

Report No.: TH-4135A

Test Time: 2023/3/18 10:49

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 0.051 A
Power Factor: 0.805

Luminaire Description: GW-8663-180-12W
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 220.2 V
Power: 9.00 W

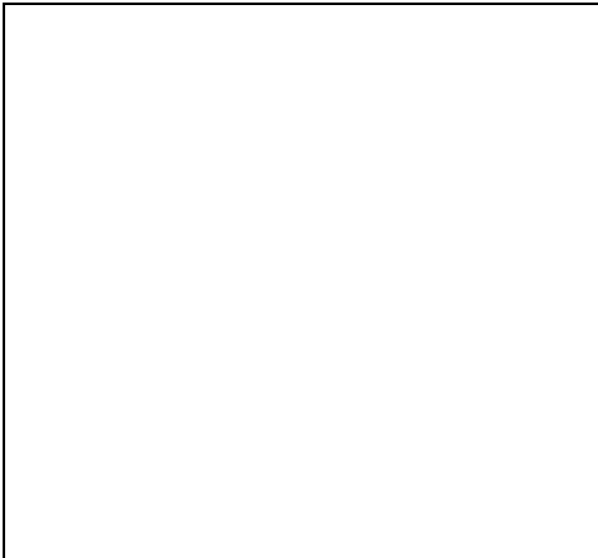
Photometric Results

CIE Class: Direct
Measurement Flux: 549.4 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(50%): H86.4
Vertical Diffuse Angle(50%): V85.7
Luminaire Efficacy Rating (LER): 61.09
Max. Intensity: 248.52 cd
S/MH(C0/C180): 1.14

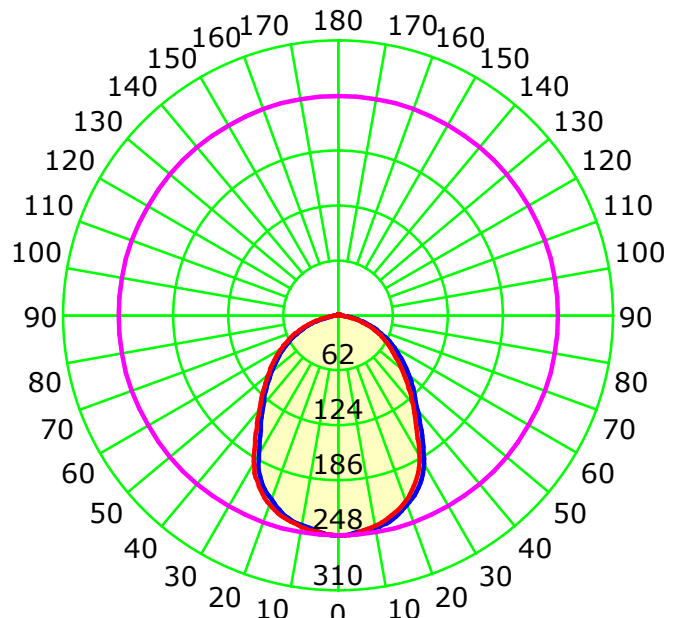
Total Rated Lamp Lumens: 549.4 lm
Efficiency: 100%
Upward Ratio: 1%

C0r0 Intensity: 248.51 cd
Pos of Max. Intensity: H0 V0
S/MH(C90/C270): 1.14

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

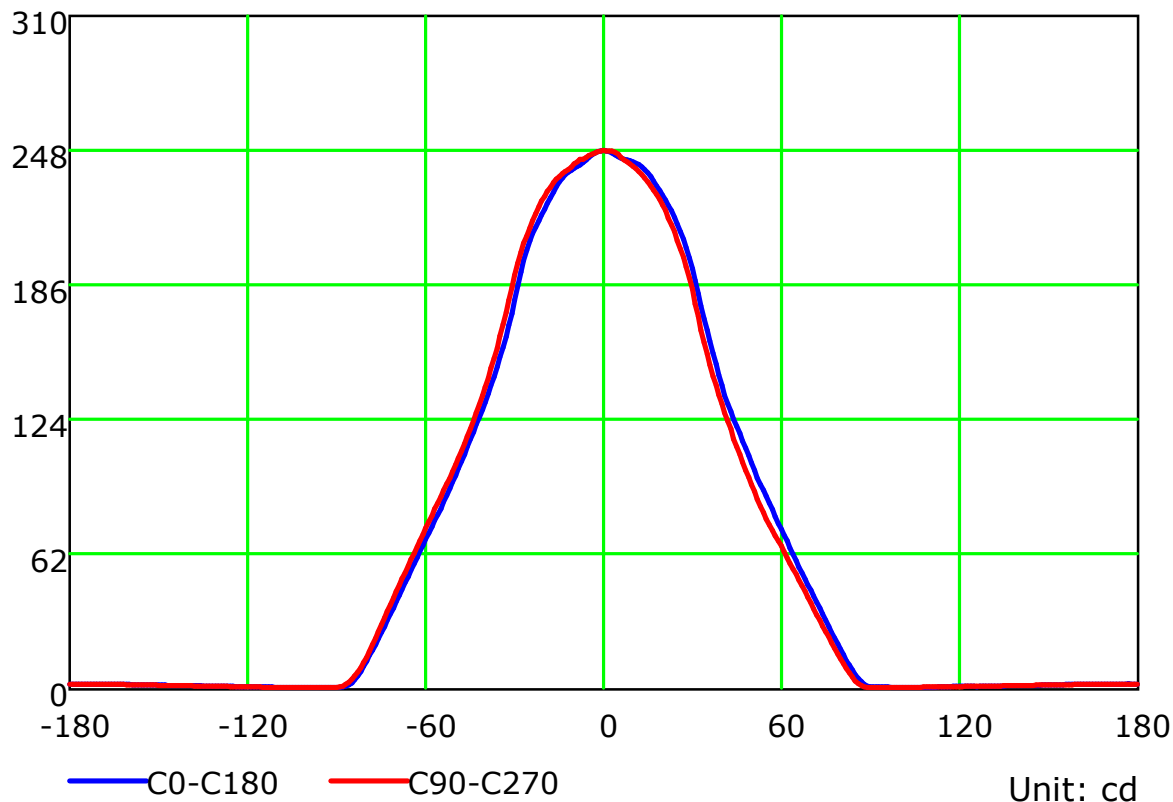
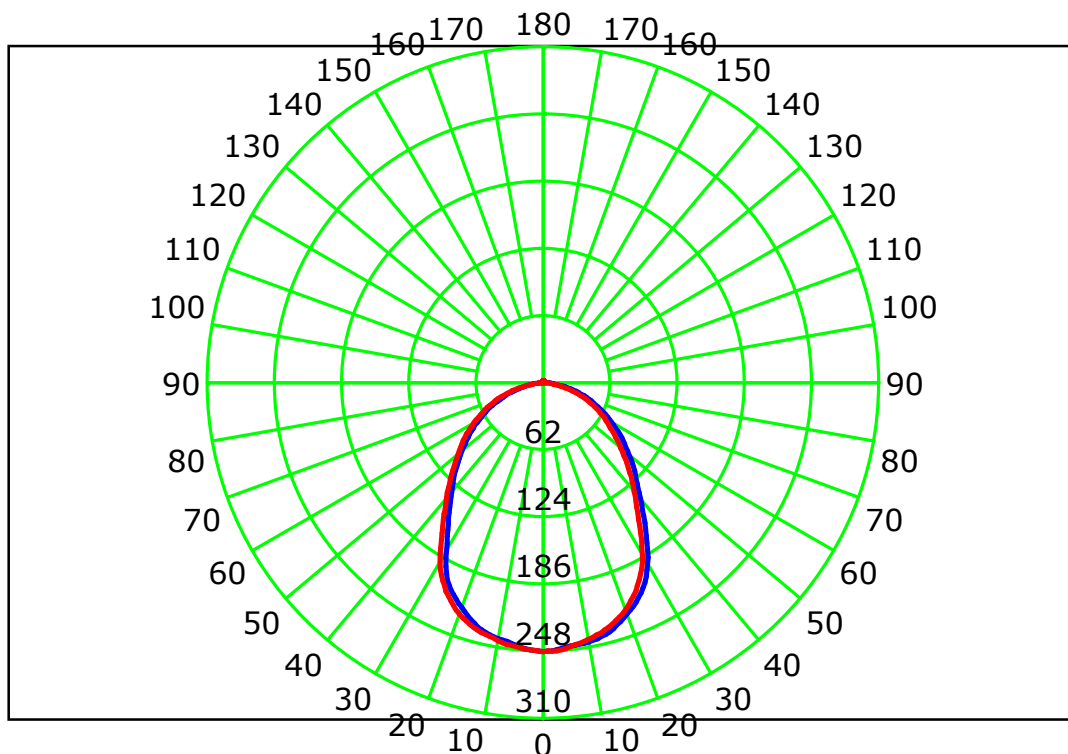
Average Diffuse Angle(50%): 86.0°

— C0-C180 — C90-C270 — G0

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
Inspector:

Luminous Intensity Distribution Curve



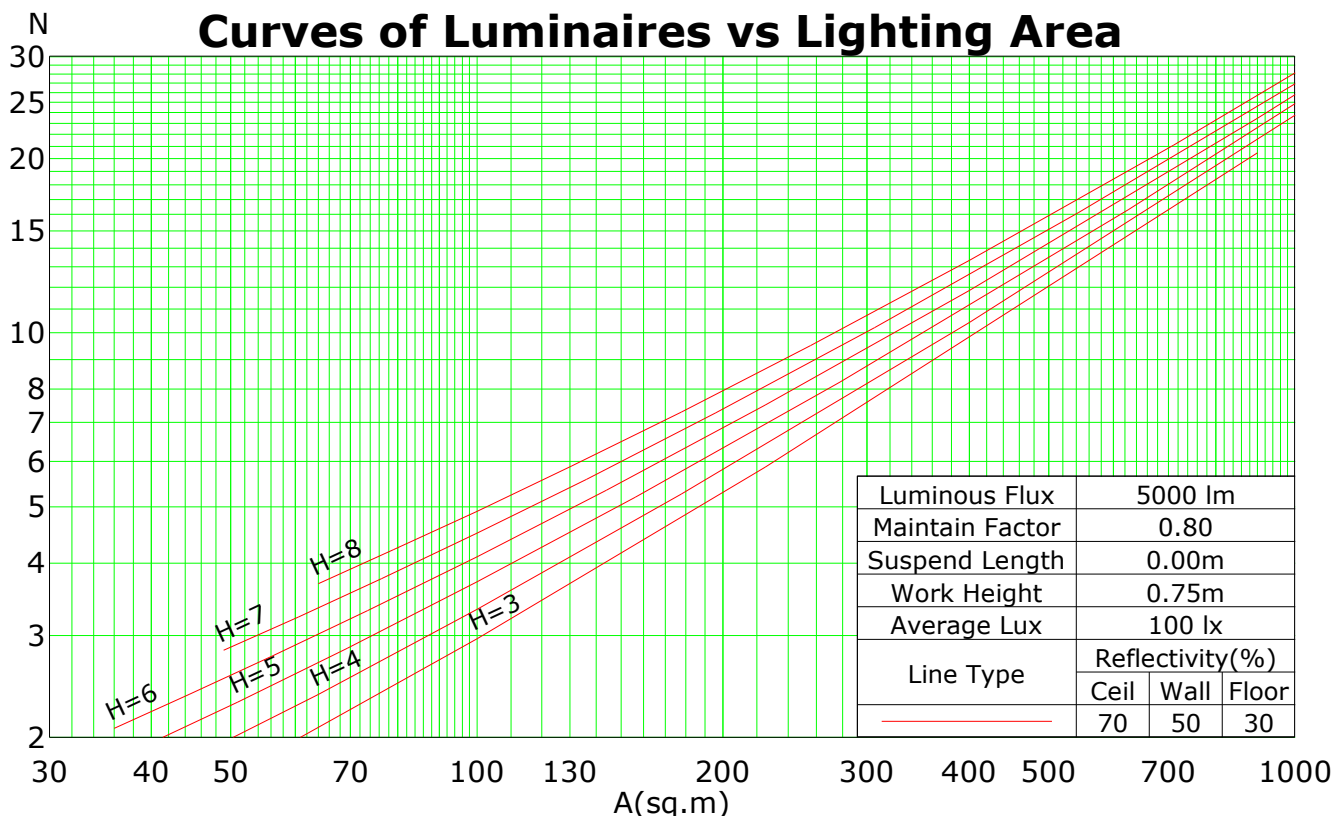
C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
Inspector:

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 | 1.19 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.01 | 1.01 | 1.01 | 0.99 |
| 1 | 1.09 | 1.05 | 1.01 | 0.98 | 1.07 | 1.03 | 0.99 | 0.96 | 0.98 | 0.95 | 0.93 | 0.94 | 0.92 | 0.90 | 0.91 | 0.89 | 0.87 | 0.85 |
| 2 | 1.00 | 0.93 | 0.86 | 0.81 | 0.98 | 0.91 | 0.85 | 0.80 | 0.87 | 0.82 | 0.78 | 0.84 | 0.80 | 0.76 | 0.81 | 0.77 | 0.74 | 0.72 |
| 3 | 0.92 | 0.82 | 0.75 | 0.69 | 0.90 | 0.81 | 0.74 | 0.68 | 0.77 | 0.71 | 0.67 | 0.75 | 0.70 | 0.65 | 0.72 | 0.68 | 0.64 | 0.62 |
| 4 | 0.85 | 0.73 | 0.65 | 0.59 | 0.82 | 0.72 | 0.64 | 0.58 | 0.70 | 0.63 | 0.58 | 0.67 | 0.61 | 0.57 | 0.65 | 0.60 | 0.56 | 0.54 |
| 5 | 0.78 | 0.66 | 0.58 | 0.51 | 0.76 | 0.65 | 0.57 | 0.51 | 0.63 | 0.56 | 0.50 | 0.61 | 0.55 | 0.50 | 0.59 | 0.54 | 0.49 | 0.47 |
| 6 | 0.73 | 0.60 | 0.52 | 0.45 | 0.71 | 0.59 | 0.51 | 0.45 | 0.57 | 0.50 | 0.45 | 0.55 | 0.49 | 0.44 | 0.54 | 0.48 | 0.44 | 0.42 |
| 7 | 0.68 | 0.55 | 0.46 | 0.41 | 0.66 | 0.54 | 0.46 | 0.40 | 0.52 | 0.45 | 0.40 | 0.51 | 0.44 | 0.40 | 0.49 | 0.44 | 0.39 | 0.37 |
| 8 | 0.63 | 0.50 | 0.42 | 0.37 | 0.62 | 0.50 | 0.42 | 0.36 | 0.48 | 0.41 | 0.36 | 0.47 | 0.41 | 0.36 | 0.46 | 0.40 | 0.36 | 0.34 |
| 9 | 0.59 | 0.46 | 0.39 | 0.33 | 0.58 | 0.46 | 0.38 | 0.33 | 0.45 | 0.38 | 0.33 | 0.43 | 0.37 | 0.33 | 0.42 | 0.37 | 0.32 | 0.31 |
| 10 | 0.56 | 0.43 | 0.35 | 0.30 | 0.54 | 0.42 | 0.35 | 0.30 | 0.41 | 0.35 | 0.30 | 0.40 | 0.34 | 0.30 | 0.40 | 0.34 | 0.30 | 0.28 |

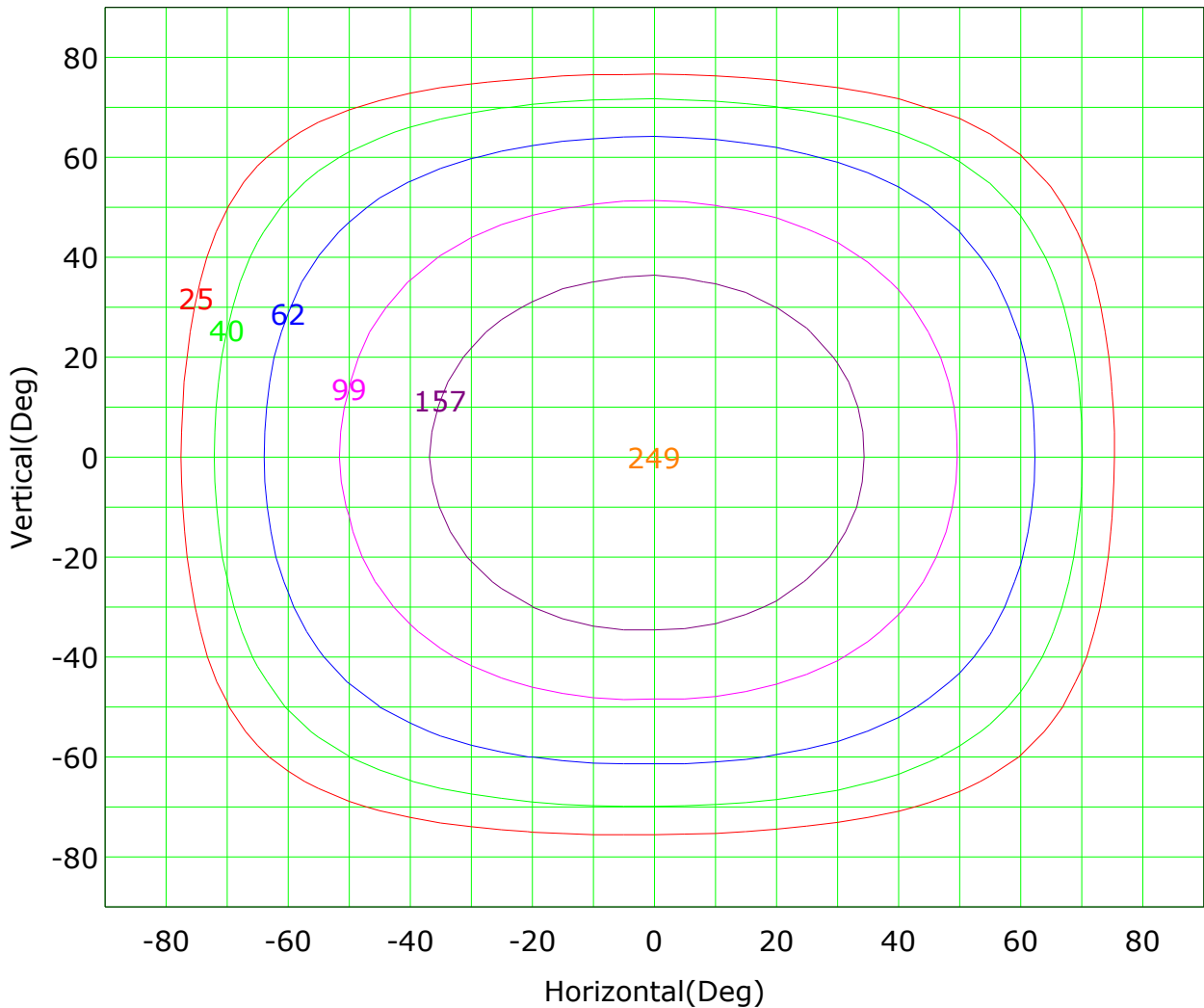
Spacing Criteria (0-180): 1.14
 Spacing Criteria (90-270): 1.14
 Spacing Criteria (Diagonal): 1.18



C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.607 m [K=1.0000]
 Humidity: 65
 Inspector:

Isocandela (rectangle)



