

Report No.: TH-3393A

Test Time: 2022/6/8 11:09

## Luminaire Property

Luminaire Manufacturer:  
Luminaire Category:  
Lamp Catalog:  
Number of Lamps:  
Luminous Length (mm):  
Luminous Height (mm):  
Current: 0.119 A  
Power Factor: 0.933

Luminaire Description: 20134LEDDMG  
Lamp Description:  
Lumens per Lamp:  
Luminous Width (mm):  
Voltage: 120.1 V  
Power: 13.30 W

## Photometric Results

CIE Class: Direct  
Measurement Flux: 635.3 lm  
Downward Ratio: 100%  
Horizontal Diffuse Angle(50%): H94.1  
Vertical Diffuse Angle(50%): V92.9  
Luminaire Efficacy Rating (LER): 47.82  
Max. Intensity: 319.8 cd  
S/MH(C0/C180): 1.09

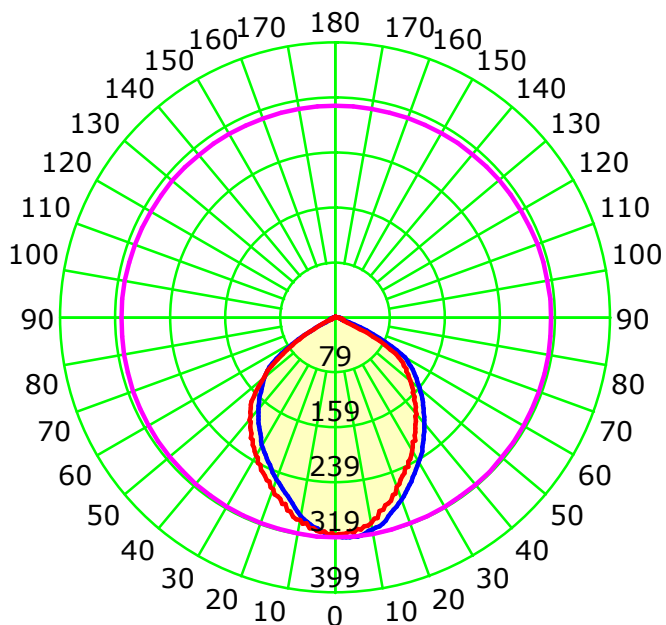
Total Rated Lamp Lumens: 635.3 lm  
Efficiency: 100%  
Upward Ratio: 0%

C0r0 Intensity: 317.29 cd  
Pos of Max. Intensity: H0 V5  
S/MH(C90/C270): 1.09

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

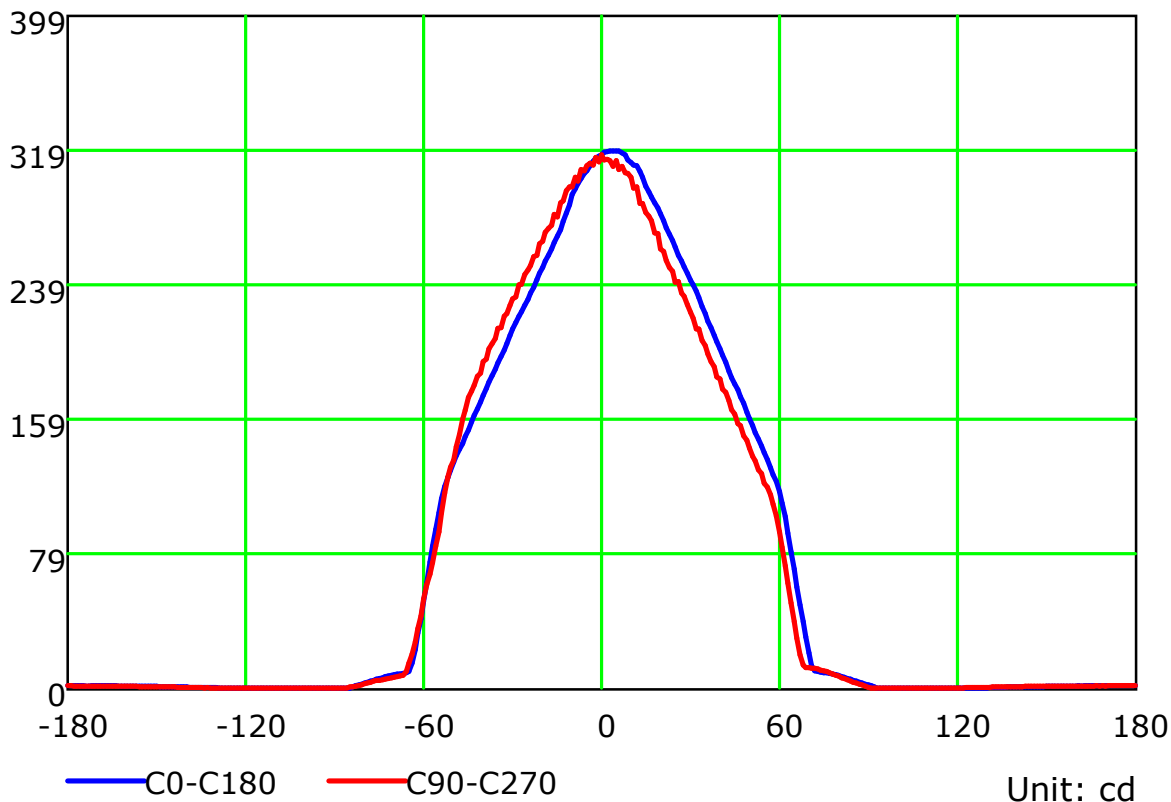
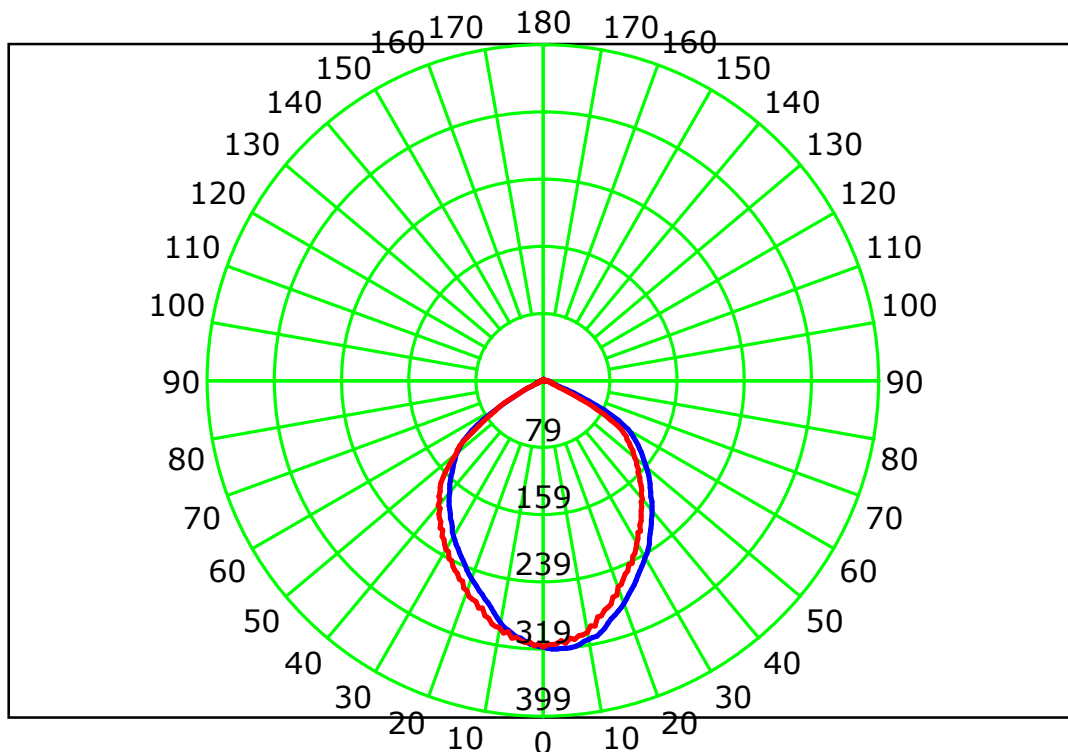
Average Diffuse Angle(50%): 93.4°

— C0-C180 — C90-C270 — G5

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: 8.508 m [K=1.0000]  
Humidity: 65  
Inspector:

