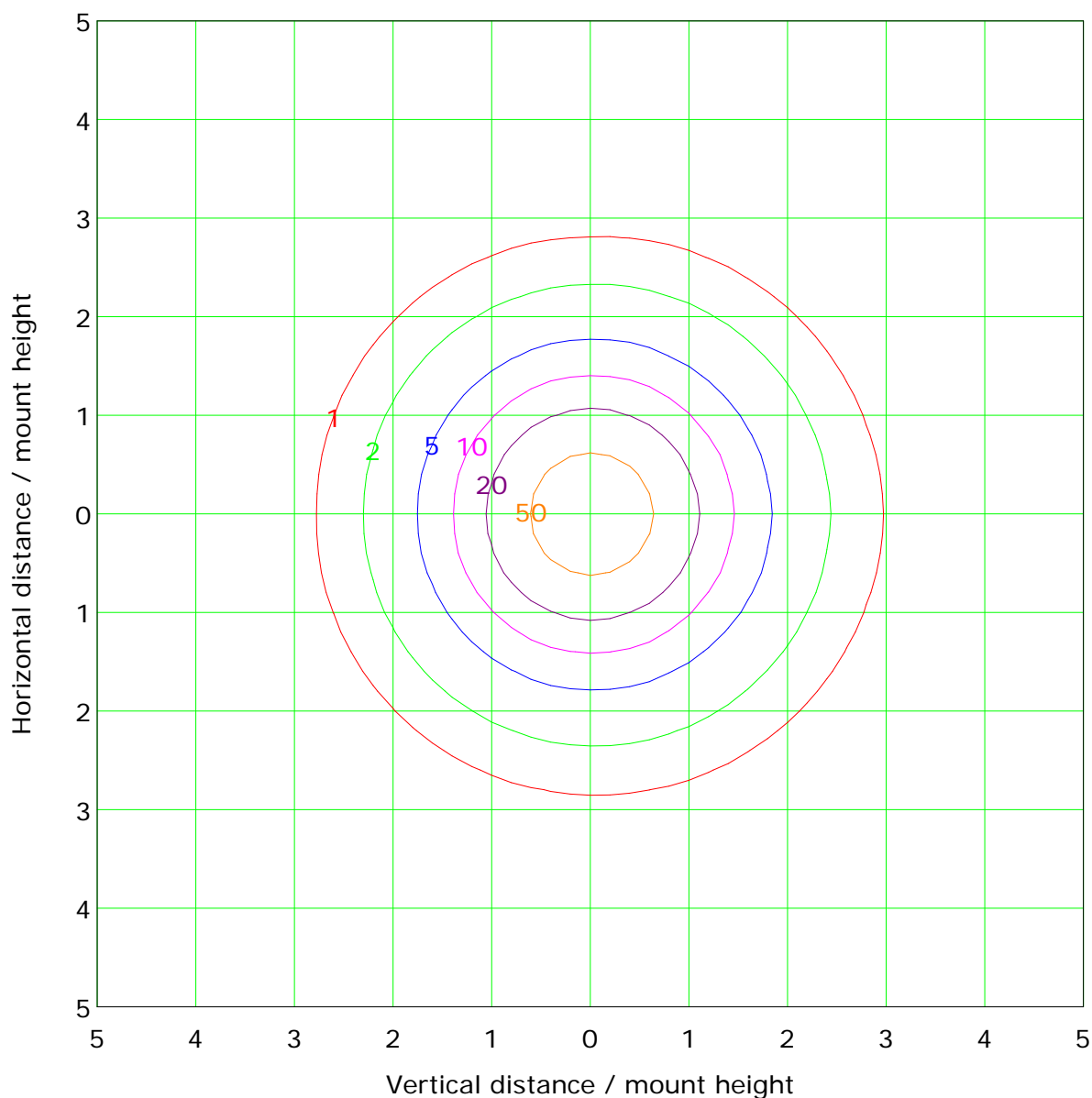
Imax (100%): 904 cd

| | | | |
|---------|--------|---------|--------|
| (10%): | 90 cd | (16%): | 145 cd |
| (25%): | 226 cd | (40%): | 362 cd |
| (63%): | 569 cd | (100%): | 904 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%): 100.3 lx

| | |
|------------------|-----------------|
| (1%): 1.0 lx | (2%): 2.0 lx |
| (5%): 5.0 lx | (10%): 10.0 lx |
| (20%): 20.1 lx | (50%): 50.2 lx |
| (100%): 100.3 lx | |