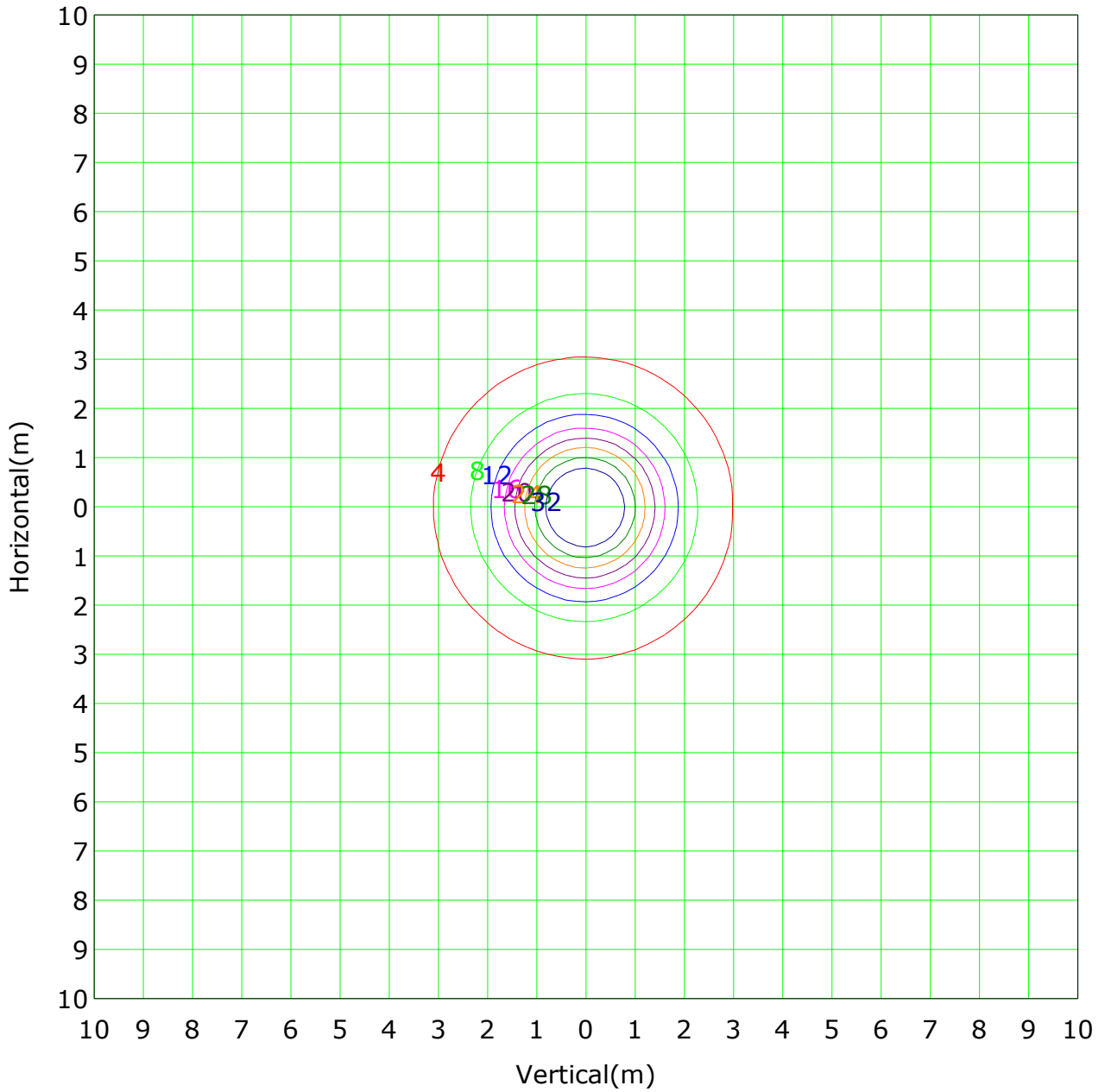
Imax (100%): 249 cd

| | | | |
|-----------|--------|-----------|--------|
| — (10%): | 25 cd | — (16%): | 40 cd |
| — (25%): | 62 cd | — (40%): | 99 cd |
| — (63%): | 157 cd | — (100%): | 249 cd |

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
Inspector:

IsoLux Plot



| | | |
|-----------------------|-------------------|------------------------|
| Mounting Height: 2.5m | | Max Lux(100%): 39.8 lx |
| — (10%): 4.0 lx | — (20%): 8.0 lx | |
| — (30%): 11.9 lx | — (40%): 15.9 lx | |
| — (50%): 19.9 lx | — (60%): 23.9 lx | |
| — (70%): 27.8 lx | — (80%): 31.8 lx | |

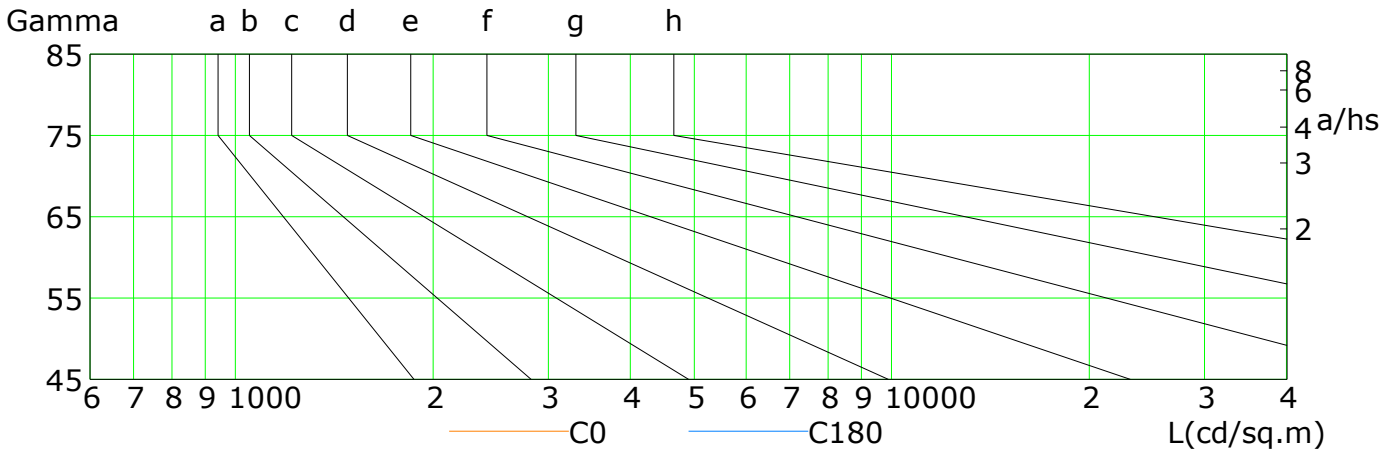
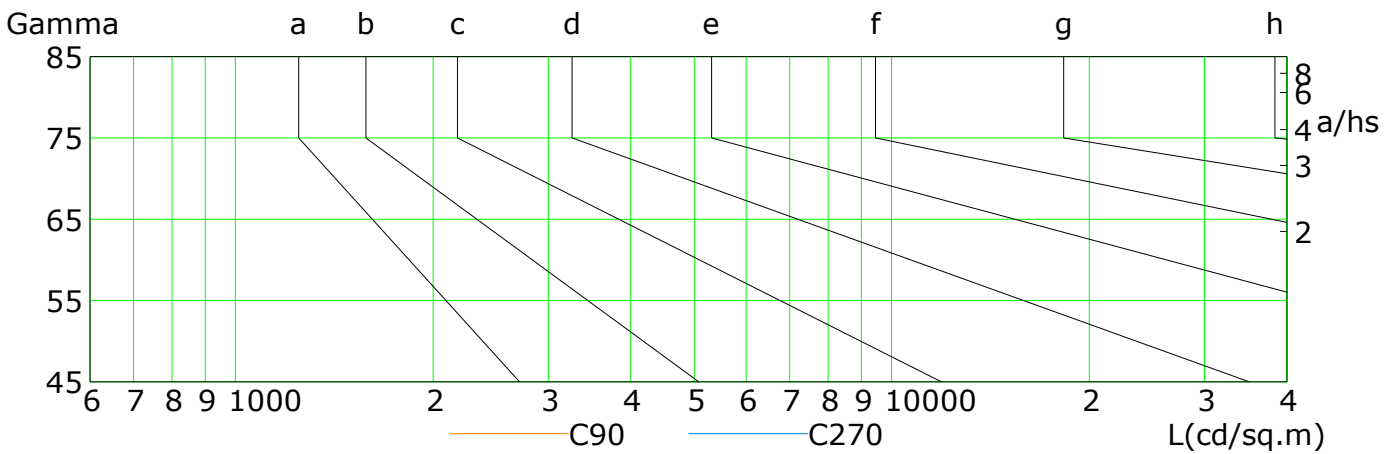
C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
Inspector:

Lum Limit Curve

| Dazzle | Quality | Illuminance (lx) | | | | | | | |
|--------|---------|------------------|------|------|-------|-------|-------|-------|-------|
| | | 2000 | 1000 | 500 | <=300 | | | | |
| 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