## Luminous Intensity Distribution Curve



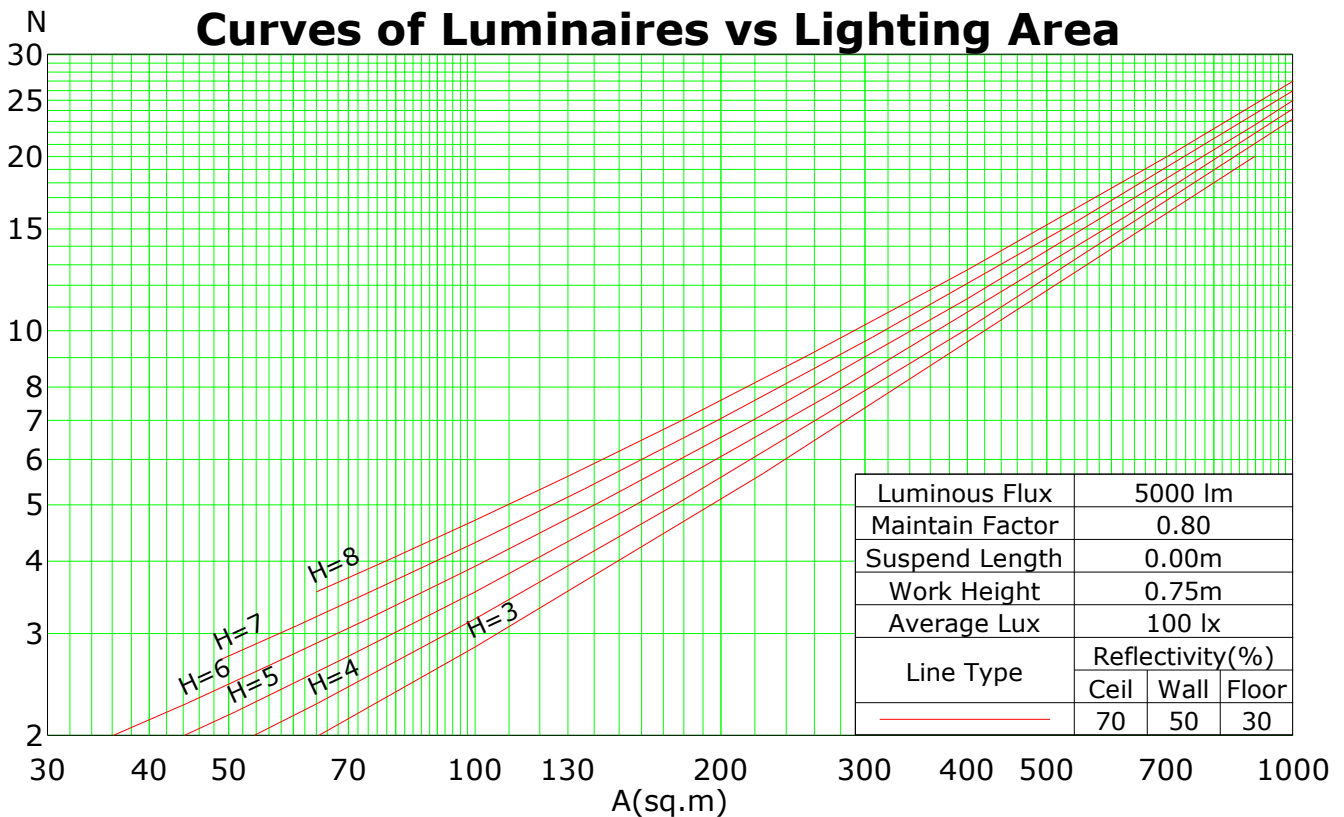
C Plane (°):0.0-360.0: 90.0  
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Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.508 m [K=1.0000]  
Humidity: 65  
Inspector:

## 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 | 1.02 | 1.02 | 1.02 | 1.00 |
| 1   | 1.11     | 1.07 | 1.04 | 1.01 | 1.08 | 1.05 | 1.02 | 0.99 | 1.01 | 0.98 | 0.96 | 0.97 | 0.95 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 |
| 2   | 1.02     | 0.96 | 0.90 | 0.85 | 1.00 | 0.94 | 0.89 | 0.84 | 0.90 | 0.86 | 0.82 | 0.87 | 0.83 | 0.80 | 0.84 | 0.81 | 0.78 | 0.76 |
| 3   | 0.95     | 0.85 | 0.78 | 0.73 | 0.92 | 0.84 | 0.77 | 0.72 | 0.81 | 0.76 | 0.71 | 0.78 | 0.74 | 0.70 | 0.76 | 0.72 | 0.69 | 0.67 |
| 4   | 0.87     | 0.77 | 0.69 | 0.63 | 0.85 | 0.75 | 0.68 | 0.63 | 0.73 | 0.67 | 0.62 | 0.71 | 0.65 | 0.61 | 0.69 | 0.64 | 0.60 | 0.58 |
| 5   | 0.81     | 0.69 | 0.61 | 0.55 | 0.79 | 0.68 | 0.61 | 0.55 | 0.66 | 0.59 | 0.54 | 0.64 | 0.58 | 0.54 | 0.62 | 0.57 | 0.53 | 0.51 |
| 6   | 0.75     | 0.63 | 0.55 | 0.49 | 0.73 | 0.62 | 0.54 | 0.49 | 0.60 | 0.53 | 0.48 | 0.58 | 0.52 | 0.48 | 0.57 | 0.52 | 0.47 | 0.45 |
| 7   | 0.70     | 0.57 | 0.49 | 0.44 | 0.68 | 0.56 | 0.49 | 0.43 | 0.55 | 0.48 | 0.43 | 0.54 | 0.47 | 0.43 | 0.52 | 0.47 | 0.42 | 0.41 |
| 8   | 0.65     | 0.53 | 0.45 | 0.39 | 0.64 | 0.52 | 0.44 | 0.39 | 0.51 | 0.44 | 0.39 | 0.49 | 0.43 | 0.39 | 0.48 | 0.43 | 0.38 | 0.37 |
| 9   | 0.61     | 0.48 | 0.41 | 0.35 | 0.60 | 0.48 | 0.40 | 0.35 | 0.47 | 0.40 | 0.35 | 0.46 | 0.39 | 0.35 | 0.45 | 0.39 | 0.35 | 0.33 |
| 10  | 0.57     | 0.45 | 0.37 | 0.32 | 0.56 | 0.44 | 0.37 | 0.32 | 0.43 | 0.37 | 0.32 | 0.42 | 0.36 | 0.32 | 0.41 | 0.36 | 0.32 | 0.30 |

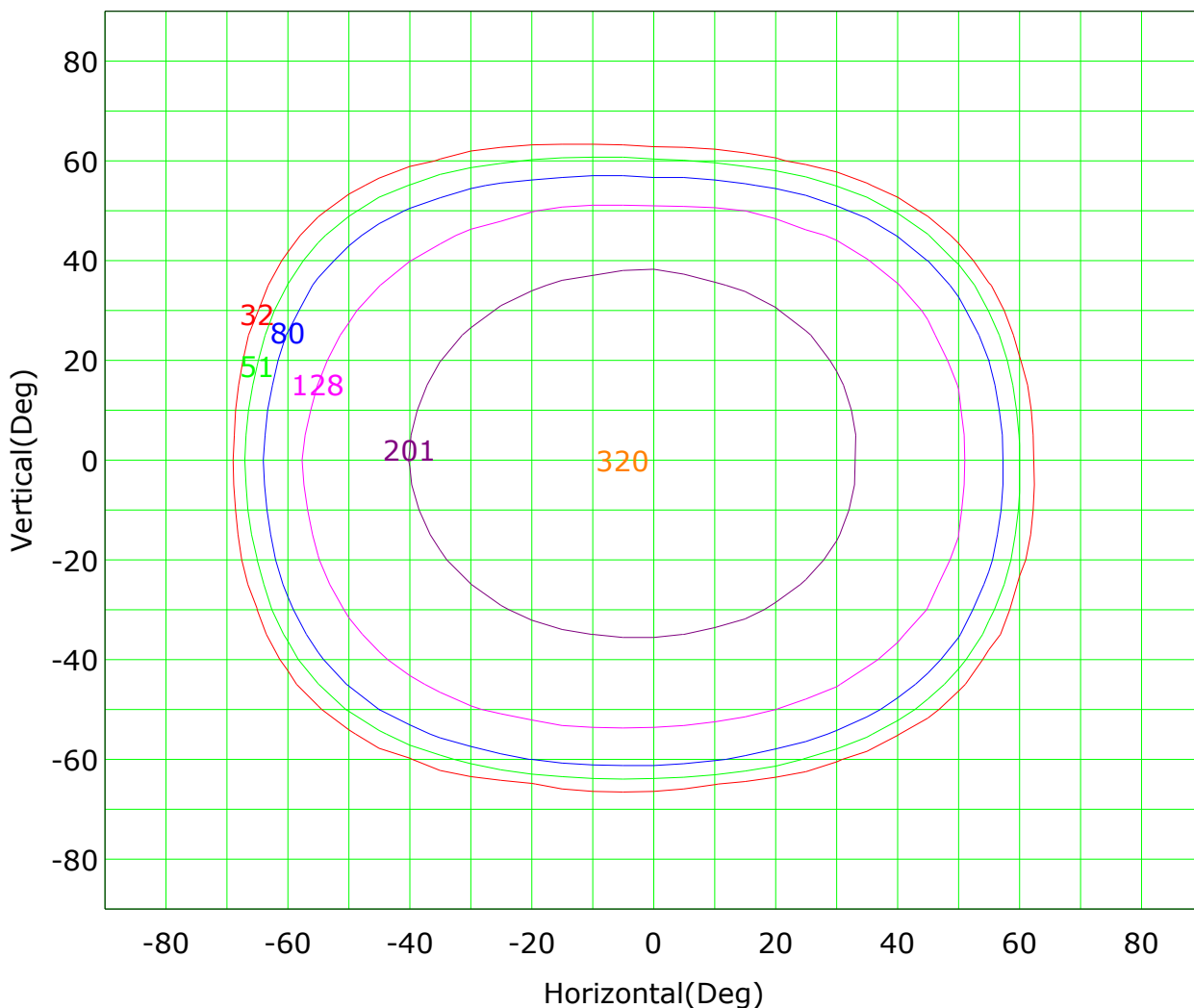
Spacing Criteria (0-180): 1.09  
 Spacing Criteria (90-270): 1.09  
 Spacing Criteria (Diagonal): 1.23



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: 8.508 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## Isocandela (rectangle)