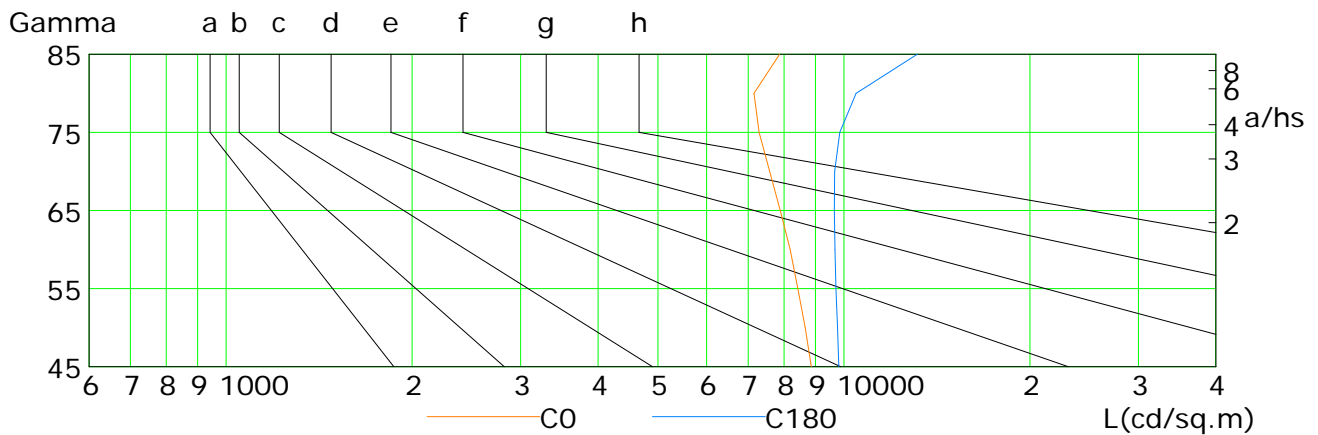
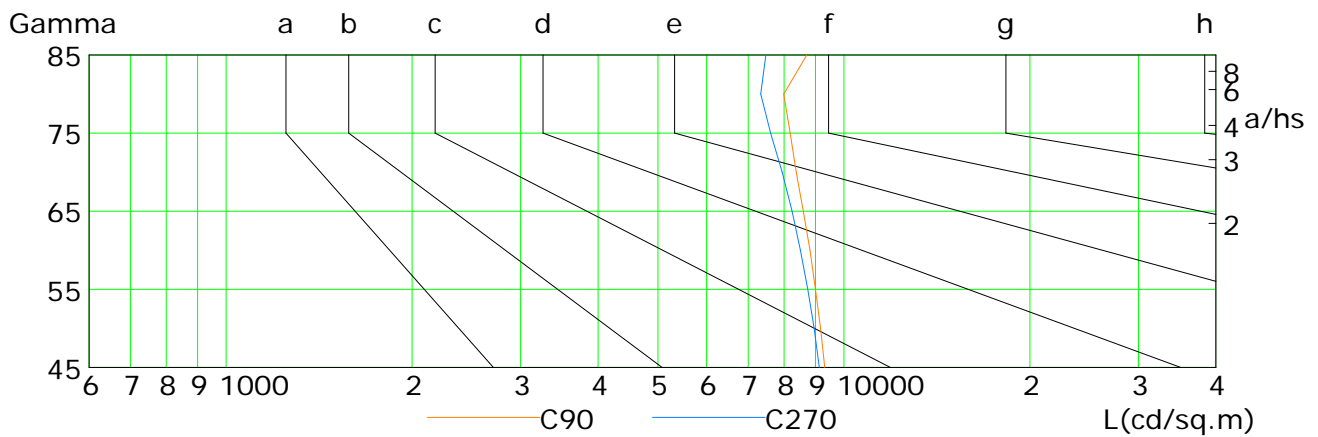
C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

