

Report No.: TH-4718A

Test Time: 2024/1/17 18:04

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog:

Number of Lamps:

Luminous Length (mm): -150

Luminous Height (mm):

Current: 0.135 A

Power Factor: 0.993

Luminaire Description: OJL608

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): -150

Voltage: 120.0 V

Power: 16.10 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 1951.7 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H98.3

Vertical Diffuse Angle(50%): V99.6

Luminaire Efficacy Rating (LER): 121.28

Max. Intensity: 817.03 cd

S/MH(C0/C180): 1.15

Total Rated Lamp Lumens: 1951.7 lm

Efficiency: 100%

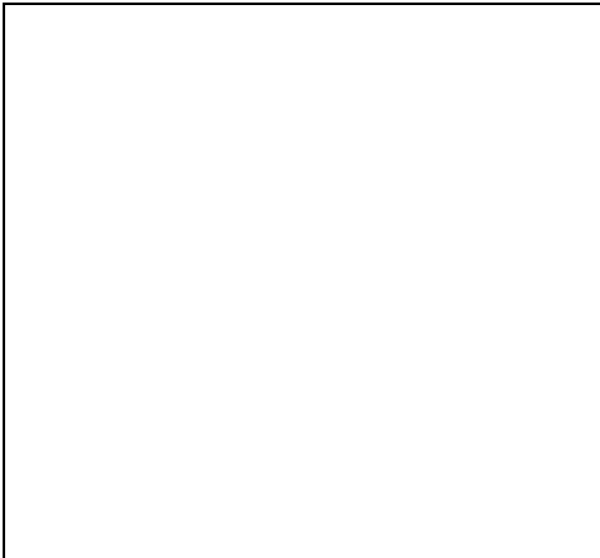
Upward Ratio: 1%

C0r0 Intensity: 816.91 cd

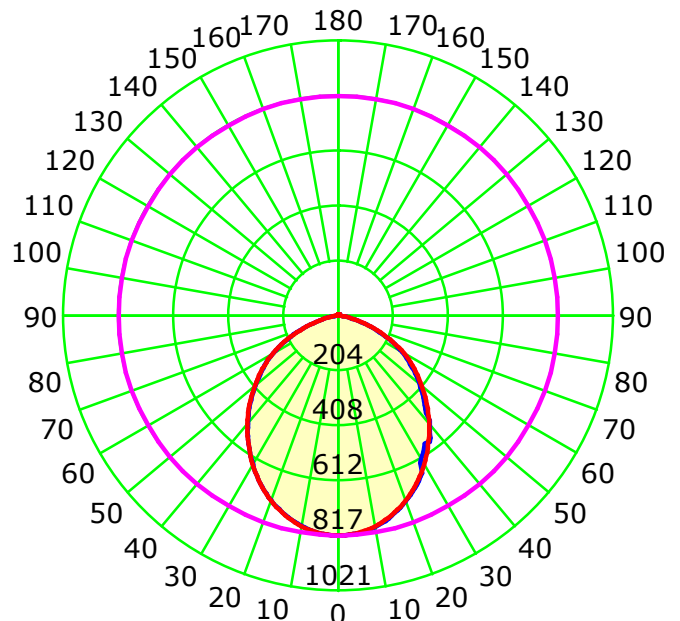
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 1.17

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 98.9°

— C0-C180 — C90-C270 — G1

C Plane (°):0.0-360.0: 90.0

Test Lab: inventfine instruments

Test Type: TYPE C

Temperature: 26

Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0

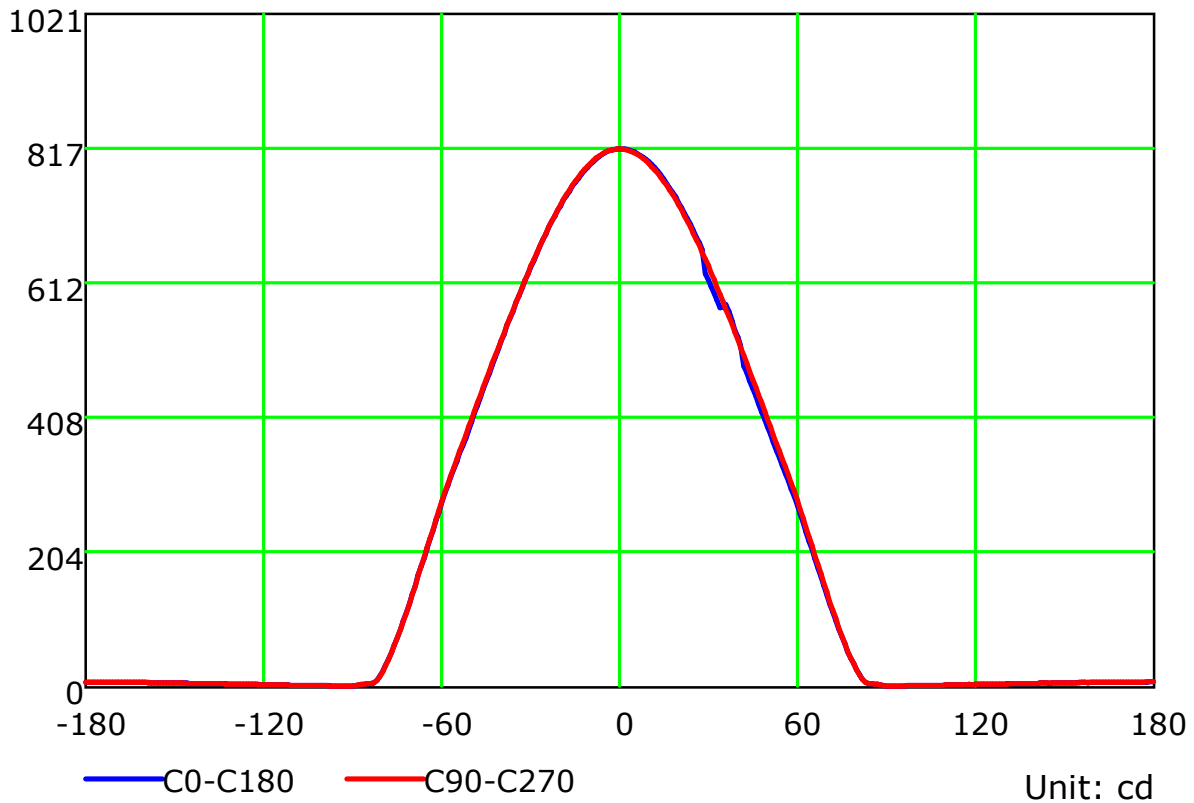
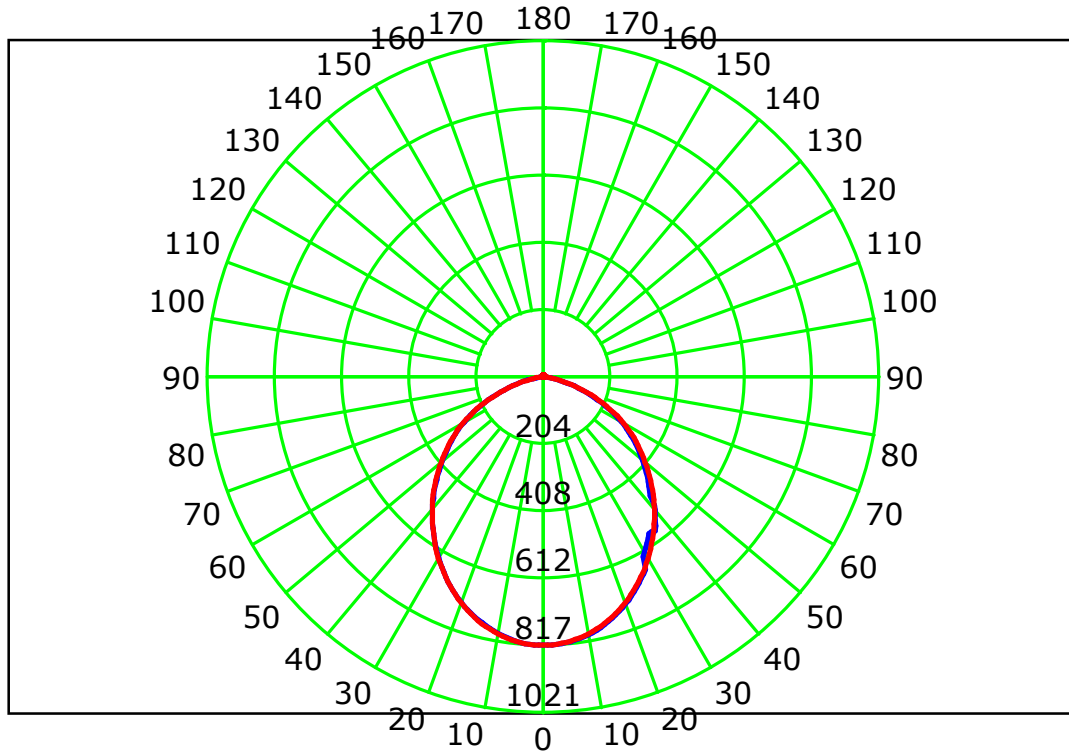
Test Device: GPM-1800B

Distance: 8.684 m [K=1.0000]

Humidity: 65

Inspector:

## Luminous Intensity Distribution Curve



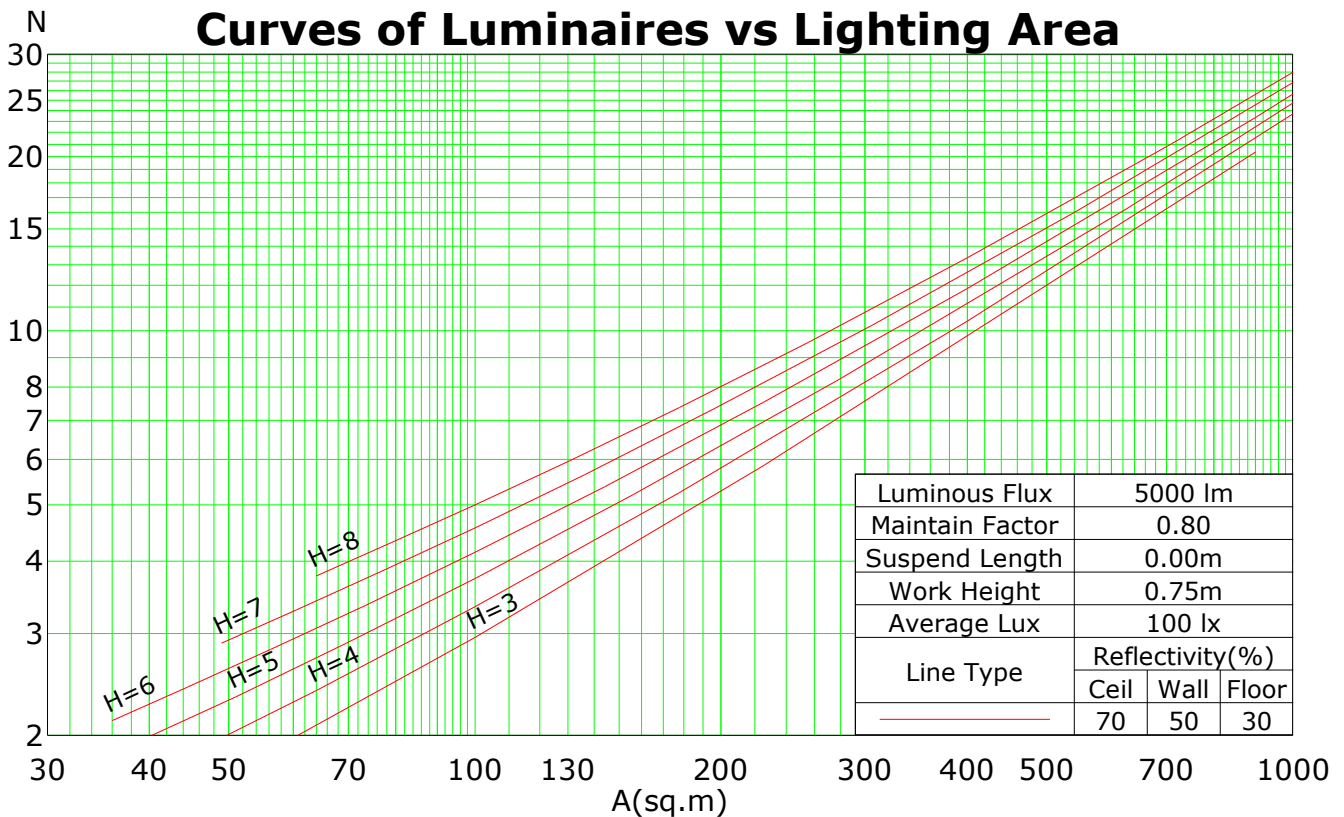
C Plane (°):0.0-360.0: 90.0  
 Test Lab: inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 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   | 1.10     | 1.06 | 1.02 | 0.98 | 1.07 | 1.03 | 1.00 | 0.97 | 0.99 | 0.96 | 0.93 | 0.95 | 0.93 | 0.90 | 0.91 | 0.89 | 0.88 | 0.86 |
| 2   | 1.01     | 0.93 | 0.87 | 0.82 | 0.98 | 0.91 | 0.85 | 0.80 | 0.87 | 0.83 | 0.78 | 0.84 | 0.80 | 0.77 | 0.81 | 0.78 | 0.75 | 0.73 |
| 3   | 0.92     | 0.82 | 0.75 | 0.69 | 0.90 | 0.81 | 0.74 | 0.68 | 0.78 | 0.72 | 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 | 0.69 | 0.63 | 0.57 | 0.67 | 0.61 | 0.57 | 0.65 | 0.60 | 0.56 | 0.54 |
| 5   | 0.78     | 0.66 | 0.57 | 0.51 | 0.76 | 0.65 | 0.57 | 0.51 | 0.62 | 0.55 | 0.50 | 0.60 | 0.54 | 0.49 | 0.59 | 0.53 | 0.49 | 0.47 |
| 6   | 0.72     | 0.59 | 0.51 | 0.45 | 0.70 | 0.58 | 0.50 | 0.45 | 0.57 | 0.49 | 0.44 | 0.55 | 0.48 | 0.44 | 0.53 | 0.48 | 0.43 | 0.41 |
| 7   | 0.67     | 0.54 | 0.46 | 0.40 | 0.65 | 0.53 | 0.45 | 0.40 | 0.52 | 0.44 | 0.39 | 0.50 | 0.44 | 0.39 | 0.49 | 0.43 | 0.39 | 0.37 |
| 8   | 0.63     | 0.49 | 0.41 | 0.36 | 0.61 | 0.49 | 0.41 | 0.35 | 0.47 | 0.40 | 0.35 | 0.46 | 0.40 | 0.35 | 0.45 | 0.39 | 0.35 | 0.33 |
| 9   | 0.59     | 0.46 | 0.38 | 0.32 | 0.57 | 0.45 | 0.37 | 0.32 | 0.44 | 0.37 | 0.32 | 0.43 | 0.36 | 0.32 | 0.41 | 0.36 | 0.31 | 0.30 |
| 10  | 0.55     | 0.42 | 0.34 | 0.29 | 0.54 | 0.42 | 0.34 | 0.29 | 0.40 | 0.34 | 0.29 | 0.39 | 0.33 | 0.29 | 0.39 | 0.33 | 0.29 | 0.27 |

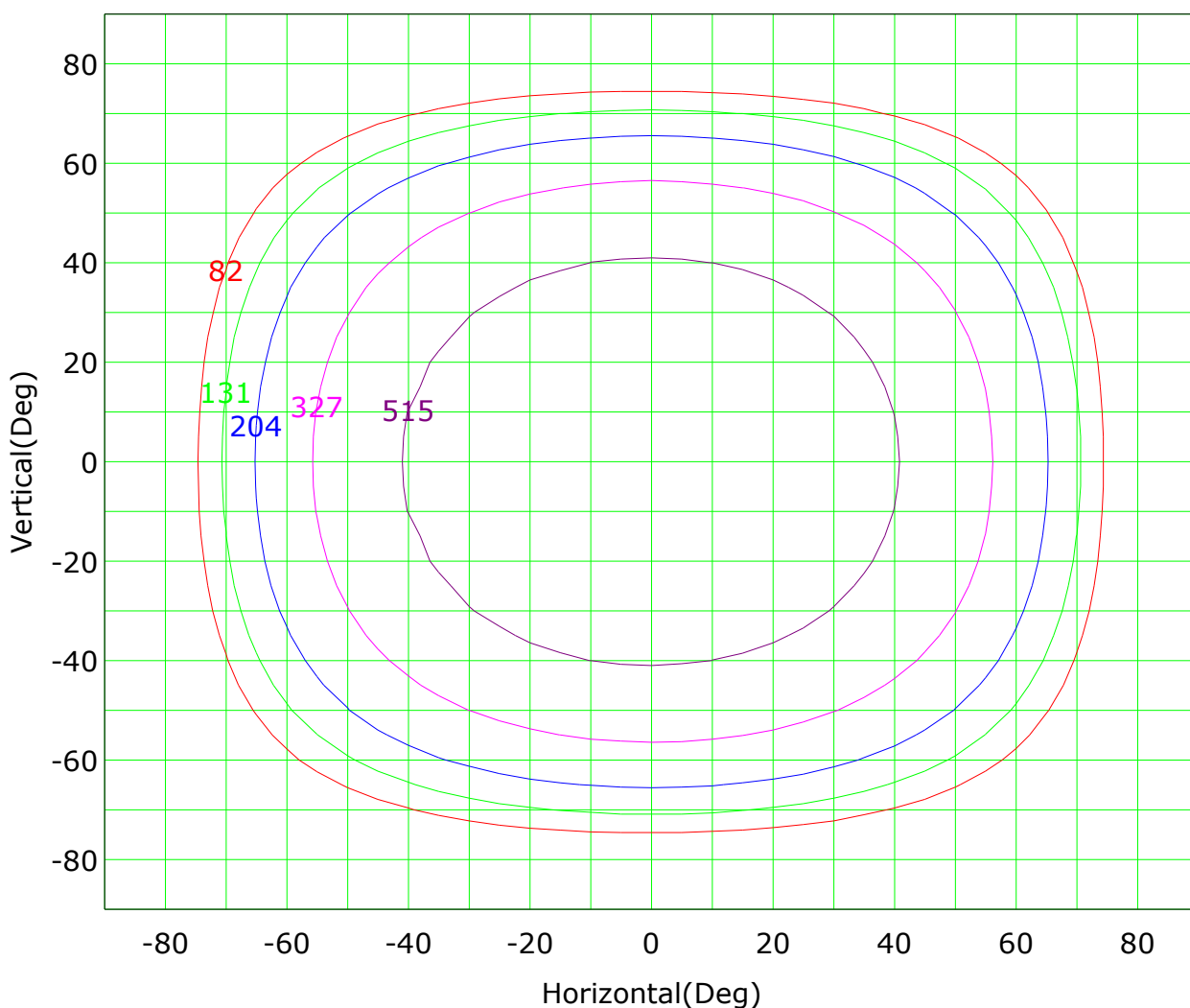
Spacing Criteria (0-180): 1.15  
 Spacing Criteria (90-270): 1.17  
 Spacing Criteria (Diagonal): 1.27



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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## Isocandela (rectangle)



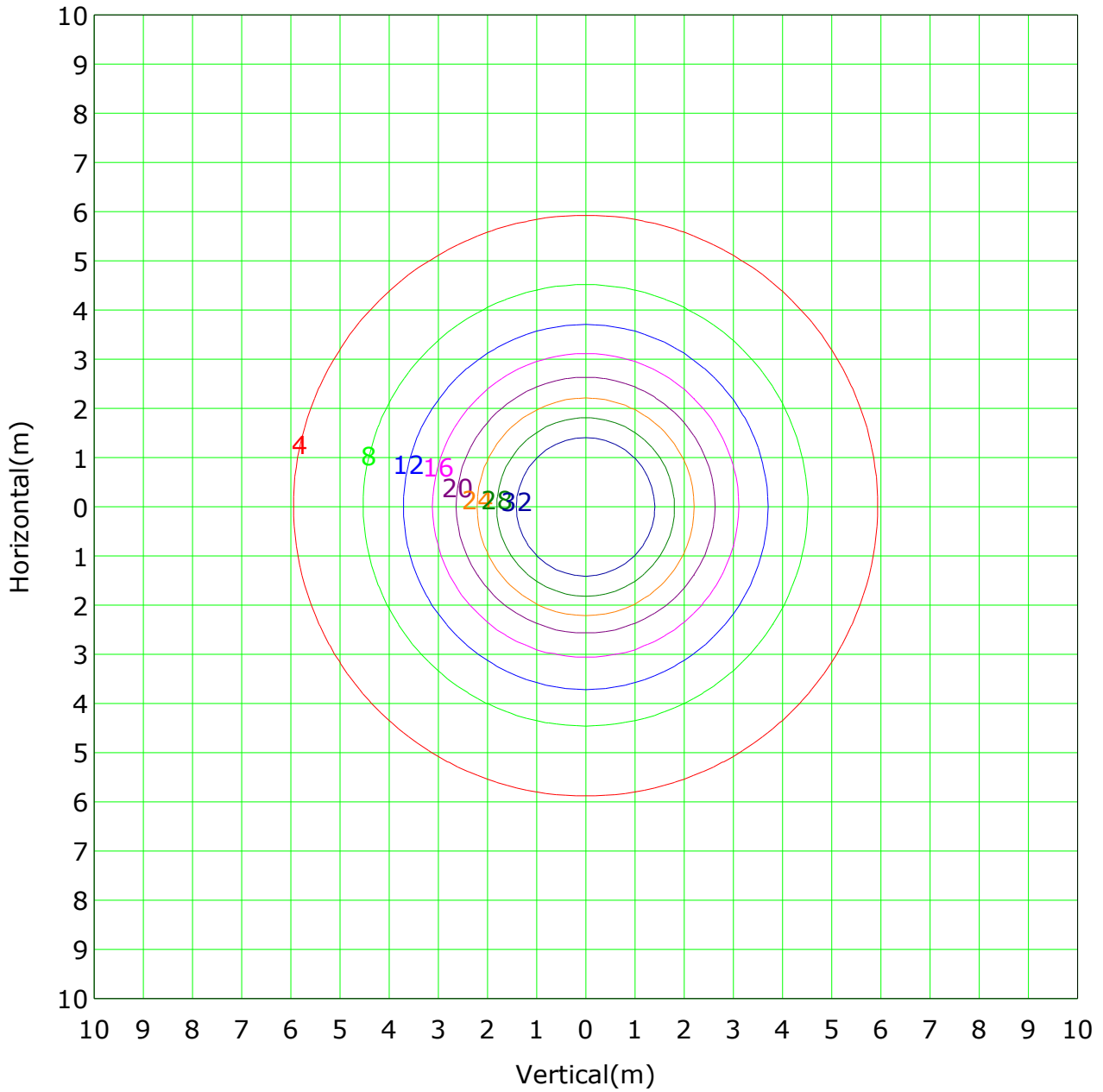
Imax (100%): 817 cd

|                  |                  |
|------------------|------------------|
| — ( 10%): 82 cd  | — ( 16%): 131 cd |
| — ( 25%): 204 cd | — ( 40%): 327 cd |
| — ( 63%): 515 cd | — (100%): 817 cd |