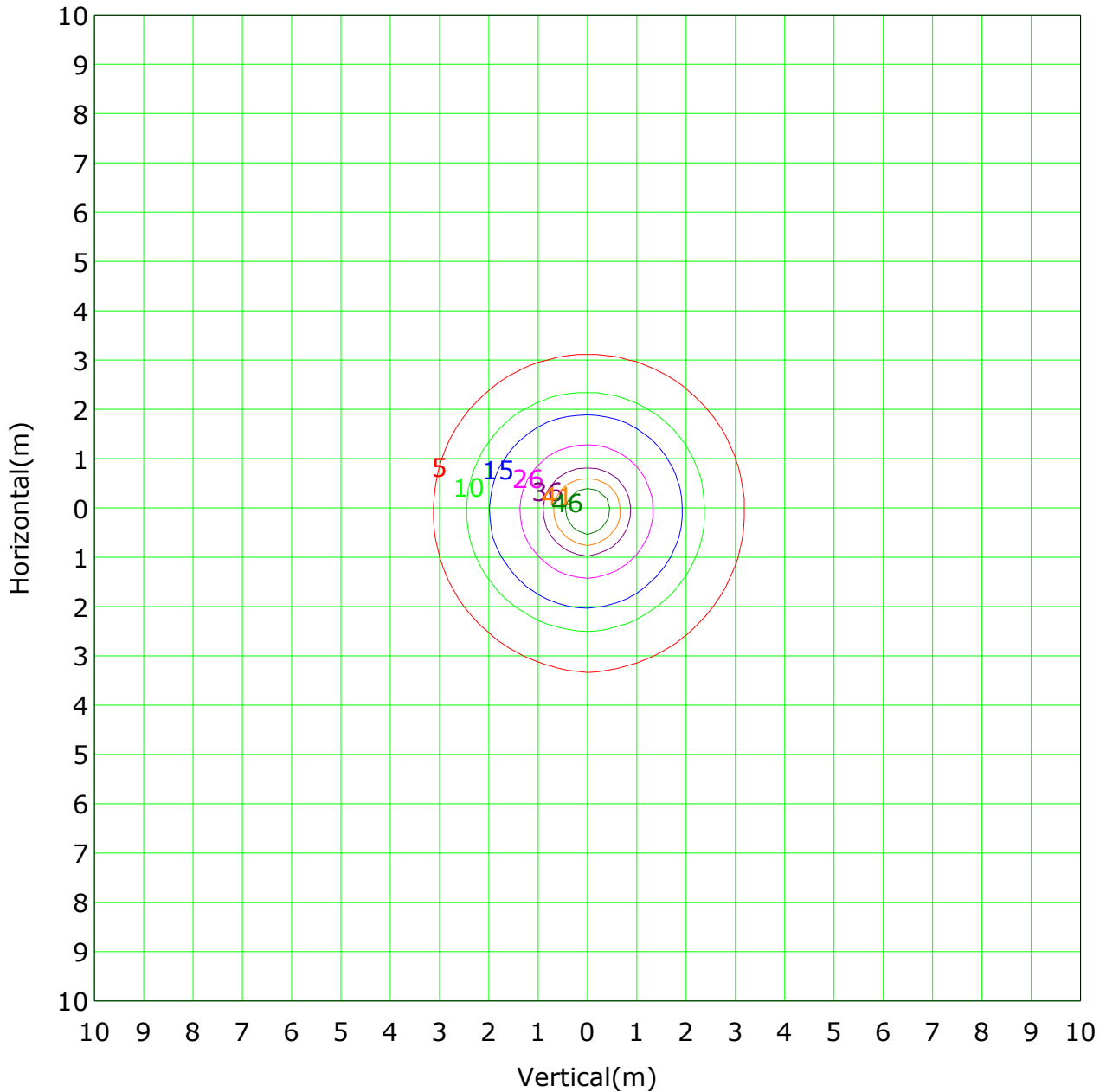
Imax (100%): 320 cd

|           |        |           |        |
|-----------|--------|-----------|--------|
| — ( 10%): | 32 cd  | — ( 16%): | 51 cd  |
| — ( 25%): | 80 cd  | — ( 40%): | 128 cd |
| — ( 63%): | 201 cd | — (100%): | 320 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: 8.508 m [K=1.0000]  
Humidity: 65  
Inspector:

## IsoLux Plot



|                       |         |                        |
|-----------------------|---------|------------------------|
| Mounting Height: 2.5m |         | Max Lux(100%): 51.0 lx |
| — ( 10%):             | 5.1 lx  | — ( 20%): 10.2 lx      |
| — ( 30%):             | 15.3 lx | — ( 50%): 25.5 lx      |
| — ( 70%):             | 35.7 lx | — ( 80%): 40.8 lx      |
| — ( 90%):             | 45.9 lx |                        |

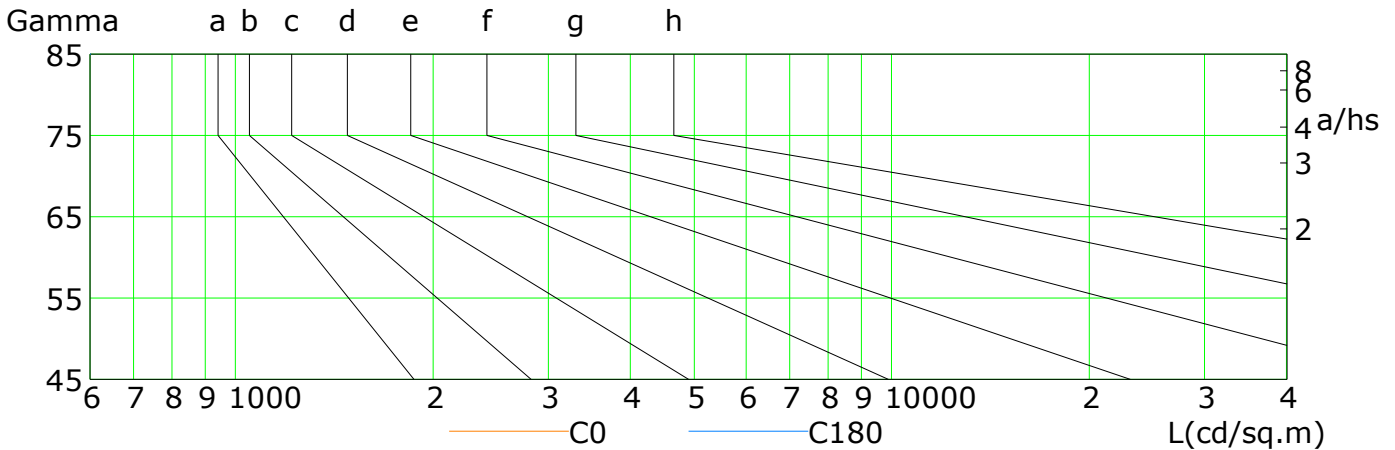
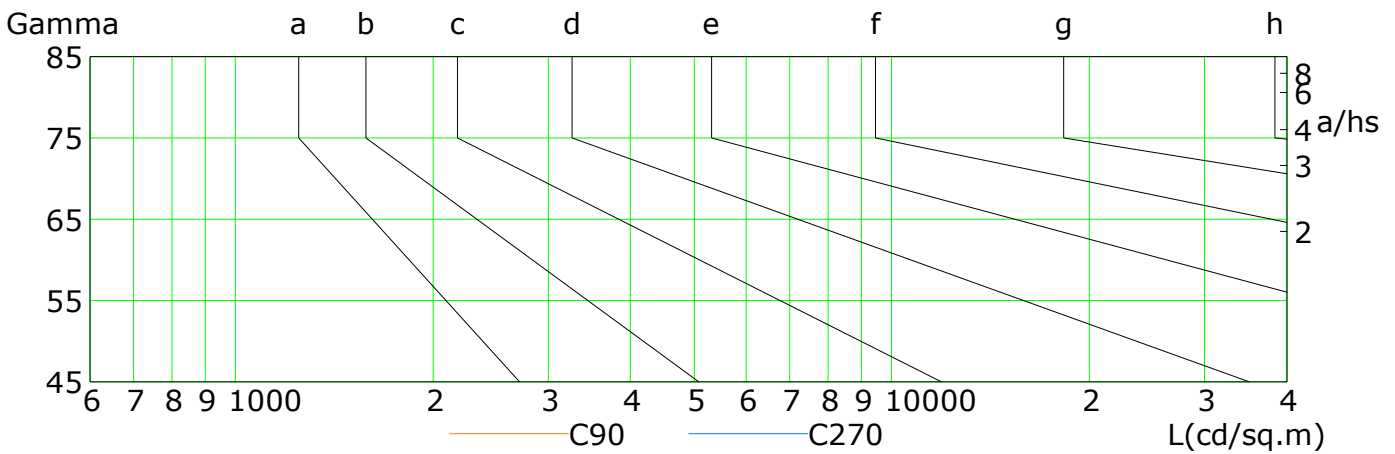
C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.508 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