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

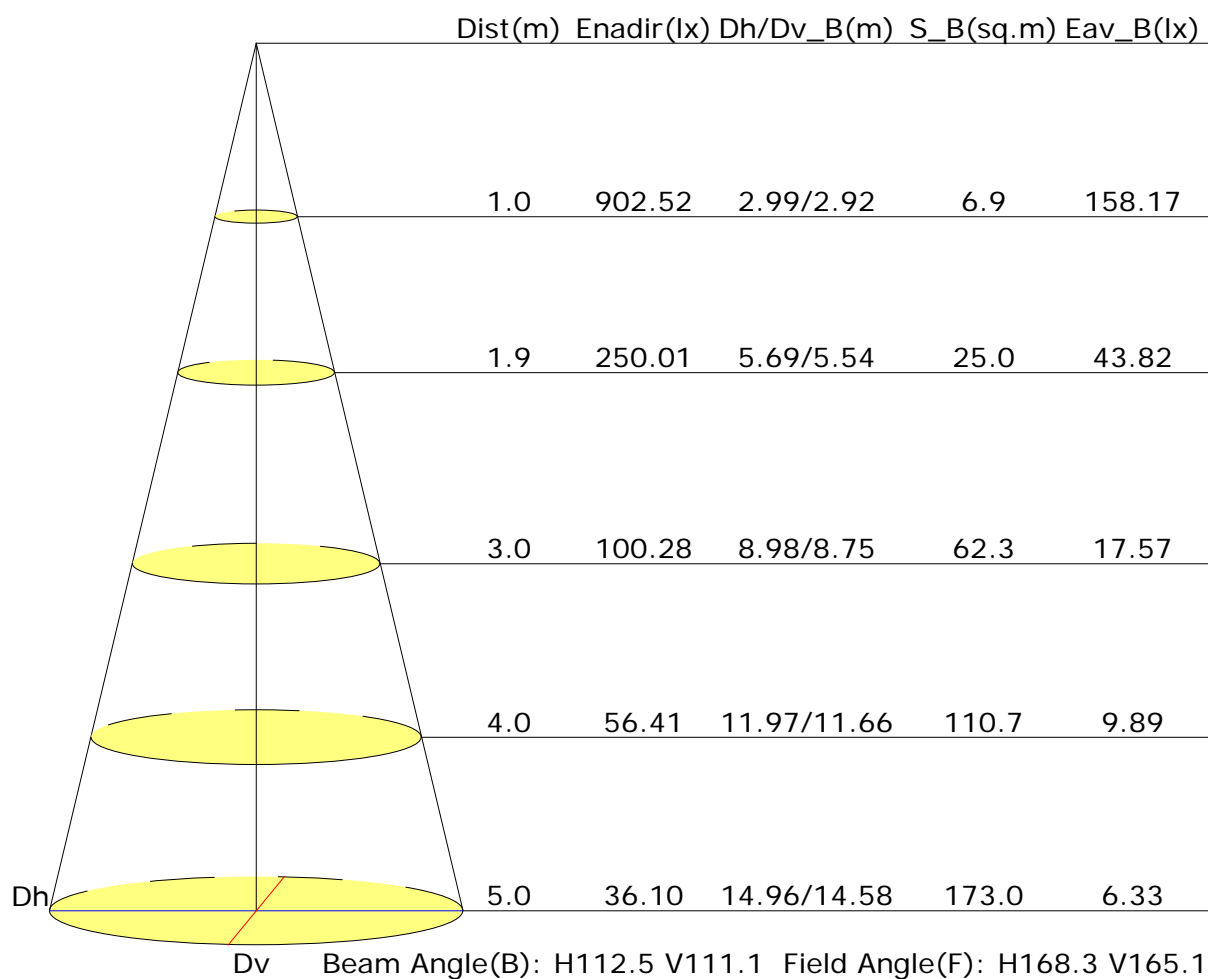


| L(cd/sq.m) | G45 | G50 | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|------------|------|------|------|------|------|------|------|-------|-------|
| C0 | 8864 | 8657 | 8422 | 8184 | 7894 | 7588 | 7290 | 7156 | 7870 |
| C90 | 9317 | 9173 | 8995 | 8812 | 8603 | 8379 | 8183 | 7993 | 8712 |
| C180 | 9822 | 9769 | 9715 | 9676 | 9652 | 9669 | 9851 | 10475 | 13142 |
| C270 | 9130 | 8951 | 8747 | 8507 | 8246 | 7948 | 7614 | 7336 | 7481 |

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:

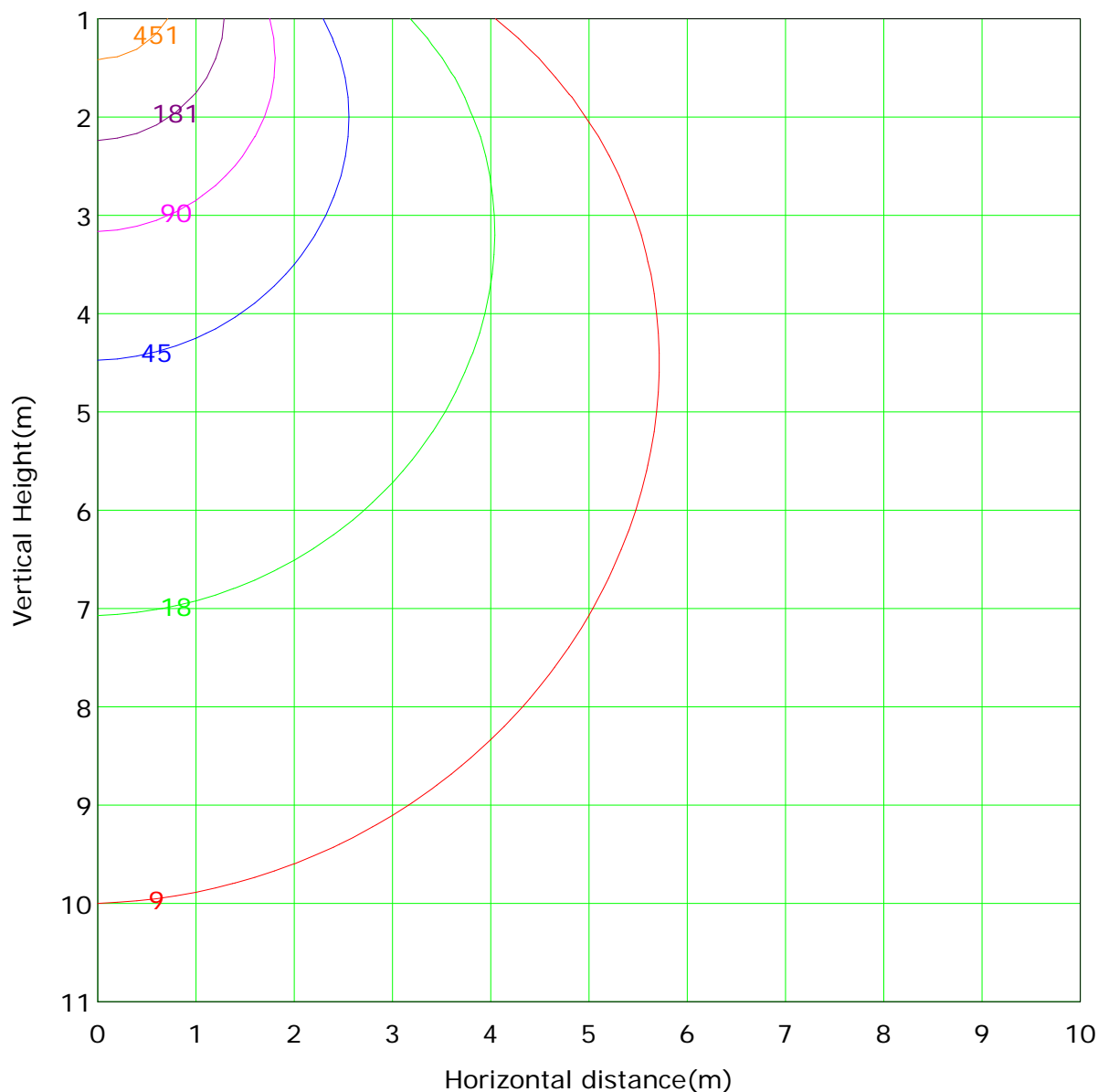
Illuminance at a Distance



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



| | | |
|------------------|-------------------|-------------------|
| Lowest(m): 1.0m | Highest(m): 11.0m | Max Lux: 902.5 lx |
| (1%): 9.0 lx | (2%): 18.1 lx | |
| (5%): 45.1 lx | (10%): 90.3 lx | |
| (20%): 180.5 lx | (50%): 451.3 lx | |
| (100%): 902.5 lx | | |