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.684 m [K=1.0000]  
Humidity: 65  
Inspector:

## IsoLux Plot



|                       |         |                        |
|-----------------------|---------|------------------------|
| Mounting Height: 4.5m |         | Max Lux(100%): 40.3 lx |
| — ( 10%):             | 4.0 lx  | — ( 20%): 8.1 lx       |
| — ( 30%):             | 12.1 lx | — ( 40%): 16.1 lx      |
| — ( 50%):             | 20.2 lx | — ( 60%): 24.2 lx      |
| — ( 70%):             | 28.2 lx | — ( 80%): 32.3 lx      |

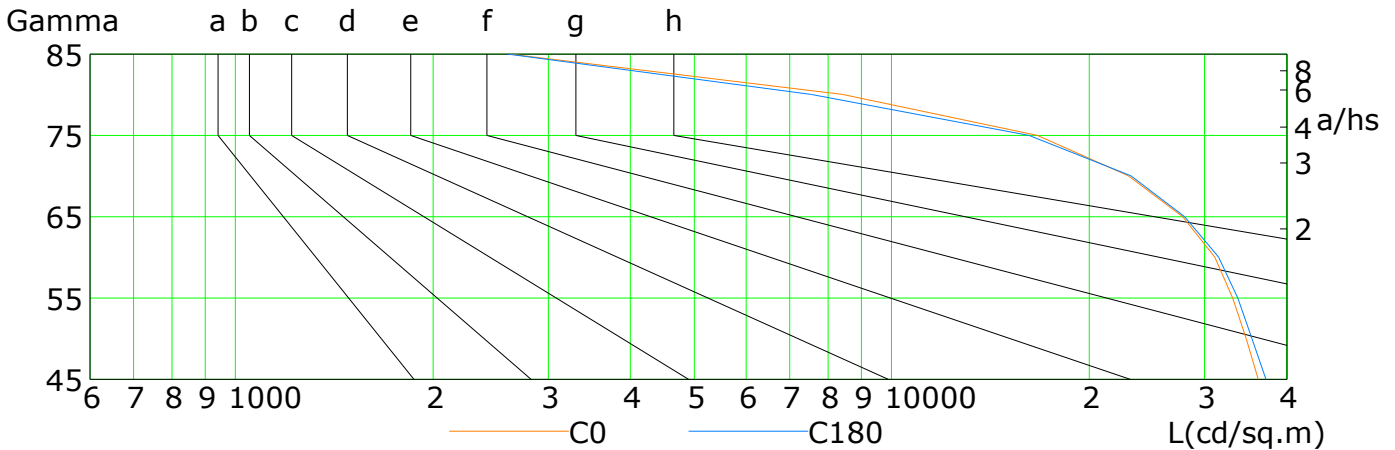
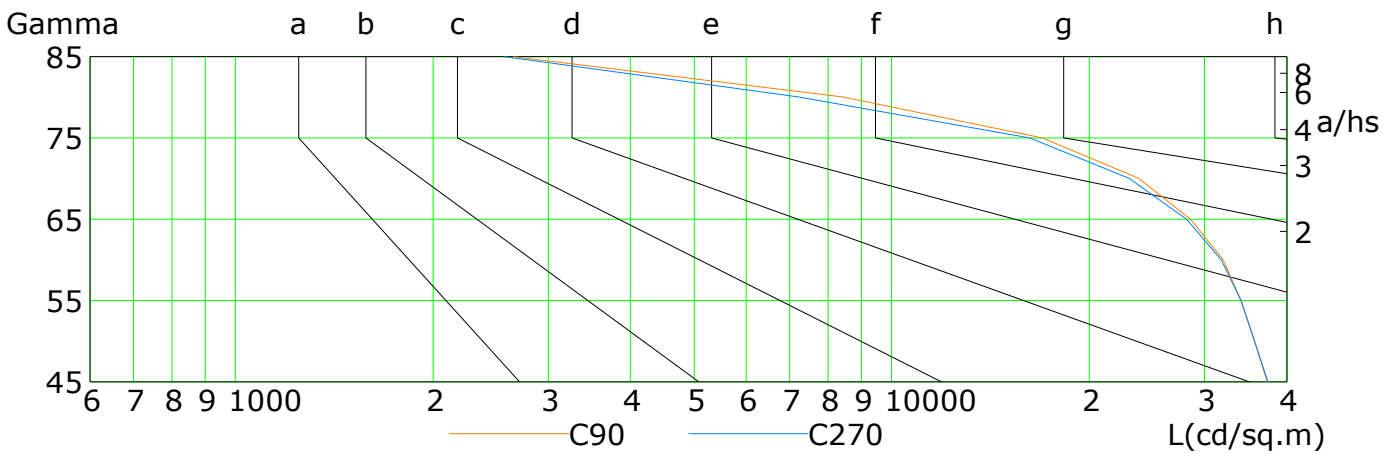
C Plane (°):0.0-360.0: 90.0  
 Test Lab: inventfine instruments  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 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

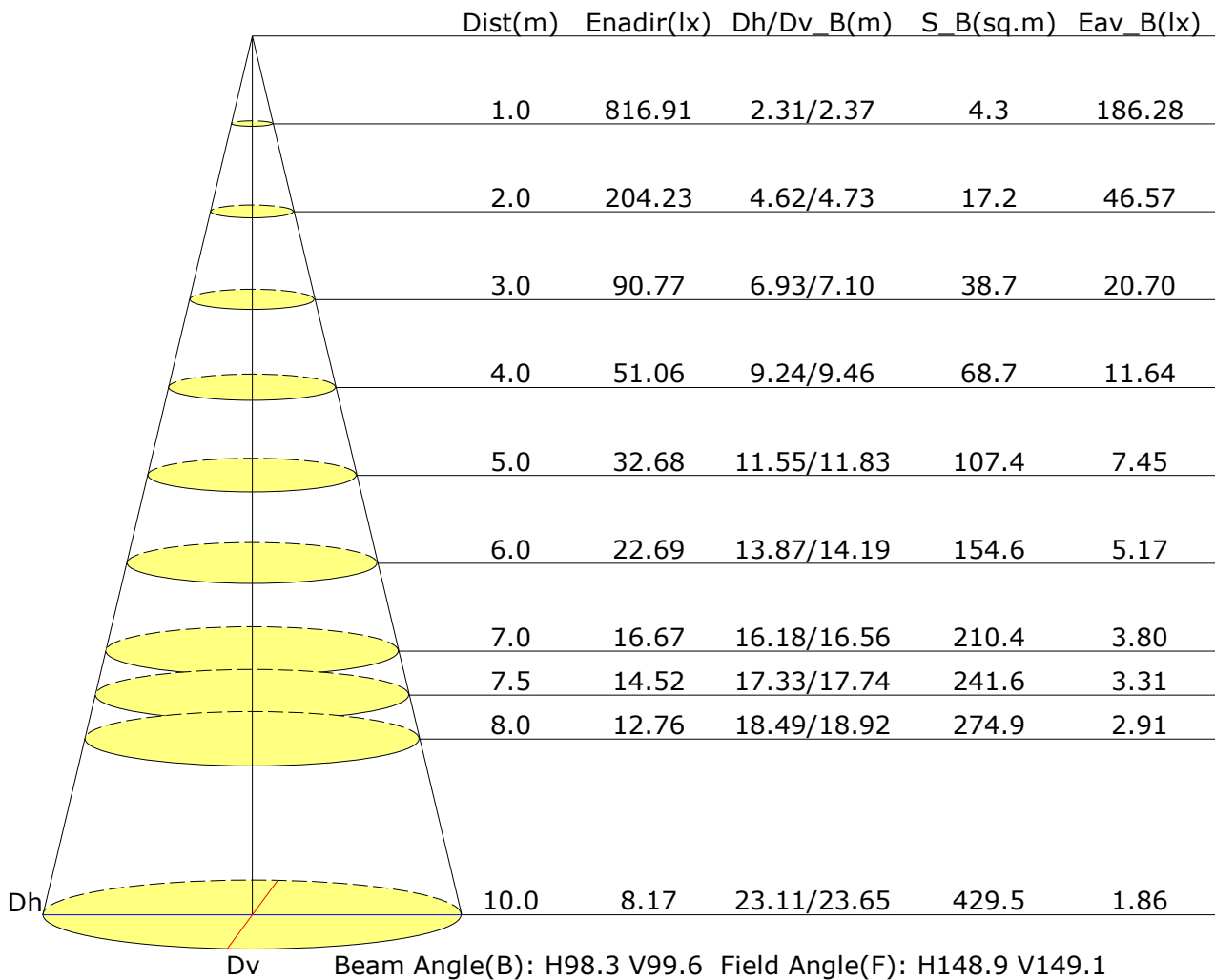


| L(cd/sq.m) | G45   | G50   | G55   | G60   | G65   | G70   | G75   | G80  | G85  |
|------------|-------|-------|-------|-------|-------|-------|-------|------|------|
| C0         | 36198 | 34686 | 33110 | 31068 | 27762 | 22961 | 16673 | 8423 | 2618 |
| C90        | 37323 | 35739 | 34077 | 31970 | 28527 | 23772 | 16963 | 8418 | 2650 |
| C180       | 37161 | 35419 | 33719 | 31522 | 27942 | 23129 | 16182 | 7546 | 2606 |
| C270       | 37420 | 35721 | 34066 | 31789 | 28175 | 23017 | 16227 | 7219 | 2571 |