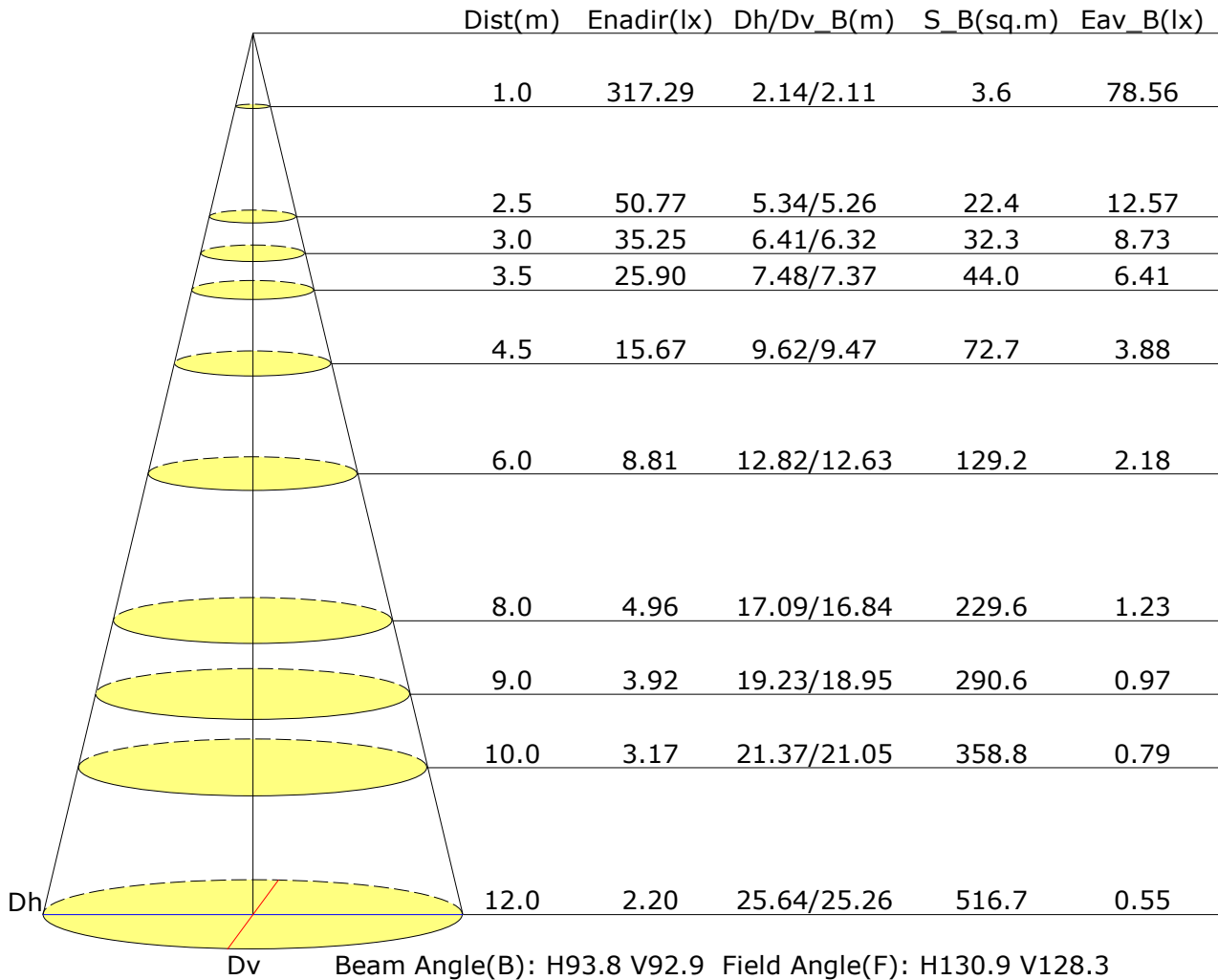


| L(cd/sq.m) | G45 | G50 | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| C0         | 181 | 160 | 140 | 117 | 71  | 21  | 9   | 8   | 5   |
| C90        | 163 | 143 | 122 | 93  | 40  | 12  | 11  | 7   | 4   |
| C180       | 154 | 134 | 105 | 52  | 10  | 8   | 6   | 3   | 0   |
| C270       | 173 | 136 | 93  | 53  | 15  | 7   | 5   | 3   | 1   |

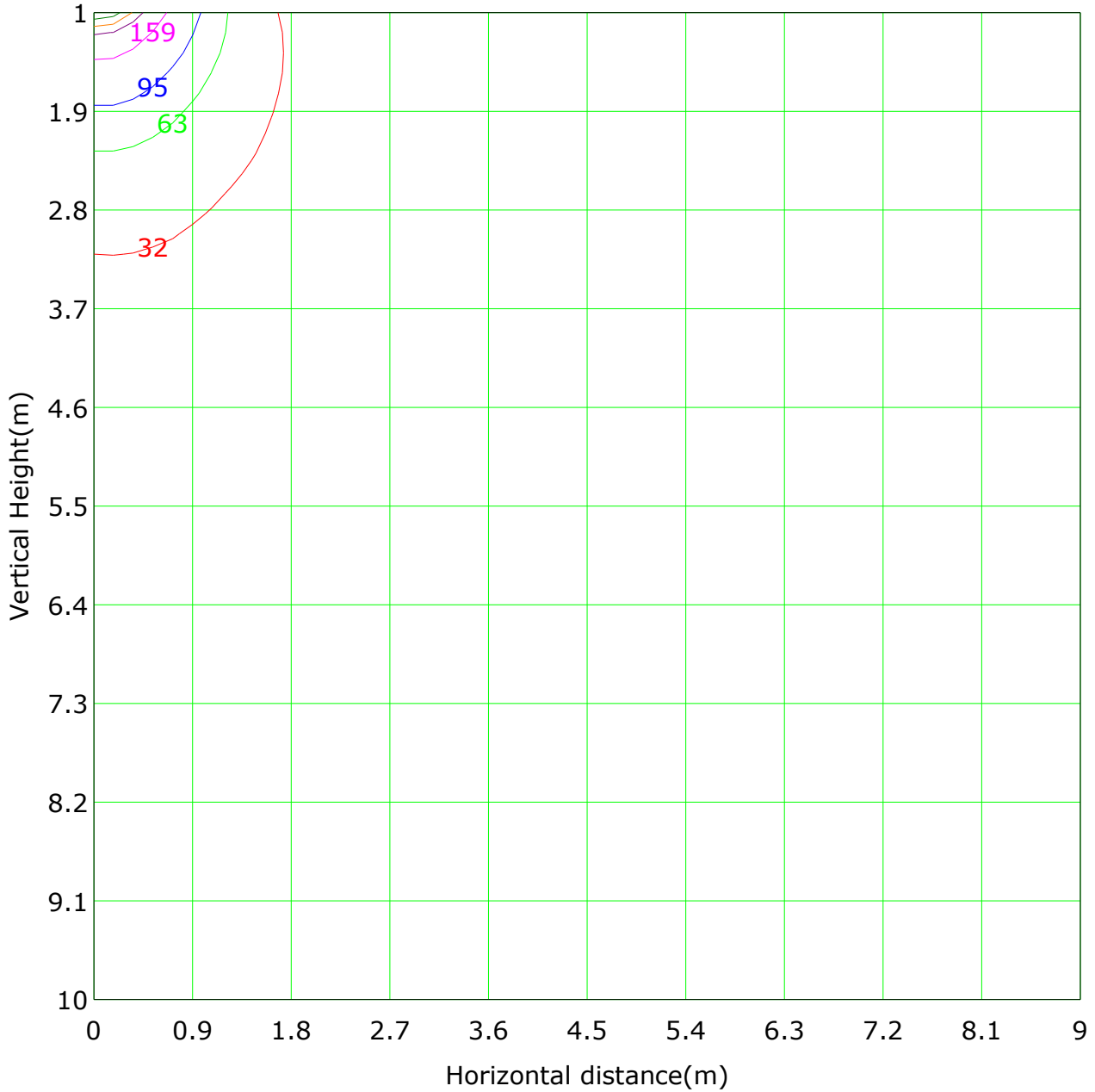
C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.508 m [K=1.0000]  
Humidity: 65  
Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



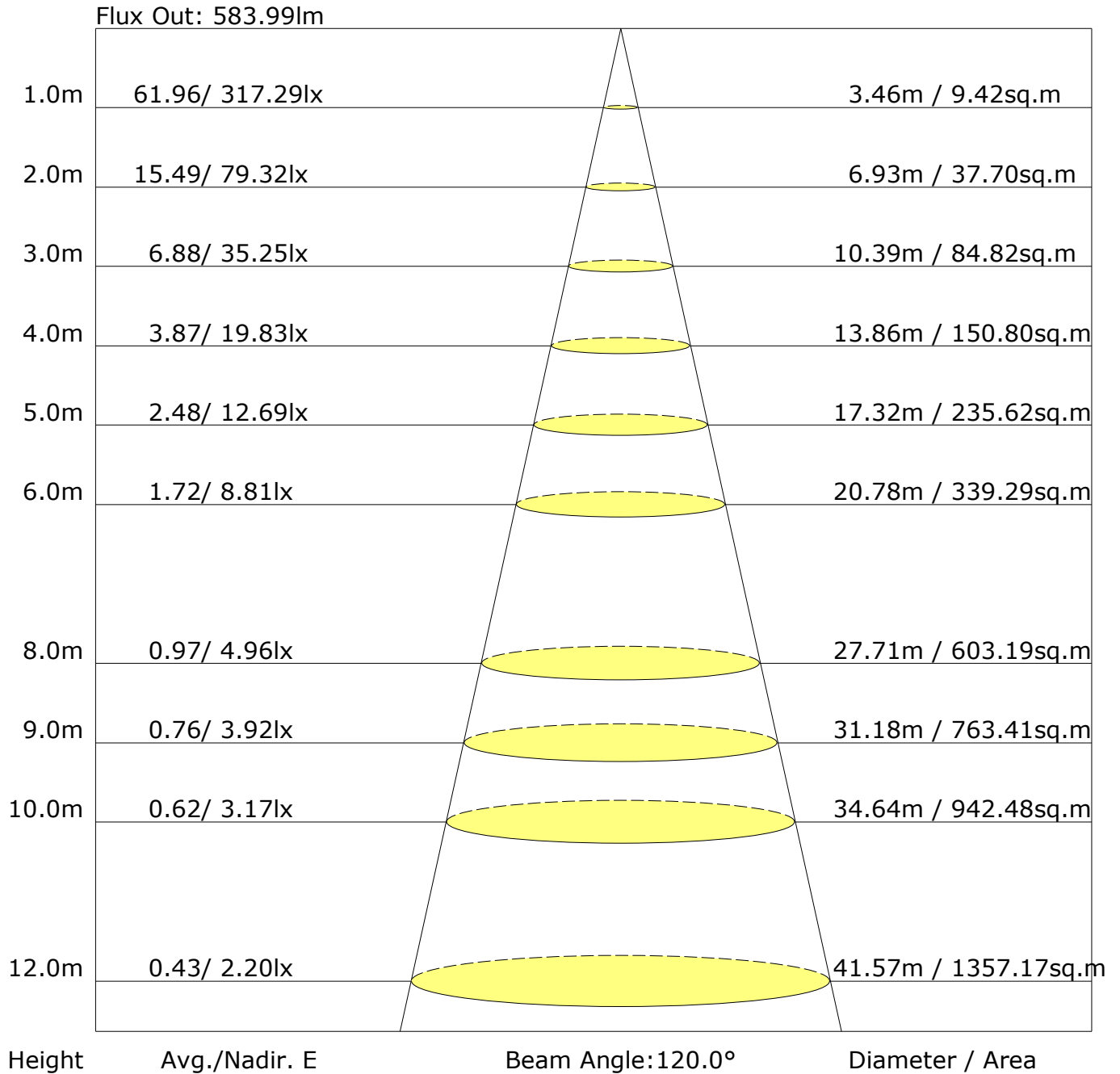
|                    |                    |                   |
|--------------------|--------------------|-------------------|
| Lowest(m): 1.0m    | Highest(m): 10.0m  | Max Lux: 317.3 lx |
| — ( 10%): 31.7 lx  | — ( 20%): 63.5 lx  |                   |
| — ( 30%): 95.2 lx  | — ( 50%): 158.6 lx |                   |
| — ( 70%): 222.1 lx | — ( 80%): 253.8 lx |                   |
| — ( 90%): 285.6 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: 8.508 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: 8.508 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                                             |                  |       |       |       |       |                |       |       |       |       |
|                                                    |                  |       |       |       |       |                |       |       |       |       |
| S=1.5H                                             |                  |       |       |       |       |                |       |       |       |       |
|                                                    |                  |       |       |       |       |                |       |       |       |       |
| S=2.0H                                             |                  |       |       |       |       |                |       |       |       |       |
|                                                    |                  |       |       |       |       |                |       |       |       |       |