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

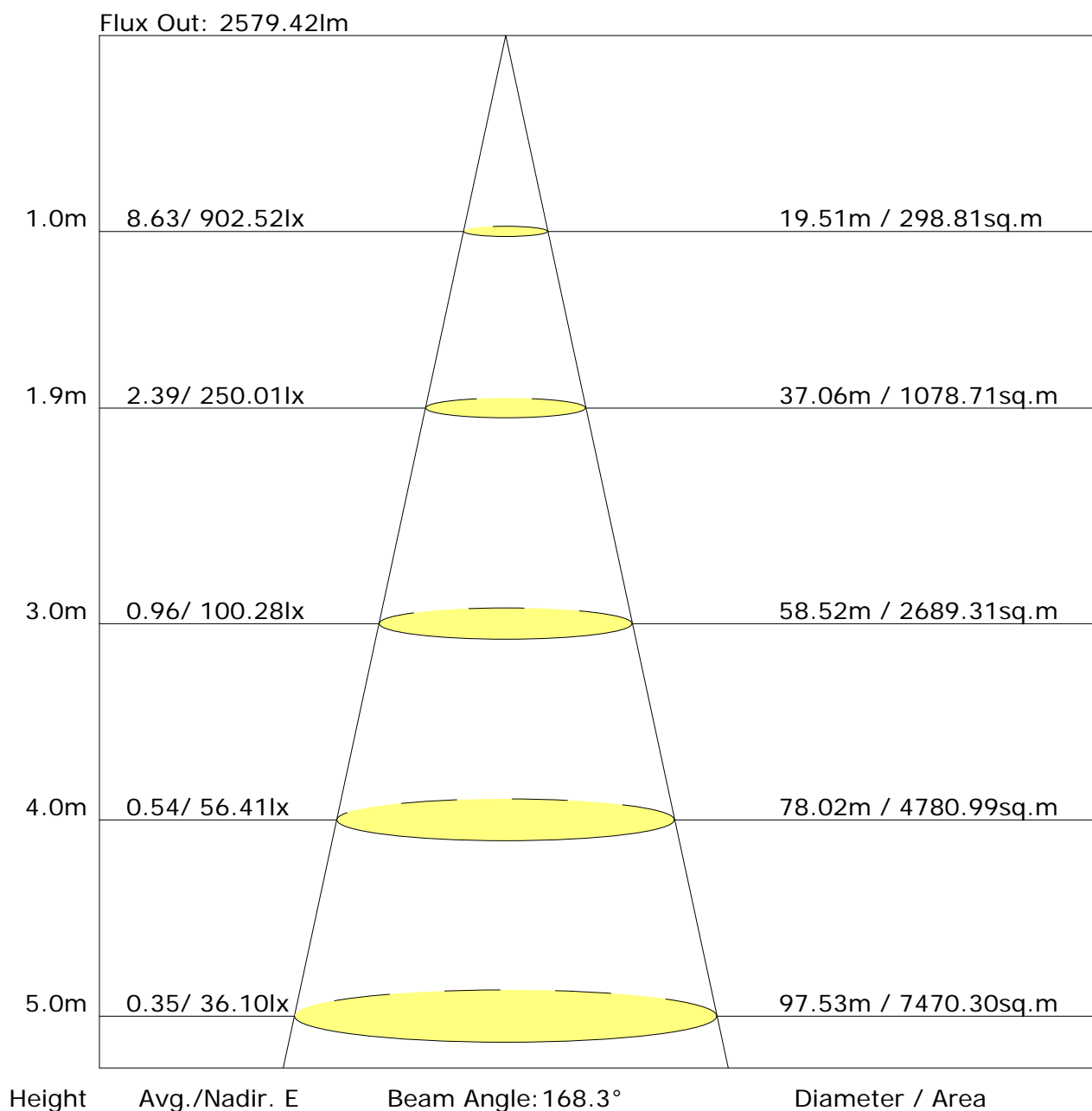
Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