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Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.684 m [K=1.0000]  
Humidity: 65  
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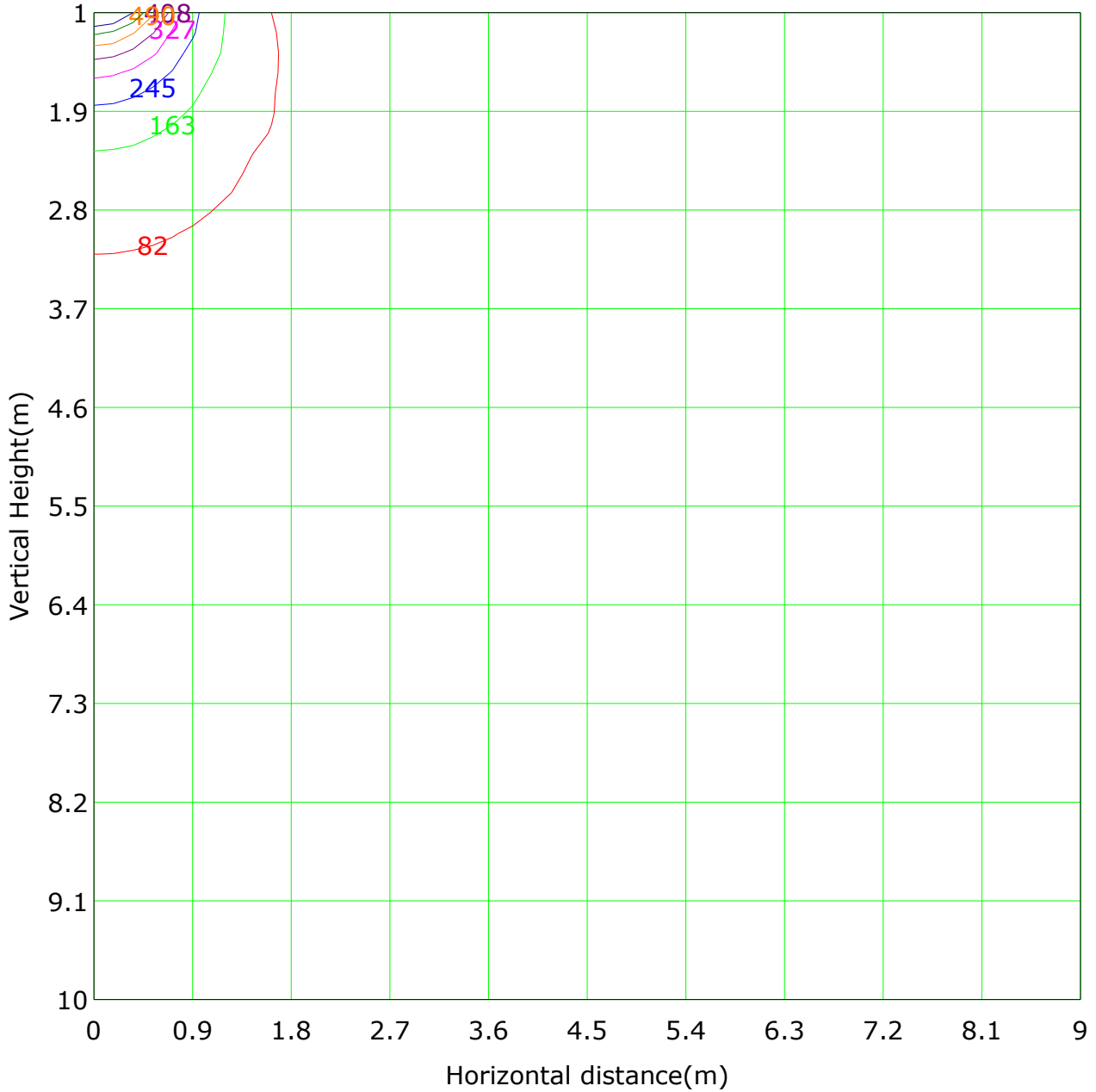
## Illuminance at a Distance



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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## Vertical IsoLux Plot



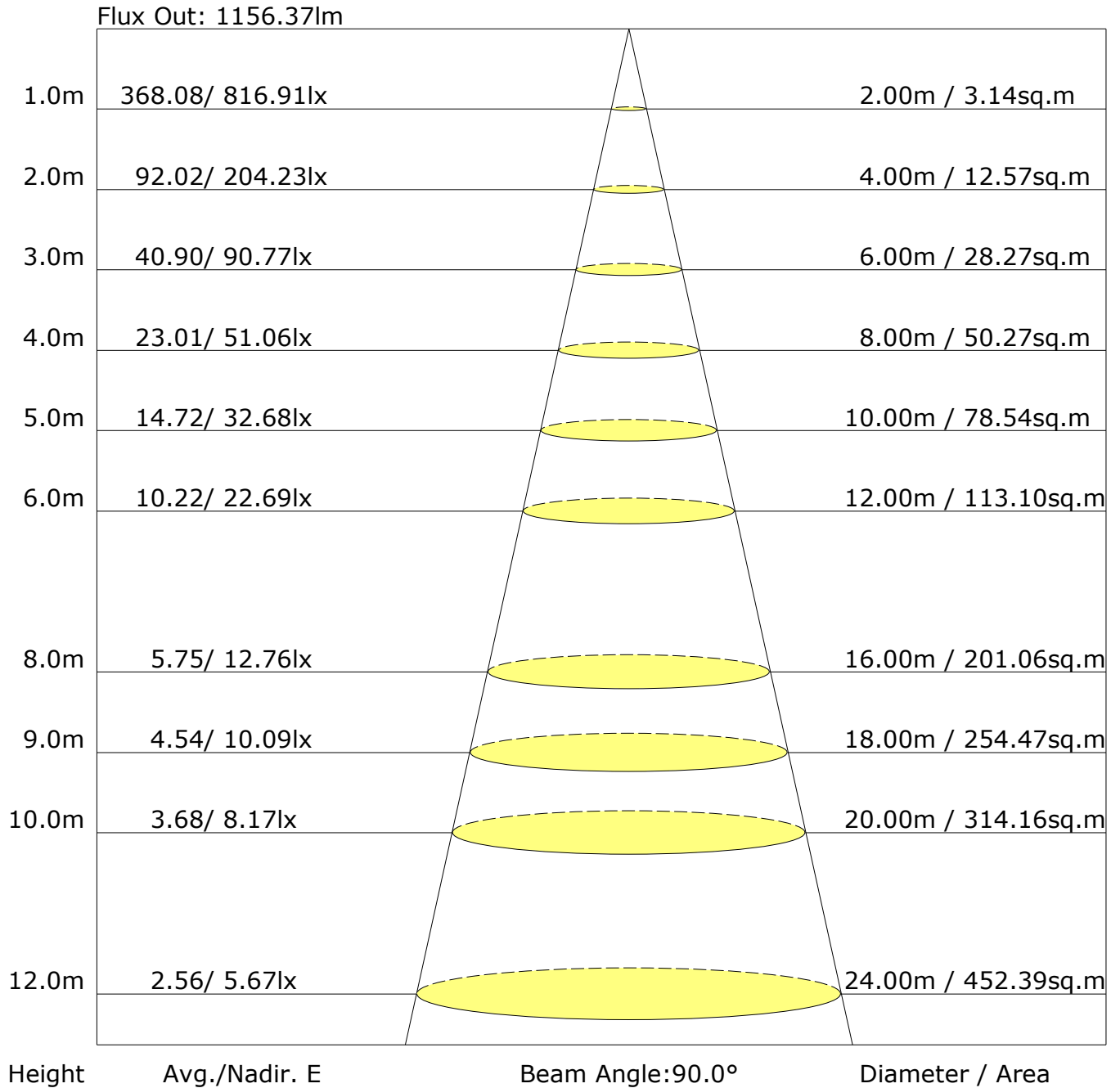
|                    |                    |                   |
|--------------------|--------------------|-------------------|
| Lowest(m): 1.0m    | Highest(m): 10.0m  | Max Lux: 816.9 lx |
| — ( 10%): 81.7 lx  | — ( 20%): 163.4 lx |                   |
| — ( 30%): 245.1 lx | — ( 40%): 326.8 lx |                   |
| — ( 50%): 408.5 lx | — ( 60%): 490.1 lx |                   |
| — ( 70%): 571.8 lx | — ( 80%): 653.5 lx |                   |

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:



## The Average Illuminance Effective Figure



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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 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  | 24.6             | 25.9 | 24.9 | 26.2 | 26.4 | 24.7           | 26.0 | 25.0 | 26.3 | 26.5 |
| 3H   | 25.7             | 26.9 | 26.1 | 27.2 | 27.5 | 25.8           | 27.0 | 26.2 | 27.3 | 27.6 |
| 4H   | 26.0             | 27.1 | 26.4 | 27.4 | 27.7 | 26.1           | 27.2 | 26.5 | 27.5 | 27.8 |
| 6H   | 26.1             | 27.1 | 26.4 | 27.4 | 27.8 | 26.2           | 27.2 | 26.5 | 27.5 | 27.8 |
| 8H   | 26.0             | 27.0 | 26.4 | 27.4 | 27.7 | 26.1           | 27.1 | 26.5 | 27.4 | 27.8 |
| 12H  | 26.0             | 27.0 | 26.4 | 27.3 | 27.7 | 26.1           | 27.0 | 26.5 | 27.4 | 27.7 |
| X=4H Y=2H  | 25.2             | 26.3 | 25.5 | 26.6 | 26.9 | 25.3           | 26.4 | 25.6 | 26.7 | 27.0 |
| 3H   | 26.4             | 27.4 | 26.8 | 27.7 | 28.1 | 26.5           | 27.5 | 26.9 | 27.8 | 28.2 |
| 4H   | 26.8             | 27.6 | 27.2 | 28.0 | 28.4 | 26.9           | 27.7 | 27.3 | 28.1 | 28.5 |
| 6H   | 26.9             | 27.6 | 27.3 | 28.0 | 28.4 | 26.9           | 27.7 | 27.4 | 28.1 | 28.5 |
| 8H   | 26.9             | 27.5 | 27.3 | 28.0 | 28.4 | 26.9           | 27.6 | 27.4 | 28.0 | 28.5 |
| 12H  | 26.8             | 27.4 | 27.3 | 27.9 | 28.3 | 26.9           | 27.5 | 27.4 | 27.9 | 28.4 |
| X=8H Y=4H  | 26.9             | 27.6 | 27.3 | 28.0 | 28.4 | 26.9           | 27.6 | 27.4 | 28.0 | 28.5 |
| 6H   | 27.0             | 27.6 | 27.5 | 28.0 | 28.5 | 27.1           | 27.6 | 27.6 | 28.1 | 28.6 |
| 8H   | 27.0             | 27.5 | 27.5 | 28.0 | 28.5 | 27.1           | 27.5 | 27.6 | 28.0 | 28.5 |
| 12H  | 27.0             | 27.4 | 27.5 | 27.9 | 28.4 | 27.0           | 27.4 | 27.5 | 27.9 | 28.5 |
| X=12H Y=4H   | 26.9             | 27.5 | 27.3 | 27.9 | 28.4 | 26.9           | 27.5 | 27.4 | 28.0 | 28.4 |
| 6H   | 27.0             | 27.5 | 27.5 | 27.9 | 28.5 | 27.1           | 27.5 | 27.6 | 28.0 | 28.5 |
| 8H   | 27.0             | 27.4 | 27.5 | 27.9 | 28.4 | 27.0           | 27.5 | 27.6 | 27.9 | 28.5 |
| Variations with the observer position at spacings: |                  |      |      |      |      |                |      |      |      |      |
| S=1.0H   | +0.2/-0.2        |      |      |      |      | +0.2/-0.2      |      |      |      |      |
| S=1.5H   | +0.3/-0.7        |      |      |      |      | +0.3/-0.7      |      |      |      |      |
| S=2.0H   | +0.8/-1.3        |      |      |      |      | +0.8/-1.3      |      |      |      |      |

Calculate in accordance with CIE Pub.117. The table is revised with 1952lm ( $8\log(F/F_0) = 2.3$ ).