Calculate in accordance with CIE Pub.117. The table is revised with  $635lm (8\log(F/F_0) = -1.6)$ .

## 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      | 316.5                     | 0.3                | 0.3                    | 0.05                  | 0.05                      |
| 1.0-2.0      | 316.0                     | 0.9                | 1.2                    | 0.14                  | 0.19                      |
| 2.0-3.0      | 315.5                     | 1.5                | 2.7                    | 0.24                  | 0.43                      |
| 3.0-4.0      | 314.0                     | 2.1                | 4.8                    | 0.33                  | 0.76                      |
| 4.0-5.0      | 313.2                     | 2.7                | 7.5                    | 0.42                  | 1.18                      |
| 5.0-6.0      | 311.9                     | 3.3                | 10.8                   | 0.52                  | 1.70                      |
| 6.0-7.0      | 310.4                     | 3.9                | 14.6                   | 0.61                  | 2.31                      |
| 7.0-8.0      | 308.4                     | 4.4                | 19.1                   | 0.69                  | 3.00                      |
| 8.0-9.0      | 305.9                     | 5.0                | 24.0                   | 0.78                  | 3.78                      |
| 9.0-10.0     | 303.7                     | 5.5                | 29.5                   | 0.87                  | 4.65                      |
| 10.0-11.0    | 300.4                     | 6.0                | 35.5                   | 0.94                  | 5.59                      |
| 11.0-12.0    | 297.8                     | 6.5                | 42.0                   | 1.02                  | 6.62                      |
| 12.0-13.0    | 293.9                     | 7.0                | 49.0                   | 1.10                  | 7.71                      |
| 13.0-14.0    | 289.7                     | 7.4                | 56.4                   | 1.17                  | 8.88                      |
| 14.0-15.0    | 285.6                     | 7.8                | 64.3                   | 1.23                  | 10.12                     |
| 15.0-16.0    | 281.8                     | 8.3                | 72.5                   | 1.30                  | 11.42                     |
| 16.0-17.0    | 278.8                     | 8.7                | 81.2                   | 1.37                  | 12.78                     |
| 17.0-18.0    | 274.8                     | 9.1                | 90.3                   | 1.43                  | 14.21                     |
| 18.0-19.0    | 271.5                     | 9.4                | 99.7                   | 1.49                  | 15.70                     |
| 19.0-20.0    | 267.7                     | 9.8                | 109.5                  | 1.54                  | 17.24                     |
| 20.0-21.0    | 263.7                     | 10.1               | 119.6                  | 1.59                  | 18.83                     |
| 21.0-22.0    | 259.8                     | 10.4               | 130.1                  | 1.64                  | 20.48                     |
| 22.0-23.0    | 255.6                     | 10.7               | 140.8                  | 1.69                  | 22.17                     |
| 23.0-24.0    | 252.1                     | 11.0               | 151.8                  | 1.73                  | 23.90                     |
| 24.0-25.0    | 248.2                     | 11.3               | 163.1                  | 1.78                  | 25.68                     |
| 25.0-26.0    | 244.8                     | 11.6               | 174.7                  | 1.82                  | 27.50                     |
| 26.0-27.0    | 240.9                     | 11.8               | 186.5                  | 1.86                  | 29.35                     |
| 27.0-28.0    | 237.3                     | 12.0               | 198.5                  | 1.89                  | 31.24                     |
| 28.0-29.0    | 233.8                     | 12.2               | 210.7                  | 1.93                  | 33.17                     |
| 29.0-30.0    | 229.7                     | 12.4               | 223.1                  | 1.95                  | 35.12                     |
| 30.0-31.0    | 226.2                     | 12.6               | 235.7                  | 1.98                  | 37.10                     |
| 31.0-32.0    | 222.0                     | 12.7               | 248.4                  | 2.00                  | 39.10                     |
| 32.0-33.0    | 218.3                     | 12.9               | 261.3                  | 2.02                  | 41.13                     |
| 33.0-34.0    | 214.3                     | 13.0               | 274.3                  | 2.04                  | 43.17                     |
| 34.0-35.0    | 210.1                     | 13.0               | 287.3                  | 2.05                  | 45.23                     |
| 35.0-36.0    | 206.2                     | 13.1               | 300.4                  | 2.07                  | 47.29                     |

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Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.508 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    | 201.9         | 13.2               | 313.6                  | 2.07                  | 49.37                     |
| 37.0-38.0    | 198.2         | 13.2               | 326.8                  | 2.08                  | 51.45                     |
| 38.0-39.0    | 193.8         | 13.2               | 340.1                  | 2.08                  | 53.53                     |
| 39.0-40.0    | 190.0         | 13.3               | 353.3                  | 2.09                  | 55.62                     |
| 40.0-41.0    | 186.1         | 13.3               | 366.6                  | 2.09                  | 57.70                     |
| 41.0-42.0    | 182.0         | 13.2               | 379.8                  | 2.08                  | 59.78                     |
| 42.0-43.0    | 178.1         | 13.2               | 393.0                  | 2.08                  | 61.86                     |
| 43.0-44.0    | 173.6         | 13.1               | 406.1                  | 2.06                  | 63.92                     |
| 44.0-45.0    | 169.6         | 13.0               | 419.1                  | 2.05                  | 65.98                     |
| 45.0-46.0    | 165.0         | 12.9               | 432.0                  | 2.03                  | 68.01                     |
| 46.0-47.0    | 160.7         | 12.8               | 444.8                  | 2.01                  | 70.02                     |
| 47.0-48.0    | 156.1         | 12.6               | 457.4                  | 1.99                  | 72.00                     |
| 48.0-49.0    | 150.9         | 12.4               | 469.8                  | 1.95                  | 73.95                     |
| 49.0-50.0    | 146.0         | 12.2               | 482.0                  | 1.92                  | 75.87                     |
| 50.0-51.0    | 141.1         | 11.9               | 493.9                  | 1.88                  | 77.75                     |
| 51.0-52.0    | 136.8         | 11.7               | 505.7                  | 1.85                  | 79.60                     |
| 52.0-53.0    | 131.7         | 11.5               | 517.1                  | 1.80                  | 81.40                     |
| 53.0-54.0    | 125.4         | 11.1               | 528.2                  | 1.74                  | 83.14                     |
| 54.0-55.0    | 118.6         | 10.6               | 538.8                  | 1.67                  | 84.81                     |
| 55.0-56.0    | 111.9         | 10.1               | 548.9                  | 1.59                  | 86.40                     |
| 56.0-57.0    | 105.1         | 9.6                | 558.5                  | 1.51                  | 87.91                     |
| 57.0-58.0    | 98.2          | 9.1                | 567.6                  | 1.43                  | 89.34                     |
| 58.0-59.0    | 91.3          | 8.5                | 576.1                  | 1.34                  | 90.69                     |
| 59.0-60.0    | 83.2          | 7.9                | 584.0                  | 1.24                  | 91.93                     |
| 60.0-61.0    | 74.3          | 7.1                | 591.1                  | 1.12                  | 93.04                     |
| 61.0-62.0    | 65.3          | 6.3                | 597.4                  | 0.99                  | 94.03                     |
| 62.0-63.0    | 56.1          | 5.5                | 602.8                  | 0.86                  | 94.89                     |
| 63.0-64.0    | 46.6          | 4.6                | 607.4                  | 0.72                  | 95.61                     |
| 64.0-65.0    | 37.9          | 3.8                | 611.2                  | 0.59                  | 96.20                     |
| 65.0-66.0    | 30.7          | 3.1                | 614.2                  | 0.48                  | 96.68                     |
| 66.0-67.0    | 24.5          | 2.5                | 616.7                  | 0.39                  | 97.07                     |
| 67.0-68.0    | 19.5          | 2.0                | 618.7                  | 0.31                  | 97.38                     |
| 68.0-69.0    | 16.1          | 1.6                | 620.3                  | 0.26                  | 97.64                     |
| 69.0-70.0    | 13.3          | 1.4                | 621.7                  | 0.22                  | 97.86                     |
| 70.0-71.0    | 11.0          | 1.1                | 622.8                  | 0.18                  | 98.04                     |
| 71.0-72.0    | 9.5           | 1.0                | 623.8                  | 0.16                  | 98.19                     |