Unit: 1m

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 | 19.8 | 21.2 | 20.1 | 21.5 | 21.7 | 20.0 | 21.4 | 20.3 | 21.7 | 21.9 |
| 3H | 21.4 | 22.7 | 21.7 | 23.0 | 23.2 | 21.7 | 23.0 | 22.0 | 23.2 | 23.5 |
| 4H | 22.1 | 23.3 | 22.4 | 23.6 | 23.9 | 22.4 | 23.6 | 22.7 | 23.9 | 24.2 |
| 6H | 22.6 | 23.8 | 23.0 | 24.1 | 24.4 | 23.0 | 24.1 | 23.3 | 24.4 | 24.7 |
| 8H | 22.8 | 23.9 | 23.2 | 24.3 | 24.6 | 23.2 | 24.3 | 23.6 | 24.6 | 24.9 |
| 12H | 23.0 | 24.1 | 23.4 | 24.4 | 24.8 | 23.4 | 24.4 | 23.8 | 24.8 | 25.1 |
| X=4H Y=2H | 20.5 | 21.8 | 20.9 | 22.0 | 22.3 | 20.7 | 21.9 | 21.0 | 22.2 | 22.5 |
| 3H | 22.3 | 23.4 | 22.7 | 23.7 | 24.0 | 22.5 | 23.6 | 22.9 | 23.9 | 24.3 |
| 4H | 23.1 | 24.1 | 23.5 | 24.4 | 24.8 | 23.4 | 24.3 | 23.8 | 24.7 | 25.1 |
| 6H | 23.8 | 24.7 | 24.2 | 25.0 | 25.5 | 24.1 | 25.0 | 24.5 | 25.3 | 25.7 |
| 8H | 24.1 | 24.9 | 24.5 | 25.3 | 25.7 | 24.4 | 25.2 | 24.8 | 25.6 | 26.0 |
| 12H | 24.4 | 25.1 | 24.8 | 25.5 | 25.9 | 24.7 | 25.4 | 25.1 | 25.8 | 26.2 |
| X=8H Y=4H | 23.5 | 24.3 | 23.9 | 24.7 | 25.1 | 23.7 | 24.5 | 24.2 | 24.9 | 25.3 |
| 6H | 24.4 | 25.0 | 24.8 | 25.4 | 25.9 | 24.6 | 25.2 | 25.1 | 25.7 | 26.1 |
| 8H | 24.8 | 25.3 | 25.2 | 25.8 | 26.3 | 25.0 | 25.6 | 25.5 | 26.0 | 26.5 |
| 12H | 25.1 | 25.6 | 25.6 | 26.1 | 26.6 | 25.4 | 25.9 | 25.9 | 26.3 | 26.8 |
| X=12H Y=4H | 23.5 | 24.2 | 24.0 | 24.7 | 25.1 | 23.7 | 24.5 | 24.2 | 24.9 | 25.3 |
| 6H | 24.5 | 25.0 | 24.9 | 25.5 | 26.0 | 24.7 | 25.3 | 25.2 | 25.7 | 26.2 |
| 8H | 24.9 | 25.4 | 25.4 | 25.9 | 26.4 | 25.2 | 25.7 | 25.7 | 26.1 | 26.6 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S=1.0H | +0.2/-0.2 | | | | | +0.2/-0.2 | | | | |
| S=1.5H | +0.4/-0.5 | | | | | +0.4/-0.5 | | | | |
| S=2.0H | +0.5/-0.9 | | | | | +0.5/-0.8 | | | | |

Calculate in accordance with CIE Pub.117. The table is revised with 2615lm ($8\log(F/F_0) = 3.3$).

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 = 1.50 | | | | | | | | |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|
| 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 | 0.59 | 0.67 | 0.75 | 0.80 | 0.87 | 0.92 | 0.95 | 1.00 | 1.03 |
| | 0.30 | | 0.52 | 0.60 | 0.67 | 0.73 | 0.81 | 0.86 | 0.90 | 0.96 | 0.99 |
| | 0.20 | | 0.46 | 0.54 | 0.62 | 0.67 | 0.76 | 0.81 | 0.86 | 0.92 | 0.96 |
| 0.50 | 0.50 | 0.20 | 0.58 | 0.65 | 0.72 | 0.77 | 0.84 | 0.88 | 0.92 | 0.96 | 0.99 |
| | 0.30 | | 0.51 | 0.59 | 0.66 | 0.71 | 0.79 | 0.84 | 0.87 | 0.92 | 0.96 |
| | 0.20 | | 0.46 | 0.53 | 0.61 | 0.66 | 0.74 | 0.80 | 0.84 | 0.89 | 0.93 |
| 0.30 | 0.50 | 0.20 | 0.56 | 0.63 | 0.70 | 0.75 | 0.81 | 0.85 | 0.88 | 0.92 | 0.95 |
| | 0.30 | | 0.50 | 0.58 | 0.65 | 0.70 | 0.77 | 0.81 | 0.85 | 0.89 | 0.92 |
| | 0.20 | | 0.46 | 0.53 | 0.60 | 0.65 | 0.73 | 0.78 | 0.82 | 0.87 | 0.90 |
| 0.00 | 0.00 | 0.00 | 0.43 | 0.50 | 0.57 | 0.62 | 0.69 | 0.74 | 0.78 | 0.82 | 0.85 |
| Rating: 28W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980 | | | | | | | | | | | |

Utilisation Factor Table(Wall)

| Utilisation Factors UF(W) | | | SHR NOM = 1.50 | | | | | | | | | |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|--|
| 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 | 0.96 | 0.82 | 0.70 | 0.61 | 0.49 | 0.41 | 0.35 | 0.28 | 0.23 | |
| | 0.30 | | 0.80 | 0.70 | 0.61 | 0.54 | 0.44 | 0.38 | 0.33 | 0.26 | 0.22 | |
| | 0.20 | | 0.69 | 0.61 | 0.54 | 0.48 | 0.40 | 0.35 | 0.30 | 0.25 | 0.21 | |
| 0.50 | 0.50 | 0.20 | 0.93 | 0.79 | 0.67 | 0.58 | 0.47 | 0.42 | 0.34 | 0.26 | 0.22 | |
| | 0.30 | | 0.78 | 0.68 | 0.59 | 0.52 | 0.43 | 0.36 | 0.31 | 0.25 | 0.21 | |
| | 0.20 | | 0.68 | 0.60 | 0.53 | 0.47 | 0.39 | 0.34 | 0.30 | 0.24 | 0.20 | |
| 0.30 | 0.50 | 0.20 | 0.90 | 0.76 | 0.64 | 0.56 | 0.45 | 0.37 | 0.32 | 0.25 | 0.21 | |
| | 0.30 | | 0.77 | 0.67 | 0.57 | 0.51 | 0.41 | 0.35 | 0.30 | 0.24 | 0.20 | |
| | 0.20 | | 0.67 | 0.60 | 0.52 | 0.46 | 0.39 | 0.33 | 0.29 | 0.23 | 0.19 | |
| 0.00 | 0.00 | 0.00 | 0.57 | 0.50 | 0.43 | 0.38 | 0.31 | 0.26 | 0.23 | 0.18 | 0.15 | |
| Rating: 28W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980 | | | | | | | | | | | | |