C Plane (°):0.0-360.0: 90.0  
Test Lab: inventfine instruments  
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Temperature: 26  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.684 m [K=1.0000]  
Humidity: 65  
Inspector:

## Zonal Lumen

| Gamma<br>[°] | I <sub>mean</sub><br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 0.0-1.0      | 816.9                     | 0.8                | 0.8                    | 0.04                  | 0.04                      |
| 1.0-2.0      | 816.4                     | 2.3                | 3.1                    | 0.12                  | 0.16                      |
| 2.0-3.0      | 815.4                     | 3.9                | 7.0                    | 0.20                  | 0.36                      |
| 3.0-4.0      | 814.1                     | 5.5                | 12.5                   | 0.28                  | 0.64                      |
| 4.0-5.0      | 812.4                     | 7.0                | 19.5                   | 0.36                  | 1.00                      |
| 5.0-6.0      | 810.1                     | 8.5                | 28.0                   | 0.44                  | 1.43                      |
| 6.0-7.0      | 807.2                     | 10.0               | 38.0                   | 0.51                  | 1.95                      |
| 7.0-8.0      | 804.1                     | 11.5               | 49.5                   | 0.59                  | 2.54                      |
| 8.0-9.0      | 800.7                     | 13.0               | 62.5                   | 0.67                  | 3.20                      |
| 9.0-10.0     | 796.9                     | 14.4               | 76.9                   | 0.74                  | 3.94                      |
| 10.0-11.0    | 792.5                     | 15.8               | 92.8                   | 0.81                  | 4.75                      |
| 11.0-12.0    | 787.8                     | 17.2               | 110.0                  | 0.88                  | 5.63                      |
| 12.0-13.0    | 782.6                     | 18.6               | 128.6                  | 0.95                  | 6.59                      |
| 13.0-14.0    | 777.1                     | 19.9               | 148.4                  | 1.02                  | 7.61                      |
| 14.0-15.0    | 771.1                     | 21.2               | 169.6                  | 1.08                  | 8.69                      |
| 15.0-16.0    | 764.7                     | 22.4               | 192.0                  | 1.15                  | 9.84                      |
| 16.0-17.0    | 757.9                     | 23.6               | 215.6                  | 1.21                  | 11.05                     |
| 17.0-18.0    | 751.1                     | 24.8               | 240.4                  | 1.27                  | 12.32                     |
| 18.0-19.0    | 744.0                     | 25.9               | 266.3                  | 1.33                  | 13.64                     |
| 19.0-20.0    | 736.2                     | 26.9               | 293.2                  | 1.38                  | 15.02                     |
| 20.0-21.0    | 728.3                     | 28.0               | 321.2                  | 1.43                  | 16.46                     |
| 21.0-22.0    | 720.1                     | 28.9               | 350.1                  | 1.48                  | 17.94                     |
| 22.0-23.0    | 711.6                     | 29.9               | 380.0                  | 1.53                  | 19.47                     |
| 23.0-24.0    | 703.0                     | 30.7               | 410.7                  | 1.57                  | 21.05                     |
| 24.0-25.0    | 693.8                     | 31.6               | 442.3                  | 1.62                  | 22.66                     |
| 25.0-26.0    | 684.3                     | 32.3               | 474.6                  | 1.66                  | 24.32                     |
| 26.0-27.0    | 674.6                     | 33.0               | 507.6                  | 1.69                  | 26.01                     |
| 27.0-28.0    | 664.7                     | 33.7               | 541.3                  | 1.72                  | 27.73                     |
| 28.0-29.0    | 651.4                     | 34.1               | 575.4                  | 1.75                  | 29.48                     |
| 29.0-30.0    | 637.9                     | 34.4               | 609.8                  | 1.76                  | 31.24                     |
| 30.0-31.0    | 627.6                     | 34.9               | 644.7                  | 1.79                  | 33.03                     |
| 31.0-32.0    | 617.2                     | 35.4               | 680.1                  | 1.81                  | 34.85                     |
| 32.0-33.0    | 606.6                     | 35.7               | 715.8                  | 1.83                  | 36.68                     |
| 33.0-34.0    | 595.5                     | 36.0               | 751.9                  | 1.85                  | 38.52                     |
| 34.0-35.0    | 585.7                     | 36.4               | 788.3                  | 1.86                  | 40.39                     |
| 35.0-36.0    | 577.8                     | 36.8               | 825.1                  | 1.89                  | 42.27                     |

C Plane (°):0.0-360.0: 90.0  
 Test Lab: inventfine instruments  
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 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## Zonal Lumen (Continue 1)

| Gamma<br>[°] | Imean<br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------|--------------------|------------------------|-----------------------|---------------------------|
| 36.0-37.0    | 568.5         | 37.1               | 862.1                  | 1.90                  | 44.17                     |
| 37.0-38.0    | 556.8         | 37.2               | 899.3                  | 1.90                  | 46.08                     |
| 38.0-39.0    | 544.4         | 37.2               | 936.5                  | 1.90                  | 47.98                     |
| 39.0-40.0    | 532.5         | 37.1               | 973.6                  | 1.90                  | 49.88                     |
| 40.0-41.0    | 521.1         | 37.1               | 1010.7                 | 1.90                  | 51.79                     |
| 41.0-42.0    | 506.8         | 36.8               | 1047.6                 | 1.89                  | 53.67                     |
| 42.0-43.0    | 492.4         | 36.5               | 1084.0                 | 1.87                  | 55.54                     |
| 43.0-44.0    | 480.8         | 36.3               | 1120.3                 | 1.86                  | 57.40                     |
| 44.0-45.0    | 468.8         | 36.0               | 1156.4                 | 1.85                  | 59.25                     |
| 45.0-46.0    | 456.5         | 35.7               | 1192.1                 | 1.83                  | 61.08                     |
| 46.0-47.0    | 444.6         | 35.4               | 1227.4                 | 1.81                  | 62.89                     |
| 47.0-48.0    | 432.6         | 35.0               | 1262.4                 | 1.79                  | 64.68                     |
| 48.0-49.0    | 420.2         | 34.5               | 1296.9                 | 1.77                  | 66.45                     |
| 49.0-50.0    | 408.0         | 34.0               | 1331.0                 | 1.74                  | 68.19                     |
| 50.0-51.0    | 395.9         | 33.5               | 1364.5                 | 1.72                  | 69.91                     |
| 51.0-52.0    | 383.9         | 32.9               | 1397.4                 | 1.69                  | 71.60                     |
| 52.0-53.0    | 371.7         | 32.3               | 1429.7                 | 1.66                  | 73.25                     |
| 53.0-54.0    | 359.7         | 31.7               | 1461.4                 | 1.62                  | 74.88                     |
| 54.0-55.0    | 348.0         | 31.1               | 1492.5                 | 1.59                  | 76.47                     |
| 55.0-56.0    | 335.9         | 30.4               | 1522.9                 | 1.56                  | 78.03                     |
| 56.0-57.0    | 323.6         | 29.6               | 1552.5                 | 1.52                  | 79.54                     |
| 57.0-58.0    | 311.8         | 28.8               | 1581.3                 | 1.48                  | 81.02                     |
| 58.0-59.0    | 299.7         | 28.0               | 1609.3                 | 1.44                  | 82.46                     |
| 59.0-60.0    | 286.3         | 27.0               | 1636.4                 | 1.39                  | 83.84                     |
| 60.0-61.0    | 272.5         | 26.0               | 1662.4                 | 1.33                  | 85.17                     |
| 61.0-62.0    | 259.1         | 25.0               | 1687.3                 | 1.28                  | 86.45                     |
| 62.0-63.0    | 245.4         | 23.9               | 1711.2                 | 1.22                  | 87.68                     |
| 63.0-64.0    | 231.4         | 22.7               | 1733.9                 | 1.16                  | 88.84                     |
| 64.0-65.0    | 217.1         | 21.5               | 1755.4                 | 1.10                  | 89.94                     |
| 65.0-66.0    | 203.0         | 20.3               | 1775.7                 | 1.04                  | 90.98                     |
| 66.0-67.0    | 189.3         | 19.0               | 1794.7                 | 0.98                  | 91.95                     |
| 67.0-68.0    | 175.4         | 17.8               | 1812.5                 | 0.91                  | 92.86                     |
| 68.0-69.0    | 161.1         | 16.4               | 1828.9                 | 0.84                  | 93.71                     |
| 69.0-70.0    | 147.1         | 15.1               | 1844.0                 | 0.77                  | 94.48                     |
| 70.0-71.0    | 133.6         | 13.8               | 1857.8                 | 0.71                  | 95.19                     |
| 71.0-72.0    | 120.0         | 12.5               | 1870.3                 | 0.64                  | 95.83                     |

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## Zonal Lumen (Continue 2)