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: 8.508 m [K=1.0000]  
Humidity: 65  
Inspector:

## Zonal Lumen (Continue 2)

| Gamma<br>[°] | Imean<br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------|--------------------|------------------------|-----------------------|---------------------------|
| 72.0-73.0    | 8.8           | 0.9                | 624.7                  | 0.14                  | 98.34                     |
| 73.0-74.0    | 8.3           | 0.9                | 625.6                  | 0.14                  | 98.47                     |
| 74.0-75.0    | 7.9           | 0.8                | 626.4                  | 0.13                  | 98.61                     |
| 75.0-76.0    | 7.5           | 0.8                | 627.2                  | 0.13                  | 98.73                     |
| 76.0-77.0    | 7.1           | 0.8                | 628.0                  | 0.12                  | 98.85                     |
| 77.0-78.0    | 6.6           | 0.7                | 628.7                  | 0.11                  | 98.96                     |
| 78.0-79.0    | 6.1           | 0.7                | 629.3                  | 0.10                  | 99.06                     |
| 79.0-80.0    | 5.5           | 0.6                | 629.9                  | 0.09                  | 99.16                     |
| 80.0-81.0    | 4.9           | 0.5                | 630.5                  | 0.08                  | 99.24                     |
| 81.0-82.0    | 4.4           | 0.5                | 630.9                  | 0.07                  | 99.32                     |
| 82.0-83.0    | 3.8           | 0.4                | 631.3                  | 0.07                  | 99.38                     |
| 83.0-84.0    | 3.2           | 0.4                | 631.7                  | 0.06                  | 99.44                     |
| 84.0-85.0    | 2.7           | 0.3                | 632.0                  | 0.05                  | 99.48                     |
| 85.0-86.0    | 2.1           | 0.2                | 632.2                  | 0.04                  | 99.52                     |
| 86.0-87.0    | 1.7           | 0.2                | 632.4                  | 0.03                  | 99.55                     |
| 87.0-88.0    | 1.4           | 0.2                | 632.6                  | 0.02                  | 99.57                     |
| 88.0-89.0    | 1.1           | 0.1                | 632.7                  | 0.02                  | 99.59                     |
| 89.0-90.0    | 0.8           | 0.1                | 632.8                  | 0.01                  | 99.61                     |
| 90.0-91.0    | 0.5           | 0.1                | 632.8                  | 0.01                  | 99.61                     |
| 91.0-92.0    | 0.3           | 0.0                | 632.9                  | 0.01                  | 99.62                     |
| 92.0-93.0    | 0.1           | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 93.0-94.0    | 0.0           | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 94.0-95.0    | 0.0           | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 95.0-96.0    | 0.0           | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 96.0-97.0    | 0.0           | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 97.0-98.0    | 0.0           | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 98.0-99.0    | 0.0           | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 99.0-100.0   | 0.0           | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 100.0-101.0  | 0.0           | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 101.0-102.0  | 0.0           | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 102.0-103.0  | 0.0           | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 103.0-104.0  | 0.0           | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 104.0-105.0  | 0.0           | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 105.0-106.0  | 0.0           | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 106.0-107.0  | 0.0           | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 107.0-108.0  | 0.0           | 0.0                | 632.9                  | 0.00                  | 99.62                     |

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: 8.508 m [K=1.0000]  
Humidity: 65  
Inspector:

### Zonal Lumen (Continue 3)

| 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>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 108.0-109.0  | 0.0                       | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 109.0-110.0  | 0.0                       | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 110.0-111.0  | 0.0                       | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 111.0-112.0  | 0.0                       | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 112.0-113.0  | 0.0                       | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 113.0-114.0  | 0.0                       | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 114.0-115.0  | 0.0                       | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 115.0-116.0  | 0.0                       | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 116.0-117.0  | 0.0                       | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 117.0-118.0  | 0.0                       | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 118.0-119.0  | 0.0                       | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 119.0-120.0  | 0.0                       | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 120.0-121.0  | 0.0                       | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 121.0-122.0  | 0.0                       | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 122.0-123.0  | 0.1                       | 0.0                | 632.9                  | 0.00                  | 99.62                     |
| 123.0-124.0  | 0.1                       | 0.0                | 632.9                  | 0.00                  | 99.63                     |
| 124.0-125.0  | 0.1                       | 0.0                | 632.9                  | 0.00                  | 99.63                     |
| 125.0-126.0  | 0.2                       | 0.0                | 632.9                  | 0.00                  | 99.63                     |
| 126.0-127.0  | 0.2                       | 0.0                | 632.9                  | 0.00                  | 99.63                     |
| 127.0-128.0  | 0.2                       | 0.0                | 633.0                  | 0.00                  | 99.63                     |
| 128.0-129.0  | 0.2                       | 0.0                | 633.0                  | 0.00                  | 99.64                     |
| 129.0-130.0  | 0.2                       | 0.0                | 633.0                  | 0.00                  | 99.64                     |
| 130.0-131.0  | 0.4                       | 0.0                | 633.0                  | 0.01                  | 99.64                     |
| 131.0-132.0  | 0.5                       | 0.0                | 633.1                  | 0.01                  | 99.65                     |
| 132.0-133.0  | 0.6                       | 0.0                | 633.1                  | 0.01                  | 99.66                     |
| 133.0-134.0  | 0.6                       | 0.0                | 633.2                  | 0.01                  | 99.67                     |
| 134.0-135.0  | 0.6                       | 0.0                | 633.2                  | 0.01                  | 99.67                     |
| 135.0-136.0  | 0.7                       | 0.1                | 633.3                  | 0.01                  | 99.68                     |
| 136.0-137.0  | 0.7                       | 0.1                | 633.3                  | 0.01                  | 99.69                     |
| 137.0-138.0  | 0.8                       | 0.1                | 633.4                  | 0.01                  | 99.70                     |
| 138.0-139.0  | 0.8                       | 0.1                | 633.4                  | 0.01                  | 99.71                     |
| 139.0-140.0  | 0.8                       | 0.1                | 633.5                  | 0.01                  | 99.72                     |
| 140.0-141.0  | 0.9                       | 0.1                | 633.6                  | 0.01                  | 99.73                     |
| 141.0-142.0  | 0.9                       | 0.1                | 633.6                  | 0.01                  | 99.74                     |
| 142.0-143.0  | 0.9                       | 0.1                | 633.7                  | 0.01                  | 99.75                     |
| 143.0-144.0  | 1.0                       | 0.1                | 633.7                  | 0.01                  | 99.76                     |

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: 8.508 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  | 1.0                       | 0.1                | 633.8                  | 0.01                  | 99.77                     |
| 145.0-146.0  | 1.0                       | 0.1                | 633.9                  | 0.01                  | 99.78                     |
| 146.0-147.0  | 1.1                       | 0.1                | 633.9                  | 0.01                  | 99.79                     |
| 147.0-148.0  | 1.1                       | 0.1                | 634.0                  | 0.01                  | 99.80                     |
| 148.0-149.0  | 1.1                       | 0.1                | 634.1                  | 0.01                  | 99.81                     |
| 149.0-150.0  | 1.1                       | 0.1                | 634.1                  | 0.01                  | 99.82                     |
| 150.0-151.0  | 1.2                       | 0.1                | 634.2                  | 0.01                  | 99.83                     |
| 151.0-152.0  | 1.2                       | 0.1                | 634.2                  | 0.01                  | 99.84                     |
| 152.0-153.0  | 1.2                       | 0.1                | 634.3                  | 0.01                  | 99.85                     |
| 153.0-154.0  | 1.3                       | 0.1                | 634.4                  | 0.01                  | 99.86                     |
| 154.0-155.0  | 1.3                       | 0.1                | 634.4                  | 0.01                  | 99.87                     |
| 155.0-156.0  | 1.3                       | 0.1                | 634.5                  | 0.01                  | 99.88                     |
| 156.0-157.0  | 1.3                       | 0.1                | 634.5                  | 0.01                  | 99.88                     |
| 157.0-158.0  | 1.4                       | 0.1                | 634.6                  | 0.01                  | 99.89                     |
| 158.0-159.0  | 1.4                       | 0.1                | 634.7                  | 0.01                  | 99.90                     |
| 159.0-160.0  | 1.4                       | 0.1                | 634.7                  | 0.01                  | 99.91                     |
| 160.0-161.0  | 1.4                       | 0.1                | 634.8                  | 0.01                  | 99.92                     |
| 161.0-162.0  | 1.4                       | 0.0                | 634.8                  | 0.01                  | 99.93                     |
| 162.0-163.0  | 1.4                       | 0.0                | 634.9                  | 0.01                  | 99.93                     |
| 163.0-164.0  | 1.5                       | 0.0                | 634.9                  | 0.01                  | 99.94                     |
| 164.0-165.0  | 1.5                       | 0.0                | 635.0                  | 0.01                  | 99.95                     |
| 165.0-166.0  | 1.5                       | 0.0                | 635.0                  | 0.01                  | 99.95                     |
| 166.0-167.0  | 1.5                       | 0.0                | 635.0                  | 0.01                  | 99.96                     |
| 167.0-168.0  | 1.5                       | 0.0                | 635.1                  | 0.01                  | 99.97                     |
| 168.0-169.0  | 1.5                       | 0.0                | 635.1                  | 0.01                  | 99.97                     |
| 169.0-170.0  | 1.5                       | 0.0                | 635.1                  | 0.00                  | 99.98                     |
| 170.0-171.0  | 1.6                       | 0.0                | 635.2                  | 0.00                  | 99.98                     |
| 171.0-172.0  | 1.6                       | 0.0                | 635.2                  | 0.00                  | 99.98                     |
| 172.0-173.0  | 1.6                       | 0.0                | 635.2                  | 0.00                  | 99.99                     |
| 173.0-174.0  | 1.6                       | 0.0                | 635.2                  | 0.00                  | 99.99                     |
| 174.0-175.0  | 1.6                       | 0.0                | 635.2                  | 0.00                  | 99.99                     |
| 175.0-176.0  | 1.6                       | 0.0                | 635.3                  | 0.00                  | 100.00                    |
| 176.0-177.0  | 1.6                       | 0.0                | 635.3                  | 0.00                  | 100.00                    |
| 177.0-178.0  | 1.6                       | 0.0                | 635.3                  | 0.00                  | 100.00                    |
| 178.0-179.0  | 1.6                       | 0.0                | 635.3                  | 0.00                  | 100.00                    |
| 179.0-180.0  | 1.6                       | 0.0                | 635.3                  | 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: 8.508 m [K=1.0000]  
Humidity: 65  
Inspector:

## Zonal Lumen (Continue 5)

cone flux(90°): 419.13 lm

%lum = 66.0%

%lamp = 66.0%

cone flux(120°): 583.99 lm

%lum = 91.9%

%lamp = 91.9%



## Candlepower Table

Unit: cd

| G\C   | C0.0  | C90.0 | C180.0 | C270.0 | C360.0 |  |  |  |  |  |
|-------|-------|-------|--------|--------|--------|--|--|--|--|--|
| G0.0  | 317.3 | 317.3 | 317.3  | 317.3  | 317.3  |  |  |  |  |  |
| G1.0  | 318.8 | 314.4 | 316.6  | 313.1  | 318.8  |  |  |  |  |  |
| G2.0  | 319.4 | 314.5 | 315.4  | 316.0  | 319.4  |  |  |  |  |  |
| G3.0  | 319.7 | 313.8 | 313.4  | 311.3  | 319.7  |  |  |  |  |  |
| G4.0  | 319.8 | 310.6 | 310.7  | 312.3  | 319.8  |  |  |  |  |  |
| G5.0  | 319.8 | 314.1 | 307.8  | 311.0  | 319.8  |  |  |  |  |  |
| G6.0  | 319.7 | 308.5 | 306.3  | 307.7  | 319.7  |  |  |  |  |  |
| G7.0  | 318.6 | 310.4 | 303.4  | 308.6  | 318.6  |  |  |  |  |  |
| G8.0  | 317.2 | 306.8 | 300.3  | 301.6  | 317.2  |  |  |  |  |  |
| G9.0  | 314.2 | 306.2 | 297.0  | 304.0  | 314.2  |  |  |  |  |  |
| G10.0 | 312.6 | 303.9 | 293.5  | 298.5  | 312.6  |  |  |  |  |  |
| G11.0 | 311.2 | 297.6 | 287.5  | 298.4  | 311.2  |  |  |  |  |  |
| G12.0 | 310.7 | 298.4 | 282.5  | 296.2  | 310.7  |  |  |  |  |  |
| G13.0 | 307.5 | 288.5 | 277.5  | 289.9  | 307.5  |  |  |  |  |  |
| G14.0 | 303.9 | 288.3 | 272.9  | 288.7  | 303.9  |  |  |  |  |  |
| G15.0 | 298.8 | 282.9 | 269.1  | 280.5  | 298.8  |  |  |  |  |  |
| G16.0 | 295.4 | 280.9 | 265.2  | 281.7  | 295.4  |  |  |  |  |  |
| G17.0 | 292.2 | 278.2 | 261.4  | 275.5  | 292.2  |  |  |  |  |  |
| G18.0 | 288.9 | 270.9 | 257.5  | 273.6  | 288.9  |  |  |  |  |  |
| G19.0 | 285.5 | 270.5 | 254.0  | 271.4  | 285.5  |  |  |  |  |  |
| G20.0 | 282.4 | 261.3 | 250.5  | 266.0  | 282.4  |  |  |  |  |  |
| G21.0 | 278.3 | 259.8 | 246.8  | 264.5  | 278.3  |  |  |  |  |  |
| G22.0 | 273.9 | 254.7 | 243.3  | 257.4  | 273.9  |  |  |  |  |  |
| G23.0 | 270.0 | 250.3 | 238.6  | 256.8  | 270.0  |  |  |  |  |  |
| G24.0 | 266.2 | 248.0 | 235.0  | 251.5  | 266.2  |  |  |  |  |  |
| G25.0 | 262.6 | 241.6 | 231.4  | 248.9  | 262.6  |  |  |  |  |  |
| G26.0 | 257.6 | 241.9 | 227.7  | 246.3  | 257.6  |  |  |  |  |  |
| G27.0 | 254.1 | 235.0 | 224.0  | 240.4  | 254.1  |  |  |  |  |  |
| G28.0 | 250.6 | 233.3 | 221.2  | 240.0  | 250.6  |  |  |  |  |  |
| G29.0 | 246.7 | 228.3 | 217.5  | 233.0  | 246.7  |  |  |  |  |  |
| G30.0 | 242.9 | 223.7 | 213.8  | 231.5  | 242.9  |  |  |  |  |  |
| G31.0 | 240.0 | 220.1 | 210.1  | 227.7  | 240.0  |  |  |  |  |  |
| G32.0 | 236.2 | 213.6 | 205.1  | 222.9  | 236.2  |  |  |  |  |  |
| G33.0 | 232.3 | 213.7 | 201.2  | 221.3  | 232.3  |  |  |  |  |  |
| G34.0 | 227.0 | 206.9 | 197.5  | 214.6  | 227.0  |  |  |  |  |  |
| G35.0 | 222.8 | 203.9 | 193.6  | 214.1  | 222.8  |  |  |  |  |  |
| G36.0 | 218.5 | 198.8 | 189.9  | 208.0  | 218.5  |  |  |  |  |  |

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: 8.508 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 | 214.4 | 194.5 | 186.0  | 205.1  | 214.4  |  |  |  |  |  |
| G38.0 | 210.2 | 191.2 | 182.1  | 201.9  | 210.2  |  |  |  |  |  |
| G39.0 | 206.0 | 185.2 | 178.2  | 195.7  | 206.0  |  |  |  |  |  |
| G40.0 | 202.1 | 184.2 | 174.1  | 194.3  | 202.1  |  |  |  |  |  |
| G41.0 | 198.1 | 178.1 | 170.3  | 187.5  | 198.1  |  |  |  |  |  |
| G42.0 | 194.0 | 175.9 | 166.3  | 185.5  | 194.0  |  |  |  |  |  |
| G43.0 | 188.7 | 171.2 | 162.4  | 180.5  | 188.7  |  |  |  |  |  |
| G44.0 | 184.8 | 165.9 | 158.6  | 176.9  | 184.8  |  |  |  |  |  |
| G45.0 | 180.9 | 163.0 | 153.6  | 172.9  | 180.9  |  |  |  |  |  |
| G46.0 | 177.5 | 157.3 | 149.7  | 165.3  | 177.5  |  |  |  |  |  |
| G47.0 | 173.4 | 156.2 | 145.8  | 160.2  | 173.4  |  |  |  |  |  |
| G48.0 | 169.4 | 150.1 | 142.2  | 151.1  | 169.4  |  |  |  |  |  |
| G49.0 | 164.5 | 147.5 | 138.3  | 143.8  | 164.5  |  |  |  |  |  |
| G50.0 | 160.5 | 143.1 | 134.4  | 135.7  | 160.5  |  |  |  |  |  |
| G51.0 | 156.1 | 138.2 | 129.5  | 131.5  | 156.1  |  |  |  |  |  |
| G52.0 | 152.1 | 135.4 | 125.6  | 125.9  | 152.1  |  |  |  |  |  |
| G53.0 | 148.2 | 129.9 | 120.0  | 116.2  | 148.2  |  |  |  |  |  |
| G54.0 | 144.3 | 127.6 | 112.8  | 104.3  | 144.3  |  |  |  |  |  |
| G55.0 | 140.3 | 122.2 | 104.5  | 93.1   | 140.3  |  |  |  |  |  |
| G56.0 | 136.2 | 119.6 | 94.8   | 84.6   | 136.2  |  |  |  |  |  |
| G57.0 | 131.1 | 115.2 | 84.8   | 74.7   | 131.1  |  |  |  |  |  |
| G58.0 | 127.1 | 109.6 | 75.0   | 68.1   | 127.1  |  |  |  |  |  |
| G59.0 | 123.2 | 102.5 | 63.0   | 61.7   | 123.2  |  |  |  |  |  |
| G60.0 | 117.1 | 93.2  | 52.0   | 53.2   | 117.1  |  |  |  |  |  |
| G61.0 | 110.1 | 83.9  | 41.3   | 43.2   | 110.1  |  |  |  |  |  |
| G62.0 | 102.1 | 73.0  | 32.8   | 35.7   | 102.1  |  |  |  |  |  |
| G63.0 | 92.2  | 62.5  | 23.1   | 27.6   | 92.2   |  |  |  |  |  |
| G64.0 | 81.4  | 50.7  | 15.0   | 20.3   | 81.4   |  |  |  |  |  |
| G65.0 | 70.9  | 39.9  | 10.3   | 14.9   | 70.9   |  |  |  |  |  |
| G66.0 | 60.3  | 30.0  | 9.2    | 10.0   | 60.3   |  |  |  |  |  |
| G67.0 | 49.5  | 20.1  | 8.9    | 7.9    | 49.5   |  |  |  |  |  |
| G68.0 | 39.7  | 14.0  | 8.7    | 7.6    | 39.7   |  |  |  |  |  |
| G69.0 | 30.5  | 12.5  | 8.4    | 7.1    | 30.5   |  |  |  |  |  |
| G70.0 | 21.0  | 12.4  | 8.1    | 6.8    | 21.0   |  |  |  |  |  |
| G71.0 | 13.7  | 12.2  | 7.7    | 6.4    | 13.7   |  |  |  |  |  |
| G72.0 | 10.6  | 11.9  | 7.4    | 6.1    | 10.6   |  |  |  |  |  |
| G73.0 | 10.0  | 11.4  | 7.0    | 5.7    | 10.0   |  |  |  |  |  |