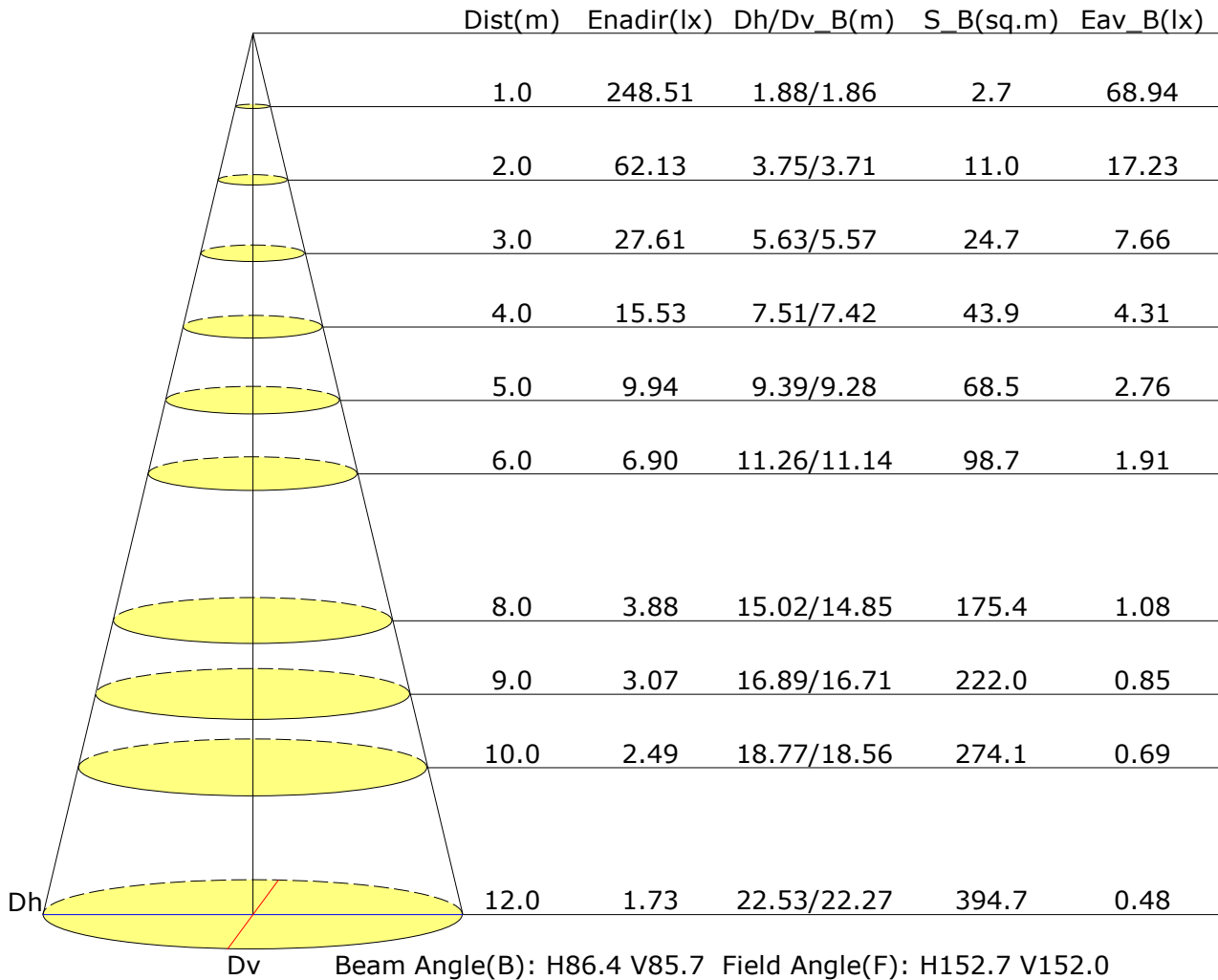


| L(cd/sq.m) | G45 | G50 | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| C0 | 121 | 104 | 89 | 73 | 59 | 45 | 32 | 18 | 6 |
| C90 | 112 | 94 | 78 | 66 | 53 | 39 | 26 | 14 | 4 |
| C180 | 115 | 98 | 83 | 69 | 55 | 40 | 26 | 13 | 2 |
| C270 | 120 | 103 | 89 | 74 | 60 | 45 | 30 | 14 | 4 |

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
Inspector:

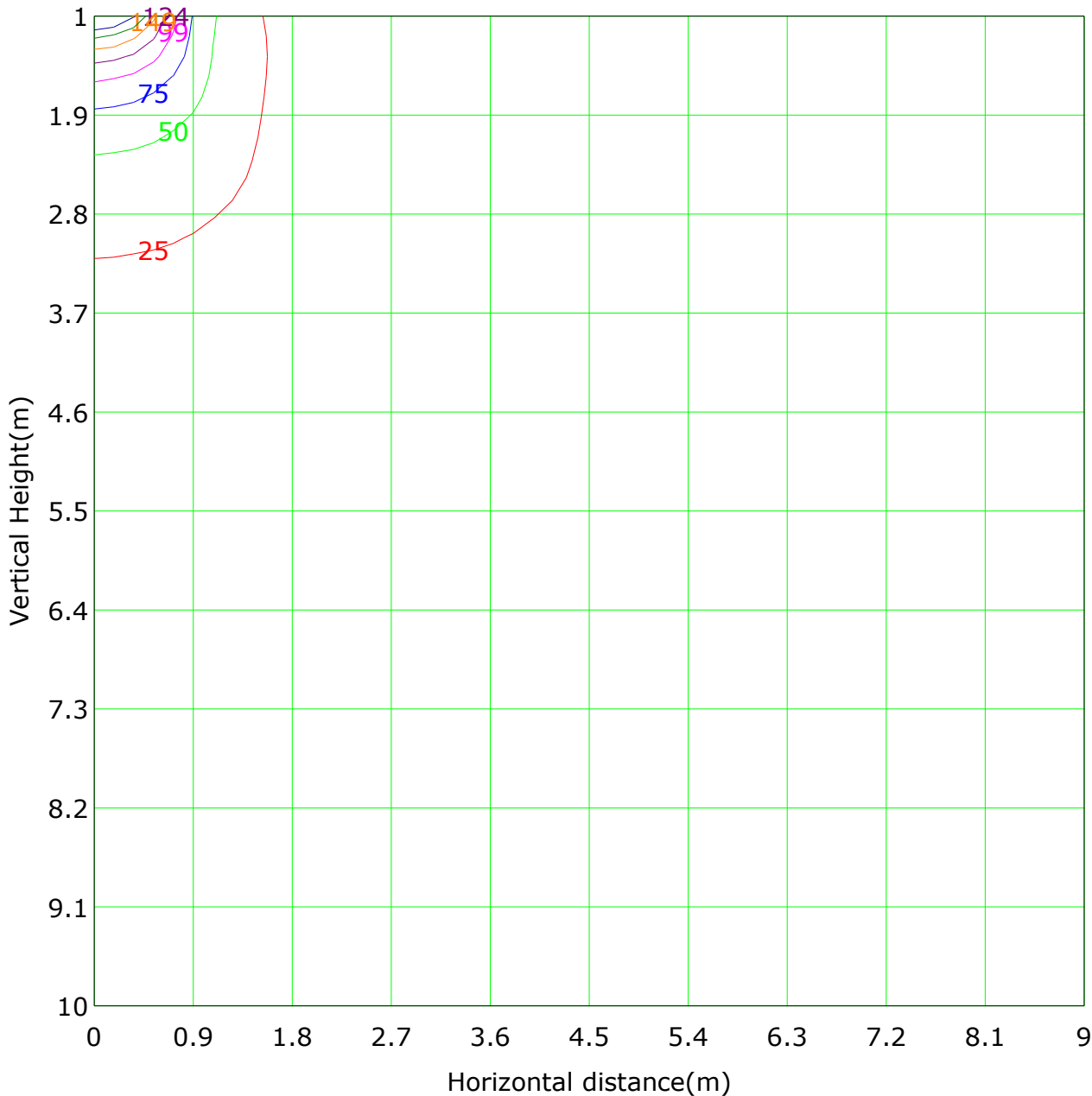
Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
Inspector:

Vertical IsoLux Plot

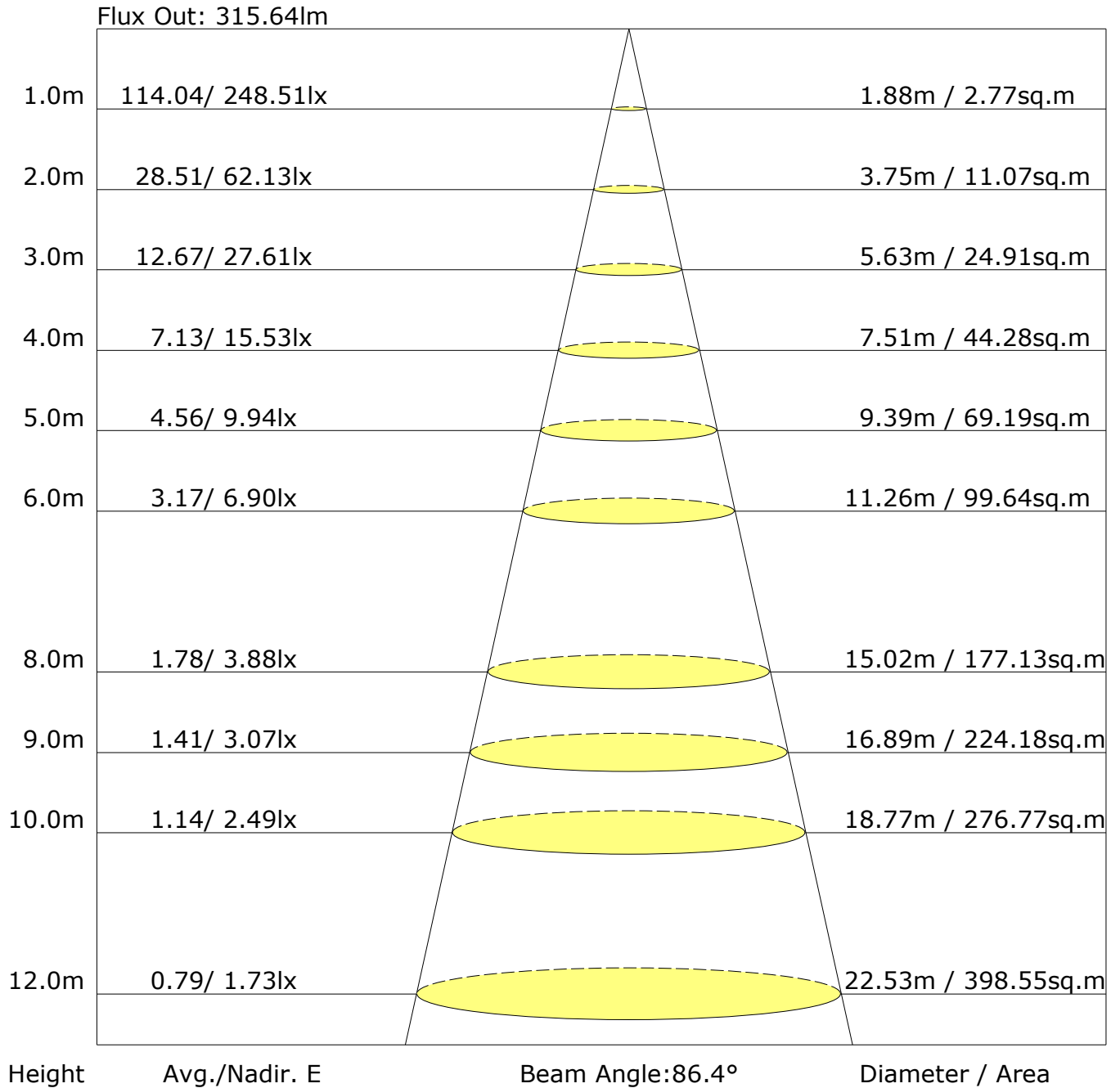


| | | |
|--------------------|--------------------|-------------------|
| Lowest(m): 1.0m | Highest(m): 10.0m | Max Lux: 248.5 lx |
| — (10%): 24.9 lx | — (20%): 49.7 lx | |
| — (30%): 74.6 lx | — (40%): 99.4 lx | |
| — (50%): 124.3 lx | — (60%): 149.1 lx | |
| — (70%): 174.0 lx | — (80%): 198.8 lx | |

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
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 | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 3H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 4H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 6H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 8H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 12H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| X=4H Y=2H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 3H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 4H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 6H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 8H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 12H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| X=8H Y=4H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 6H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 8H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 12H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| X=12H Y=4H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 6H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 8H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S=1.0H | -1.\$/-1.\$ | | | | | -1.\$/-1.\$ | | | | |
| S=1.5H | -1.\$/-1.\$ | | | | | -1.\$/-1.\$ | | | | |
| S=2.0H | -1.\$/-1.\$ | | | | | -1.\$/-1.\$ | | | | |

Calculate in accordance with CIE Pub.117. The table is revised with $549lm$ ($8\log(F/F_0) = -2.1$).

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen

| Gamma [°] | Imean [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------|--------------------|------------------------|-----------------------|---------------------------|
| 0.0-1.0 | 248.5 | 0.2 | 0.2 | 0.04 | 0.04 |
| 1.0-2.0 | 248.3 | 0.7 | 1.0 | 0.13 | 0.17 |
| 2.0-3.0 | 247.9 | 1.2 | 2.1 | 0.22 | 0.39 |
| 3.0-4.0 | 247.4 | 1.7 | 3.8 | 0.30 | 0.69 |
| 4.0-5.0 | 246.6 | 2.1 | 5.9 | 0.39 | 1.08 |
| 5.0-6.0 | 245.6 | 2.6 | 8.5 | 0.47 | 1.55 |
| 6.0-7.0 | 244.6 | 3.0 | 11.5 | 0.55 | 2.10 |
| 7.0-8.0 | 243.8 | 3.5 | 15.0 | 0.64 | 2.73 |
| 8.0-9.0 | 243.1 | 3.9 | 19.0 | 0.72 | 3.45 |
| 9.0-10.0 | 242.3 | 4.4 | 23.3 | 0.80 | 4.25 |
| 10.0-11.0 | 241.4 | 4.8 | 28.2 | 0.88 | 5.13 |
| 11.0-12.0 | 240.4 | 5.3 | 33.4 | 0.96 | 6.08 |
| 12.0-13.0 | 239.3 | 5.7 | 39.1 | 1.03 | 7.12 |
| 13.0-14.0 | 238.0 | 6.1 | 45.2 | 1.11 | 8.23 |
| 14.0-15.0 | 236.6 | 6.5 | 51.7 | 1.18 | 9.41 |
| 15.0-16.0 | 234.9 | 6.9 | 58.6 | 1.25 | 10.66 |
| 16.0-17.0 | 233.0 | 7.3 | 65.8 | 1.32 | 11.98 |
| 17.0-18.0 | 230.8 | 7.6 | 73.4 | 1.39 | 13.37 |
| 18.0-19.0 | 228.5 | 8.0 | 81.4 | 1.45 | 14.82 |
| 19.0-20.0 | 226.2 | 8.3 | 89.7 | 1.51 | 16.32 |
| 20.0-21.0 | 223.8 | 8.6 | 98.3 | 1.56 | 17.89 |
| 21.0-22.0 | 221.2 | 8.9 | 107.2 | 1.62 | 19.51 |
| 22.0-23.0 | 218.4 | 9.2 | 116.3 | 1.67 | 21.17 |
| 23.0-24.0 | 215.3 | 9.4 | 125.7 | 1.71 | 22.89 |
| 24.0-25.0 | 212.0 | 9.6 | 135.4 | 1.75 | 24.64 |
| 25.0-26.0 | 208.4 | 9.8 | 145.2 | 1.79 | 26.43 |
| 26.0-27.0 | 204.5 | 10.0 | 155.2 | 1.82 | 28.25 |
| 27.0-28.0 | 200.4 | 10.1 | 165.4 | 1.85 | 30.10 |
| 28.0-29.0 | 195.5 | 10.2 | 175.6 | 1.86 | 31.96 |
| 29.0-30.0 | 189.9 | 10.3 | 185.9 | 1.87 | 33.83 |
| 30.0-31.0 | 184.2 | 10.3 | 196.1 | 1.87 | 35.70 |
| 31.0-32.0 | 178.3 | 10.2 | 206.3 | 1.86 | 37.56 |
| 32.0-33.0 | 172.5 | 10.2 | 216.5 | 1.85 | 39.41 |
| 33.0-34.0 | 166.9 | 10.1 | 226.6 | 1.84 | 41.25 |
| 34.0-35.0 | 161.6 | 10.0 | 236.6 | 1.83 | 43.07 |
| 35.0-36.0 | 156.5 | 10.0 | 246.6 | 1.81 | 44.89 |

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.607 m [K=1.0000]
 Humidity: 65
 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 | 151.5 | 9.9 | 256.5 | 1.80 | 46.68 |
| 37.0-38.0 | 146.7 | 9.8 | 266.3 | 1.78 | 48.47 |
| 38.0-39.0 | 142.2 | 9.7 | 276.0 | 1.77 | 50.23 |
| 39.0-40.0 | 137.9 | 9.6 | 285.6 | 1.75 | 51.99 |
| 40.0-41.0 | 133.8 | 9.5 | 295.1 | 1.73 | 53.72 |
| 41.0-42.0 | 129.9 | 9.4 | 304.6 | 1.72 | 55.44 |
| 42.0-43.0 | 126.2 | 9.3 | 313.9 | 1.70 | 57.14 |
| 43.0-44.0 | 122.4 | 9.2 | 323.1 | 1.68 | 58.82 |
| 44.0-45.0 | 118.7 | 9.1 | 332.3 | 1.66 | 60.48 |
| 45.0-46.0 | 115.3 | 9.0 | 341.3 | 1.64 | 62.12 |
| 46.0-47.0 | 111.8 | 8.9 | 350.2 | 1.62 | 63.74 |
| 47.0-48.0 | 108.3 | 8.8 | 358.9 | 1.59 | 65.34 |
| 48.0-49.0 | 104.9 | 8.6 | 367.6 | 1.57 | 66.91 |
| 49.0-50.0 | 101.7 | 8.5 | 376.0 | 1.54 | 68.45 |
| 50.0-51.0 | 98.4 | 8.3 | 384.4 | 1.52 | 69.96 |
| 51.0-52.0 | 95.2 | 8.2 | 392.5 | 1.49 | 71.45 |
| 52.0-53.0 | 92.0 | 8.0 | 400.5 | 1.46 | 72.91 |
| 53.0-54.0 | 89.1 | 7.9 | 408.4 | 1.43 | 74.34 |
| 54.0-55.0 | 86.2 | 7.7 | 416.1 | 1.40 | 75.74 |
| 55.0-56.0 | 83.2 | 7.5 | 423.6 | 1.37 | 77.11 |
| 56.0-57.0 | 80.4 | 7.4 | 431.0 | 1.34 | 78.45 |
| 57.0-58.0 | 77.6 | 7.2 | 438.1 | 1.31 | 79.75 |
| 58.0-59.0 | 74.7 | 7.0 | 445.1 | 1.27 | 81.02 |
| 59.0-60.0 | 72.0 | 6.8 | 451.9 | 1.24 | 82.26 |
| 60.0-61.0 | 69.2 | 6.6 | 458.5 | 1.20 | 83.46 |
| 61.0-62.0 | 66.5 | 6.4 | 464.9 | 1.17 | 84.63 |
| 62.0-63.0 | 63.6 | 6.2 | 471.1 | 1.13 | 85.76 |
| 63.0-64.0 | 60.8 | 6.0 | 477.1 | 1.09 | 86.84 |
| 64.0-65.0 | 57.9 | 5.7 | 482.8 | 1.04 | 87.88 |
| 65.0-66.0 | 55.1 | 5.5 | 488.3 | 1.00 | 88.88 |
| 66.0-67.0 | 52.2 | 5.3 | 493.6 | 0.96 | 89.84 |
| 67.0-68.0 | 49.4 | 5.0 | 498.6 | 0.91 | 90.75 |
| 68.0-69.0 | 46.6 | 4.7 | 503.3 | 0.86 | 91.62 |
| 69.0-70.0 | 43.8 | 4.5 | 507.8 | 0.82 | 92.43 |
| 70.0-71.0 | 41.1 | 4.2 | 512.1 | 0.77 | 93.21 |
| 71.0-72.0 | 38.2 | 4.0 | 516.0 | 0.72 | 93.93 |