| Gamma<br>[°] | I <sub>mean</sub><br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 72.0-73.0    | 106.8                     | 11.2               | 1881.5                 | 0.57                  | 96.40                     |
| 73.0-74.0    | 94.1                      | 9.9                | 1891.4                 | 0.51                  | 96.91                     |
| 74.0-75.0    | 81.6                      | 8.6                | 1900.0                 | 0.44                  | 97.35                     |
| 75.0-76.0    | 69.8                      | 7.4                | 1907.4                 | 0.38                  | 97.73                     |
| 76.0-77.0    | 58.4                      | 6.2                | 1913.6                 | 0.32                  | 98.05                     |
| 77.0-78.0    | 47.5                      | 5.1                | 1918.7                 | 0.26                  | 98.31                     |
| 78.0-79.0    | 37.5                      | 4.0                | 1922.8                 | 0.21                  | 98.52                     |
| 79.0-80.0    | 28.5                      | 3.1                | 1925.8                 | 0.16                  | 98.67                     |
| 80.0-81.0    | 20.2                      | 2.2                | 1928.0                 | 0.11                  | 98.78                     |
| 81.0-82.0    | 13.0                      | 1.4                | 1929.4                 | 0.07                  | 98.86                     |
| 82.0-83.0    | 7.9                       | 0.9                | 1930.3                 | 0.04                  | 98.90                     |
| 83.0-84.0    | 5.1                       | 0.6                | 1930.9                 | 0.03                  | 98.93                     |
| 84.0-85.0    | 4.2                       | 0.5                | 1931.3                 | 0.02                  | 98.95                     |
| 85.0-86.0    | 3.8                       | 0.4                | 1931.7                 | 0.02                  | 98.97                     |
| 86.0-87.0    | 3.3                       | 0.4                | 1932.1                 | 0.02                  | 98.99                     |
| 87.0-88.0    | 2.6                       | 0.3                | 1932.4                 | 0.01                  | 99.01                     |
| 88.0-89.0    | 1.8                       | 0.2                | 1932.6                 | 0.01                  | 99.02                     |
| 89.0-90.0    | 0.8                       | 0.1                | 1932.7                 | 0.00                  | 99.02                     |
| 90.0-91.0    | 0.4                       | 0.0                | 1932.7                 | 0.00                  | 99.02                     |
| 91.0-92.0    | 0.5                       | 0.1                | 1932.7                 | 0.00                  | 99.03                     |
| 92.0-93.0    | 0.6                       | 0.1                | 1932.8                 | 0.00                  | 99.03                     |
| 93.0-94.0    | 0.7                       | 0.1                | 1932.9                 | 0.00                  | 99.03                     |
| 94.0-95.0    | 0.8                       | 0.1                | 1933.0                 | 0.00                  | 99.04                     |
| 95.0-96.0    | 0.9                       | 0.1                | 1933.1                 | 0.00                  | 99.04                     |
| 96.0-97.0    | 0.9                       | 0.1                | 1933.2                 | 0.01                  | 99.05                     |
| 97.0-98.0    | 1.0                       | 0.1                | 1933.3                 | 0.01                  | 99.05                     |
| 98.0-99.0    | 1.1                       | 0.1                | 1933.4                 | 0.01                  | 99.06                     |
| 99.0-100.0   | 1.1                       | 0.1                | 1933.5                 | 0.01                  | 99.07                     |
| 100.0-101.0  | 1.2                       | 0.1                | 1933.7                 | 0.01                  | 99.07                     |
| 101.0-102.0  | 1.3                       | 0.1                | 1933.8                 | 0.01                  | 99.08                     |
| 102.0-103.0  | 1.4                       | 0.1                | 1933.9                 | 0.01                  | 99.09                     |
| 103.0-104.0  | 1.4                       | 0.2                | 1934.1                 | 0.01                  | 99.10                     |
| 104.0-105.0  | 1.5                       | 0.2                | 1934.3                 | 0.01                  | 99.10                     |
| 105.0-106.0  | 1.5                       | 0.2                | 1934.4                 | 0.01                  | 99.11                     |
| 106.0-107.0  | 1.6                       | 0.2                | 1934.6                 | 0.01                  | 99.12                     |
| 107.0-108.0  | 1.7                       | 0.2                | 1934.8                 | 0.01                  | 99.13                     |

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

### Zonal Lumen (Continue 3)

| Gamma<br>[°] | Imean<br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------|--------------------|------------------------|-----------------------|---------------------------|
| 108.0-109.0  | 1.8           | 0.2                | 1935.0                 | 0.01                  | 99.14                     |
| 109.0-110.0  | 1.9           | 0.2                | 1935.1                 | 0.01                  | 99.15                     |
| 110.0-111.0  | 2.0           | 0.2                | 1935.4                 | 0.01                  | 99.16                     |
| 111.0-112.0  | 2.1           | 0.2                | 1935.6                 | 0.01                  | 99.17                     |
| 112.0-113.0  | 2.2           | 0.2                | 1935.8                 | 0.01                  | 99.18                     |
| 113.0-114.0  | 2.2           | 0.2                | 1936.0                 | 0.01                  | 99.19                     |
| 114.0-115.0  | 2.3           | 0.2                | 1936.2                 | 0.01                  | 99.21                     |
| 115.0-116.0  | 2.4           | 0.2                | 1936.5                 | 0.01                  | 99.22                     |
| 116.0-117.0  | 2.5           | 0.2                | 1936.7                 | 0.01                  | 99.23                     |
| 117.0-118.0  | 2.7           | 0.3                | 1937.0                 | 0.01                  | 99.24                     |
| 118.0-119.0  | 2.7           | 0.3                | 1937.3                 | 0.01                  | 99.26                     |
| 119.0-120.0  | 2.8           | 0.3                | 1937.5                 | 0.01                  | 99.27                     |
| 120.0-121.0  | 2.9           | 0.3                | 1937.8                 | 0.01                  | 99.29                     |
| 121.0-122.0  | 3.0           | 0.3                | 1938.1                 | 0.01                  | 99.30                     |
| 122.0-123.0  | 3.0           | 0.3                | 1938.3                 | 0.01                  | 99.31                     |
| 123.0-124.0  | 3.1           | 0.3                | 1938.6                 | 0.01                  | 99.33                     |
| 124.0-125.0  | 3.2           | 0.3                | 1938.9                 | 0.01                  | 99.34                     |
| 125.0-126.0  | 3.3           | 0.3                | 1939.2                 | 0.02                  | 99.36                     |
| 126.0-127.0  | 3.4           | 0.3                | 1939.5                 | 0.02                  | 99.37                     |
| 127.0-128.0  | 3.5           | 0.3                | 1939.8                 | 0.02                  | 99.39                     |
| 128.0-129.0  | 3.6           | 0.3                | 1940.1                 | 0.02                  | 99.41                     |
| 129.0-130.0  | 3.7           | 0.3                | 1940.4                 | 0.02                  | 99.42                     |
| 130.0-131.0  | 3.8           | 0.3                | 1940.8                 | 0.02                  | 99.44                     |
| 131.0-132.0  | 3.9           | 0.3                | 1941.1                 | 0.02                  | 99.45                     |
| 132.0-133.0  | 4.0           | 0.3                | 1941.4                 | 0.02                  | 99.47                     |
| 133.0-134.0  | 4.0           | 0.3                | 1941.7                 | 0.02                  | 99.49                     |
| 134.0-135.0  | 4.1           | 0.3                | 1942.0                 | 0.02                  | 99.50                     |
| 135.0-136.0  | 4.2           | 0.3                | 1942.4                 | 0.02                  | 99.52                     |
| 136.0-137.0  | 4.3           | 0.3                | 1942.7                 | 0.02                  | 99.54                     |
| 137.0-138.0  | 4.4           | 0.3                | 1943.0                 | 0.02                  | 99.55                     |
| 138.0-139.0  | 4.5           | 0.3                | 1943.3                 | 0.02                  | 99.57                     |
| 139.0-140.0  | 4.5           | 0.3                | 1943.7                 | 0.02                  | 99.59                     |
| 140.0-141.0  | 4.6           | 0.3                | 1944.0                 | 0.02                  | 99.60                     |
| 141.0-142.0  | 4.7           | 0.3                | 1944.3                 | 0.02                  | 99.62                     |
| 142.0-143.0  | 4.8           | 0.3                | 1944.6                 | 0.02                  | 99.63                     |
| 143.0-144.0  | 4.9           | 0.3                | 1944.9                 | 0.02                  | 99.65                     |

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

### Zonal Lumen (Continue 4)

| Gamma<br>[°] | I <sub>mean</sub><br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 144.0-145.0  | 4.9                       | 0.3                | 1945.2                 | 0.02                  | 99.67                     |
| 145.0-146.0  | 4.9                       | 0.3                | 1945.5                 | 0.02                  | 99.68                     |
| 146.0-147.0  | 5.0                       | 0.3                | 1945.9                 | 0.02                  | 99.70                     |
| 147.0-148.0  | 5.1                       | 0.3                | 1946.2                 | 0.02                  | 99.71                     |
| 148.0-149.0  | 5.2                       | 0.3                | 1946.4                 | 0.02                  | 99.73                     |
| 149.0-150.0  | 5.3                       | 0.3                | 1946.7                 | 0.02                  | 99.74                     |
| 150.0-151.0  | 5.3                       | 0.3                | 1947.0                 | 0.01                  | 99.76                     |
| 151.0-152.0  | 5.4                       | 0.3                | 1947.3                 | 0.01                  | 99.77                     |
| 152.0-153.0  | 5.5                       | 0.3                | 1947.6                 | 0.01                  | 99.79                     |
| 153.0-154.0  | 5.6                       | 0.3                | 1947.9                 | 0.01                  | 99.80                     |
| 154.0-155.0  | 5.6                       | 0.3                | 1948.1                 | 0.01                  | 99.81                     |
| 155.0-156.0  | 5.7                       | 0.3                | 1948.4                 | 0.01                  | 99.83                     |
| 156.0-157.0  | 5.8                       | 0.3                | 1948.6                 | 0.01                  | 99.84                     |
| 157.0-158.0  | 5.8                       | 0.2                | 1948.9                 | 0.01                  | 99.85                     |
| 158.0-159.0  | 5.8                       | 0.2                | 1949.1                 | 0.01                  | 99.87                     |
| 159.0-160.0  | 5.9                       | 0.2                | 1949.3                 | 0.01                  | 99.88                     |
| 160.0-161.0  | 6.0                       | 0.2                | 1949.6                 | 0.01                  | 99.89                     |
| 161.0-162.0  | 6.1                       | 0.2                | 1949.8                 | 0.01                  | 99.90                     |
| 162.0-163.0  | 6.1                       | 0.2                | 1950.0                 | 0.01                  | 99.91                     |
| 163.0-164.0  | 6.2                       | 0.2                | 1950.2                 | 0.01                  | 99.92                     |
| 164.0-165.0  | 6.2                       | 0.2                | 1950.4                 | 0.01                  | 99.93                     |
| 165.0-166.0  | 6.3                       | 0.2                | 1950.5                 | 0.01                  | 99.94                     |
| 166.0-167.0  | 6.3                       | 0.2                | 1950.7                 | 0.01                  | 99.95                     |
| 167.0-168.0  | 6.4                       | 0.2                | 1950.8                 | 0.01                  | 99.95                     |
| 168.0-169.0  | 6.4                       | 0.1                | 1951.0                 | 0.01                  | 99.96                     |
| 169.0-170.0  | 6.5                       | 0.1                | 1951.1                 | 0.01                  | 99.97                     |
| 170.0-171.0  | 6.6                       | 0.1                | 1951.2                 | 0.01                  | 99.97                     |
| 171.0-172.0  | 6.6                       | 0.1                | 1951.3                 | 0.01                  | 99.98                     |
| 172.0-173.0  | 6.6                       | 0.1                | 1951.4                 | 0.00                  | 99.98                     |
| 173.0-174.0  | 6.7                       | 0.1                | 1951.5                 | 0.00                  | 99.99                     |
| 174.0-175.0  | 6.7                       | 0.1                | 1951.6                 | 0.00                  | 99.99                     |
| 175.0-176.0  | 6.7                       | 0.1                | 1951.6                 | 0.00                  | 99.99                     |
| 176.0-177.0  | 6.7                       | 0.0                | 1951.7                 | 0.00                  | 100.00                    |
| 177.0-178.0  | 6.8                       | 0.0                | 1951.7                 | 0.00                  | 100.00                    |
| 178.0-179.0  | 6.8                       | 0.0                | 1951.7                 | 0.00                  | 100.00                    |
| 179.0-180.0  | 6.8                       | 0.0                | 1951.7                 | 0.00                  | 100.00                    |