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: 8.508 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  | 9.8  | 11.0  | 6.4    | 5.3    | 9.8    |  |  |  |  |  |
| G75.0  | 9.5  | 10.5  | 6.0    | 4.9    | 9.5    |  |  |  |  |  |
| G76.0  | 9.2  | 10.1  | 5.4    | 4.6    | 9.2    |  |  |  |  |  |
| G77.0  | 8.9  | 9.4   | 4.9    | 4.3    | 8.9    |  |  |  |  |  |
| G78.0  | 8.5  | 8.7   | 4.3    | 3.7    | 8.5    |  |  |  |  |  |
| G79.0  | 8.1  | 8.0   | 3.8    | 3.2    | 8.1    |  |  |  |  |  |
| G80.0  | 7.7  | 7.4   | 3.2    | 2.7    | 7.7    |  |  |  |  |  |
| G81.0  | 7.1  | 6.5   | 2.6    | 2.2    | 7.1    |  |  |  |  |  |
| G82.0  | 6.6  | 5.9   | 2.1    | 1.9    | 6.6    |  |  |  |  |  |
| G83.0  | 6.0  | 5.0   | 1.6    | 1.4    | 6.0    |  |  |  |  |  |
| G84.0  | 5.4  | 4.4   | 1.0    | 1.0    | 5.4    |  |  |  |  |  |
| G85.0  | 4.9  | 3.8   | 0.0    | 0.8    | 4.9    |  |  |  |  |  |
| G86.0  | 4.2  | 3.2   | 0.0    | 0.0    | 4.2    |  |  |  |  |  |
| G87.0  | 3.7  | 2.5   | 0.0    | 0.0    | 3.7    |  |  |  |  |  |
| G88.0  | 3.1  | 2.0   | 0.0    | 0.0    | 3.1    |  |  |  |  |  |
| G89.0  | 2.6  | 1.3   | 0.0    | 0.0    | 2.6    |  |  |  |  |  |
| G90.0  | 2.0  | 0.8   | 0.0    | 0.0    | 2.0    |  |  |  |  |  |
| G91.0  | 1.5  | 0.0   | 0.0    | 0.0    | 1.5    |  |  |  |  |  |
| G92.0  | 1.0  | 0.0   | 0.0    | 0.0    | 1.0    |  |  |  |  |  |
| G93.0  | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G94.0  | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G95.0  | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G96.0  | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G97.0  | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G98.0  | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G99.0  | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G100.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G101.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G102.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G103.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G104.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G105.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G106.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G107.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G108.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G109.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G110.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |

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: 8.508 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 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G112.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G113.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G114.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G115.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G116.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G117.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G118.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G119.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G120.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G121.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G122.0 | 0.0  | 0.0   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G123.0 | 0.0  | 0.5   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G124.0 | 0.0  | 0.6   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G125.0 | 0.0  | 0.6   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G126.0 | 0.0  | 0.6   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G127.0 | 0.0  | 0.6   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G128.0 | 0.0  | 0.7   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G129.0 | 0.0  | 0.7   | 0.0    | 0.0    | 0.0    |  |  |  |  |  |
| G130.0 | 0.0  | 0.7   | 0.6    | 0.0    | 0.0    |  |  |  |  |  |
| G131.0 | 0.6  | 0.7   | 0.6    | 0.0    | 0.6    |  |  |  |  |  |
| G132.0 | 0.6  | 0.8   | 0.6    | 0.0    | 0.6    |  |  |  |  |  |
| G133.0 | 0.6  | 0.8   | 0.6    | 0.5    | 0.6    |  |  |  |  |  |
| G134.0 | 0.7  | 0.9   | 0.7    | 0.0    | 0.7    |  |  |  |  |  |
| G135.0 | 0.7  | 0.9   | 0.7    | 0.6    | 0.7    |  |  |  |  |  |
| G136.0 | 0.7  | 0.9   | 0.7    | 0.5    | 0.7    |  |  |  |  |  |
| G137.0 | 0.8  | 0.9   | 0.7    | 0.6    | 0.8    |  |  |  |  |  |
| G138.0 | 0.8  | 1.0   | 0.7    | 0.6    | 0.8    |  |  |  |  |  |
| G139.0 | 0.8  | 1.0   | 0.7    | 0.7    | 0.8    |  |  |  |  |  |
| G140.0 | 0.8  | 1.1   | 0.8    | 0.7    | 0.8    |  |  |  |  |  |
| G141.0 | 0.9  | 1.1   | 0.8    | 0.7    | 0.9    |  |  |  |  |  |
| G142.0 | 0.9  | 1.1   | 0.9    | 0.7    | 0.9    |  |  |  |  |  |
| G143.0 | 1.0  | 1.1   | 0.9    | 0.8    | 1.0    |  |  |  |  |  |
| G144.0 | 1.0  | 1.2   | 1.0    | 0.8    | 1.0    |  |  |  |  |  |
| G145.0 | 1.0  | 1.2   | 1.0    | 0.8    | 1.0    |  |  |  |  |  |
| G146.0 | 1.0  | 1.2   | 1.0    | 0.9    | 1.0    |  |  |  |  |  |
| G147.0 | 1.1  | 1.2   | 1.1    | 0.9    | 1.1    |  |  |  |  |  |

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: 8.508 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 | 1.1  | 1.3   | 1.1    | 0.9    | 1.1    |  |  |  |  |  |
| G149.0 | 1.1  | 1.3   | 1.1    | 0.9    | 1.1    |  |  |  |  |  |
| G150.0 | 1.2  | 1.3   | 1.1    | 1.0    | 1.2    |  |  |  |  |  |
| G151.0 | 1.2  | 1.3   | 1.2    | 1.0    | 1.2    |  |  |  |  |  |
| G152.0 | 1.3  | 1.4   | 1.2    | 1.0    | 1.3    |  |  |  |  |  |
| G153.0 | 1.3  | 1.4   | 1.2    | 1.0    | 1.3    |  |  |  |  |  |
| G154.0 | 1.3  | 1.4   | 1.3    | 1.1    | 1.3    |  |  |  |  |  |
| G155.0 | 1.4  | 1.4   | 1.3    | 1.1    | 1.4    |  |  |  |  |  |
| G156.0 | 1.4  | 1.5   | 1.3    | 1.1    | 1.4    |  |  |  |  |  |
| G157.0 | 1.4  | 1.5   | 1.3    | 1.1    | 1.4    |  |  |  |  |  |
| G158.0 | 1.4  | 1.5   | 1.4    | 1.2    | 1.4    |  |  |  |  |  |
| G159.0 | 1.4  | 1.5   | 1.4    | 1.2    | 1.4    |  |  |  |  |  |
| G160.0 | 1.5  | 1.5   | 1.5    | 1.2    | 1.5    |  |  |  |  |  |
| G161.0 | 1.5  | 1.4   | 1.5    | 1.2    | 1.5    |  |  |  |  |  |
| G162.0 | 1.5  | 1.4   | 1.5    | 1.3    | 1.5    |  |  |  |  |  |
| G163.0 | 1.5  | 1.5   | 1.5    | 1.3    | 1.5    |  |  |  |  |  |
| G164.0 | 1.6  | 1.5   | 1.5    | 1.3    | 1.6    |  |  |  |  |  |
| G165.0 | 1.6  | 1.5   | 1.5    | 1.3    | 1.6    |  |  |  |  |  |
| G166.0 | 1.6  | 1.5   | 1.5    | 1.3    | 1.6    |  |  |  |  |  |
| G167.0 | 1.7  | 1.5   | 1.5    | 1.3    | 1.7    |  |  |  |  |  |
| G168.0 | 1.7  | 1.5   | 1.5    | 1.4    | 1.7    |  |  |  |  |  |
| G169.0 | 1.7  | 1.5   | 1.5    | 1.3    | 1.7    |  |  |  |  |  |
| G170.0 | 1.7  | 1.5   | 1.5    | 1.4    | 1.7    |  |  |  |  |  |
| G171.0 | 1.7  | 1.5   | 1.6    | 1.4    | 1.7    |  |  |  |  |  |
| G172.0 | 1.7  | 1.6   | 1.6    | 1.4    | 1.7    |  |  |  |  |  |
| G173.0 | 1.8  | 1.6   | 1.5    | 1.5    | 1.8    |  |  |  |  |  |
| G174.0 | 1.8  | 1.6   | 1.5    | 1.5    | 1.8    |  |  |  |  |  |
| G175.0 | 1.8  | 1.6   | 1.6    | 1.4    | 1.8    |  |  |  |  |  |
| G176.0 | 1.8  | 1.6   | 1.6    | 1.5    | 1.8    |  |  |  |  |  |
| G177.0 | 1.8  | 1.6   | 1.6    | 1.5    | 1.8    |  |  |  |  |  |
| G178.0 | 1.8  | 1.6   | 1.6    | 1.5    | 1.8    |  |  |  |  |  |
| G179.0 | 1.8  | 1.6   | 1.5    | 1.6    | 1.8    |  |  |  |  |  |
| G180.0 | 1.8  | 1.6   | 1.5    | 1.5    | 1.8    |  |  |  |  |  |
|        |      |       |        |        |        |  |  |  |  |  |
|        |      |       |        |        |        |  |  |  |  |  |
|        |      |       |        |        |        |  |  |  |  |  |
|        |      |       |        |        |        |  |  |  |  |  |

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: 8.508 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## LED Average Luminance Report

| Avg.L           | cd/m <sup>2</sup> |
|-----------------|-------------------|
| 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