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen (Continue 2)

| Gamma [°] | Imean [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------|--------------------|------------------------|-----------------------|---------------------------|
| 72.0-73.0 | 35.3 | 3.7 | 519.7 | 0.67 | 94.60 |
| 73.0-74.0 | 32.5 | 3.4 | 523.1 | 0.62 | 95.22 |
| 74.0-75.0 | 29.7 | 3.1 | 526.3 | 0.57 | 95.80 |
| 75.0-76.0 | 26.8 | 2.8 | 529.1 | 0.52 | 96.31 |
| 76.0-77.0 | 24.0 | 2.6 | 531.7 | 0.47 | 96.78 |
| 77.0-78.0 | 21.3 | 2.3 | 534.0 | 0.41 | 97.19 |
| 78.0-79.0 | 18.5 | 2.0 | 536.0 | 0.36 | 97.56 |
| 79.0-80.0 | 15.9 | 1.7 | 537.7 | 0.31 | 97.87 |
| 80.0-81.0 | 13.4 | 1.5 | 539.1 | 0.26 | 98.13 |
| 81.0-82.0 | 11.1 | 1.2 | 540.3 | 0.22 | 98.35 |
| 82.0-83.0 | 8.9 | 1.0 | 541.3 | 0.18 | 98.53 |
| 83.0-84.0 | 6.8 | 0.7 | 542.0 | 0.14 | 98.66 |
| 84.0-85.0 | 5.0 | 0.5 | 542.6 | 0.10 | 98.76 |
| 85.0-86.0 | 3.5 | 0.4 | 543.0 | 0.07 | 98.83 |
| 86.0-87.0 | 2.3 | 0.3 | 543.2 | 0.05 | 98.88 |
| 87.0-88.0 | 1.5 | 0.2 | 543.4 | 0.03 | 98.91 |
| 88.0-89.0 | 0.9 | 0.1 | 543.5 | 0.02 | 98.93 |
| 89.0-90.0 | 0.7 | 0.1 | 543.5 | 0.01 | 98.94 |
| 90.0-91.0 | 0.6 | 0.1 | 543.6 | 0.01 | 98.95 |
| 91.0-92.0 | 0.5 | 0.1 | 543.7 | 0.01 | 98.96 |
| 92.0-93.0 | 0.5 | 0.1 | 543.7 | 0.01 | 98.97 |
| 93.0-94.0 | 0.5 | 0.1 | 543.8 | 0.01 | 98.98 |
| 94.0-95.0 | 0.5 | 0.1 | 543.8 | 0.01 | 98.99 |
| 95.0-96.0 | 0.5 | 0.1 | 543.9 | 0.01 | 99.00 |
| 96.0-97.0 | 0.5 | 0.1 | 543.9 | 0.01 | 99.01 |
| 97.0-98.0 | 0.5 | 0.1 | 544.0 | 0.01 | 99.02 |
| 98.0-99.0 | 0.5 | 0.0 | 544.0 | 0.01 | 99.03 |
| 99.0-100.0 | 0.5 | 0.1 | 544.1 | 0.01 | 99.04 |
| 100.0-101.0 | 0.5 | 0.1 | 544.1 | 0.01 | 99.05 |
| 101.0-102.0 | 0.5 | 0.1 | 544.2 | 0.01 | 99.06 |
| 102.0-103.0 | 0.5 | 0.1 | 544.2 | 0.01 | 99.07 |
| 103.0-104.0 | 0.5 | 0.1 | 544.3 | 0.01 | 99.08 |
| 104.0-105.0 | 0.5 | 0.1 | 544.3 | 0.01 | 99.08 |
| 105.0-106.0 | 0.5 | 0.1 | 544.4 | 0.01 | 99.09 |
| 106.0-107.0 | 0.5 | 0.1 | 544.4 | 0.01 | 99.10 |
| 107.0-108.0 | 0.5 | 0.1 | 544.5 | 0.01 | 99.11 |

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.607 m [K=1.0000]
 Humidity: 65
 Inspector:

Zonal Lumen (Continue 3)

| Gamma [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 108.0-109.0 | 0.5 | 0.1 | 544.6 | 0.01 | 99.12 |
| 109.0-110.0 | 0.5 | 0.1 | 544.6 | 0.01 | 99.13 |
| 110.0-111.0 | 0.6 | 0.1 | 544.7 | 0.01 | 99.14 |
| 111.0-112.0 | 0.6 | 0.1 | 544.7 | 0.01 | 99.16 |
| 112.0-113.0 | 0.6 | 0.1 | 544.8 | 0.01 | 99.17 |
| 113.0-114.0 | 0.6 | 0.1 | 544.9 | 0.01 | 99.18 |
| 114.0-115.0 | 0.6 | 0.1 | 544.9 | 0.01 | 99.19 |
| 115.0-116.0 | 0.7 | 0.1 | 545.0 | 0.01 | 99.20 |
| 116.0-117.0 | 0.7 | 0.1 | 545.1 | 0.01 | 99.21 |
| 117.0-118.0 | 0.8 | 0.1 | 545.1 | 0.01 | 99.23 |
| 118.0-119.0 | 0.8 | 0.1 | 545.2 | 0.01 | 99.24 |
| 119.0-120.0 | 0.8 | 0.1 | 545.3 | 0.01 | 99.26 |
| 120.0-121.0 | 0.8 | 0.1 | 545.4 | 0.01 | 99.27 |
| 121.0-122.0 | 0.9 | 0.1 | 545.4 | 0.01 | 99.29 |
| 122.0-123.0 | 0.9 | 0.1 | 545.5 | 0.01 | 99.30 |
| 123.0-124.0 | 0.9 | 0.1 | 545.6 | 0.01 | 99.31 |
| 124.0-125.0 | 0.9 | 0.1 | 545.7 | 0.01 | 99.33 |
| 125.0-126.0 | 0.9 | 0.1 | 545.8 | 0.01 | 99.34 |
| 126.0-127.0 | 0.9 | 0.1 | 545.9 | 0.01 | 99.36 |
| 127.0-128.0 | 1.0 | 0.1 | 545.9 | 0.02 | 99.37 |
| 128.0-129.0 | 1.0 | 0.1 | 546.0 | 0.02 | 99.39 |
| 129.0-130.0 | 1.0 | 0.1 | 546.1 | 0.02 | 99.41 |
| 130.0-131.0 | 1.0 | 0.1 | 546.2 | 0.02 | 99.42 |
| 131.0-132.0 | 1.1 | 0.1 | 546.3 | 0.02 | 99.44 |
| 132.0-133.0 | 1.1 | 0.1 | 546.4 | 0.02 | 99.45 |
| 133.0-134.0 | 1.1 | 0.1 | 546.5 | 0.02 | 99.47 |
| 134.0-135.0 | 1.1 | 0.1 | 546.5 | 0.02 | 99.49 |
| 135.0-136.0 | 1.2 | 0.1 | 546.6 | 0.02 | 99.50 |
| 136.0-137.0 | 1.2 | 0.1 | 546.7 | 0.02 | 99.52 |
| 137.0-138.0 | 1.2 | 0.1 | 546.8 | 0.02 | 99.53 |
| 138.0-139.0 | 1.3 | 0.1 | 546.9 | 0.02 | 99.55 |
| 139.0-140.0 | 1.3 | 0.1 | 547.0 | 0.02 | 99.57 |
| 140.0-141.0 | 1.3 | 0.1 | 547.1 | 0.02 | 99.58 |
| 141.0-142.0 | 1.3 | 0.1 | 547.2 | 0.02 | 99.60 |
| 142.0-143.0 | 1.4 | 0.1 | 547.3 | 0.02 | 99.62 |
| 143.0-144.0 | 1.4 | 0.1 | 547.4 | 0.02 | 99.63 |

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen (Continue 4)

| Gamma [°] | Imean [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------|--------------------|------------------------|-----------------------|---------------------------|
| 144.0-145.0 | 1.4 | 0.1 | 547.4 | 0.02 | 99.65 |
| 145.0-146.0 | 1.4 | 0.1 | 547.5 | 0.02 | 99.67 |
| 146.0-147.0 | 1.5 | 0.1 | 547.6 | 0.02 | 99.68 |
| 147.0-148.0 | 1.5 | 0.1 | 547.7 | 0.02 | 99.70 |
| 148.0-149.0 | 1.5 | 0.1 | 547.8 | 0.02 | 99.71 |
| 149.0-150.0 | 1.5 | 0.1 | 547.9 | 0.02 | 99.73 |
| 150.0-151.0 | 1.6 | 0.1 | 548.0 | 0.02 | 99.74 |
| 151.0-152.0 | 1.6 | 0.1 | 548.0 | 0.02 | 99.76 |
| 152.0-153.0 | 1.6 | 0.1 | 548.1 | 0.01 | 99.77 |
| 153.0-154.0 | 1.6 | 0.1 | 548.2 | 0.01 | 99.79 |
| 154.0-155.0 | 1.7 | 0.1 | 548.3 | 0.01 | 99.80 |
| 155.0-156.0 | 1.7 | 0.1 | 548.4 | 0.01 | 99.82 |
| 156.0-157.0 | 1.7 | 0.1 | 548.4 | 0.01 | 99.83 |
| 157.0-158.0 | 1.7 | 0.1 | 548.5 | 0.01 | 99.84 |
| 158.0-159.0 | 1.8 | 0.1 | 548.6 | 0.01 | 99.86 |
| 159.0-160.0 | 1.8 | 0.1 | 548.7 | 0.01 | 99.87 |
| 160.0-161.0 | 1.8 | 0.1 | 548.7 | 0.01 | 99.88 |
| 161.0-162.0 | 1.8 | 0.1 | 548.8 | 0.01 | 99.89 |
| 162.0-163.0 | 1.8 | 0.1 | 548.8 | 0.01 | 99.90 |
| 163.0-164.0 | 1.8 | 0.1 | 548.9 | 0.01 | 99.91 |
| 164.0-165.0 | 1.9 | 0.1 | 549.0 | 0.01 | 99.92 |
| 165.0-166.0 | 1.9 | 0.1 | 549.0 | 0.01 | 99.93 |
| 166.0-167.0 | 1.9 | 0.0 | 549.1 | 0.01 | 99.94 |
| 167.0-168.0 | 1.9 | 0.0 | 549.1 | 0.01 | 99.95 |
| 168.0-169.0 | 1.9 | 0.0 | 549.1 | 0.01 | 99.96 |
| 169.0-170.0 | 1.9 | 0.0 | 549.2 | 0.01 | 99.97 |
| 170.0-171.0 | 2.0 | 0.0 | 549.2 | 0.01 | 99.97 |
| 171.0-172.0 | 2.0 | 0.0 | 549.2 | 0.01 | 99.98 |
| 172.0-173.0 | 2.0 | 0.0 | 549.3 | 0.01 | 99.98 |
| 173.0-174.0 | 2.0 | 0.0 | 549.3 | 0.00 | 99.99 |
| 174.0-175.0 | 2.0 | 0.0 | 549.3 | 0.00 | 99.99 |
| 175.0-176.0 | 2.0 | 0.0 | 549.3 | 0.00 | 99.99 |
| 176.0-177.0 | 2.0 | 0.0 | 549.4 | 0.00 | 100.00 |
| 177.0-178.0 | 2.0 | 0.0 | 549.4 | 0.00 | 100.00 |
| 178.0-179.0 | 2.0 | 0.0 | 549.4 | 0.00 | 100.00 |
| 179.0-180.0 | 2.0 | 0.0 | 549.4 | 0.00 | 100.00 |

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 332.27 lm

%lum = 60.5%

%lamp = 60.5%

cone flux(120°): 451.92 lm

%lum = 82.3%

%lamp = 82.3%

Candlepower Table

Unit: cd

| G\C | C0.0 | C90.0 | C180.0 | C270.0 | C360.0 | | | | | |
|-------|-------|-------|--------|--------|--------|--|--|--|--|--|
| G0.0 | 248.5 | 248.5 | 248.5 | 248.5 | 248.5 | | | | | |
| G1.0 | 248.4 | 248.5 | 248.4 | 248.4 | 248.4 | | | | | |
| G2.0 | 248.1 | 248.4 | 248.0 | 247.9 | 248.1 | | | | | |
| G3.0 | 247.5 | 248.3 | 247.5 | 247.6 | 247.5 | | | | | |
| G4.0 | 246.7 | 247.7 | 246.7 | 247.0 | 246.7 | | | | | |
| G5.0 | 245.7 | 247.0 | 245.5 | 246.4 | 245.7 | | | | | |
| G6.0 | 245.0 | 245.3 | 244.3 | 245.5 | 245.0 | | | | | |
| G7.0 | 244.4 | 244.3 | 243.1 | 244.6 | 244.4 | | | | | |
| G8.0 | 244.1 | 243.4 | 242.0 | 244.5 | 244.1 | | | | | |
| G9.0 | 243.8 | 242.3 | 241.2 | 243.4 | 243.8 | | | | | |
| G10.0 | 243.4 | 241.3 | 240.4 | 242.5 | 243.4 | | | | | |
| G11.0 | 242.9 | 240.2 | 239.5 | 240.9 | 242.9 | | | | | |
| G12.0 | 242.1 | 238.9 | 238.6 | 239.9 | 242.1 | | | | | |
| G13.0 | 241.0 | 237.5 | 237.4 | 238.9 | 241.0 | | | | | |
| G14.0 | 239.8 | 235.9 | 235.9 | 237.9 | 239.8 | | | | | |
| G15.0 | 238.3 | 234.0 | 234.1 | 236.6 | 238.3 | | | | | |
| G16.0 | 236.5 | 232.2 | 231.8 | 235.3 | 236.5 | | | | | |
| G17.0 | 234.3 | 230.2 | 229.5 | 233.8 | 234.3 | | | | | |
| G18.0 | 232.1 | 228.2 | 226.9 | 231.6 | 232.1 | | | | | |
| G19.0 | 230.0 | 225.9 | 224.0 | 229.7 | 230.0 | | | | | |
| G20.0 | 227.8 | 223.5 | 221.3 | 227.3 | 227.8 | | | | | |
| G21.0 | 225.5 | 220.9 | 218.7 | 225.2 | 225.5 | | | | | |
| G22.0 | 223.3 | 217.4 | 216.1 | 222.6 | 223.3 | | | | | |
| G23.0 | 220.7 | 214.3 | 213.1 | 219.5 | 220.7 | | | | | |
| G24.0 | 217.6 | 210.9 | 210.1 | 216.1 | 217.6 | | | | | |
| G25.0 | 214.5 | 207.0 | 206.8 | 212.9 | 214.5 | | | | | |
| G26.0 | 211.2 | 203.1 | 202.5 | 208.9 | 211.2 | | | | | |
| G27.0 | 207.6 | 199.1 | 197.9 | 205.8 | 207.6 | | | | | |
| G28.0 | 203.7 | 194.8 | 192.5 | 201.6 | 203.7 | | | | | |
| G29.0 | 198.8 | 189.9 | 185.8 | 196.5 | 198.8 | | | | | |
| G30.0 | 193.9 | 184.3 | 179.4 | 190.9 | 193.9 | | | | | |
| G31.0 | 188.5 | 177.7 | 173.3 | 185.4 | 188.5 | | | | | |
| G32.0 | 182.4 | 172.0 | 167.8 | 179.3 | 182.4 | | | | | |
| G33.0 | 176.8 | 165.6 | 162.7 | 173.7 | 176.8 | | | | | |
| G34.0 | 170.8 | 160.0 | 157.6 | 168.0 | 170.8 | | | | | |
| G35.0 | 165.6 | 154.7 | 153.1 | 162.7 | 165.6 | | | | | |
| G36.0 | 160.4 | 149.6 | 148.8 | 157.1 | 160.4 | | | | | |

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.607 m [K=1.0000]
 Humidity: 65
 Inspector:

Candlepower Table (Continue 1)

Unit: cd

| G\C | C0.0 | C90.0 | C180.0 | C270.0 | C360.0 | | | | | |
|-------|-------|-------|--------|--------|--------|--|--|--|--|--|
| G37.0 | 154.8 | 144.4 | 144.1 | 152.5 | 154.8 | | | | | |
| G38.0 | 149.8 | 140.0 | 140.0 | 148.0 | 149.8 | | | | | |
| G39.0 | 144.8 | 135.6 | 136.1 | 143.3 | 144.8 | | | | | |
| G40.0 | 140.2 | 131.5 | 132.2 | 139.3 | 140.2 | | | | | |
| G41.0 | 135.4 | 127.5 | 128.8 | 135.4 | 135.4 | | | | | |
| G42.0 | 131.5 | 123.6 | 125.4 | 131.3 | 131.5 | | | | | |
| G43.0 | 127.9 | 119.9 | 122.1 | 127.5 | 127.9 | | | | | |
| G44.0 | 124.3 | 115.4 | 118.5 | 123.9 | 124.3 | | | | | |
| G45.0 | 121.2 | 111.7 | 115.1 | 119.9 | 121.2 | | | | | |
| G46.0 | 118.0 | 108.1 | 111.8 | 116.4 | 118.0 | | | | | |
| G47.0 | 114.4 | 104.5 | 108.2 | 113.0 | 114.4 | | | | | |
| G48.0 | 111.1 | 100.8 | 104.9 | 109.5 | 111.1 | | | | | |
| G49.0 | 107.6 | 97.5 | 101.7 | 106.4 | 107.6 | | | | | |
| G50.0 | 104.2 | 94.2 | 98.3 | 103.4 | 104.2 | | | | | |
| G51.0 | 100.7 | 90.9 | 95.3 | 100.2 | 100.7 | | | | | |
| G52.0 | 97.2 | 87.3 | 92.3 | 97.3 | 97.2 | | | | | |
| G53.0 | 94.3 | 84.2 | 89.1 | 94.4 | 94.3 | | | | | |
| G54.0 | 91.6 | 81.2 | 86.2 | 91.6 | 91.6 | | | | | |
| G55.0 | 88.9 | 78.1 | 83.1 | 88.5 | 88.9 | | | | | |
| G56.0 | 85.8 | 75.5 | 80.4 | 85.7 | 85.8 | | | | | |
| G57.0 | 82.6 | 73.1 | 77.5 | 82.9 | 82.6 | | | | | |
| G58.0 | 79.4 | 70.5 | 74.8 | 79.8 | 79.4 | | | | | |
| G59.0 | 76.2 | 68.2 | 71.8 | 77.0 | 76.2 | | | | | |
| G60.0 | 73.4 | 65.9 | 69.0 | 74.2 | 73.4 | | | | | |
| G61.0 | 70.8 | 63.2 | 66.2 | 71.1 | 70.8 | | | | | |
| G62.0 | 68.3 | 60.3 | 63.5 | 68.3 | 68.3 | | | | | |
| G63.0 | 65.0 | 57.8 | 60.4 | 65.5 | 65.0 | | | | | |
| G64.0 | 62.1 | 55.2 | 57.6 | 62.4 | 62.1 | | | | | |
| G65.0 | 59.0 | 52.7 | 54.6 | 59.6 | 59.0 | | | | | |
| G66.0 | 56.1 | 50.0 | 51.7 | 56.7 | 56.1 | | | | | |
| G67.0 | 53.4 | 47.5 | 48.9 | 53.5 | 53.4 | | | | | |
| G68.0 | 50.6 | 44.9 | 45.8 | 50.6 | 50.6 | | | | | |
| G69.0 | 47.8 | 42.1 | 43.0 | 47.7 | 47.8 | | | | | |
| G70.0 | 45.5 | 39.5 | 40.1 | 44.7 | 45.5 | | | | | |
| G71.0 | 42.9 | 36.8 | 37.3 | 41.7 | 42.9 | | | | | |
| G72.0 | 39.9 | 34.0 | 34.5 | 38.6 | 39.9 | | | | | |
| G73.0 | 37.1 | 31.4 | 31.4 | 35.6 | 37.1 | | | | | |

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.607 m [K=1.0000]
 Humidity: 65
 Inspector:

Candlepower Table (Continue 2)