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## Zonal Lumen (Continue 5)

cone flux(90°): 1156.37 lm

%lum = 59.2%  
%lamp = 59.2%

cone flux(120°): 1636.36 lm

%lum = 83.8%  
%lamp = 83.8%



## Candlepower Table

Unit: cd

| G\C   | C0.0  | C90.0 | C180.0 | C270.0 | C360.0 |  |  |  |  |  |
|-------|-------|-------|--------|--------|--------|--|--|--|--|--|
| G0.0  | 816.9 | 816.9 | 816.9  | 816.9  | 816.9  |  |  |  |  |  |
| G1.0  | 817.0 | 816.7 | 816.8  | 816.7  | 817.0  |  |  |  |  |  |
| G2.0  | 816.3 | 815.9 | 816.0  | 815.9  | 816.3  |  |  |  |  |  |
| G3.0  | 815.4 | 814.5 | 814.3  | 815.0  | 815.4  |  |  |  |  |  |
| G4.0  | 813.9 | 813.1 | 813.4  | 813.2  | 813.9  |  |  |  |  |  |
| G5.0  | 812.3 | 810.9 | 810.8  | 811.4  | 812.3  |  |  |  |  |  |
| G6.0  | 809.8 | 808.5 | 808.4  | 808.7  | 809.8  |  |  |  |  |  |
| G7.0  | 806.6 | 805.4 | 804.8  | 805.8  | 806.6  |  |  |  |  |  |
| G8.0  | 803.9 | 802.1 | 801.3  | 802.7  | 803.9  |  |  |  |  |  |
| G9.0  | 801.3 | 798.5 | 797.4  | 798.7  | 801.3  |  |  |  |  |  |
| G10.0 | 797.2 | 794.4 | 793.4  | 794.5  | 797.2  |  |  |  |  |  |
| G11.0 | 793.1 | 789.5 | 788.2  | 790.0  | 793.1  |  |  |  |  |  |
| G12.0 | 788.1 | 784.7 | 783.2  | 785.3  | 788.1  |  |  |  |  |  |
| G13.0 | 782.9 | 779.4 | 777.9  | 779.6  | 782.9  |  |  |  |  |  |
| G14.0 | 777.4 | 773.8 | 771.7  | 774.0  | 777.4  |  |  |  |  |  |
| G15.0 | 770.6 | 767.2 | 766.3  | 768.2  | 770.6  |  |  |  |  |  |
| G16.0 | 763.4 | 760.9 | 760.0  | 761.0  | 763.4  |  |  |  |  |  |
| G17.0 | 756.7 | 754.3 | 752.5  | 754.6  | 756.7  |  |  |  |  |  |
| G18.0 | 750.0 | 747.2 | 745.9  | 747.4  | 750.0  |  |  |  |  |  |
| G19.0 | 743.5 | 739.2 | 738.8  | 739.6  | 743.5  |  |  |  |  |  |
| G20.0 | 734.7 | 731.7 | 730.4  | 731.9  | 734.7  |  |  |  |  |  |
| G21.0 | 727.4 | 723.9 | 723.0  | 723.1  | 727.4  |  |  |  |  |  |
| G22.0 | 719.3 | 714.9 | 714.2  | 715.0  | 719.3  |  |  |  |  |  |
| G23.0 | 710.5 | 706.5 | 706.3  | 706.4  | 710.5  |  |  |  |  |  |
| G24.0 | 701.8 | 697.8 | 696.7  | 697.8  | 701.8  |  |  |  |  |  |
| G25.0 | 692.8 | 688.0 | 687.6  | 687.8  | 692.8  |  |  |  |  |  |
| G26.0 | 682.7 | 678.7 | 678.3  | 678.6  | 682.7  |  |  |  |  |  |
| G27.0 | 673.2 | 669.2 | 667.8  | 668.2  | 673.2  |  |  |  |  |  |
| G28.0 | 663.4 | 659.4 | 658.1  | 658.6  | 663.4  |  |  |  |  |  |
| G29.0 | 627.1 | 649.2 | 646.8  | 648.7  | 627.1  |  |  |  |  |  |
| G30.0 | 617.4 | 639.1 | 636.5  | 638.4  | 617.4  |  |  |  |  |  |
| G31.0 | 607.7 | 627.9 | 626.4  | 627.3  | 607.7  |  |  |  |  |  |
| G32.0 | 597.0 | 617.9 | 616.5  | 616.9  | 597.0  |  |  |  |  |  |
| G33.0 | 586.8 | 606.4 | 605.2  | 606.1  | 586.8  |  |  |  |  |  |
| G34.0 | 575.6 | 595.7 | 594.3  | 594.1  | 575.6  |  |  |  |  |  |
| G35.0 | 576.0 | 583.7 | 583.2  | 583.1  | 576.0  |  |  |  |  |  |
| G36.0 | 580.5 | 572.8 | 570.9  | 572.1  | 580.5  |  |  |  |  |  |

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 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 | 569.4 | 561.8 | 559.7  | 561.2  | 569.4  |  |  |  |  |  |
| G38.0 | 554.7 | 550.4 | 548.6  | 549.0  | 554.7  |  |  |  |  |  |
| G39.0 | 541.4 | 538.1 | 535.3  | 537.6  | 541.4  |  |  |  |  |  |
| G40.0 | 530.5 | 526.6 | 524.5  | 526.1  | 530.5  |  |  |  |  |  |
| G41.0 | 518.1 | 515.2 | 513.0  | 514.8  | 518.1  |  |  |  |  |  |
| G42.0 | 486.9 | 503.5 | 500.0  | 503.0  | 486.9  |  |  |  |  |  |
| G43.0 | 475.8 | 490.8 | 488.2  | 491.3  | 475.8  |  |  |  |  |  |
| G44.0 | 464.8 | 479.2 | 476.5  | 479.6  | 464.8  |  |  |  |  |  |
| G45.0 | 452.3 | 466.4 | 464.4  | 467.6  | 452.3  |  |  |  |  |  |
| G46.0 | 441.0 | 454.7 | 451.4  | 454.7  | 441.0  |  |  |  |  |  |
| G47.0 | 429.6 | 442.8 | 439.8  | 442.8  | 429.6  |  |  |  |  |  |
| G48.0 | 417.0 | 430.9 | 426.6  | 430.9  | 417.0  |  |  |  |  |  |
| G49.0 | 405.6 | 418.0 | 414.8  | 417.9  | 405.6  |  |  |  |  |  |
| G50.0 | 394.0 | 406.0 | 402.3  | 405.8  | 394.0  |  |  |  |  |  |
| G51.0 | 382.5 | 394.0 | 388.4  | 394.1  | 382.5  |  |  |  |  |  |
| G52.0 | 371.0 | 382.1 | 376.6  | 382.1  | 371.0  |  |  |  |  |  |
| G53.0 | 358.4 | 369.1 | 365.0  | 369.0  | 358.4  |  |  |  |  |  |
| G54.0 | 347.0 | 357.2 | 354.8  | 357.1  | 347.0  |  |  |  |  |  |
| G55.0 | 335.6 | 345.4 | 341.8  | 345.3  | 335.6  |  |  |  |  |  |
| G56.0 | 323.2 | 333.7 | 330.0  | 331.8  | 323.2  |  |  |  |  |  |
| G57.0 | 311.7 | 320.7 | 318.0  | 319.8  | 311.7  |  |  |  |  |  |
| G58.0 | 300.4 | 309.0 | 306.2  | 308.2  | 300.4  |  |  |  |  |  |
| G59.0 | 288.3 | 296.7 | 293.3  | 295.5  | 288.3  |  |  |  |  |  |
| G60.0 | 274.5 | 282.5 | 278.5  | 280.9  | 274.5  |  |  |  |  |  |
| G61.0 | 261.6 | 269.1 | 265.2  | 267.7  | 261.6  |  |  |  |  |  |
| G62.0 | 248.6 | 255.6 | 251.9  | 253.0  | 248.6  |  |  |  |  |  |
| G63.0 | 235.3 | 242.0 | 238.0  | 239.2  | 235.3  |  |  |  |  |  |
| G64.0 | 220.7 | 226.9 | 223.9  | 225.5  | 220.7  |  |  |  |  |  |
| G65.0 | 207.3 | 213.0 | 208.7  | 210.4  | 207.3  |  |  |  |  |  |
| G66.0 | 193.9 | 199.2 | 194.9  | 196.5  | 193.9  |  |  |  |  |  |
| G67.0 | 179.4 | 185.6 | 182.2  | 182.7  | 179.4  |  |  |  |  |  |
| G68.0 | 166.2 | 170.7 | 168.3  | 167.6  | 166.2  |  |  |  |  |  |
| G69.0 | 152.9 | 157.0 | 153.3  | 152.5  | 152.9  |  |  |  |  |  |
| G70.0 | 138.8 | 143.7 | 139.8  | 139.1  | 138.8  |  |  |  |  |  |
| G71.0 | 126.0 | 129.1 | 126.4  | 125.8  | 126.0  |  |  |  |  |  |
| G72.0 | 113.4 | 116.1 | 112.0  | 111.5  | 113.4  |  |  |  |  |  |
| G73.0 | 99.8  | 103.3 | 99.3   | 99.0   | 99.8   |  |  |  |  |  |

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 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  | 87.8 | 89.6  | 87.1   | 86.7   | 87.8   |  |  |  |  |  |
| G75.0  | 76.3 | 77.6  | 74.0   | 74.2   | 76.3   |  |  |  |  |  |
| G76.0  | 65.0 | 65.9  | 62.5   | 62.7   | 65.0   |  |  |  |  |  |
| G77.0  | 53.5 | 54.0  | 51.9   | 51.9   | 53.5   |  |  |  |  |  |
| G78.0  | 43.6 | 43.6  | 41.7   | 40.2   | 43.6   |  |  |  |  |  |
| G79.0  | 34.6 | 34.4  | 31.6   | 30.6   | 34.6   |  |  |  |  |  |
| G80.0  | 25.8 | 25.8  | 23.2   | 22.2   | 25.8   |  |  |  |  |  |
| G81.0  | 17.6 | 17.1  | 15.3   | 14.4   | 17.6   |  |  |  |  |  |
| G82.0  | 11.1 | 10.8  | 9.1    | 8.8    | 11.1   |  |  |  |  |  |
| G83.0  | 6.3  | 6.5   | 5.5    | 5.4    | 6.3    |  |  |  |  |  |
| G84.0  | 4.3  | 4.4   | 4.4    | 4.4    | 4.3    |  |  |  |  |  |
| G85.0  | 4.0  | 4.1   | 4.0    | 4.0    | 4.0    |  |  |  |  |  |
| G86.0  | 3.6  | 3.6   | 3.5    | 3.5    | 3.6    |  |  |  |  |  |
| G87.0  | 3.1  | 3.1   | 2.8    | 2.9    | 3.1    |  |  |  |  |  |
| G88.0  | 2.4  | 2.4   | 2.0    | 2.0    | 2.4    |  |  |  |  |  |
| G89.0  | 1.5  | 1.6   | 1.1    | 1.1    | 1.5    |  |  |  |  |  |
| G90.0  | 0.6  | 0.6   | 0.0    | 0.0    | 0.6    |  |  |  |  |  |
| G91.0  | 0.6  | 0.0   | 0.6    | 0.6    | 0.6    |  |  |  |  |  |
| G92.0  | 0.7  | 0.7   | 0.0    | 0.6    | 0.7    |  |  |  |  |  |
| G93.0  | 0.8  | 0.8   | 0.6    | 0.7    | 0.8    |  |  |  |  |  |
| G94.0  | 0.8  | 0.8   | 0.7    | 0.7    | 0.8    |  |  |  |  |  |
| G95.0  | 0.9  | 0.9   | 0.8    | 0.8    | 0.9    |  |  |  |  |  |
| G96.0  | 0.9  | 0.9   | 0.9    | 0.9    | 0.9    |  |  |  |  |  |
| G97.0  | 1.0  | 1.1   | 0.9    | 0.9    | 1.0    |  |  |  |  |  |
| G98.0  | 1.1  | 1.1   | 1.0    | 1.0    | 1.1    |  |  |  |  |  |
| G99.0  | 1.2  | 1.2   | 1.1    | 1.0    | 1.2    |  |  |  |  |  |
| G100.0 | 1.3  | 1.2   | 1.1    | 1.1    | 1.3    |  |  |  |  |  |
| G101.0 | 1.3  | 1.3   | 1.2    | 1.1    | 1.3    |  |  |  |  |  |
| G102.0 | 1.4  | 1.4   | 1.3    | 1.3    | 1.4    |  |  |  |  |  |
| G103.0 | 1.5  | 1.4   | 1.3    | 1.3    | 1.5    |  |  |  |  |  |
| G104.0 | 1.5  | 1.6   | 1.4    | 1.4    | 1.5    |  |  |  |  |  |
| G105.0 | 1.7  | 1.6   | 1.5    | 1.5    | 1.7    |  |  |  |  |  |
| G106.0 | 1.7  | 1.7   | 1.1    | 1.6    | 1.7    |  |  |  |  |  |
| G107.0 | 1.8  | 1.6   | 1.6    | 1.6    | 1.8    |  |  |  |  |  |
| G108.0 | 1.9  | 1.8   | 1.7    | 1.7    | 1.9    |  |  |  |  |  |
| G109.0 | 1.9  | 1.9   | 1.8    | 1.8    | 1.9    |  |  |  |  |  |
| G110.0 | 2.0  | 2.0   | 1.8    | 1.8    | 2.0    |  |  |  |  |  |

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 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 | 2.2  | 2.1   | 1.9    | 1.9    | 2.2    |  |  |  |  |  |
| G112.0 | 2.2  | 2.2   | 2.0    | 2.1    | 2.2    |  |  |  |  |  |
| G113.0 | 2.3  | 2.3   | 2.1    | 2.1    | 2.3    |  |  |  |  |  |
| G114.0 | 2.4  | 2.3   | 2.2    | 2.2    | 2.4    |  |  |  |  |  |
| G115.0 | 2.5  | 2.4   | 2.3    | 2.3    | 2.5    |  |  |  |  |  |
| G116.0 | 2.6  | 2.5   | 2.4    | 2.4    | 2.6    |  |  |  |  |  |
| G117.0 | 2.7  | 2.6   | 2.5    | 2.5    | 2.7    |  |  |  |  |  |
| G118.0 | 2.8  | 3.1   | 2.6    | 2.5    | 2.8    |  |  |  |  |  |
| G119.0 | 2.9  | 2.8   | 2.7    | 2.6    | 2.9    |  |  |  |  |  |
| G120.0 | 2.9  | 2.9   | 2.8    | 2.7    | 2.9    |  |  |  |  |  |
| G121.0 | 3.0  | 3.0   | 2.9    | 2.8    | 3.0    |  |  |  |  |  |
| G122.0 | 3.1  | 3.0   | 2.9    | 2.9    | 3.1    |  |  |  |  |  |
| G123.0 | 3.2  | 3.1   | 3.1    | 3.0    | 3.2    |  |  |  |  |  |
| G124.0 | 3.3  | 3.2   | 3.1    | 3.1    | 3.3    |  |  |  |  |  |
| G125.0 | 3.5  | 3.3   | 3.2    | 3.2    | 3.5    |  |  |  |  |  |
| G126.0 | 3.5  | 3.4   | 3.2    | 3.3    | 3.5    |  |  |  |  |  |
| G127.0 | 3.6  | 3.5   | 3.4    | 3.3    | 3.6    |  |  |  |  |  |
| G128.0 | 3.6  | 3.6   | 3.5    | 3.4    | 3.6    |  |  |  |  |  |
| G129.0 | 3.8  | 3.7   | 3.6    | 3.5    | 3.8    |  |  |  |  |  |
| G130.0 | 3.8  | 3.8   | 3.6    | 3.6    | 3.8    |  |  |  |  |  |
| G131.0 | 4.0  | 3.9   | 3.7    | 3.7    | 4.0    |  |  |  |  |  |
| G132.0 | 4.0  | 4.0   | 3.8    | 3.8    | 4.0    |  |  |  |  |  |
| G133.0 | 4.2  | 4.0   | 3.9    | 3.9    | 4.2    |  |  |  |  |  |
| G134.0 | 4.2  | 4.1   | 4.0    | 3.9    | 4.2    |  |  |  |  |  |
| G135.0 | 4.4  | 4.2   | 4.1    | 4.0    | 4.4    |  |  |  |  |  |
| G136.0 | 4.5  | 4.3   | 4.2    | 4.1    | 4.5    |  |  |  |  |  |
| G137.0 | 4.5  | 4.4   | 4.2    | 4.2    | 4.5    |  |  |  |  |  |
| G138.0 | 4.6  | 4.5   | 4.3    | 4.3    | 4.6    |  |  |  |  |  |
| G139.0 | 4.7  | 4.6   | 4.3    | 4.3    | 4.7    |  |  |  |  |  |
| G140.0 | 4.7  | 4.7   | 4.4    | 4.4    | 4.7    |  |  |  |  |  |
| G141.0 | 4.8  | 4.7   | 4.5    | 4.5    | 4.8    |  |  |  |  |  |
| G142.0 | 4.9  | 4.9   | 4.6    | 4.5    | 4.9    |  |  |  |  |  |
| G143.0 | 5.0  | 4.9   | 4.7    | 4.6    | 5.0    |  |  |  |  |  |
| G144.0 | 5.1  | 5.0   | 4.8    | 4.7    | 5.1    |  |  |  |  |  |
| G145.0 | 4.7  | 5.1   | 4.8    | 4.8    | 4.7    |  |  |  |  |  |
| G146.0 | 5.1  | 5.2   | 4.9    | 4.8    | 5.1    |  |  |  |  |  |
| G147.0 | 5.2  | 5.2   | 5.0    | 4.9    | 5.2    |  |  |  |  |  |

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 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 | 5.3  | 5.3   | 4.9    | 5.0    | 5.3    |  |  |  |  |  |
| G149.0 | 5.5  | 5.4   | 5.0    | 5.1    | 5.5    |  |  |  |  |  |
| G150.0 | 5.6  | 5.5   | 5.1    | 5.1    | 5.6    |  |  |  |  |  |
| G151.0 | 5.6  | 5.5   | 5.2    | 5.2    | 5.6    |  |  |  |  |  |
| G152.0 | 5.7  | 5.6   | 5.2    | 5.3    | 5.7    |  |  |  |  |  |
| G153.0 | 5.8  | 5.6   | 5.3    | 5.4    | 5.8    |  |  |  |  |  |
| G154.0 | 5.8  | 5.7   | 5.4    | 5.4    | 5.8    |  |  |  |  |  |
| G155.0 | 5.9  | 5.8   | 5.5    | 5.5    | 5.9    |  |  |  |  |  |
| G156.0 | 5.9  | 5.8   | 5.6    | 5.6    | 5.9    |  |  |  |  |  |
| G157.0 | 6.0  | 5.9   | 5.7    | 5.7    | 6.0    |  |  |  |  |  |
| G158.0 | 5.6  | 6.0   | 5.7    | 5.8    | 5.6    |  |  |  |  |  |
| G159.0 | 5.9  | 6.0   | 5.8    | 5.9    | 5.9    |  |  |  |  |  |
| G160.0 | 6.0  | 6.0   | 5.9    | 5.9    | 6.0    |  |  |  |  |  |
| G161.0 | 6.1  | 6.1   | 5.9    | 6.0    | 6.1    |  |  |  |  |  |
| G162.0 | 6.1  | 6.2   | 6.0    | 6.0    | 6.1    |  |  |  |  |  |
| G163.0 | 6.1  | 6.2   | 6.1    | 6.1    | 6.1    |  |  |  |  |  |
| G164.0 | 6.2  | 6.2   | 6.2    | 6.2    | 6.2    |  |  |  |  |  |
| G165.0 | 6.2  | 6.3   | 6.2    | 6.3    | 6.2    |  |  |  |  |  |
| G166.0 | 6.3  | 6.3   | 6.3    | 6.4    | 6.3    |  |  |  |  |  |
| G167.0 | 6.3  | 6.4   | 6.3    | 6.4    | 6.3    |  |  |  |  |  |
| G168.0 | 6.4  | 6.4   | 6.4    | 6.5    | 6.4    |  |  |  |  |  |
| G169.0 | 6.4  | 6.5   | 6.4    | 6.5    | 6.4    |  |  |  |  |  |
| G170.0 | 6.6  | 6.5   | 6.4    | 6.6    | 6.6    |  |  |  |  |  |
| G171.0 | 6.7  | 6.6   | 6.5    | 6.6    | 6.7    |  |  |  |  |  |
| G172.0 | 6.5  | 6.6   | 6.6    | 6.6    | 6.5    |  |  |  |  |  |
| G173.0 | 6.6  | 6.6   | 6.6    | 6.7    | 6.6    |  |  |  |  |  |
| G174.0 | 6.6  | 6.7   | 6.6    | 6.7    | 6.6    |  |  |  |  |  |
| G175.0 | 6.6  | 6.7   | 6.7    | 6.7    | 6.6    |  |  |  |  |  |
| G176.0 | 6.7  | 6.8   | 6.7    | 6.7    | 6.7    |  |  |  |  |  |
| G177.0 | 6.7  | 6.7   | 6.7    | 6.7    | 6.7    |  |  |  |  |  |
| G178.0 | 6.7  | 7.1   | 6.7    | 6.8    | 6.7    |  |  |  |  |  |
| G179.0 | 6.9  | 6.9   | 6.7    | 6.8    | 6.9    |  |  |  |  |  |
| G180.0 | 6.9  | 6.9   | 6.8    | 6.8    | 6.9    |  |  |  |  |  |
|        |      |       |        |        |        |  |  |  |  |  |
|        |      |       |        |        |        |  |  |  |  |  |
|        |      |       |        |        |        |  |  |  |  |  |
|        |      |       |        |        |        |  |  |  |  |  |

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## LED Average Luminance Report

| Avg.L           | cd/m <sup>2</sup> |
|-----------------|-------------------|
| L 0-180(65) av  | 27852.14          |
| L 0-180(75) av  | 16427.64          |
| L 0-180(85) av  | 2612.03           |
| L 90-270(65) av | 28351.05          |
| L 90-270(75) av | 16594.81          |
| L 90-270(85) av | 2610.44           |
| L 45(65) av     | 28101.60          |
| L 45(75) av     | 16511.22          |
| L 45(85) av     | 2611.24           |

Standard: GB/T 29293-2012