Utilisation Factor Table(Ceiling cavity)

| Utilisation Factors UF(C) | | | SHR NOM = 1.50 | | | | | | | | |
|---|------|-------|----------------|------|------|------|------|------|------|------|------|
| 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 | 0.16 | 0.18 | 0.18 | 0.19 | 0.20 | 0.21 | 0.21 | 0.22 | 0.22 |
| | 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 | 0.18 | 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 | 0.06 | 0.08 | 0.09 | 0.11 | 0.12 | 0.13 | 0.15 | 0.16 |
| 0.30 | 0.50 | 0.20 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.19 | 0.19 | 0.20 | 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 | 0.13 | 0.15 | 0.16 |
| 0.00 | 0.00 | 0.00 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| <p>Rating: 28W 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 | 901.9 | 0.9 | 0.9 | 0.03 | 0.03 |
| 1.0-2.0 | 901.6 | 2.6 | 3.5 | 0.10 | 0.13 |
| 2.0-3.0 | 900.9 | 4.3 | 7.8 | 0.16 | 0.30 |
| 3.0-4.0 | 899.7 | 6.0 | 13.8 | 0.23 | 0.53 |
| 4.0-5.0 | 898.3 | 7.7 | 21.5 | 0.30 | 0.82 |
| 5.0-6.0 | 896.6 | 9.4 | 30.9 | 0.36 | 1.18 |
| 6.0-7.0 | 894.4 | 11.1 | 42.0 | 0.42 | 1.61 |
| 7.0-8.0 | 892.0 | 12.8 | 54.8 | 0.49 | 2.10 |
| 8.0-9.0 | 889.2 | 14.4 | 69.2 | 0.55 | 2.65 |
| 9.0-10.0 | 885.9 | 16.0 | 85.3 | 0.61 | 3.26 |
| 10.0-11.0 | 882.5 | 17.6 | 102.9 | 0.67 | 3.94 |
| 11.0-12.0 | 878.7 | 19.2 | 122.1 | 0.73 | 4.67 |
| 12.0-13.0 | 874.5 | 20.8 | 142.9 | 0.79 | 5.46 |
| 13.0-14.0 | 870.0 | 22.3 | 165.1 | 0.85 | 6.32 |
| 14.0-15.0 | 865.3 | 23.8 | 188.9 | 0.91 | 7.22 |
| 15.0-16.0 | 860.2 | 25.2 | 214.1 | 0.96 | 8.19 |
| 16.0-17.0 | 854.6 | 26.6 | 240.7 | 1.02 | 9.21 |
| 17.0-18.0 | 848.9 | 28.0 | 268.7 | 1.07 | 10.28 |
| 18.0-19.0 | 842.9 | 29.3 | 298.0 | 1.12 | 11.40 |
| 19.0-20.0 | 836.5 | 30.6 | 328.7 | 1.17 | 12.57 |
| 20.0-21.0 | 829.8 | 31.9 | 360.5 | 1.22 | 13.79 |
| 21.0-22.0 | 822.8 | 33.1 | 393.6 | 1.26 | 15.05 |
| 22.0-23.0 | 815.6 | 34.2 | 427.8 | 1.31 | 16.36 |
| 23.0-24.0 | 808.2 | 35.3 | 463.2 | 1.35 | 17.71 |
| 24.0-25.0 | 800.4 | 36.4 | 499.6 | 1.39 | 19.11 |
| 25.0-26.0 | 792.3 | 37.4 | 537.0 | 1.43 | 20.54 |
| 26.0-27.0 | 784.0 | 38.4 | 575.3 | 1.47 | 22.00 |
| 27.0-28.0 | 775.4 | 39.3 | 614.6 | 1.50 | 23.51 |
| 28.0-29.0 | 766.7 | 40.1 | 654.7 | 1.53 | 25.04 |
| 29.0-30.0 | 757.6 | 40.9 | 695.6 | 1.56 | 26.61 |
| 30.0-31.0 | 748.4 | 41.7 | 737.3 | 1.59 | 28.20 |
| 31.0-32.0 | 738.9 | 42.3 | 779.6 | 1.62 | 29.82 |
| 32.0-33.0 | 729.2 | 43.0 | 822.6 | 1.64 | 31.46 |
| 33.0-34.0 | 719.2 | 43.5 | 866.1 | 1.66 | 33.13 |
| 34.0-35.0 | 709.0 | 44.0 | 910.1 | 1.68 | 34.81 |
| 35.0-36.0 | 698.6 | 44.5 | 954.6 | 1.70 | 36.51 |