Unit: cd

| G\C | C0.0 | C90.0 | C180.0 | C270.0 | C360.0 | | | | | |
|--------|------|-------|--------|--------|--------|--|--|--|--|--|
| G74.0 | 34.3 | 28.8 | 28.7 | 32.6 | 34.3 | | | | | |
| G75.0 | 31.6 | 26.3 | 25.9 | 29.5 | 31.6 | | | | | |
| G76.0 | 28.5 | 23.7 | 23.0 | 26.2 | 28.5 | | | | | |
| G77.0 | 25.9 | 21.1 | 20.3 | 23.2 | 25.9 | | | | | |
| G78.0 | 23.2 | 18.6 | 17.7 | 20.2 | 23.2 | | | | | |
| G79.0 | 20.6 | 16.0 | 15.2 | 17.0 | 20.6 | | | | | |
| G80.0 | 18.1 | 13.6 | 12.5 | 14.4 | 18.1 | | | | | |
| G81.0 | 15.6 | 11.4 | 10.1 | 11.9 | 15.6 | | | | | |
| G82.0 | 13.0 | 9.2 | 7.9 | 9.6 | 13.0 | | | | | |
| G83.0 | 10.7 | 7.2 | 5.8 | 7.6 | 10.7 | | | | | |
| G84.0 | 8.5 | 5.3 | 3.9 | 5.8 | 8.5 | | | | | |
| G85.0 | 6.4 | 3.5 | 2.4 | 4.2 | 6.4 | | | | | |
| G86.0 | 4.5 | 2.2 | 1.5 | 2.9 | 4.5 | | | | | |
| G87.0 | 3.0 | 1.4 | 0.9 | 1.9 | 3.0 | | | | | |
| G88.0 | 1.9 | 0.9 | 0.6 | 1.1 | 1.9 | | | | | |
| G89.0 | 1.2 | 0.6 | 0.6 | 0.7 | 1.2 | | | | | |
| G90.0 | 0.8 | 0.6 | 0.6 | 0.5 | 0.8 | | | | | |
| G91.0 | 0.7 | 0.5 | 0.5 | 0.4 | 0.7 | | | | | |
| G92.0 | 0.7 | 0.5 | 0.5 | 0.4 | 0.7 | | | | | |
| G93.0 | 0.6 | 0.5 | 0.5 | 0.4 | 0.6 | | | | | |
| G94.0 | 0.6 | 0.5 | 0.5 | 0.3 | 0.6 | | | | | |
| G95.0 | 0.6 | 0.5 | 0.5 | 0.3 | 0.6 | | | | | |
| G96.0 | 0.6 | 0.5 | 0.5 | 0.3 | 0.6 | | | | | |
| G97.0 | 0.6 | 0.5 | 0.5 | 0.3 | 0.6 | | | | | |
| G98.0 | 0.5 | 0.5 | 0.5 | 0.3 | 0.5 | | | | | |
| G99.0 | 0.5 | 0.5 | 0.5 | 0.3 | 0.5 | | | | | |
| G100.0 | 0.6 | 0.5 | 0.5 | 0.3 | 0.6 | | | | | |
| G101.0 | 0.5 | 0.5 | 0.5 | 0.3 | 0.5 | | | | | |
| G102.0 | 0.6 | 0.5 | 0.5 | 0.4 | 0.6 | | | | | |
| G103.0 | 0.5 | 0.5 | 0.5 | 0.4 | 0.5 | | | | | |
| G104.0 | 0.6 | 0.5 | 0.5 | 0.4 | 0.6 | | | | | |
| G105.0 | 0.5 | 0.6 | 0.5 | 0.4 | 0.5 | | | | | |
| G106.0 | 0.5 | 0.6 | 0.5 | 0.4 | 0.5 | | | | | |
| G107.0 | 0.5 | 0.6 | 0.5 | 0.4 | 0.5 | | | | | |
| G108.0 | 0.5 | 0.6 | 0.5 | 0.4 | 0.5 | | | | | |
| G109.0 | 0.5 | 0.6 | 0.6 | 0.5 | 0.5 | | | | | |
| G110.0 | 0.5 | 0.7 | 0.6 | 0.5 | 0.5 | | | | | |

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.607 m [K=1.0000]
 Humidity: 65
 Inspector:

Candlepower Table (Continue 3)

Unit: cd

| G\C | C0.0 | C90.0 | C180.0 | C270.0 | C360.0 | | | | | |
|--------|------|-------|--------|--------|--------|--|--|--|--|--|
| G111.0 | 0.6 | 0.7 | 0.6 | 0.5 | 0.6 | | | | | |
| G112.0 | 0.5 | 0.7 | 0.6 | 0.5 | 0.5 | | | | | |
| G113.0 | 0.6 | 0.7 | 0.6 | 0.6 | 0.6 | | | | | |
| G114.0 | 0.6 | 0.7 | 0.6 | 0.6 | 0.6 | | | | | |
| G115.0 | 0.6 | 0.8 | 0.7 | 0.6 | 0.6 | | | | | |
| G116.0 | 0.7 | 0.8 | 0.7 | 0.6 | 0.7 | | | | | |
| G117.0 | 0.8 | 0.8 | 0.7 | 0.6 | 0.8 | | | | | |
| G118.0 | 0.9 | 0.8 | 0.7 | 0.7 | 0.9 | | | | | |
| G119.0 | 0.9 | 0.9 | 0.8 | 0.7 | 0.9 | | | | | |
| G120.0 | 1.0 | 0.9 | 0.8 | 0.7 | 1.0 | | | | | |
| G121.0 | 1.0 | 0.9 | 0.8 | 0.7 | 1.0 | | | | | |
| G122.0 | 1.0 | 0.9 | 0.8 | 0.8 | 1.0 | | | | | |
| G123.0 | 1.0 | 0.9 | 0.8 | 0.8 | 1.0 | | | | | |
| G124.0 | 1.0 | 0.9 | 0.9 | 0.8 | 1.0 | | | | | |
| G125.0 | 0.9 | 1.0 | 0.9 | 0.8 | 0.9 | | | | | |
| G126.0 | 0.8 | 1.0 | 0.9 | 0.9 | 0.8 | | | | | |
| G127.0 | 0.9 | 1.0 | 0.9 | 0.9 | 0.9 | | | | | |
| G128.0 | 0.9 | 1.0 | 1.0 | 0.9 | 0.9 | | | | | |
| G129.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | | | | | |
| G130.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | | | | | |
| G131.0 | 1.0 | 1.1 | 1.1 | 1.0 | 1.0 | | | | | |
| G132.0 | 1.1 | 1.1 | 1.1 | 1.0 | 1.1 | | | | | |
| G133.0 | 1.1 | 1.2 | 1.1 | 1.0 | 1.1 | | | | | |
| G134.0 | 1.1 | 1.2 | 1.1 | 1.1 | 1.1 | | | | | |
| G135.0 | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 | | | | | |
| G136.0 | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 | | | | | |
| G137.0 | 1.2 | 1.3 | 1.2 | 1.1 | 1.2 | | | | | |
| G138.0 | 1.2 | 1.3 | 1.2 | 1.2 | 1.2 | | | | | |
| G139.0 | 1.3 | 1.3 | 1.3 | 1.2 | 1.3 | | | | | |
| G140.0 | 1.3 | 1.3 | 1.3 | 1.2 | 1.3 | | | | | |
| G141.0 | 1.3 | 1.4 | 1.3 | 1.2 | 1.3 | | | | | |
| G142.0 | 1.3 | 1.4 | 1.4 | 1.3 | 1.3 | | | | | |
| G143.0 | 1.4 | 1.4 | 1.4 | 1.3 | 1.4 | | | | | |
| G144.0 | 1.4 | 1.4 | 1.4 | 1.3 | 1.4 | | | | | |
| G145.0 | 1.4 | 1.5 | 1.4 | 1.4 | 1.4 | | | | | |
| G146.0 | 1.5 | 1.5 | 1.4 | 1.4 | 1.5 | | | | | |
| G147.0 | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | | | | | |

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.607 m [K=1.0000]
 Humidity: 65
 Inspector:

Candlepower Table (Continue 4)

Unit: cd

| G\C | C0.0 | C90.0 | C180.0 | C270.0 | C360.0 | | | | | |
|--------|------|-------|--------|--------|--------|--|--|--|--|--|
| G148.0 | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | | | | | |
| G149.0 | 1.5 | 1.6 | 1.5 | 1.4 | 1.5 | | | | | |
| G150.0 | 1.6 | 1.6 | 1.5 | 1.5 | 1.6 | | | | | |
| G151.0 | 1.6 | 1.6 | 1.6 | 1.5 | 1.6 | | | | | |
| G152.0 | 1.6 | 1.6 | 1.6 | 1.5 | 1.6 | | | | | |
| G153.0 | 1.7 | 1.7 | 1.6 | 1.5 | 1.7 | | | | | |
| G154.0 | 1.7 | 1.7 | 1.7 | 1.6 | 1.7 | | | | | |
| G155.0 | 1.8 | 1.7 | 1.7 | 1.6 | 1.8 | | | | | |
| G156.0 | 1.8 | 1.7 | 1.7 | 1.6 | 1.8 | | | | | |
| G157.0 | 1.8 | 1.7 | 1.7 | 1.6 | 1.8 | | | | | |
| G158.0 | 1.8 | 1.8 | 1.7 | 1.7 | 1.8 | | | | | |
| G159.0 | 1.8 | 1.8 | 1.7 | 1.7 | 1.8 | | | | | |
| G160.0 | 1.8 | 1.8 | 1.8 | 1.7 | 1.8 | | | | | |
| G161.0 | 1.9 | 1.8 | 1.8 | 1.8 | 1.9 | | | | | |
| G162.0 | 1.9 | 1.9 | 1.8 | 1.8 | 1.9 | | | | | |
| G163.0 | 1.8 | 1.9 | 1.8 | 1.8 | 1.8 | | | | | |
| G164.0 | 1.8 | 1.9 | 1.9 | 1.8 | 1.8 | | | | | |
| G165.0 | 1.8 | 1.9 | 1.9 | 1.8 | 1.8 | | | | | |
| G166.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | | | | | |
| G167.0 | 1.9 | 2.0 | 1.9 | 1.9 | 1.9 | | | | | |
| G168.0 | 1.9 | 2.0 | 1.9 | 1.9 | 1.9 | | | | | |
| G169.0 | 1.9 | 2.0 | 1.9 | 1.9 | 1.9 | | | | | |
| G170.0 | 1.9 | 2.0 | 2.0 | 1.9 | 1.9 | | | | | |
| G171.0 | 1.9 | 2.0 | 2.0 | 2.0 | 1.9 | | | | | |
| G172.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | | | | | |
| G173.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | | | | | |
| G174.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | | | | | |
| G175.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | | | | | |
| G176.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | | | | | |
| G177.0 | 2.1 | 2.0 | 2.0 | 2.0 | 2.1 | | | | | |
| G178.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | | | | | |
| G179.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | | | | | |
| G180.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.607 m [K=1.0000]
 Humidity: 65
 Inspector:

LED Average Luminance Report

| Avg.L | cd/m ² |
|-----------------|-------------------|
| L 0-180(65) av | 1.#J |
| L 0-180(75) av | 1.#J |
| L 0-180(85) av | 1.#J |
| L 90-270(65) av | 1.#J |
| L 90-270(75) av | 1.#J |
| L 90-270(85) av | 1.#J |
| L 45(65) av | 1.#J |
| L 45(75) av | 1.#J |
| L 45(85) av | 1.#J |

Standard: GB/T 29293-2012