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 1)

| Gamma [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 36.0-37.0 | 688.0 | 44.9 | 999.5 | 1.72 | 38.23 |
| 37.0-38.0 | 677.2 | 45.2 | 1044.7 | 1.73 | 39.96 |
| 38.0-39.0 | 666.2 | 45.5 | 1090.2 | 1.74 | 41.70 |
| 39.0-40.0 | 655.0 | 45.7 | 1135.9 | 1.75 | 43.44 |
| 40.0-41.0 | 643.7 | 45.8 | 1181.7 | 1.75 | 45.20 |
| 41.0-42.0 | 632.3 | 45.9 | 1227.7 | 1.76 | 46.96 |
| 42.0-43.0 | 620.6 | 46.0 | 1273.6 | 1.76 | 48.71 |
| 43.0-44.0 | 608.9 | 46.0 | 1319.6 | 1.76 | 50.47 |
| 44.0-45.0 | 596.9 | 45.9 | 1365.5 | 1.75 | 52.23 |
| 45.0-46.0 | 584.8 | 45.7 | 1411.2 | 1.75 | 53.98 |
| 46.0-47.0 | 572.6 | 45.5 | 1456.8 | 1.74 | 55.72 |
| 47.0-48.0 | 560.1 | 45.3 | 1502.1 | 1.73 | 57.45 |
| 48.0-49.0 | 547.6 | 45.0 | 1547.0 | 1.72 | 59.17 |
| 49.0-50.0 | 535.0 | 44.6 | 1591.6 | 1.71 | 60.88 |
| 50.0-51.0 | 522.1 | 44.2 | 1635.8 | 1.69 | 62.57 |
| 51.0-52.0 | 509.0 | 43.7 | 1679.5 | 1.67 | 64.24 |
| 52.0-53.0 | 495.9 | 43.1 | 1722.7 | 1.65 | 65.89 |
| 53.0-54.0 | 482.9 | 42.6 | 1765.2 | 1.63 | 67.52 |
| 54.0-55.0 | 469.7 | 41.9 | 1807.2 | 1.60 | 69.12 |
| 55.0-56.0 | 456.4 | 41.2 | 1848.4 | 1.58 | 70.70 |
| 56.0-57.0 | 443.0 | 40.5 | 1888.9 | 1.55 | 72.25 |
| 57.0-58.0 | 429.5 | 39.7 | 1928.6 | 1.52 | 73.77 |
| 58.0-59.0 | 415.8 | 38.9 | 1967.5 | 1.49 | 75.25 |
| 59.0-60.0 | 402.3 | 38.0 | 2005.5 | 1.45 | 76.71 |
| 60.0-61.0 | 388.8 | 37.1 | 2042.6 | 1.42 | 78.13 |
| 61.0-62.0 | 374.9 | 36.1 | 2078.8 | 1.38 | 79.51 |
| 62.0-63.0 | 361.1 | 35.1 | 2113.9 | 1.34 | 80.85 |
| 63.0-64.0 | 347.4 | 34.1 | 2148.0 | 1.30 | 82.16 |
| 64.0-65.0 | 333.9 | 33.0 | 2181.0 | 1.26 | 83.42 |
| 65.0-66.0 | 320.2 | 32.0 | 2213.0 | 1.22 | 84.64 |
| 66.0-67.0 | 306.5 | 30.8 | 2243.8 | 1.18 | 85.82 |
| 67.0-68.0 | 292.7 | 29.6 | 2273.5 | 1.13 | 86.96 |
| 68.0-69.0 | 279.0 | 28.5 | 2301.9 | 1.09 | 88.04 |
| 69.0-70.0 | 265.4 | 27.3 | 2329.2 | 1.04 | 89.09 |
| 70.0-71.0 | 251.5 | 26.0 | 2355.2 | 0.99 | 90.08 |
| 71.0-72.0 | 237.7 | 24.7 | 2379.9 | 0.95 | 91.03 |

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 | 902.5 | 901.5 | 902.5 | 901.5 | 902.5 | | | | | |
| G1.0 | 901.3 | 901.3 | 903.4 | 901.2 | 901.3 | | | | | |
| G2.0 | 900.0 | 901.2 | 903.6 | 900.6 | 900.0 | | | | | |
| G3.0 | 898.1 | 900.5 | 903.8 | 899.2 | 898.1 | | | | | |
| G4.0 | 895.8 | 899.3 | 903.4 | 897.8 | 895.8 | | | | | |
| G5.0 | 893.4 | 898.2 | 902.7 | 896.0 | 893.4 | | | | | |
| G6.0 | 890.6 | 895.9 | 901.9 | 894.3 | 890.6 | | | | | |
| G7.0 | 887.3 | 893.8 | 900.3 | 891.4 | 887.3 | | | | | |
| G8.0 | 883.8 | 891.3 | 899.0 | 889.0 | 883.8 | | | | | |
| G9.0 | 879.8 | 888.5 | 896.5 | 885.4 | 879.8 | | | | | |
| G10.0 | 875.8 | 885.5 | 894.2 | 881.7 | 875.8 | | | | | |
| G11.0 | 871.3 | 881.6 | 891.6 | 878.3 | 871.3 | | | | | |
| G12.0 | 866.6 | 877.8 | 888.2 | 873.8 | 866.6 | | | | | |
| G13.0 | 861.1 | 873.8 | 885.0 | 869.6 | 861.1 | | | | | |
| G14.0 | 855.9 | 869.1 | 881.2 | 864.7 | 855.9 | | | | | |
| G15.0 | 850.1 | 864.6 | 877.3 | 859.4 | 850.1 | | | | | |
| G16.0 | 844.3 | 859.0 | 872.6 | 854.1 | 844.3 | | | | | |
| G17.0 | 837.6 | 853.5 | 867.9 | 847.9 | 837.6 | | | | | |
| G18.0 | 831.2 | 847.8 | 863.0 | 842.0 | 831.2 | | | | | |
| G19.0 | 824.0 | 841.7 | 857.4 | 835.7 | 824.0 | | | | | |
| G20.0 | 817.0 | 835.7 | 851.7 | 828.7 | 817.0 | | | | | |
| G21.0 | 809.4 | 828.3 | 845.9 | 821.9 | 809.4 | | | | | |
| G22.0 | 801.9 | 821.3 | 839.3 | 814.2 | 801.9 | | | | | |
| G23.0 | 793.7 | 814.3 | 833.1 | 807.0 | 793.7 | | | | | |
| G24.0 | 785.7 | 806.5 | 826.2 | 799.2 | 785.7 | | | | | |
| G25.0 | 776.8 | 799.0 | 818.8 | 791.0 | 776.8 | | | | | |
| G26.0 | 768.2 | 790.5 | 811.4 | 782.8 | 768.2 | | | | | |
| G27.0 | 759.3 | 782.1 | 803.4 | 773.9 | 759.3 | | | | | |
| G28.0 | 750.1 | 773.7 | 795.6 | 765.0 | 750.1 | | | | | |
| G29.0 | 741.0 | 764.9 | 787.4 | 755.8 | 741.0 | | | | | |
| G30.0 | 730.9 | 755.3 | 779.2 | 746.4 | 730.9 | | | | | |
| G31.0 | 721.2 | 746.4 | 770.5 | 737.1 | 721.2 | | | | | |
| G32.0 | 711.2 | 736.7 | 761.2 | 727.0 | 711.2 | | | | | |
| G33.0 | 700.9 | 726.8 | 752.3 | 717.2 | 700.9 | | | | | |
| G34.0 | 690.1 | 716.5 | 742.9 | 706.8 | 690.1 | | | | | |
| G35.0 | 679.8 | 706.3 | 733.2 | 696.3 | 679.8 | | | | | |
| G36.0 | 668.8 | 695.7 | 723.1 | 685.6 | 668.8 | | | | | |

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 | 658.1 | 685.3 | 712.9 | 674.7 | 658.1 | | | | | |
| G38.0 | 646.4 | 674.3 | 702.8 | 663.5 | 646.4 | | | | | |
| G39.0 | 635.2 | 662.9 | 692.1 | 652.3 | 635.2 | | | | | |
| G40.0 | 623.2 | 652.0 | 681.6 | 640.7 | 623.2 | | | | | |
| G41.0 | 612.1 | 640.3 | 670.5 | 629.3 | 612.1 | | | | | |
| G42.0 | 600.0 | 629.0 | 659.7 | 617.2 | 600.0 | | | | | |
| G43.0 | 588.4 | 617.0 | 648.3 | 605.3 | 588.4 | | | | | |
| G44.0 | 576.1 | 605.6 | 637.0 | 593.4 | 576.1 | | | | | |
| G45.0 | 564.1 | 592.9 | 625.0 | 581.0 | 564.1 | | | | | |
| G46.0 | 551.6 | 581.0 | 613.7 | 568.8 | 551.6 | | | | | |
| G47.0 | 538.9 | 568.2 | 602.0 | 556.3 | 538.9 | | | | | |
| G48.0 | 526.4 | 556.0 | 589.7 | 543.5 | 526.4 | | | | | |
| G49.0 | 513.4 | 543.3 | 577.5 | 530.9 | 513.4 | | | | | |
| G50.0 | 500.8 | 530.7 | 565.2 | 517.8 | 500.8 | | | | | |
| G51.0 | 487.9 | 517.6 | 552.7 | 504.3 | 487.9 | | | | | |
| G52.0 | 474.4 | 504.1 | 539.9 | 491.2 | 474.4 | | | | | |
| G53.0 | 461.6 | 491.2 | 526.9 | 478.0 | 461.6 | | | | | |
| G54.0 | 448.4 | 478.0 | 514.5 | 464.8 | 448.4 | | | | | |
| G55.0 | 434.7 | 464.3 | 501.5 | 451.5 | 434.7 | | | | | |
| G56.0 | 421.5 | 451.3 | 488.4 | 437.9 | 421.5 | | | | | |
| G57.0 | 408.5 | 437.5 | 475.3 | 424.0 | 408.5 | | | | | |
| G58.0 | 394.9 | 423.9 | 461.9 | 410.3 | 394.9 | | | | | |
| G59.0 | 381.0 | 409.5 | 448.5 | 396.6 | 381.0 | | | | | |
| G60.0 | 368.3 | 396.5 | 435.4 | 382.8 | 368.3 | | | | | |
| G61.0 | 354.3 | 382.6 | 421.3 | 368.8 | 354.3 | | | | | |
| G62.0 | 340.3 | 369.0 | 408.2 | 355.1 | 340.3 | | | | | |
| G63.0 | 326.7 | 354.5 | 394.3 | 341.1 | 326.7 | | | | | |
| G64.0 | 313.7 | 341.3 | 380.5 | 327.1 | 313.7 | | | | | |
| G65.0 | 300.2 | 327.2 | 367.1 | 313.6 | 300.2 | | | | | |
| G66.0 | 287.4 | 312.7 | 353.5 | 300.1 | 287.4 | | | | | |
| G67.0 | 273.5 | 299.3 | 339.3 | 286.0 | 273.5 | | | | | |
| G68.0 | 258.9 | 286.4 | 325.9 | 271.9 | 258.9 | | | | | |
| G69.0 | 246.5 | 272.5 | 311.7 | 258.5 | 246.5 | | | | | |
| G70.0 | 233.6 | 257.9 | 297.6 | 244.6 | 233.6 | | | | | |
| G71.0 | 219.4 | 243.4 | 284.5 | 230.7 | 219.4 | | | | | |
| G72.0 | 206.7 | 229.9 | 270.4 | 217.1 | 206.7 | | | | | |
| G73.0 | 195.6 | 216.3 | 256.6 | 203.7 | 195.6 | | | | | |

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:

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: