

Report No.:

Test Time: 2023/11/20 14:11

## Luminaire Property

Luminaire Manufacturer:  
 Luminaire Category:  
 Lamp Catalog: DOB  
 Lamp Description: L150\_27805030000S0(8.68W)  
 Number of Lamps:  
 Luminous Length (mm):  
 Luminous Height (mm):  
 Current: 0.856 A  
 Power Factor: 0.834

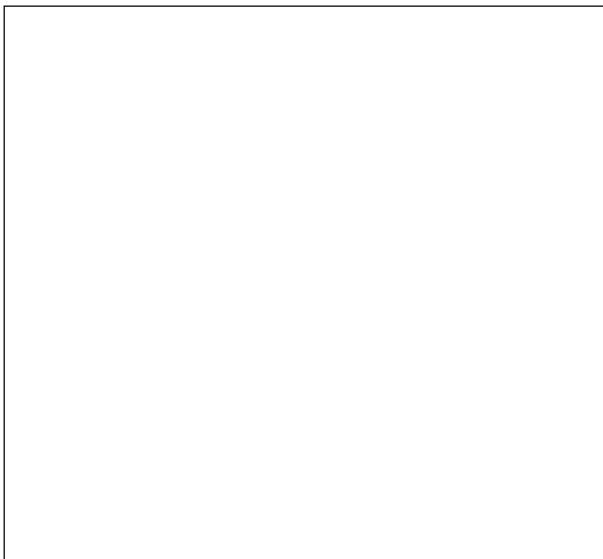
Luminaire Description: 490219 BODACIOUS  
 Lumens per Lamp:  
 Luminous Width (mm):  
 Voltage: 12.0 V  
 Power: 8.56 W

## Photometric Results

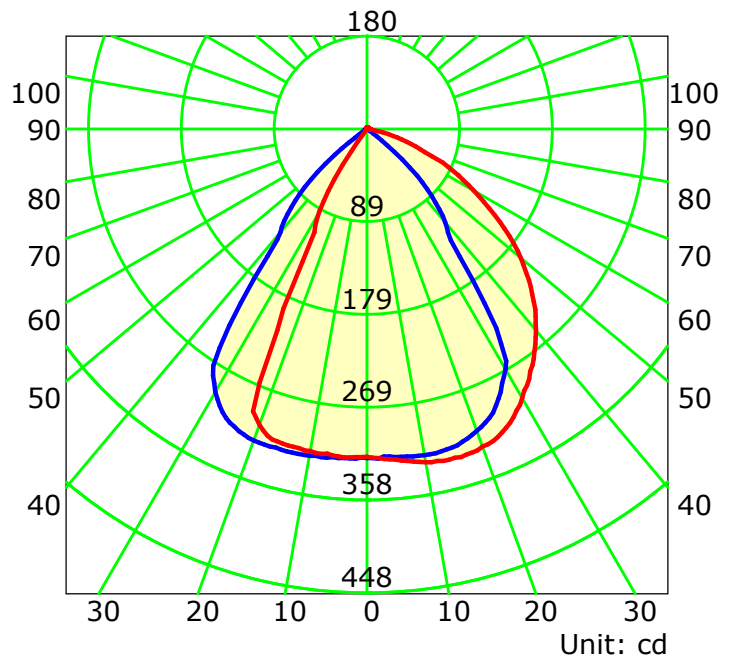
CIE Class: Direct  
 Measurement Flux: 515 lm  
 Downward Ratio: 99%  
 Horizontal Diffuse Angle(10%,50%,75%,100%): H102.2,H73.5,H66.9,H25  
 Vertical Diffuse Angle(10%,50%,75%,100%): V108.2,V79.6,V64.8,V20  
 Luminaire Efficacy Rating (LER): 60.21  
 Max. Intensity: 331.05 cd  
 S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 515.0 lm  
 Efficiency: 100%  
 Upward Ratio: 1%  
 C0r0 Intensity: 318.2 cd  
 Pos of Max. Intensity: H120 V21  
 S/MH(C90/C270): 1.00

Picture Of Luminaire



Luminous Intensity Distribution Curve



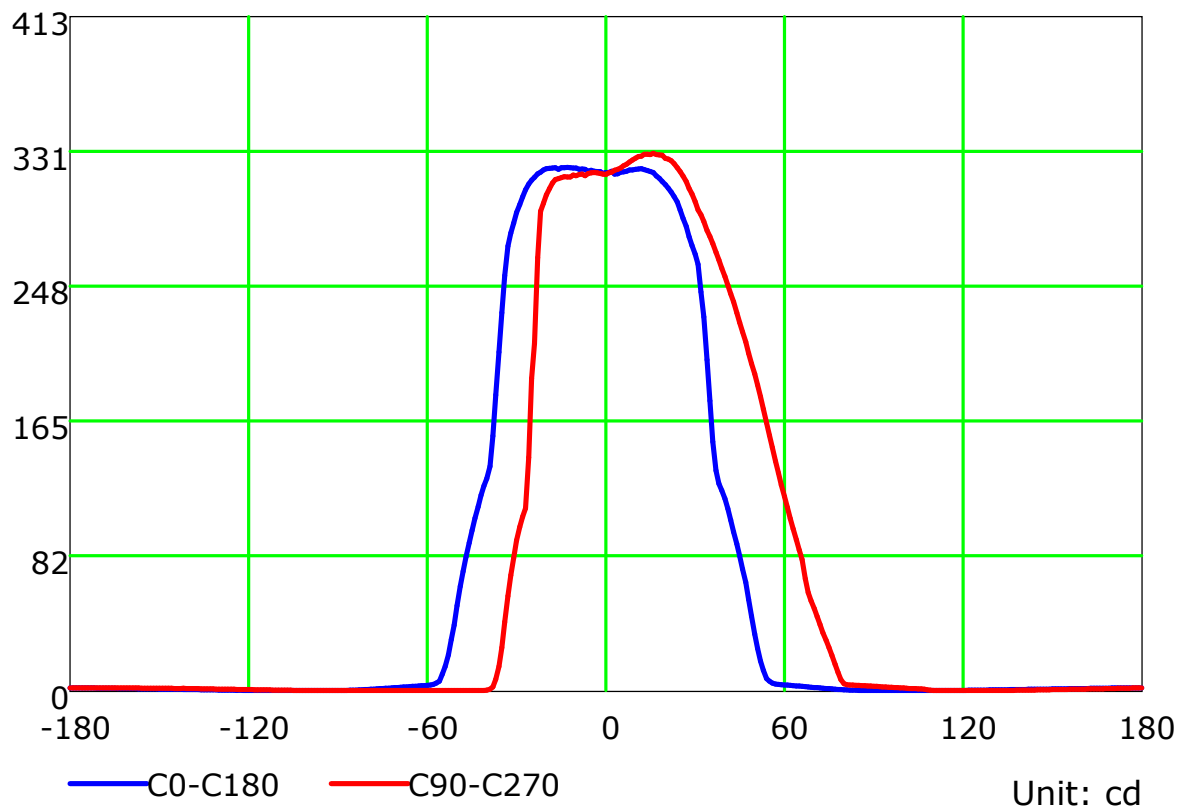
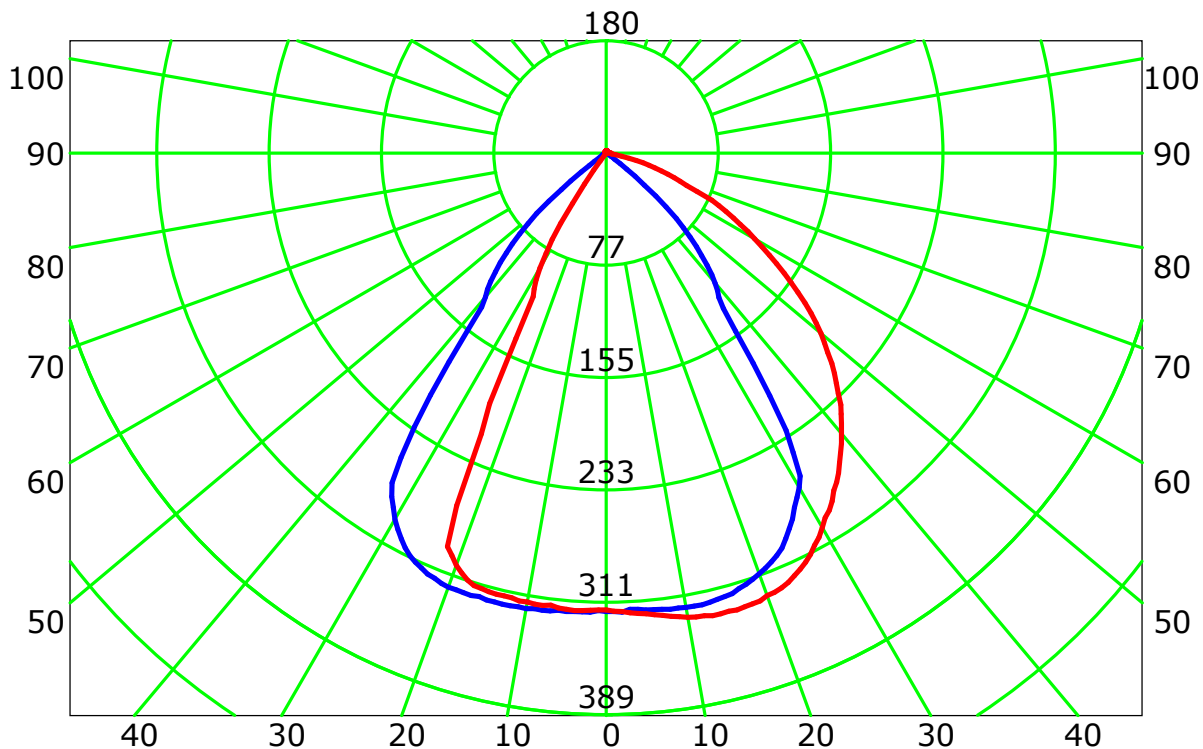
Average Diffuse Angle(50%): 76.5°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

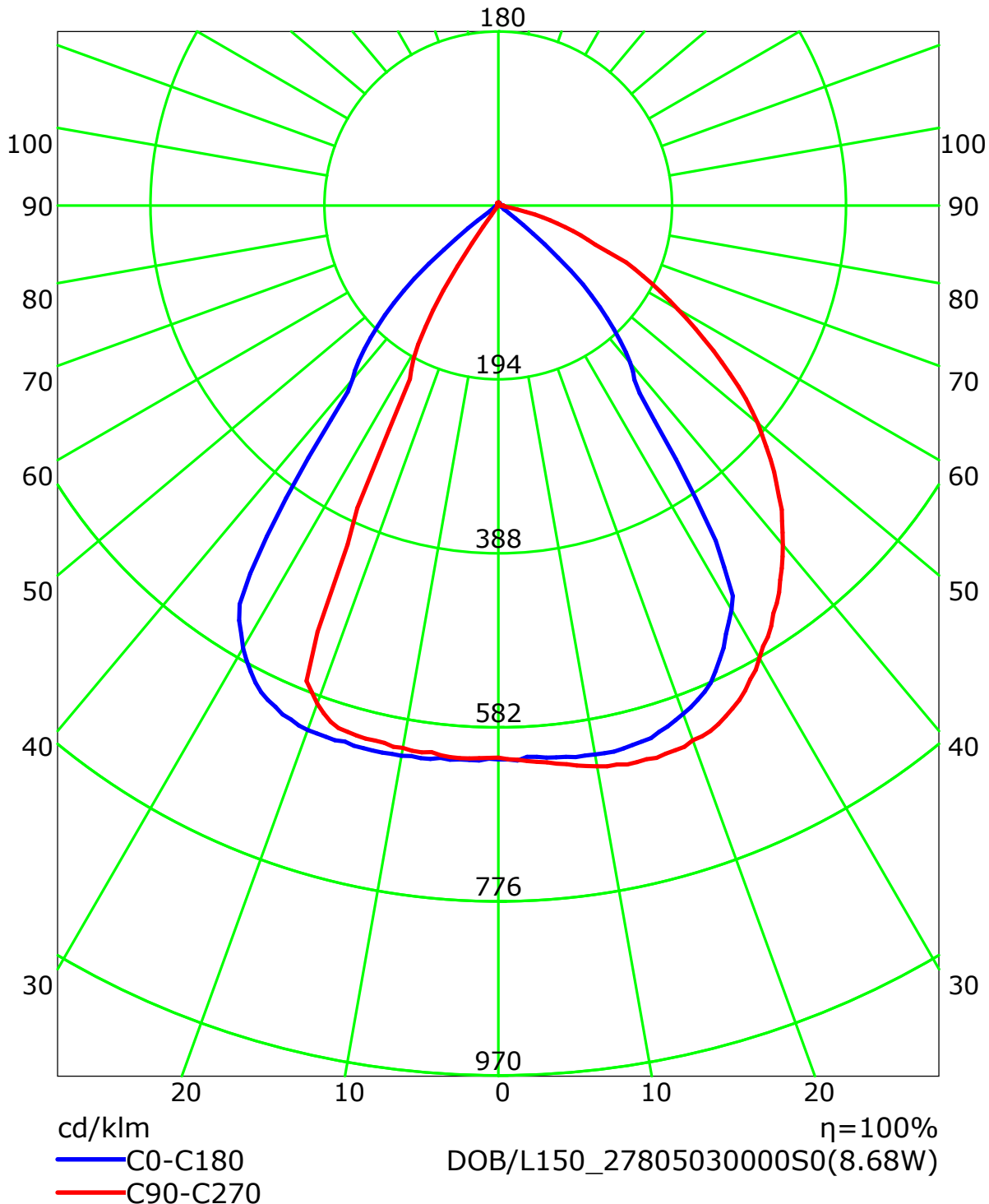
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



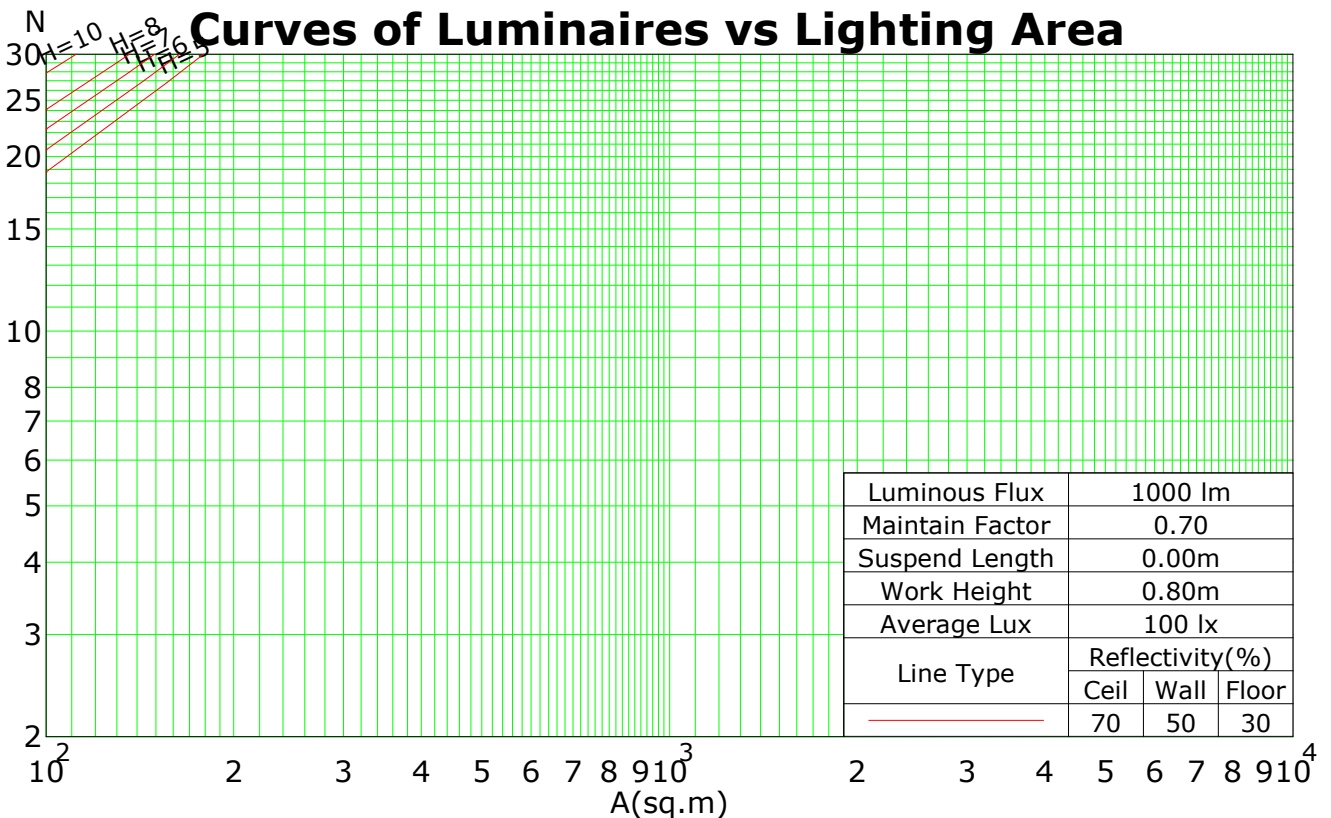
C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 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   | 1.12     | 1.08 | 1.05 | 1.02 | 1.09 | 1.06 | 1.03 | 1.01 | 1.02 | 0.99 | 0.97 | 0.98 | 0.96 | 0.94 | 0.94 | 0.93 | 0.91 | 0.90 |
| 2   | 1.04     | 0.98 | 0.93 | 0.89 | 1.02 | 0.96 | 0.92 | 0.88 | 0.93 | 0.89 | 0.86 | 0.90 | 0.86 | 0.84 | 0.87 | 0.84 | 0.82 | 0.80 |
| 3   | 0.97     | 0.89 | 0.83 | 0.78 | 0.95 | 0.88 | 0.82 | 0.77 | 0.85 | 0.80 | 0.76 | 0.82 | 0.78 | 0.75 | 0.80 | 0.76 | 0.73 | 0.71 |
| 4   | 0.91     | 0.81 | 0.74 | 0.69 | 0.89 | 0.80 | 0.74 | 0.69 | 0.78 | 0.72 | 0.68 | 0.75 | 0.71 | 0.67 | 0.73 | 0.69 | 0.66 | 0.64 |
| 5   | 0.85     | 0.74 | 0.67 | 0.62 | 0.83 | 0.73 | 0.67 | 0.62 | 0.71 | 0.65 | 0.61 | 0.69 | 0.64 | 0.60 | 0.68 | 0.63 | 0.60 | 0.58 |
| 6   | 0.79     | 0.68 | 0.61 | 0.56 | 0.78 | 0.68 | 0.61 | 0.56 | 0.66 | 0.60 | 0.55 | 0.64 | 0.59 | 0.55 | 0.63 | 0.58 | 0.54 | 0.52 |
| 7   | 0.74     | 0.63 | 0.56 | 0.51 | 0.73 | 0.62 | 0.55 | 0.51 | 0.61 | 0.55 | 0.50 | 0.60 | 0.54 | 0.50 | 0.58 | 0.53 | 0.49 | 0.48 |
| 8   | 0.70     | 0.59 | 0.51 | 0.46 | 0.69 | 0.58 | 0.51 | 0.46 | 0.57 | 0.50 | 0.46 | 0.55 | 0.50 | 0.46 | 0.54 | 0.49 | 0.45 | 0.44 |
| 9   | 0.66     | 0.54 | 0.47 | 0.43 | 0.65 | 0.54 | 0.47 | 0.42 | 0.53 | 0.47 | 0.42 | 0.52 | 0.46 | 0.42 | 0.51 | 0.46 | 0.42 | 0.40 |
| 10  | 0.62     | 0.51 | 0.44 | 0.39 | 0.61 | 0.50 | 0.44 | 0.39 | 0.49 | 0.43 | 0.39 | 0.48 | 0.43 | 0.39 | 0.48 | 0.42 | 0.39 | 0.37 |

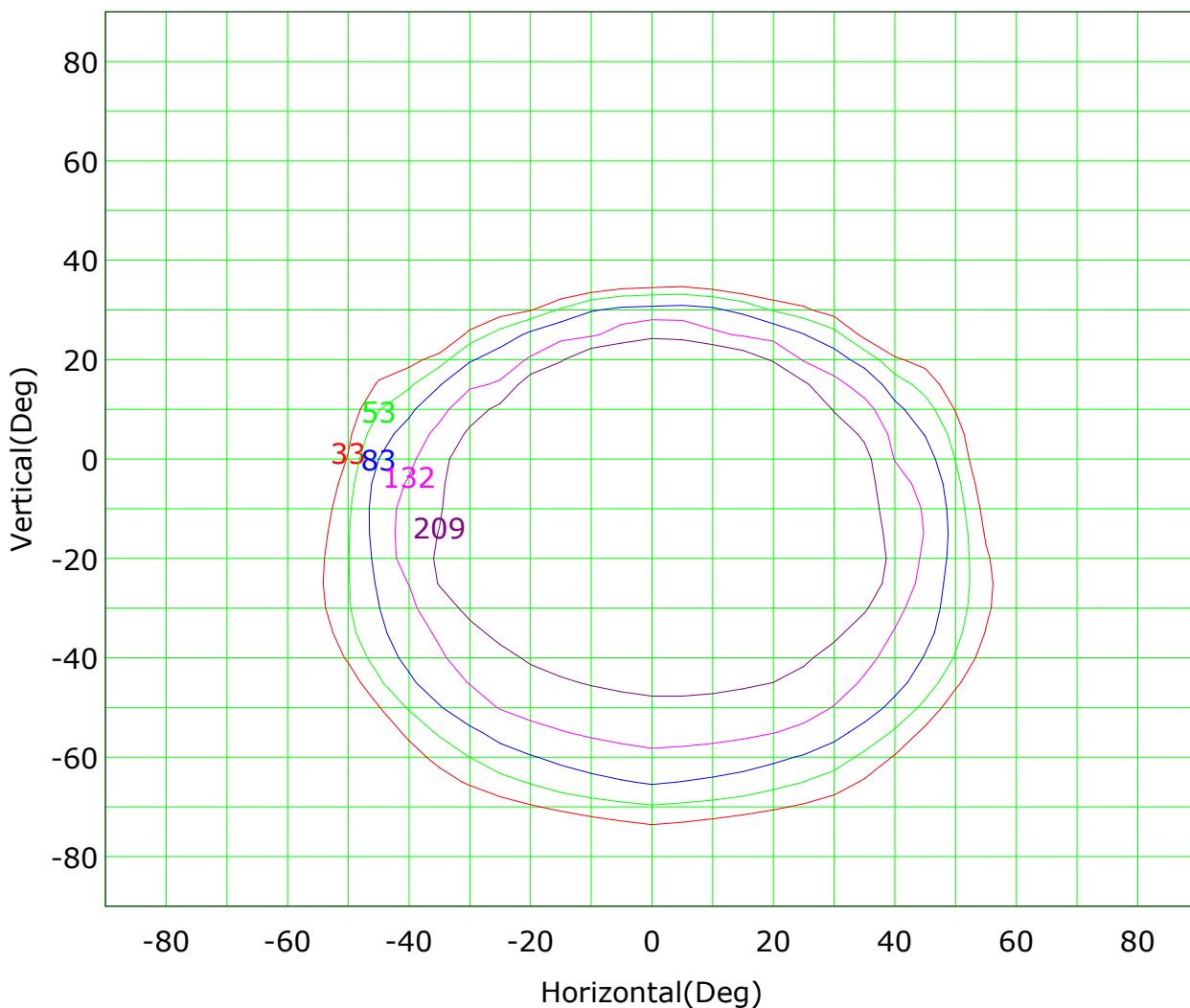
Spacing Criteria (0-180): 1.25  
 Spacing Criteria (90-270): 1.00  
 Spacing Criteria (Diagonal): 1.07



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Isocandela (rectangle)



Imax (100%): 331 cd

|           |        |           |        |
|-----------|--------|-----------|--------|
| — ( 10%): | 33 cd  | — ( 16%): | 53 cd  |
| — ( 25%): | 83 cd  | — ( 40%): | 132 cd |
| — ( 63%): | 209 cd | — (100%): | 331 cd |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

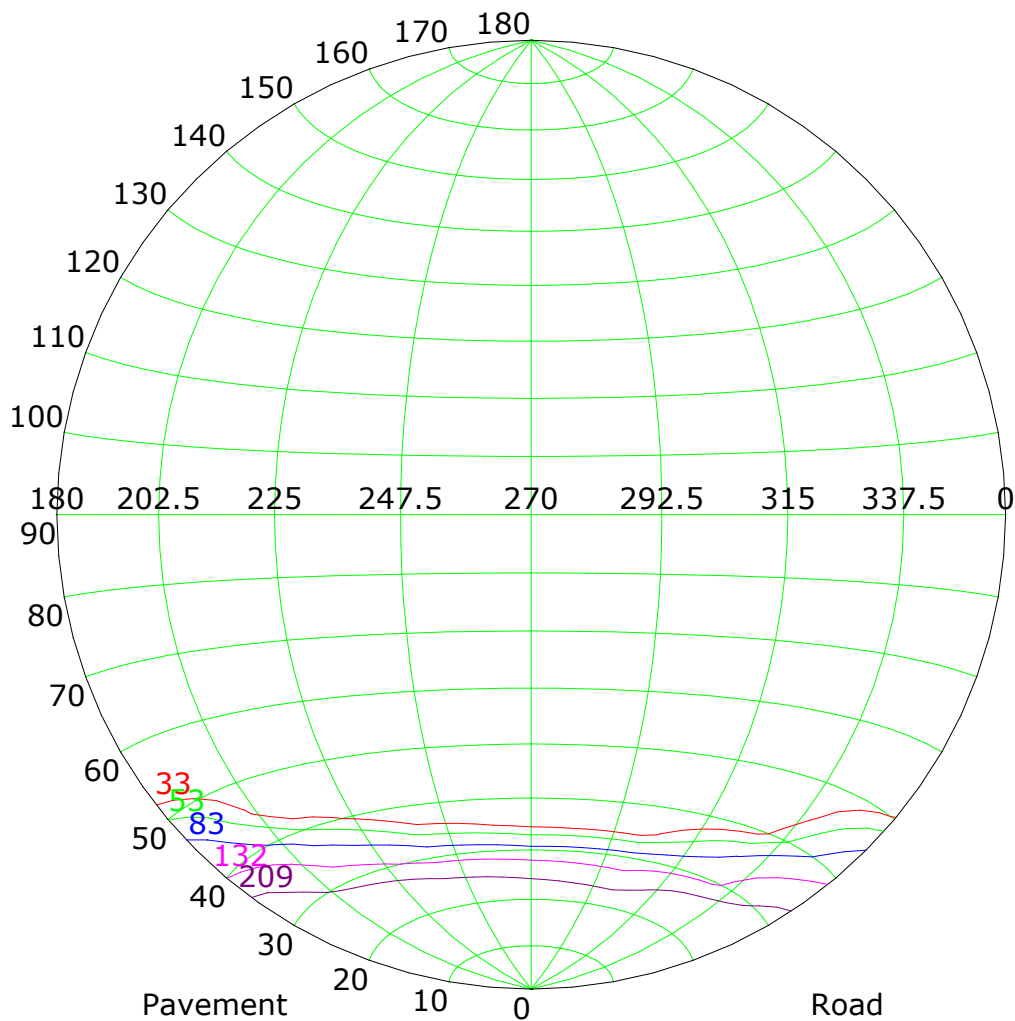
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

## Isocandela (sphere)



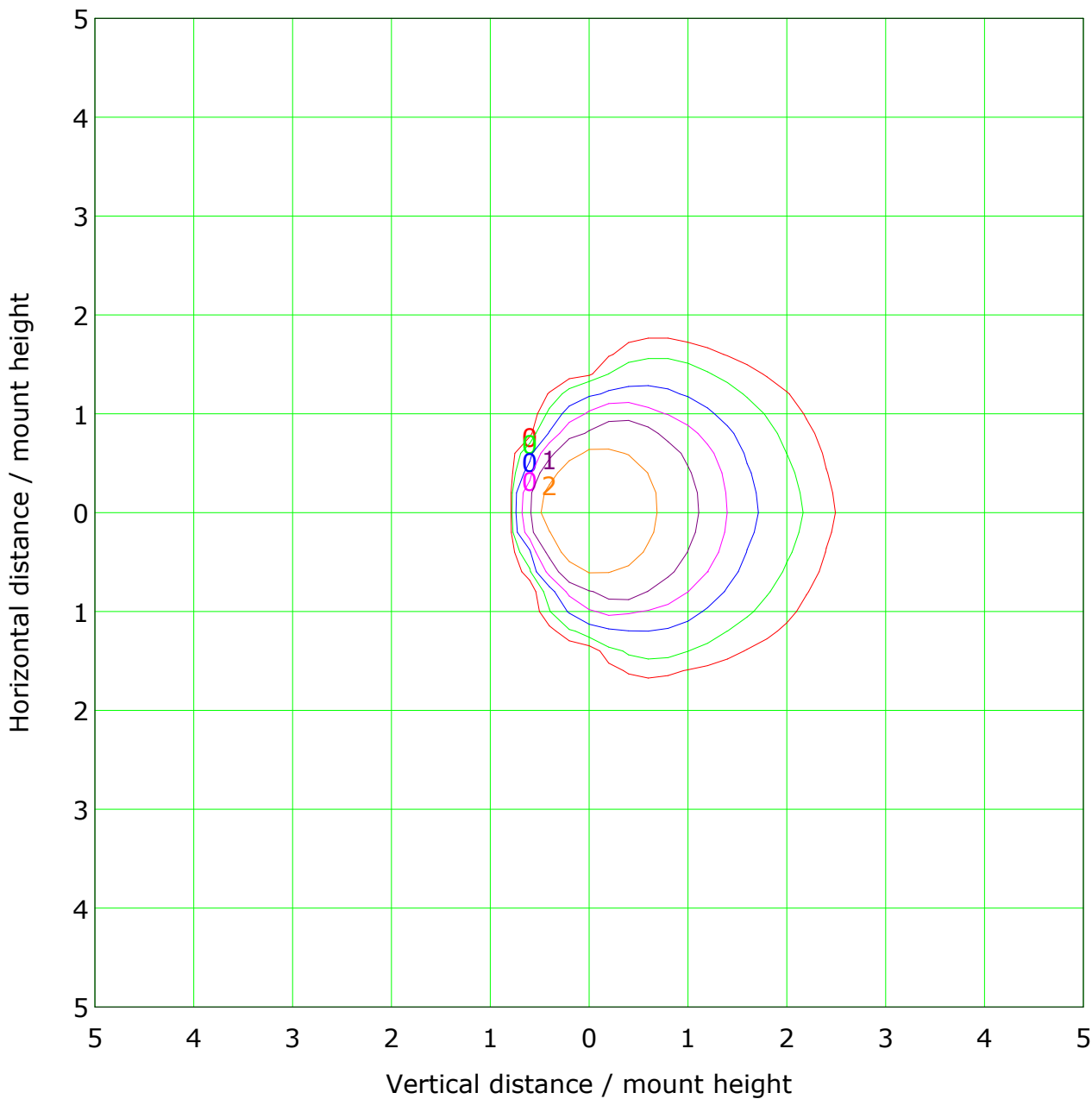
Imax (100%): 331 cd

|           |        |           |        |
|-----------|--------|-----------|--------|
| — ( 10%): | 33 cd  | — ( 16%): | 53 cd  |
| — ( 25%): | 83 cd  | — ( 40%): | 132 cd |
| — ( 63%): | 209 cd | — (100%): | 331 cd |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

### IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 3.2 lx

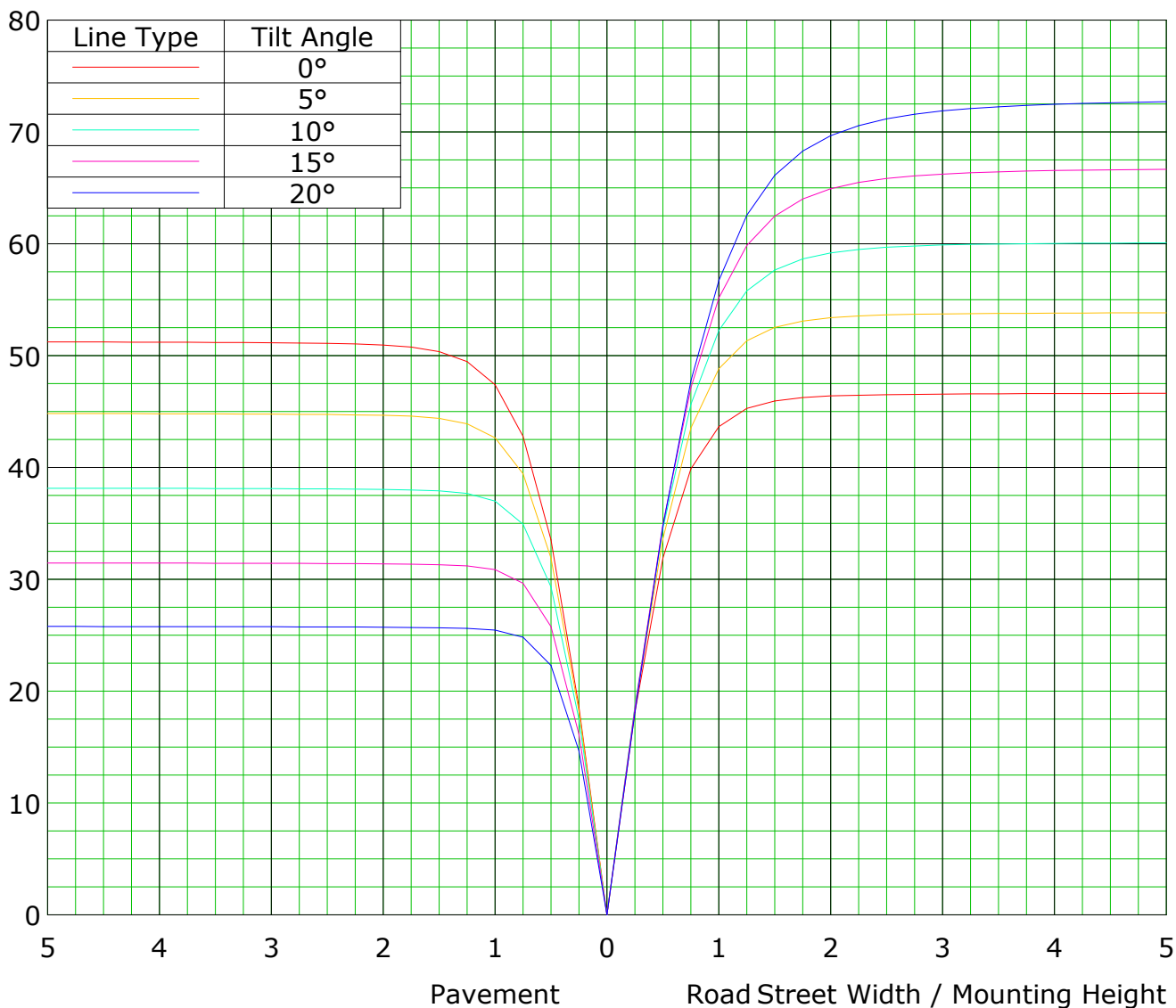
|                  |                  |
|------------------|------------------|
| — ( 1%): 0.0 lx  | — ( 2%): 0.1 lx  |
| — ( 5%): 0.2 lx  | — ( 10%): 0.3 lx |
| — ( 20%): 0.6 lx | — ( 50%): 1.6 lx |
| — (100%): 3.2 lx |                  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Roadway CU Curve

Efficiency(%)



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

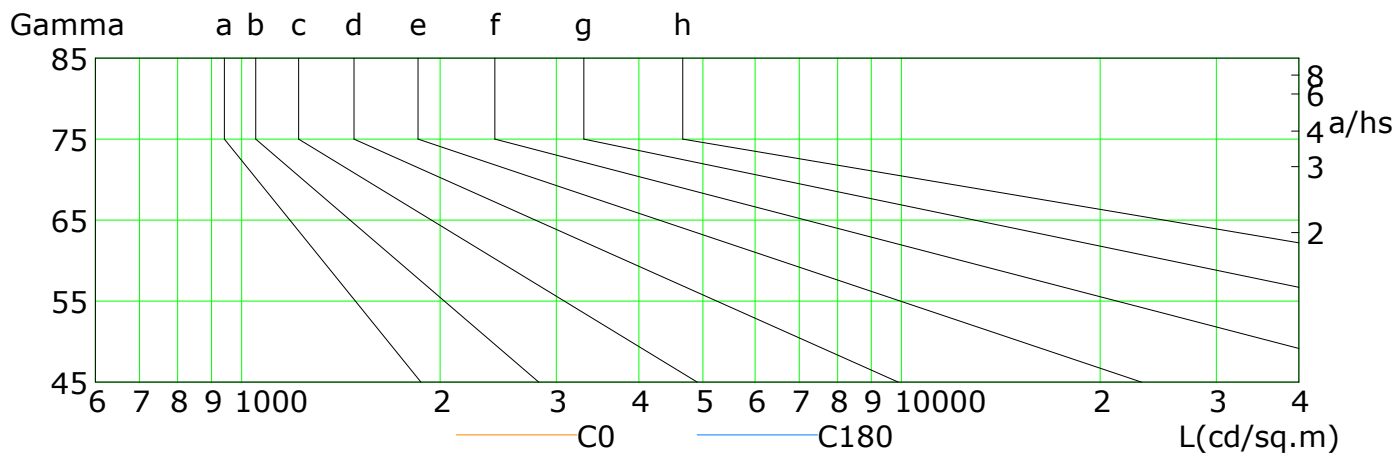
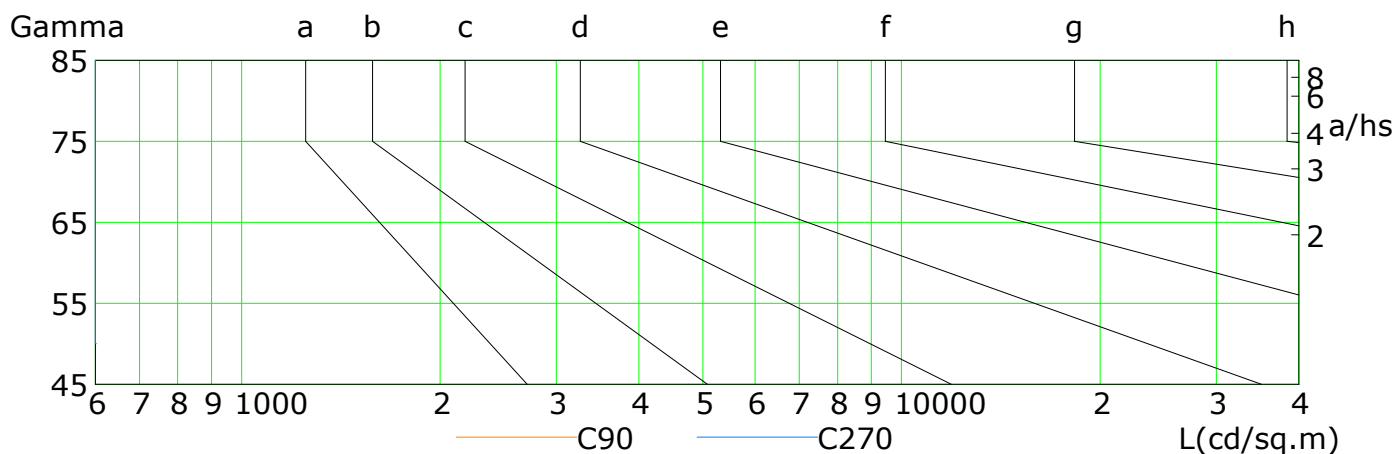
Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:



### 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

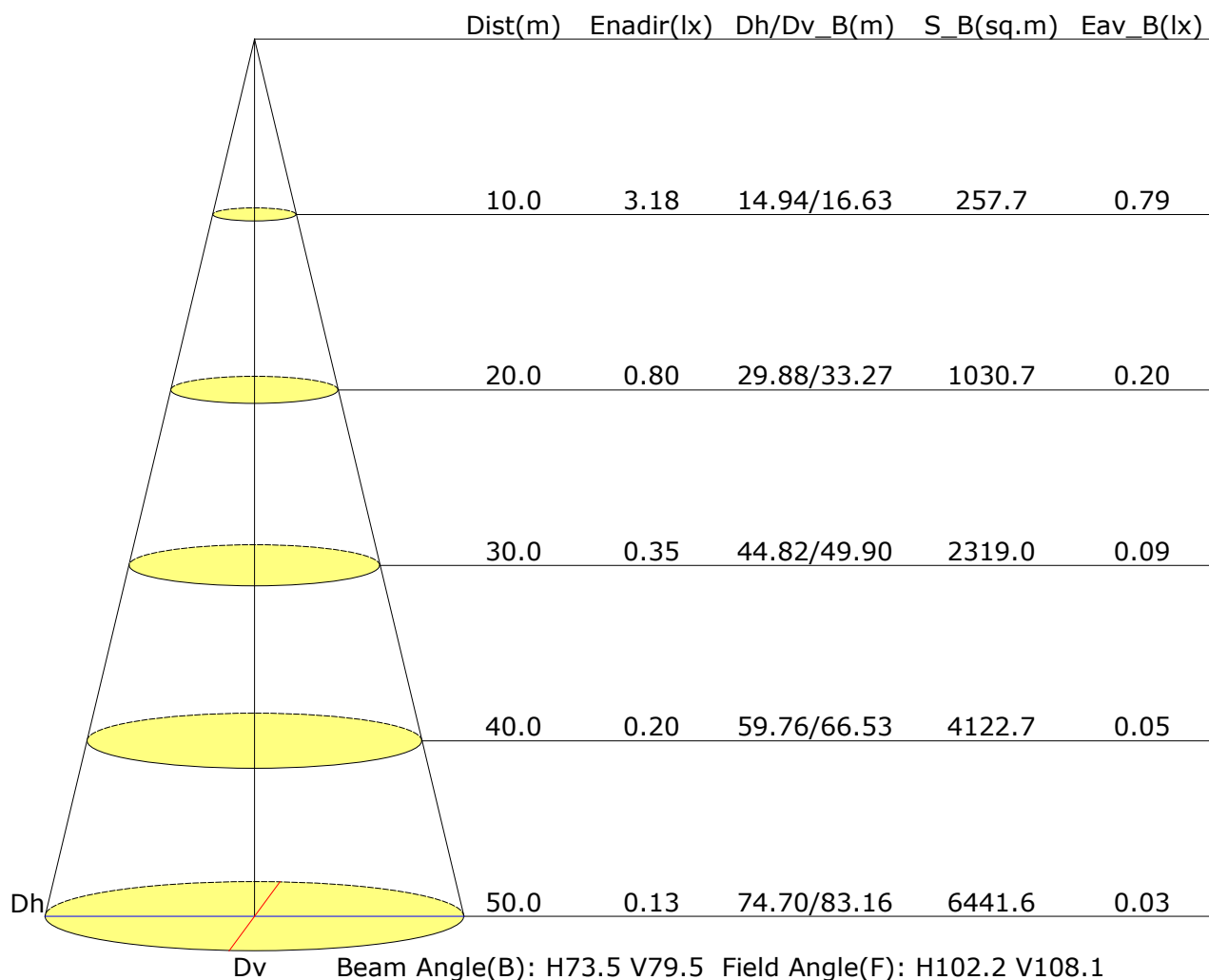


| L(cd/sq.m) | G45 | G50 | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| C0         | 83  | 35  | 6   | 4   | 3   | 2   | 1   | 1   | 0   |
| C90        | 226 | 195 | 157 | 119 | 86  | 50  | 26  | 4   | 3   |
| C180       | 98  | 52  | 10  | 3   | 3   | 2   | 1   | 1   | 0   |
| C270       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

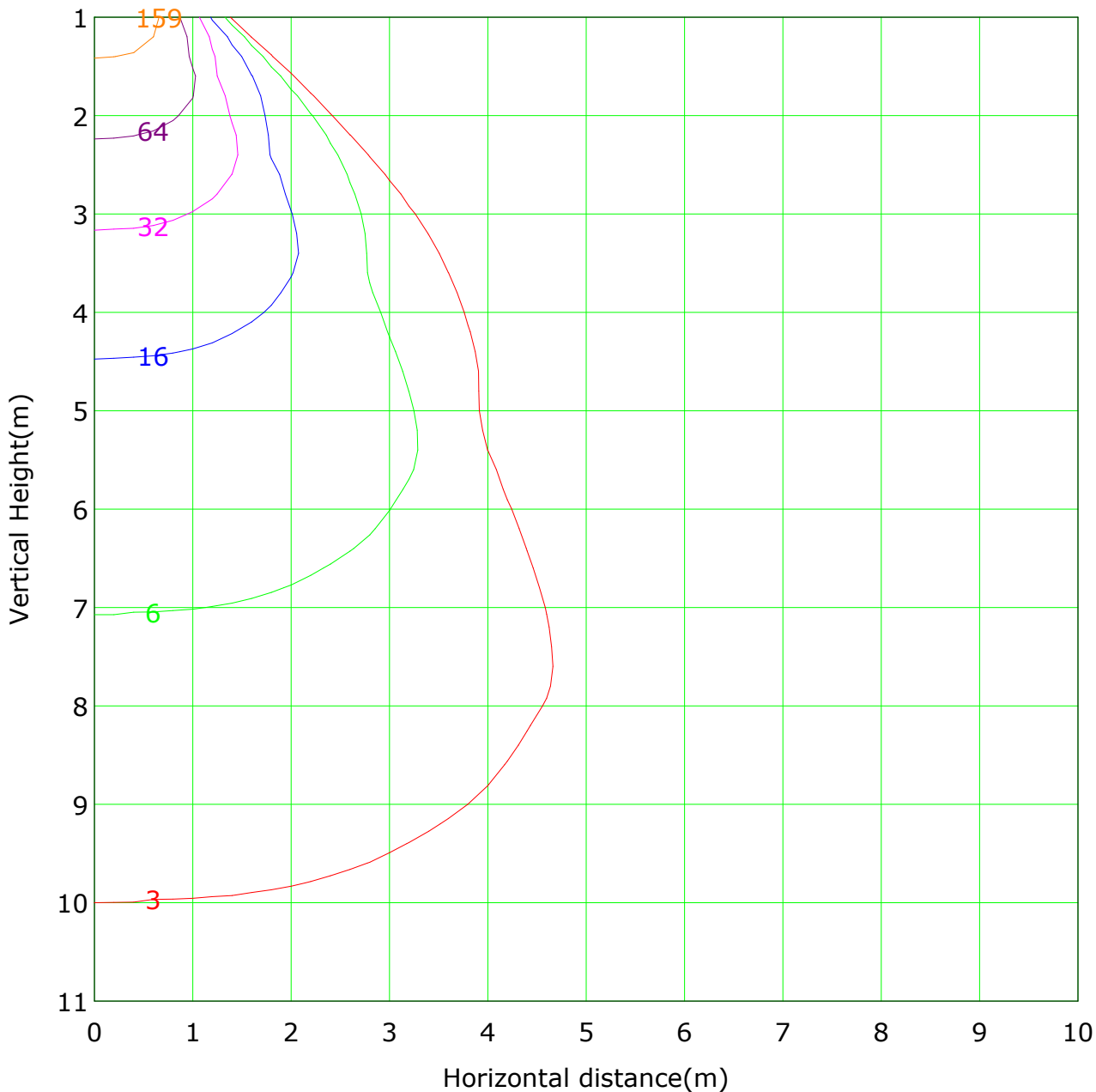
## Illuminance at a Distance



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

### Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 318.2 lx

|                    |                    |
|--------------------|--------------------|
| — ( 1%): 3.2 lx    | — ( 2%): 6.4 lx    |
| — ( 5%): 15.9 lx   | — ( 10%): 31.8 lx  |
| — ( 20%): 63.6 lx  | — ( 50%): 159.1 lx |
| — (100%): 318.2 lx |                    |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

### Area Flux Table

Unit: lm

|                  |     | Vertical plane |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |         |         |
|------------------|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|
|                  |     | -90            | -80 | -70 | -60 | -50 | -40 | -30 | -20 | -10 | 0   | 10  | 20  | 30  | 40  | 50  | 60  | 70  | 80  | 90  | Flux(T) | Flux(E) |
| Horizontal plane | -90 | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0     | 0.0     |
|                  | -80 | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1     | 0.0     |
|                  | -70 | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5     | 0.0     |
|                  | -60 | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4     | 1.8     |
|                  | -50 | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.2    | 14.0    |
|                  | -40 | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 36.6    | 35.7    |
|                  | -30 | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 59.4    | 58.7    |
|                  | -20 | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 73.1    | 72.5    |
|                  | -10 | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 78.8    | 78.2    |
|                  | 0   | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 77.3    | 76.6    |
|                  | 10  | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 68.6    | 67.9    |
|                  | 20  | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 52.7    | 51.9    |
|                  | 30  | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30.4    | 29.4    |
|                  | 40  | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.1    | 10.7    |
|                  | 50  | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4     | 0.8     |
|                  | 60  | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5     | 0.0     |
|                  | 70  | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1     | 0.0     |
|                  | 80  | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0     | 0.0     |
| 90               | 0.0 | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0     |         |
|                  |     |                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 51.1    | 49.8    |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

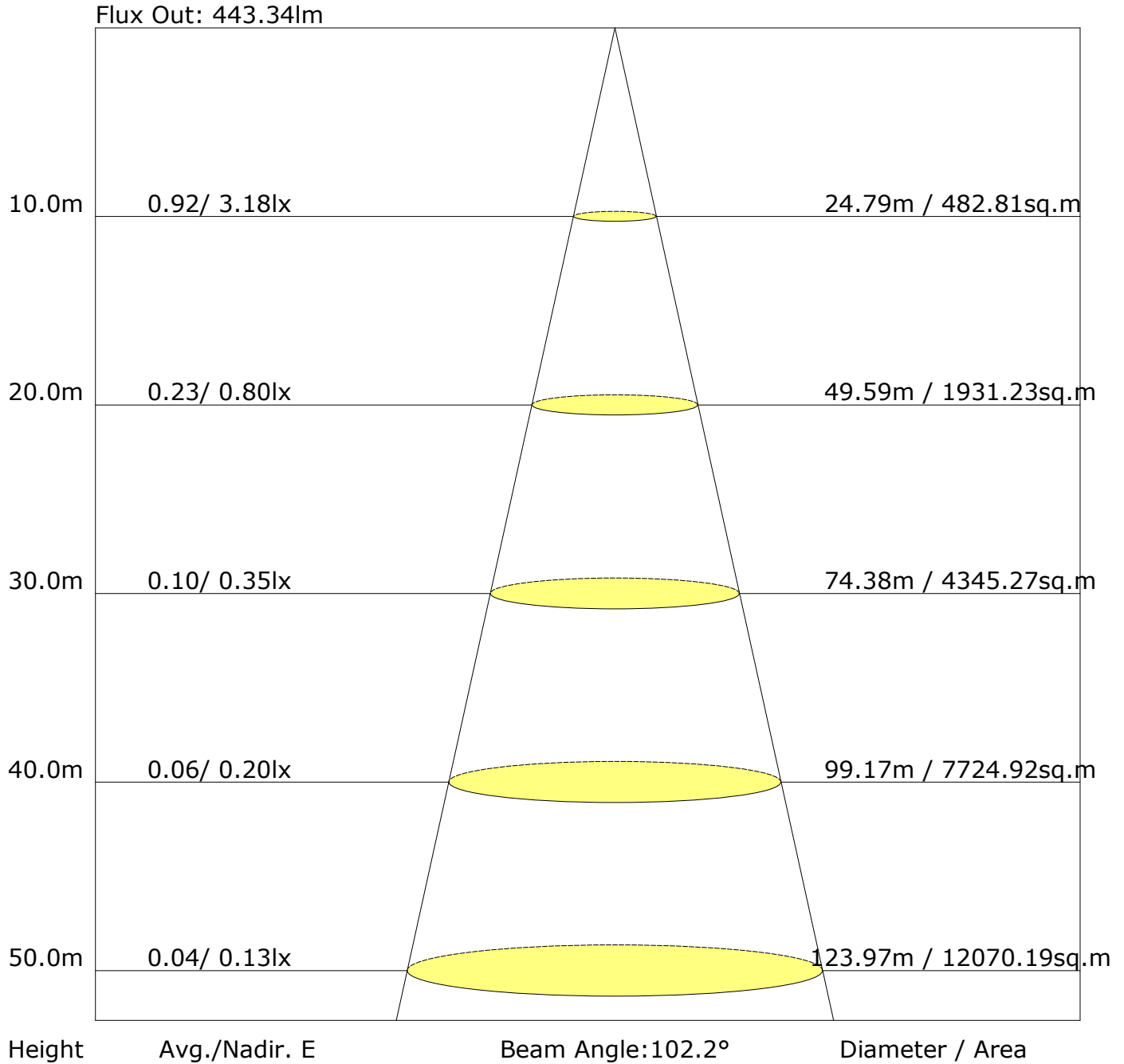
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

## The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

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.\$ |

Calculate in accordance with CIE 190:2010 The table is revised with 515lm ( $8\log(F/F_0) = -2.3$ ).

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

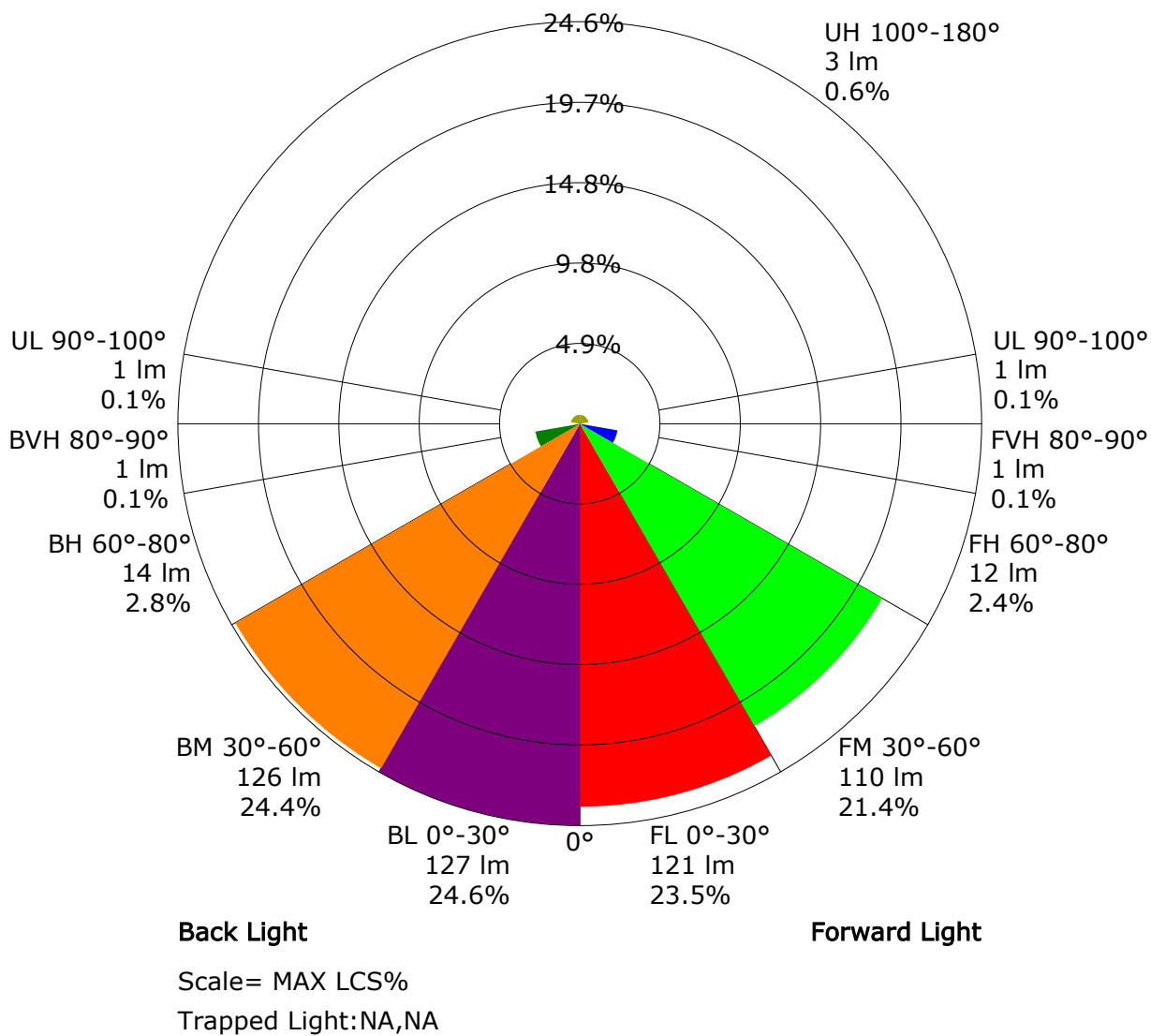
|  | ZONE           | LUMENS | % LAMP LUMENS |
|--|----------------|--------|---------------|
|  | FORWARD LIGHT  | 244    | 47.4          |
|  | FL ( 0°-30°)   | 121    | 23.5          |
|  | FM (30°-60°)   | 110    | 21.4          |
|  | FH (60°-80°)   | 12     | 2.4           |
|  | FVH (80°-90°)  | 1      | 0.1           |
|  | BACK LIGHT     | 267    | 51.9          |
|  | BL ( 0°-30°)   | 127    | 24.6          |
|  | BM (30°-60°)   | 126    | 24.4          |
|  | BH (60°-80°)   | 14     | 2.8           |
|  | BVH (80°-90°)  | 1      | 0.1           |
|  | UP LIGHT       | 4      | 0.7           |
|  | UL (90°-100°)  | 1      | 0.1           |
|  | UH (100°-180°) | 3      | 0.6           |
|  | TRAPPED LIGHT  | NA     | NA            |

| BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07             |          |
|--|----------|
| Asymmetrical Luminaire Types<br>(Type I,II,III,IV)               | B1 U1 G0 |
| Quadrilateral Symmetrical Luminaire Types<br>(Type V,Area Light) | B1 U1 G0 |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

### LCS Graph



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:



## Utilisation Factor Table(Floor cavity)

| Utilisation Factors UF(F)   |      |       | SHR NOM = 1.00 |      |      |      |      |      |      |      |      |  |
|---|------|-------|----------------|------|------|------|------|------|------|------|------|--|
| Room Reflectance  |      |       | Room Index(RI) |      |      |      |      |      |      |      |      |  |
| Ceiling   | Wall | Floor | 0.75           | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |  |
| 0.70  | 0.50 | 0.20  | 0.72           | 0.81 | 0.87 | 0.91 | 0.97 | 1.00 | 1.03 | 1.06 | 1.08 |  |
|   | 0.30 |       | 0.65           | 0.75 | 0.81 | 0.86 | 0.92 | 0.96 | 0.99 | 1.03 | 1.06 |  |
|   | 0.20 |       | 0.61           | 0.71 | 0.77 | 0.82 | 0.89 | 0.93 | 0.96 | 1.01 | 1.04 |  |
| 0.50  | 0.50 | 0.20  | 0.70           | 0.79 | 0.85 | 0.88 | 0.94 | 0.97 | 0.99 | 1.02 | 1.04 |  |
|   | 0.30 |       | 0.65           | 0.74 | 0.80 | 0.84 | 0.90 | 0.94 | 0.96 | 1.00 | 1.02 |  |
|   | 0.20 |       | 0.61           | 0.70 | 0.76 | 0.81 | 0.87 | 0.91 | 0.94 | 0.98 | 1.00 |  |
| 0.30  | 0.50 | 0.20  | 0.69           | 0.77 | 0.82 | 0.86 | 0.91 | 0.94 | 0.96 | 0.98 | 1.00 |  |
|   | 0.30 |       | 0.64           | 0.73 | 0.78 | 0.82 | 0.88 | 0.91 | 0.94 | 0.97 | 0.98 |  |
|   | 0.20 |       | 0.60           | 0.69 | 0.75 | 0.79 | 0.85 | 0.89 | 0.91 | 0.95 | 0.97 |  |
| 0.00  | 0.00 | 0.00  | 0.58           | 0.67 | 0.73 | 0.76 | 0.82 | 0.85 | 0.87 | 0.90 | 0.92 |  |
| <p>Rating:9W Photometrically tested without ceiling board.<br/>           Multiply UF values by service correction factors<br/>           Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p> |      |       |                |      |      |      |      |      |      |      |      |  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Utilisation Factor Table(Wall)

| Utilisation Factors UF(W)   |      |       | SHR NOM = 1.00 |      |      |      |      |      |      |      |      |  |
|---|------|-------|----------------|------|------|------|------|------|------|------|------|--|
| Room Reflectance  |      |       | Room Index(RI) |      |      |      |      |      |      |      |      |  |
| Ceiling   | Wall | Floor | 0.75           | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |  |
| 0.70  | 0.50 | 0.20  | 0.78           | 0.62 | 0.52 | 0.45 | 0.35 | 0.29 | 0.24 | 0.19 | 0.15 |  |
|   | 0.30 |       | 0.65           | 0.53 | 0.45 | 0.40 | 0.32 | 0.26 | 0.23 | 0.18 | 0.14 |  |
|   | 0.20 |       | 0.56           | 0.46 | 0.40 | 0.35 | 0.29 | 0.24 | 0.21 | 0.17 | 0.14 |  |
| 0.50  | 0.50 | 0.20  | 0.75           | 0.59 | 0.49 | 0.42 | 0.33 | 0.31 | 0.23 | 0.17 | 0.14 |  |
|   | 0.30 |       | 0.63           | 0.51 | 0.44 | 0.38 | 0.30 | 0.25 | 0.21 | 0.16 | 0.13 |  |
|   | 0.20 |       | 0.55           | 0.45 | 0.39 | 0.34 | 0.28 | 0.23 | 0.20 | 0.16 | 0.13 |  |
| 0.30  | 0.50 | 0.20  | 0.72           | 0.56 | 0.47 | 0.40 | 0.31 | 0.25 | 0.21 | 0.16 | 0.13 |  |
|   | 0.30 |       | 0.61           | 0.50 | 0.42 | 0.36 | 0.29 | 0.24 | 0.20 | 0.16 | 0.13 |  |
|   | 0.20 |       | 0.54           | 0.44 | 0.38 | 0.33 | 0.27 | 0.22 | 0.19 | 0.15 | 0.12 |  |
| 0.00  | 0.00 | 0.00  | 0.42           | 0.33 | 0.27 | 0.24 | 0.18 | 0.15 | 0.13 | 0.10 | 0.08 |  |
| <p>Rating:9W Photometrically tested without ceiling board.<br/>           Multiply UF values by service correction factors<br/>           Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p> |      |       |                |      |      |      |      |      |      |      |      |  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Utilisation Factor Table(Ceiling cavity)

| Utilisation Factors UF(C)   |      |       | SHR NOM = 1.00 |      |      |      |      |      |      |      |      |
|---|------|-------|----------------|------|------|------|------|------|------|------|------|
| Room Reflectance  |      |       | Room Index(RI) |      |      |      |      |      |      |      |      |
| Ceiling   | Wall | Floor | 0.75           | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70  | 0.50 | 0.20  | 0.15           | 0.17 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.21 | 0.22 |
|   | 0.30 |       | 0.10           | 0.12 | 0.13 | 0.14 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 |
|   | 0.20 |       | 0.06           | 0.08 | 0.10 | 0.11 | 0.13 | 0.15 | 0.16 | 0.17 | 0.18 |
| 0.50  | 0.50 | 0.20  | 0.15           | 0.16 | 0.17 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 |
|   | 0.30 |       | 0.10           | 0.11 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.19 | 0.19 |
|   | 0.20 |       | 0.06           | 0.08 | 0.09 | 0.11 | 0.13 | 0.14 | 0.15 | 0.17 | 0.18 |
| 0.30  | 0.50 | 0.20  | 0.14           | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 |
|   | 0.30 |       | 0.09           | 0.11 | 0.12 | 0.13 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 |
|   | 0.20 |       | 0.06           | 0.08 | 0.09 | 0.11 | 0.12 | 0.14 | 0.15 | 0.16 | 0.17 |
| 0.00  | 0.00 | 0.00  | 0.01           | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| <p>Rating:9W Photometrically tested without ceiling board.<br/>           Multiply UF values by service correction factors<br/>           Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p> |      |       |                |      |      |      |      |      |      |      |      |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 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      | 317.6                     | 0.3                | 0.3                    | 0.06                  | 0.06                      |
| 1.0-2.0      | 317.9                     | 0.9                | 1.2                    | 0.18                  | 0.24                      |
| 2.0-3.0      | 318.1                     | 1.5                | 2.7                    | 0.30                  | 0.53                      |
| 3.0-4.0      | 318.4                     | 2.1                | 4.9                    | 0.41                  | 0.95                      |
| 4.0-5.0      | 318.8                     | 2.7                | 7.6                    | 0.53                  | 1.48                      |
| 5.0-6.0      | 319.1                     | 3.4                | 11.0                   | 0.65                  | 2.13                      |
| 6.0-7.0      | 319.5                     | 4.0                | 14.9                   | 0.77                  | 2.90                      |
| 7.0-8.0      | 319.8                     | 4.6                | 19.5                   | 0.89                  | 3.79                      |
| 8.0-9.0      | 320.3                     | 5.2                | 24.7                   | 1.01                  | 4.80                      |
| 9.0-10.0     | 320.6                     | 5.8                | 30.5                   | 1.13                  | 5.92                      |
| 10.0-11.0    | 320.8                     | 6.4                | 36.9                   | 1.24                  | 7.17                      |
| 11.0-12.0    | 320.9                     | 7.0                | 43.9                   | 1.36                  | 8.53                      |
| 12.0-13.0    | 321.0                     | 7.6                | 51.6                   | 1.48                  | 10.01                     |
| 13.0-14.0    | 321.0                     | 8.2                | 59.8                   | 1.60                  | 11.61                     |
| 14.0-15.0    | 320.9                     | 8.8                | 68.6                   | 1.71                  | 13.32                     |
| 15.0-16.0    | 320.7                     | 9.4                | 78.0                   | 1.82                  | 15.14                     |
| 16.0-17.0    | 320.3                     | 10.0               | 88.0                   | 1.94                  | 17.08                     |
| 17.0-18.0    | 319.6                     | 10.5               | 98.5                   | 2.05                  | 19.13                     |
| 18.0-19.0    | 318.6                     | 11.1               | 109.6                  | 2.15                  | 21.28                     |
| 19.0-20.0    | 317.3                     | 11.6               | 121.2                  | 2.26                  | 23.53                     |
| 20.0-21.0    | 315.7                     | 12.1               | 133.3                  | 2.35                  | 25.89                     |
| 21.0-22.0    | 313.5                     | 12.6               | 145.9                  | 2.45                  | 28.33                     |
| 22.0-23.0    | 308.7                     | 13.0               | 158.9                  | 2.52                  | 30.85                     |
| 23.0-24.0    | 298.9                     | 13.1               | 171.9                  | 2.54                  | 33.39                     |
| 24.0-25.0    | 286.6                     | 13.0               | 185.0                  | 2.53                  | 35.92                     |
| 25.0-26.0    | 273.4                     | 12.9               | 197.9                  | 2.51                  | 38.43                     |
| 26.0-27.0    | 259.2                     | 12.7               | 210.6                  | 2.46                  | 40.89                     |
| 27.0-28.0    | 247.1                     | 12.5               | 223.1                  | 2.43                  | 43.32                     |
| 28.0-29.0    | 237.2                     | 12.4               | 235.5                  | 2.41                  | 45.73                     |
| 29.0-30.0    | 227.8                     | 12.3               | 247.8                  | 2.39                  | 48.12                     |
| 30.0-31.0    | 219.3                     | 12.2               | 260.0                  | 2.37                  | 50.49                     |
| 31.0-32.0    | 211.2                     | 12.1               | 272.1                  | 2.35                  | 52.84                     |
| 32.0-33.0    | 203.1                     | 12.0               | 284.1                  | 2.32                  | 55.16                     |
| 33.0-34.0    | 193.4                     | 11.7               | 295.8                  | 2.27                  | 57.43                     |
| 34.0-35.0    | 182.0                     | 11.3               | 307.1                  | 2.20                  | 59.63                     |
| 35.0-36.0    | 170.8                     | 10.9               | 317.9                  | 2.11                  | 61.74                     |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Zonal Lumen (Continue 1)

| 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>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 36.0-37.0    | 160.2                     | 10.4               | 328.4                  | 2.03                  | 63.77                     |
| 37.0-38.0    | 150.8                     | 10.1               | 338.5                  | 1.96                  | 65.72                     |
| 38.0-39.0    | 142.8                     | 9.7                | 348.2                  | 1.89                  | 67.62                     |
| 39.0-40.0    | 135.9                     | 9.5                | 357.7                  | 1.84                  | 69.46                     |
| 40.0-41.0    | 129.8                     | 9.2                | 366.9                  | 1.80                  | 71.25                     |
| 41.0-42.0    | 124.0                     | 9.0                | 375.9                  | 1.75                  | 73.00                     |
| 42.0-43.0    | 118.1                     | 8.7                | 384.7                  | 1.70                  | 74.70                     |
| 43.0-44.0    | 112.2                     | 8.5                | 393.2                  | 1.64                  | 76.35                     |
| 44.0-45.0    | 106.0                     | 8.2                | 401.3                  | 1.58                  | 77.93                     |
| 45.0-46.0    | 99.7                      | 7.8                | 409.1                  | 1.51                  | 79.44                     |
| 46.0-47.0    | 93.5                      | 7.4                | 416.6                  | 1.44                  | 80.89                     |
| 47.0-48.0    | 87.4                      | 7.1                | 423.6                  | 1.37                  | 82.26                     |
| 48.0-49.0    | 81.6                      | 6.7                | 430.3                  | 1.30                  | 83.56                     |
| 49.0-50.0    | 76.3                      | 6.4                | 436.7                  | 1.24                  | 84.80                     |
| 50.0-51.0    | 71.4                      | 6.0                | 442.7                  | 1.17                  | 85.97                     |
| 51.0-52.0    | 66.7                      | 5.7                | 448.4                  | 1.11                  | 87.08                     |
| 52.0-53.0    | 62.2                      | 5.4                | 453.9                  | 1.05                  | 88.13                     |
| 53.0-54.0    | 57.9                      | 5.1                | 459.0                  | 0.99                  | 89.12                     |
| 54.0-55.0    | 53.9                      | 4.8                | 463.8                  | 0.93                  | 90.06                     |
| 55.0-56.0    | 50.2                      | 4.5                | 468.3                  | 0.88                  | 90.94                     |
| 56.0-57.0    | 46.5                      | 4.3                | 472.6                  | 0.83                  | 91.76                     |
| 57.0-58.0    | 43.0                      | 4.0                | 476.5                  | 0.77                  | 92.54                     |
| 58.0-59.0    | 39.6                      | 3.7                | 480.2                  | 0.72                  | 93.25                     |
| 59.0-60.0    | 36.2                      | 3.4                | 483.7                  | 0.66                  | 93.92                     |
| 60.0-61.0    | 32.9                      | 3.1                | 486.8                  | 0.61                  | 94.53                     |
| 61.0-62.0    | 29.9                      | 2.9                | 489.7                  | 0.56                  | 95.09                     |
| 62.0-63.0    | 27.0                      | 2.6                | 492.3                  | 0.51                  | 95.60                     |
| 63.0-64.0    | 24.3                      | 2.4                | 494.7                  | 0.46                  | 96.06                     |
| 64.0-65.0    | 21.7                      | 2.1                | 496.8                  | 0.42                  | 96.48                     |
| 65.0-66.0    | 19.4                      | 1.9                | 498.8                  | 0.38                  | 96.85                     |
| 66.0-67.0    | 17.0                      | 1.7                | 500.5                  | 0.33                  | 97.19                     |
| 67.0-68.0    | 14.8                      | 1.5                | 502.0                  | 0.29                  | 97.48                     |
| 68.0-69.0    | 13.1                      | 1.3                | 503.3                  | 0.26                  | 97.74                     |
| 69.0-70.0    | 11.7                      | 1.2                | 504.5                  | 0.23                  | 97.97                     |
| 70.0-71.0    | 10.4                      | 1.1                | 505.6                  | 0.21                  | 98.18                     |
| 71.0-72.0    | 9.1                       | 1.0                | 506.6                  | 0.18                  | 98.36                     |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 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    | 7.9                       | 0.8                | 507.4                  | 0.16                  | 98.53                     |
| 73.0-74.0    | 6.7                       | 0.7                | 508.1                  | 0.14                  | 98.66                     |
| 74.0-75.0    | 5.5                       | 0.6                | 508.7                  | 0.11                  | 98.77                     |
| 75.0-76.0    | 4.4                       | 0.5                | 509.1                  | 0.09                  | 98.86                     |
| 76.0-77.0    | 3.4                       | 0.4                | 509.5                  | 0.07                  | 98.93                     |
| 77.0-78.0    | 2.6                       | 0.3                | 509.8                  | 0.05                  | 98.99                     |
| 78.0-79.0    | 2.0                       | 0.2                | 510.0                  | 0.04                  | 99.03                     |
| 79.0-80.0    | 1.6                       | 0.2                | 510.2                  | 0.03                  | 99.07                     |
| 80.0-81.0    | 1.4                       | 0.2                | 510.3                  | 0.03                  | 99.10                     |
| 81.0-82.0    | 1.4                       | 0.1                | 510.5                  | 0.03                  | 99.13                     |
| 82.0-83.0    | 1.3                       | 0.1                | 510.6                  | 0.03                  | 99.15                     |
| 83.0-84.0    | 1.2                       | 0.1                | 510.7                  | 0.03                  | 99.18                     |
| 84.0-85.0    | 1.2                       | 0.1                | 510.9                  | 0.02                  | 99.20                     |
| 85.0-86.0    | 1.1                       | 0.1                | 511.0                  | 0.02                  | 99.23                     |
| 86.0-87.0    | 1.0                       | 0.1                | 511.1                  | 0.02                  | 99.25                     |
| 87.0-88.0    | 1.0                       | 0.1                | 511.2                  | 0.02                  | 99.27                     |
| 88.0-89.0    | 0.9                       | 0.1                | 511.3                  | 0.02                  | 99.29                     |
| 89.0-90.0    | 0.9                       | 0.1                | 511.4                  | 0.02                  | 99.31                     |
| 90.0-91.0    | 0.8                       | 0.1                | 511.5                  | 0.02                  | 99.32                     |
| 91.0-92.0    | 0.8                       | 0.1                | 511.6                  | 0.02                  | 99.34                     |
| 92.0-93.0    | 0.7                       | 0.1                | 511.7                  | 0.02                  | 99.36                     |
| 93.0-94.0    | 0.7                       | 0.1                | 511.7                  | 0.01                  | 99.37                     |
| 94.0-95.0    | 0.6                       | 0.1                | 511.8                  | 0.01                  | 99.39                     |
| 95.0-96.0    | 0.6                       | 0.1                | 511.9                  | 0.01                  | 99.40                     |
| 96.0-97.0    | 0.6                       | 0.1                | 511.9                  | 0.01                  | 99.41                     |
| 97.0-98.0    | 0.5                       | 0.1                | 512.0                  | 0.01                  | 99.42                     |
| 98.0-99.0    | 0.5                       | 0.1                | 512.1                  | 0.01                  | 99.43                     |
| 99.0-100.0   | 0.4                       | 0.0                | 512.1                  | 0.01                  | 99.44                     |
| 100.0-101.0  | 0.4                       | 0.0                | 512.1                  | 0.01                  | 99.45                     |
| 101.0-102.0  | 0.4                       | 0.0                | 512.2                  | 0.01                  | 99.46                     |
| 102.0-103.0  | 0.4                       | 0.0                | 512.2                  | 0.01                  | 99.46                     |
| 103.0-104.0  | 0.3                       | 0.0                | 512.3                  | 0.01                  | 99.47                     |
| 104.0-105.0  | 0.3                       | 0.0                | 512.3                  | 0.01                  | 99.48                     |
| 105.0-106.0  | 0.3                       | 0.0                | 512.3                  | 0.01                  | 99.48                     |
| 106.0-107.0  | 0.3                       | 0.0                | 512.3                  | 0.01                  | 99.49                     |
| 107.0-108.0  | 0.2                       | 0.0                | 512.4                  | 0.00                  | 99.49                     |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 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  | 0.2                       | 0.0                | 512.4                  | 0.00                  | 99.50                     |
| 109.0-110.0  | 0.2                       | 0.0                | 512.4                  | 0.00                  | 99.50                     |
| 110.0-111.0  | 0.2                       | 0.0                | 512.4                  | 0.00                  | 99.50                     |
| 111.0-112.0  | 0.2                       | 0.0                | 512.4                  | 0.00                  | 99.51                     |
| 112.0-113.0  | 0.2                       | 0.0                | 512.5                  | 0.00                  | 99.51                     |
| 113.0-114.0  | 0.2                       | 0.0                | 512.5                  | 0.00                  | 99.51                     |
| 114.0-115.0  | 0.2                       | 0.0                | 512.5                  | 0.00                  | 99.52                     |
| 115.0-116.0  | 0.2                       | 0.0                | 512.5                  | 0.00                  | 99.52                     |
| 116.0-117.0  | 0.2                       | 0.0                | 512.5                  | 0.00                  | 99.53                     |
| 117.0-118.0  | 0.2                       | 0.0                | 512.6                  | 0.00                  | 99.53                     |
| 118.0-119.0  | 0.2                       | 0.0                | 512.6                  | 0.00                  | 99.53                     |
| 119.0-120.0  | 0.2                       | 0.0                | 512.6                  | 0.00                  | 99.54                     |
| 120.0-121.0  | 0.2                       | 0.0                | 512.6                  | 0.00                  | 99.54                     |
| 121.0-122.0  | 0.3                       | 0.0                | 512.6                  | 0.00                  | 99.55                     |
| 122.0-123.0  | 0.3                       | 0.0                | 512.7                  | 0.01                  | 99.55                     |
| 123.0-124.0  | 0.3                       | 0.0                | 512.7                  | 0.01                  | 99.56                     |
| 124.0-125.0  | 0.3                       | 0.0                | 512.7                  | 0.01                  | 99.56                     |
| 125.0-126.0  | 0.3                       | 0.0                | 512.8                  | 0.01                  | 99.57                     |
| 126.0-127.0  | 0.4                       | 0.0                | 512.8                  | 0.01                  | 99.57                     |
| 127.0-128.0  | 0.4                       | 0.0                | 512.8                  | 0.01                  | 99.58                     |
| 128.0-129.0  | 0.4                       | 0.0                | 512.9                  | 0.01                  | 99.59                     |
| 129.0-130.0  | 0.4                       | 0.0                | 512.9                  | 0.01                  | 99.59                     |
| 130.0-131.0  | 0.5                       | 0.0                | 512.9                  | 0.01                  | 99.60                     |
| 131.0-132.0  | 0.5                       | 0.0                | 513.0                  | 0.01                  | 99.61                     |
| 132.0-133.0  | 0.5                       | 0.0                | 513.0                  | 0.01                  | 99.62                     |
| 133.0-134.0  | 0.5                       | 0.0                | 513.1                  | 0.01                  | 99.63                     |
| 134.0-135.0  | 0.6                       | 0.0                | 513.1                  | 0.01                  | 99.63                     |
| 135.0-136.0  | 0.6                       | 0.0                | 513.1                  | 0.01                  | 99.64                     |
| 136.0-137.0  | 0.6                       | 0.0                | 513.2                  | 0.01                  | 99.65                     |
| 137.0-138.0  | 0.7                       | 0.0                | 513.2                  | 0.01                  | 99.66                     |
| 138.0-139.0  | 0.7                       | 0.1                | 513.3                  | 0.01                  | 99.67                     |
| 139.0-140.0  | 0.7                       | 0.1                | 513.3                  | 0.01                  | 99.68                     |
| 140.0-141.0  | 0.8                       | 0.1                | 513.4                  | 0.01                  | 99.69                     |
| 141.0-142.0  | 0.8                       | 0.1                | 513.4                  | 0.01                  | 99.70                     |
| 142.0-143.0  | 0.8                       | 0.1                | 513.5                  | 0.01                  | 99.71                     |
| 143.0-144.0  | 0.8                       | 0.1                | 513.6                  | 0.01                  | 99.72                     |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 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  | 0.9                       | 0.1                | 513.6                  | 0.01                  | 99.74                     |
| 145.0-146.0  | 0.9                       | 0.1                | 513.7                  | 0.01                  | 99.75                     |
| 146.0-147.0  | 0.9                       | 0.1                | 513.7                  | 0.01                  | 99.76                     |
| 147.0-148.0  | 1.0                       | 0.1                | 513.8                  | 0.01                  | 99.77                     |
| 148.0-149.0  | 1.0                       | 0.1                | 513.8                  | 0.01                  | 99.78                     |
| 149.0-150.0  | 1.0                       | 0.1                | 513.9                  | 0.01                  | 99.79                     |
| 150.0-151.0  | 1.0                       | 0.1                | 514.0                  | 0.01                  | 99.80                     |
| 151.0-152.0  | 1.1                       | 0.1                | 514.0                  | 0.01                  | 99.81                     |
| 152.0-153.0  | 1.1                       | 0.1                | 514.1                  | 0.01                  | 99.82                     |
| 153.0-154.0  | 1.1                       | 0.1                | 514.1                  | 0.01                  | 99.83                     |
| 154.0-155.0  | 1.1                       | 0.1                | 514.2                  | 0.01                  | 99.84                     |
| 155.0-156.0  | 1.2                       | 0.1                | 514.2                  | 0.01                  | 99.85                     |
| 156.0-157.0  | 1.2                       | 0.1                | 514.3                  | 0.01                  | 99.86                     |
| 157.0-158.0  | 1.2                       | 0.1                | 514.3                  | 0.01                  | 99.87                     |
| 158.0-159.0  | 1.3                       | 0.1                | 514.4                  | 0.01                  | 99.88                     |
| 159.0-160.0  | 1.3                       | 0.0                | 514.4                  | 0.01                  | 99.89                     |
| 160.0-161.0  | 1.3                       | 0.0                | 514.5                  | 0.01                  | 99.90                     |
| 161.0-162.0  | 1.3                       | 0.0                | 514.5                  | 0.01                  | 99.91                     |
| 162.0-163.0  | 1.4                       | 0.0                | 514.6                  | 0.01                  | 99.92                     |
| 163.0-164.0  | 1.4                       | 0.0                | 514.6                  | 0.01                  | 99.93                     |
| 164.0-165.0  | 1.4                       | 0.0                | 514.7                  | 0.01                  | 99.94                     |
| 165.0-166.0  | 1.4                       | 0.0                | 514.7                  | 0.01                  | 99.94                     |
| 166.0-167.0  | 1.4                       | 0.0                | 514.7                  | 0.01                  | 99.95                     |
| 167.0-168.0  | 1.5                       | 0.0                | 514.8                  | 0.01                  | 99.96                     |
| 168.0-169.0  | 1.5                       | 0.0                | 514.8                  | 0.01                  | 99.96                     |
| 169.0-170.0  | 1.5                       | 0.0                | 514.8                  | 0.01                  | 99.97                     |
| 170.0-171.0  | 1.5                       | 0.0                | 514.9                  | 0.01                  | 99.98                     |
| 171.0-172.0  | 1.6                       | 0.0                | 514.9                  | 0.00                  | 99.98                     |
| 172.0-173.0  | 1.6                       | 0.0                | 514.9                  | 0.00                  | 99.99                     |
| 173.0-174.0  | 1.6                       | 0.0                | 514.9                  | 0.00                  | 99.99                     |
| 174.0-175.0  | 1.6                       | 0.0                | 514.9                  | 0.00                  | 99.99                     |
| 175.0-176.0  | 1.6                       | 0.0                | 515.0                  | 0.00                  | 100.00                    |
| 176.0-177.0  | 1.7                       | 0.0                | 515.0                  | 0.00                  | 100.00                    |
| 177.0-178.0  | 1.7                       | 0.0                | 515.0                  | 0.00                  | 100.00                    |
| 178.0-179.0  | 1.7                       | 0.0                | 515.0                  | 0.00                  | 100.00                    |
| 179.0-180.0  | 1.7                       | 0.0                | 515.0                  | 0.00                  | 100.00                    |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:



## Zonal Lumen (Continue 5)

cone flux(90°): 401.31 lm

%lum = 77.9%

%lamp = 77.9%

cone flux(120°): 483.66 lm

%lum = 93.9%

%lamp = 93.9%

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C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

### Candlepower Table

Unit: cd

| G\C   | C0.0  | C30.0 | C60.0 | C90.0 | C120.0 | C150.0 | C180.0 | C210.0 | C240.0 | C270.0 |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| G0.0  | 318.2 | 317.5 | 317.9 | 317.0 | 317.2  | 317.5  | 318.2  | 317.5  | 317.9  | 317.0  |
| G1.0  | 318.2 | 317.2 | 318.2 | 318.0 | 317.5  | 317.5  | 317.7  | 317.5  | 317.3  | 317.2  |
| G2.0  | 318.9 | 317.9 | 318.9 | 318.4 | 318.3  | 317.3  | 318.9  | 318.7  | 317.3  | 317.5  |
| G3.0  | 317.1 | 318.8 | 319.1 | 319.5 | 318.4  | 317.8  | 318.9  | 318.2  | 317.6  | 318.0  |
| G4.0  | 317.4 | 318.5 | 319.6 | 320.2 | 319.9  | 318.5  | 318.9  | 318.0  | 317.8  | 318.2  |
| G5.0  | 318.3 | 318.7 | 320.5 | 321.0 | 321.1  | 319.2  | 319.5  | 318.2  | 318.1  | 317.9  |
| G6.0  | 318.6 | 318.3 | 320.8 | 322.3 | 322.1  | 320.3  | 318.9  | 318.0  | 318.5  | 317.5  |
| G7.0  | 318.9 | 320.2 | 322.3 | 323.3 | 322.5  | 320.7  | 320.2  | 318.2  | 318.5  | 316.2  |
| G8.0  | 319.8 | 319.1 | 322.3 | 324.7 | 324.4  | 321.6  | 320.4  | 318.6  | 318.2  | 317.1  |
| G9.0  | 319.8 | 319.3 | 324.0 | 325.9 | 325.4  | 323.1  | 320.1  | 319.5  | 318.4  | 317.1  |
| G10.0 | 320.1 | 319.8 | 324.6 | 327.1 | 326.1  | 323.1  | 321.0  | 319.2  | 318.7  | 316.3  |
| G11.0 | 320.3 | 319.9 | 325.4 | 328.1 | 327.4  | 323.7  | 320.9  | 319.4  | 319.0  | 316.7  |
| G12.0 | 320.5 | 320.1 | 325.6 | 328.2 | 328.3  | 325.0  | 321.2  | 320.5  | 318.3  | 315.5  |
| G13.0 | 319.9 | 320.2 | 325.1 | 329.4 | 328.6  | 326.0  | 321.2  | 320.4  | 318.7  | 315.3  |
| G14.0 | 319.3 | 320.5 | 325.8 | 329.5 | 328.6  | 326.6  | 321.2  | 319.5  | 318.0  | 315.5  |
| G15.0 | 318.7 | 319.5 | 325.6 | 329.2 | 329.2  | 327.0  | 321.2  | 319.1  | 318.6  | 315.1  |
| G16.0 | 318.2 | 319.1 | 325.2 | 330.0 | 329.7  | 327.3  | 320.2  | 320.3  | 318.5  | 314.4  |
| G17.0 | 316.0 | 319.1 | 325.0 | 329.2 | 329.4  | 327.4  | 321.1  | 320.6  | 318.1  | 313.9  |
| G18.0 | 314.7 | 318.4 | 324.8 | 328.9 | 329.4  | 327.1  | 320.8  | 321.0  | 316.8  | 311.7  |
| G19.0 | 312.7 | 317.6 | 324.2 | 328.7 | 329.9  | 326.9  | 320.6  | 321.4  | 314.4  | 308.3  |
| G20.0 | 310.7 | 316.2 | 323.7 | 326.8 | 330.2  | 327.1  | 320.5  | 320.3  | 313.1  | 304.5  |
| G21.0 | 308.6 | 316.2 | 322.7 | 326.5 | 331.0  | 326.4  | 319.8  | 319.8  | 310.0  | 299.3  |
| G22.0 | 306.1 | 314.9 | 320.8 | 325.5 | 330.1  | 325.9  | 318.3  | 318.4  | 306.8  | 294.5  |
| G23.0 | 303.3 | 313.3 | 319.8 | 323.6 | 329.2  | 325.2  | 317.4  | 316.7  | 303.3  | 265.9  |
| G24.0 | 300.0 | 311.6 | 318.3 | 321.2 | 329.6  | 324.7  | 315.1  | 313.2  | 271.2  | 213.3  |
| G25.0 | 295.2 | 309.8 | 316.3 | 318.7 | 328.7  | 323.5  | 313.4  | 310.4  | 225.7  | 191.7  |
| G26.0 | 290.1 | 308.5 | 314.3 | 316.0 | 326.4  | 321.0  | 311.0  | 306.0  | 185.4  | 143.2  |
| G27.0 | 285.0 | 305.6 | 311.5 | 312.6 | 324.4  | 319.9  | 307.5  | 290.4  | 145.0  | 111.9  |
| G28.0 | 278.6 | 302.4 | 309.3 | 308.3 | 322.2  | 317.7  | 303.2  | 260.3  | 122.4  | 106.8  |
| G29.0 | 273.4 | 299.0 | 306.2 | 305.0 | 319.9  | 315.4  | 298.5  | 214.0  | 117.3  | 100.6  |
| G30.0 | 268.0 | 295.5 | 302.0 | 300.2 | 317.3  | 312.4  | 293.5  | 173.9  | 110.3  | 92.3   |
| G31.0 | 261.7 | 291.7 | 297.6 | 295.3 | 314.5  | 308.3  | 287.0  | 145.9  | 100.4  | 81.5   |
| G32.0 | 244.9 | 287.0 | 293.0 | 292.3 | 311.3  | 304.6  | 281.1  | 128.3  | 89.5   | 70.9   |
| G33.0 | 229.5 | 282.2 | 289.1 | 288.0 | 307.2  | 301.0  | 272.9  | 122.2  | 78.0   | 58.1   |
| G34.0 | 203.2 | 276.1 | 284.6 | 282.6 | 303.2  | 296.8  | 255.0  | 114.1  | 63.9   | 42.1   |
| G35.0 | 178.0 | 269.7 | 278.4 | 278.9 | 299.5  | 292.3  | 232.1  | 105.0  | 46.3   | 26.5   |
| G36.0 | 152.9 | 263.0 | 272.4 | 274.5 | 294.5  | 286.7  | 207.8  | 96.2   | 30.3   | 14.8   |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

### Candlepower Table (Continue 1)

Unit: cd

| G\C   | C0.0  | C30.0 | C60.0 | C90.0 | C120.0 | C150.0 | C180.0 | C210.0 | C240.0 | C270.0 |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| G37.0 | 135.1 | 255.9 | 266.4 | 269.2 | 288.8  | 280.4  | 181.5  | 88.1   | 17.3   | 7.0    |
| G38.0 | 127.1 | 247.8 | 260.2 | 264.5 | 282.7  | 273.7  | 156.3  | 80.0   | 8.4    | 2.3    |
| G39.0 | 123.1 | 240.3 | 253.2 | 259.4 | 276.8  | 267.4  | 137.6  | 68.4   | 3.2    | 0.9    |
| G40.0 | 117.8 | 232.6 | 245.6 | 254.3 | 269.6  | 259.9  | 130.3  | 54.2   | 1.3    | 0.2    |
| G41.0 | 111.8 | 225.4 | 238.4 | 248.9 | 263.5  | 252.9  | 125.6  | 39.8   | 0.5    | 0.2    |
| G42.0 | 104.7 | 213.0 | 231.5 | 243.7 | 255.6  | 244.5  | 120.0  | 28.1   | 0.5    | 0.2    |
| G43.0 | 97.3  | 199.6 | 224.3 | 238.8 | 248.0  | 238.6  | 112.8  | 18.3   | 0.5    | 0.2    |
| G44.0 | 90.2  | 184.7 | 216.5 | 232.1 | 241.1  | 224.8  | 105.9  | 10.6   | 0.4    | 0.1    |
| G45.0 | 82.6  | 166.4 | 209.8 | 226.0 | 233.7  | 210.0  | 98.3   | 5.4    | 0.4    | 0.1    |
| G46.0 | 74.6  | 141.8 | 202.6 | 220.3 | 226.4  | 195.8  | 90.7   | 3.7    | 0.4    | 0.0    |
| G47.0 | 66.6  | 125.6 | 195.0 | 214.1 | 218.2  | 179.1  | 82.2   | 2.1    | 0.4    | 0.0    |
| G48.0 | 56.0  | 117.1 | 187.8 | 207.1 | 211.4  | 155.1  | 73.2   | 1.8    | 0.4    | 0.0    |
| G49.0 | 45.7  | 110.4 | 179.8 | 200.8 | 204.1  | 136.6  | 63.9   | 1.7    | 0.3    | 0.0    |
| G50.0 | 34.8  | 104.4 | 172.7 | 194.6 | 196.2  | 126.7  | 52.1   | 1.7    | 0.3    | 0.0    |
| G51.0 | 25.8  | 98.2  | 164.5 | 187.7 | 186.9  | 119.7  | 40.3   | 1.7    | 0.3    | 0.0    |
| G52.0 | 18.2  | 91.5  | 156.4 | 180.5 | 178.9  | 112.9  | 31.4   | 1.6    | 0.3    | 0.0    |
| G53.0 | 12.4  | 84.8  | 148.1 | 172.8 | 170.2  | 105.9  | 21.8   | 1.5    | 0.2    | 0.0    |
| G54.0 | 7.4   | 77.6  | 141.2 | 164.5 | 162.3  | 98.2   | 14.8   | 1.5    | 0.2    | 0.0    |
| G55.0 | 5.8   | 71.7  | 133.1 | 156.8 | 153.9  | 90.5   | 10.1   | 1.4    | 0.1    | 0.0    |
| G56.0 | 4.6   | 65.8  | 121.7 | 149.2 | 146.5  | 83.2   | 5.8    | 1.4    | 0.0    | 0.0    |
| G57.0 | 4.0   | 59.1  | 112.5 | 140.9 | 138.1  | 75.9   | 4.7    | 1.3    | 0.0    | 0.0    |
| G58.0 | 3.8   | 54.1  | 102.0 | 133.8 | 125.6  | 69.9   | 3.9    | 1.2    | 0.0    | 0.0    |
| G59.0 | 3.7   | 48.1  | 91.2  | 126.4 | 115.6  | 64.0   | 3.4    | 1.1    | 0.0    | 0.0    |
| G60.0 | 3.5   | 41.8  | 82.6  | 119.2 | 104.8  | 57.0   | 3.2    | 1.0    | 0.0    | 0.0    |
| G61.0 | 3.4   | 34.2  | 77.0  | 112.6 | 94.3   | 50.4   | 3.1    | 0.9    | 0.0    | 0.0    |
| G62.0 | 3.2   | 27.0  | 71.6  | 105.6 | 85.8   | 42.7   | 3.0    | 0.8    | 0.0    | 0.0    |
| G63.0 | 3.1   | 20.7  | 66.1  | 99.3  | 78.4   | 36.1   | 2.8    | 0.7    | 0.0    | 0.0    |
| G64.0 | 2.9   | 15.2  | 60.4  | 92.7  | 72.3   | 28.4   | 2.7    | 0.6    | 0.0    | 0.0    |
| G65.0 | 2.8   | 10.2  | 55.4  | 86.4  | 66.0   | 21.4   | 2.6    | 0.5    | 0.0    | 0.0    |
| G66.0 | 2.6   | 7.6   | 51.0  | 80.4  | 59.6   | 15.0   | 2.5    | 0.3    | 0.0    | 0.0    |
| G67.0 | 2.5   | 5.6   | 45.8  | 68.7  | 54.0   | 9.9    | 2.3    | 0.2    | 0.0    | 0.0    |
| G68.0 | 2.3   | 4.8   | 40.8  | 60.2  | 49.2   | 6.8    | 2.2    | 0.1    | 0.0    | 0.0    |
| G69.0 | 2.1   | 4.3   | 36.3  | 55.1  | 44.1   | 5.0    | 2.1    | 0.0    | 0.0    | 0.0    |
| G70.0 | 2.0   | 4.1   | 31.8  | 50.4  | 38.5   | 4.3    | 1.9    | 0.0    | 0.0    | 0.0    |
| G71.0 | 1.8   | 3.9   | 27.0  | 45.5  | 33.5   | 3.7    | 1.8    | 0.0    | 0.0    | 0.0    |
| G72.0 | 1.6   | 3.8   | 22.2  | 40.5  | 28.8   | 3.5    | 1.7    | 0.0    | 0.0    | 0.0    |
| G73.0 | 1.5   | 3.6   | 17.8  | 35.5  | 24.0   | 3.4    | 1.5    | 0.0    | 0.0    | 0.0    |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 2)

Unit: cd

| G\C    | C0.0 | C30.0 | C60.0 | C90.0 | C120.0 | C150.0 | C180.0 | C210.0 | C240.0 | C270.0 |
|--------|------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| G74.0  | 1.3  | 3.5   | 13.3  | 31.0  | 19.2   | 3.3    | 1.4    | 0.0    | 0.0    | 0.0    |
| G75.0  | 1.2  | 3.3   | 9.0   | 26.5  | 14.3   | 3.2    | 1.3    | 0.0    | 0.0    | 0.0    |
| G76.0  | 1.0  | 3.2   | 6.0   | 21.7  | 10.0   | 3.0    | 1.2    | 0.0    | 0.0    | 0.0    |
| G77.0  | 0.9  | 3.0   | 4.6   | 16.2  | 6.6    | 2.9    | 1.1    | 0.0    | 0.0    | 0.0    |
| G78.0  | 0.8  | 2.9   | 4.1   | 11.2  | 4.7    | 2.8    | 0.9    | 0.0    | 0.0    | 0.0    |
| G79.0  | 0.7  | 2.7   | 3.9   | 6.9   | 3.9    | 2.6    | 0.8    | 0.0    | 0.0    | 0.0    |
| G80.0  | 0.6  | 2.6   | 3.8   | 4.3   | 3.6    | 2.5    | 0.7    | 0.0    | 0.0    | 0.0    |
| G81.0  | 0.5  | 2.5   | 3.7   | 3.7   | 3.5    | 2.4    | 0.6    | 0.0    | 0.0    | 0.0    |
| G82.0  | 0.4  | 2.3   | 3.5   | 3.5   | 3.4    | 2.2    | 0.6    | 0.0    | 0.0    | 0.0    |
| G83.0  | 0.3  | 2.2   | 3.4   | 3.4   | 3.3    | 2.1    | 0.4    | 0.0    | 0.0    | 0.0    |
| G84.0  | 0.2  | 2.0   | 3.3   | 3.3   | 3.2    | 2.0    | 0.4    | 0.0    | 0.0    | 0.0    |
| G85.0  | 0.1  | 1.9   | 3.2   | 3.2   | 3.0    | 1.9    | 0.3    | 0.0    | 0.0    | 0.0    |
| G86.0  | 0.0  | 1.8   | 3.0   | 3.1   | 2.9    | 1.8    | 0.2    | 0.0    | 0.0    | 0.0    |
| G87.0  | 0.0  | 1.6   | 2.9   | 3.0   | 2.8    | 1.6    | 0.1    | 0.0    | 0.0    | 0.0    |
| G88.0  | 0.0  | 1.5   | 2.8   | 2.9   | 2.7    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| G89.0  | 0.0  | 1.4   | 2.7   | 2.8   | 2.6    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| G90.0  | 0.0  | 1.2   | 2.5   | 2.7   | 2.4    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| G91.0  | 0.0  | 1.1   | 2.4   | 2.6   | 2.3    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| G92.0  | 0.0  | 1.0   | 2.3   | 2.4   | 2.2    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| G93.0  | 0.0  | 0.9   | 2.2   | 2.3   | 2.1    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| G94.0  | 0.0  | 0.8   | 2.0   | 2.2   | 2.0    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| G95.0  | 0.0  | 0.7   | 1.9   | 2.1   | 1.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| G96.0  | 0.0  | 0.7   | 1.8   | 2.0   | 1.7    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| G97.0  | 0.0  | 0.6   | 1.7   | 1.9   | 1.6    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| G98.0  | 0.0  | 0.5   | 1.6   | 1.8   | 1.5    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| G99.0  | 0.0  | 0.4   | 1.5   | 1.7   | 1.4    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| G100.0 | 0.0  | 0.3   | 1.4   | 1.6   | 1.3    | 0.4    | 0.0    | 0.0    | 0.0    | 0.1    |
| G101.0 | 0.0  | 0.3   | 1.2   | 1.5   | 1.2    | 0.4    | 0.0    | 0.0    | 0.0    | 0.1    |
| G102.0 | 0.0  | 0.2   | 1.1   | 1.4   | 1.1    | 0.3    | 0.0    | 0.0    | 0.0    | 0.1    |
| G103.0 | 0.0  | 0.2   | 1.0   | 1.3   | 1.0    | 0.3    | 0.0    | 0.0    | 0.1    | 0.2    |
| G104.0 | 0.0  | 0.1   | 0.9   | 1.3   | 0.9    | 0.2    | 0.0    | 0.0    | 0.1    | 0.2    |
| G105.0 | 0.0  | 0.0   | 0.8   | 1.1   | 0.9    | 0.1    | 0.0    | 0.0    | 0.1    | 0.2    |
| G106.0 | 0.0  | 0.0   | 0.8   | 1.0   | 0.8    | 0.0    | 0.0    | 0.0    | 0.2    | 0.2    |
| G107.0 | 0.0  | 0.0   | 0.7   | 0.9   | 0.7    | 0.0    | 0.0    | 0.0    | 0.2    | 0.3    |
| G108.0 | 0.0  | 0.0   | 0.6   | 0.6   | 0.6    | 0.0    | 0.0    | 0.0    | 0.2    | 0.3    |
| G109.0 | 0.0  | 0.0   | 0.5   | 0.2   | 0.5    | 0.0    | 0.0    | 0.0    | 0.2    | 0.3    |
| G110.0 | 0.0  | 0.0   | 0.4   | 0.0   | 0.4    | 0.0    | 0.0    | 0.0    | 0.3    | 0.3    |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 3)

Unit: cd

| G\C    | C0.0 | C30.0 | C60.0 | C90.0 | C120.0 | C150.0 | C180.0 | C210.0 | C240.0 | C270.0 |
|--------|------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| G111.0 | 0.0  | 0.0   | 0.4   | 0.0   | 0.4    | 0.0    | 0.0    | 0.1    | 0.3    | 0.4    |
| G112.0 | 0.0  | 0.0   | 0.3   | 0.0   | 0.3    | 0.0    | 0.0    | 0.1    | 0.3    | 0.4    |
| G113.0 | 0.0  | 0.0   | 0.3   | 0.0   | 0.3    | 0.0    | 0.0    | 0.1    | 0.3    | 0.4    |
| G114.0 | 0.0  | 0.0   | 0.2   | 0.0   | 0.2    | 0.0    | 0.0    | 0.2    | 0.4    | 0.5    |
| G115.0 | 0.0  | 0.0   | 0.2   | 0.0   | 0.2    | 0.0    | 0.0    | 0.2    | 0.4    | 0.5    |
| G116.0 | 0.0  | 0.0   | 0.1   | 0.0   | 0.1    | 0.0    | 0.0    | 0.2    | 0.4    | 0.5    |
| G117.0 | 0.1  | 0.0   | 0.1   | 0.0   | 0.0    | 0.0    | 0.0    | 0.3    | 0.4    | 0.5    |
| G118.0 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.3    | 0.5    | 0.6    |
| G119.0 | 0.1  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.1    | 0.3    | 0.5    | 0.6    |
| G120.0 | 0.1  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.1    | 0.3    | 0.5    | 0.6    |
| G121.0 | 0.2  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.2    | 0.4    | 0.6    | 0.7    |
| G122.0 | 0.2  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.2    | 0.4    | 0.6    | 0.7    |
| G123.0 | 0.2  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.2    | 0.4    | 0.6    | 0.7    |
| G124.0 | 0.3  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.2    | 0.4    | 0.7    | 0.8    |
| G125.0 | 0.3  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.2    | 0.5    | 0.7    | 0.8    |
| G126.0 | 0.3  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.3    | 0.5    | 0.7    | 0.8    |
| G127.0 | 0.3  | 0.1   | 0.0   | 0.0   | 0.0    | 0.0    | 0.3    | 0.6    | 0.7    | 0.9    |
| G128.0 | 0.4  | 0.1   | 0.0   | 0.0   | 0.0    | 0.1    | 0.3    | 0.6    | 0.8    | 0.9    |
| G129.0 | 0.4  | 0.2   | 0.0   | 0.0   | 0.0    | 0.1    | 0.4    | 0.6    | 0.8    | 0.9    |
| G130.0 | 0.4  | 0.2   | 0.0   | 0.0   | 0.0    | 0.1    | 0.4    | 0.6    | 0.8    | 0.9    |
| G131.0 | 0.5  | 0.2   | 0.0   | 0.0   | 0.0    | 0.2    | 0.4    | 0.7    | 0.9    | 1.0    |
| G132.0 | 0.5  | 0.2   | 0.1   | 0.0   | 0.0    | 0.2    | 0.4    | 0.7    | 0.9    | 1.0    |
| G133.0 | 0.5  | 0.3   | 0.2   | 0.0   | 0.0    | 0.3    | 0.5    | 0.7    | 0.9    | 1.0    |
| G134.0 | 0.6  | 0.3   | 0.2   | 0.0   | 0.1    | 0.3    | 0.5    | 0.8    | 0.9    | 1.1    |
| G135.0 | 0.6  | 0.3   | 0.2   | 0.1   | 0.1    | 0.3    | 0.5    | 0.8    | 1.0    | 1.1    |
| G136.0 | 0.6  | 0.4   | 0.3   | 0.1   | 0.2    | 0.3    | 0.6    | 0.8    | 1.0    | 1.1    |
| G137.0 | 0.6  | 0.4   | 0.3   | 0.2   | 0.2    | 0.4    | 0.6    | 0.9    | 1.0    | 1.2    |
| G138.0 | 0.7  | 0.4   | 0.3   | 0.2   | 0.2    | 0.4    | 0.6    | 0.9    | 1.1    | 1.2    |
| G139.0 | 0.7  | 0.4   | 0.3   | 0.2   | 0.3    | 0.4    | 0.7    | 0.9    | 1.1    | 1.2    |
| G140.0 | 0.7  | 0.5   | 0.4   | 0.3   | 0.3    | 0.5    | 0.7    | 0.9    | 1.1    | 1.2    |
| G141.0 | 0.8  | 0.5   | 0.4   | 0.3   | 0.3    | 0.5    | 0.7    | 1.0    | 1.1    | 1.3    |
| G142.0 | 0.8  | 0.6   | 0.4   | 0.3   | 0.4    | 0.5    | 0.8    | 1.0    | 1.2    | 1.4    |
| G143.0 | 0.8  | 0.6   | 0.5   | 0.4   | 0.4    | 0.6    | 0.8    | 1.0    | 1.2    | 1.3    |
| G144.0 | 0.9  | 0.6   | 0.5   | 0.4   | 0.4    | 0.6    | 0.8    | 1.1    | 1.2    | 1.3    |
| G145.0 | 0.9  | 0.6   | 0.5   | 0.4   | 0.5    | 0.7    | 0.8    | 1.1    | 1.2    | 1.3    |
| G146.0 | 0.9  | 0.7   | 0.6   | 0.5   | 0.5    | 0.7    | 0.9    | 1.1    | 1.2    | 1.4    |
| G147.0 | 0.9  | 0.7   | 0.6   | 0.5   | 0.6    | 0.7    | 0.9    | 1.1    | 1.3    | 1.4    |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 4)

Unit: cd

| G\C    | C0.0 | C30.0 | C60.0 | C90.0 | C120.0 | C150.0 | C180.0 | C210.0 | C240.0 | C270.0 |
|--------|------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| G148.0 | 0.9  | 0.7   | 0.6   | 0.5   | 0.6    | 0.8    | 0.9    | 1.1    | 1.3    | 1.4    |
| G149.0 | 1.0  | 0.8   | 0.7   | 0.6   | 0.6    | 0.8    | 0.9    | 1.2    | 1.3    | 1.5    |
| G150.0 | 1.0  | 0.8   | 0.7   | 0.6   | 0.6    | 0.8    | 1.0    | 1.2    | 1.3    | 1.5    |
| G151.0 | 1.0  | 0.8   | 0.7   | 0.6   | 0.7    | 0.9    | 1.0    | 1.2    | 1.4    | 1.5    |
| G152.0 | 1.1  | 0.9   | 0.7   | 0.7   | 0.7    | 0.9    | 1.0    | 1.2    | 1.4    | 1.5    |
| G153.0 | 1.1  | 0.9   | 0.8   | 0.7   | 0.8    | 0.9    | 1.1    | 1.3    | 1.4    | 1.5    |
| G154.0 | 1.1  | 0.9   | 0.8   | 0.8   | 0.8    | 0.9    | 1.1    | 1.3    | 1.4    | 1.5    |
| G155.0 | 1.2  | 0.9   | 0.9   | 0.8   | 0.8    | 0.9    | 1.1    | 1.3    | 1.5    | 1.5    |
| G156.0 | 1.2  | 1.0   | 0.9   | 0.8   | 0.8    | 1.0    | 1.1    | 1.3    | 1.5    | 1.6    |
| G157.0 | 1.2  | 1.0   | 0.9   | 0.8   | 0.9    | 1.0    | 1.2    | 1.4    | 1.5    | 1.6    |
| G158.0 | 1.3  | 1.0   | 1.0   | 0.9   | 0.9    | 1.1    | 1.2    | 1.4    | 1.5    | 1.6    |
| G159.0 | 1.3  | 1.1   | 1.0   | 0.9   | 0.9    | 1.1    | 1.2    | 1.4    | 1.5    | 1.6    |
| G160.0 | 1.3  | 1.1   | 1.0   | 0.9   | 1.0    | 1.1    | 1.3    | 1.5    | 1.5    | 1.6    |
| G161.0 | 1.4  | 1.1   | 1.0   | 1.0   | 1.0    | 1.1    | 1.3    | 1.5    | 1.5    | 1.6    |
| G162.0 | 1.4  | 1.2   | 1.1   | 1.0   | 1.0    | 1.2    | 1.3    | 1.5    | 1.6    | 1.6    |
| G163.0 | 1.4  | 1.2   | 1.1   | 1.0   | 1.1    | 1.2    | 1.3    | 1.5    | 1.6    | 1.6    |
| G164.0 | 1.4  | 1.2   | 1.1   | 1.1   | 1.1    | 1.2    | 1.4    | 1.5    | 1.6    | 1.7    |
| G165.0 | 1.5  | 1.3   | 1.2   | 1.1   | 1.2    | 1.3    | 1.4    | 1.5    | 1.6    | 1.7    |
| G166.0 | 1.5  | 1.3   | 1.2   | 1.1   | 1.2    | 1.3    | 1.4    | 1.5    | 1.6    | 1.7    |
| G167.0 | 1.5  | 1.4   | 1.3   | 1.2   | 1.2    | 1.3    | 1.5    | 1.6    | 1.6    | 1.7    |
| G168.0 | 1.5  | 1.4   | 1.3   | 1.2   | 1.3    | 1.4    | 1.5    | 1.6    | 1.6    | 1.7    |
| G169.0 | 1.5  | 1.4   | 1.4   | 1.3   | 1.3    | 1.4    | 1.5    | 1.6    | 1.7    | 1.7    |
| G170.0 | 1.6  | 1.5   | 1.4   | 1.3   | 1.3    | 1.4    | 1.5    | 1.6    | 1.7    | 1.7    |
| G171.0 | 1.6  | 1.5   | 1.4   | 1.4   | 1.4    | 1.5    | 1.6    | 1.6    | 1.7    | 1.7    |
| G172.0 | 1.6  | 1.5   | 1.5   | 1.4   | 1.4    | 1.5    | 1.6    | 1.8    | 1.7    | 1.7    |
| G173.0 | 1.6  | 1.5   | 1.5   | 1.4   | 1.5    | 1.5    | 1.6    | 1.6    | 1.7    | 1.7    |
| G174.0 | 1.6  | 1.6   | 1.5   | 1.5   | 1.5    | 1.6    | 1.6    | 1.7    | 1.7    | 1.7    |
| G175.0 | 1.7  | 1.6   | 1.6   | 1.5   | 1.5    | 1.6    | 1.6    | 1.7    | 1.7    | 1.8    |
| G176.0 | 1.7  | 1.6   | 1.6   | 1.5   | 1.6    | 1.6    | 1.7    | 1.7    | 1.7    | 1.7    |
| G177.0 | 1.7  | 1.6   | 1.6   | 1.6   | 1.6    | 1.6    | 1.7    | 1.7    | 1.7    | 1.7    |
| G178.0 | 1.7  | 1.6   | 1.7   | 1.6   | 1.6    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| G179.0 | 1.7  | 1.7   | 1.7   | 1.6   | 1.6    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| G180.0 | 1.7  | 1.6   | 1.7   | 1.7   | 1.6    | 1.6    | 1.7    | 1.7    | 1.7    | 1.7    |
|        |      |       |       |       |        |        |        |        |        |        |
|        |      |       |       |       |        |        |        |        |        |        |
|        |      |       |       |       |        |        |        |        |        |        |
|        |      |       |       |       |        |        |        |        |        |        |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 5)

Unit: cd

| G\C   | C300.0 | C330.0 | C360.0 |  |  |  |  |  |  |
|-------|--------|--------|--------|--|--|--|--|--|--|
| G0.0  | 317.2  | 317.5  | 318.2  |  |  |  |  |  |  |
| G1.0  | 317.4  | 318.4  | 318.2  |  |  |  |  |  |  |
| G2.0  | 317.2  | 317.2  | 318.9  |  |  |  |  |  |  |
| G3.0  | 317.8  | 317.9  | 317.1  |  |  |  |  |  |  |
| G4.0  | 317.3  | 317.7  | 317.4  |  |  |  |  |  |  |
| G5.0  | 317.7  | 317.9  | 318.3  |  |  |  |  |  |  |
| G6.0  | 317.4  | 317.9  | 318.6  |  |  |  |  |  |  |
| G7.0  | 317.5  | 318.0  | 318.9  |  |  |  |  |  |  |
| G8.0  | 315.6  | 317.9  | 319.8  |  |  |  |  |  |  |
| G9.0  | 316.6  | 317.7  | 319.8  |  |  |  |  |  |  |
| G10.0 | 314.7  | 317.2  | 320.1  |  |  |  |  |  |  |
| G11.0 | 314.1  | 316.8  | 320.3  |  |  |  |  |  |  |
| G12.0 | 313.2  | 314.8  | 320.5  |  |  |  |  |  |  |
| G13.0 | 313.1  | 314.9  | 319.9  |  |  |  |  |  |  |
| G14.0 | 313.8  | 313.9  | 319.3  |  |  |  |  |  |  |
| G15.0 | 312.8  | 312.8  | 318.7  |  |  |  |  |  |  |
| G16.0 | 312.2  | 311.8  | 318.2  |  |  |  |  |  |  |
| G17.0 | 310.8  | 309.9  | 316.0  |  |  |  |  |  |  |
| G18.0 | 308.1  | 307.8  | 314.7  |  |  |  |  |  |  |
| G19.0 | 306.0  | 305.9  | 312.7  |  |  |  |  |  |  |
| G20.0 | 303.3  | 301.9  | 310.7  |  |  |  |  |  |  |
| G21.0 | 299.4  | 298.5  | 308.6  |  |  |  |  |  |  |
| G22.0 | 290.9  | 294.6  | 306.1  |  |  |  |  |  |  |
| G23.0 | 254.3  | 290.9  | 303.3  |  |  |  |  |  |  |
| G24.0 | 206.7  | 286.3  | 300.0  |  |  |  |  |  |  |
| G25.0 | 165.4  | 269.0  | 295.2  |  |  |  |  |  |  |
| G26.0 | 132.2  | 239.8  | 290.1  |  |  |  |  |  |  |
| G27.0 | 120.2  | 192.5  | 285.0  |  |  |  |  |  |  |
| G28.0 | 115.4  | 156.8  | 278.6  |  |  |  |  |  |  |
| G29.0 | 107.4  | 132.2  | 273.4  |  |  |  |  |  |  |
| G30.0 | 97.1   | 117.0  | 268.0  |  |  |  |  |  |  |
| G31.0 | 86.7   | 112.3  | 261.7  |  |  |  |  |  |  |
| G32.0 | 75.7   | 106.4  | 244.9  |  |  |  |  |  |  |
| G33.0 | 60.9   | 100.0  | 229.5  |  |  |  |  |  |  |
| G34.0 | 39.9   | 91.7   | 203.2  |  |  |  |  |  |  |
| G35.0 | 24.4   | 84.2   | 178.0  |  |  |  |  |  |  |
| G36.0 | 14.2   | 75.6   | 152.9  |  |  |  |  |  |  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 6)

Unit: cd

| G\C   | C300.0 | C330.0 | C360.0 |  |  |  |  |  |  |
|-------|--------|--------|--------|--|--|--|--|--|--|
| G37.0 | 6.9    | 65.2   | 135.1  |  |  |  |  |  |  |
| G38.0 | 2.5    | 52.3   | 127.1  |  |  |  |  |  |  |
| G39.0 | 0.9    | 38.3   | 123.1  |  |  |  |  |  |  |
| G40.0 | 0.5    | 25.3   | 117.8  |  |  |  |  |  |  |
| G41.0 | 0.5    | 16.3   | 111.8  |  |  |  |  |  |  |
| G42.0 | 0.5    | 9.0    | 104.7  |  |  |  |  |  |  |
| G43.0 | 0.5    | 4.2    | 97.3   |  |  |  |  |  |  |
| G44.0 | 0.5    | 3.0    | 90.2   |  |  |  |  |  |  |
| G45.0 | 0.4    | 2.0    | 82.6   |  |  |  |  |  |  |
| G46.0 | 0.4    | 1.8    | 74.6   |  |  |  |  |  |  |
| G47.0 | 0.4    | 1.8    | 66.6   |  |  |  |  |  |  |
| G48.0 | 0.4    | 1.8    | 56.0   |  |  |  |  |  |  |
| G49.0 | 0.4    | 1.7    | 45.7   |  |  |  |  |  |  |
| G50.0 | 0.3    | 1.7    | 34.8   |  |  |  |  |  |  |
| G51.0 | 0.3    | 1.6    | 25.8   |  |  |  |  |  |  |
| G52.0 | 0.2    | 1.6    | 18.2   |  |  |  |  |  |  |
| G53.0 | 0.2    | 1.5    | 12.4   |  |  |  |  |  |  |
| G54.0 | 0.0    | 1.4    | 7.4    |  |  |  |  |  |  |
| G55.0 | 0.0    | 1.4    | 5.8    |  |  |  |  |  |  |
| G56.0 | 0.0    | 1.3    | 4.6    |  |  |  |  |  |  |
| G57.0 | 0.0    | 1.1    | 4.0    |  |  |  |  |  |  |
| G58.0 | 0.0    | 1.1    | 3.8    |  |  |  |  |  |  |
| G59.0 | 0.0    | 0.9    | 3.7    |  |  |  |  |  |  |
| G60.0 | 0.0    | 0.8    | 3.5    |  |  |  |  |  |  |
| G61.0 | 0.0    | 0.7    | 3.4    |  |  |  |  |  |  |
| G62.0 | 0.0    | 0.6    | 3.2    |  |  |  |  |  |  |
| G63.0 | 0.0    | 0.4    | 3.1    |  |  |  |  |  |  |
| G64.0 | 0.0    | 0.3    | 2.9    |  |  |  |  |  |  |
| G65.0 | 0.0    | 0.2    | 2.8    |  |  |  |  |  |  |
| G66.0 | 0.0    | 0.0    | 2.6    |  |  |  |  |  |  |
| G67.0 | 0.0    | 0.0    | 2.5    |  |  |  |  |  |  |
| G68.0 | 0.0    | 0.0    | 2.3    |  |  |  |  |  |  |
| G69.0 | 0.0    | 0.0    | 2.1    |  |  |  |  |  |  |
| G70.0 | 0.0    | 0.0    | 2.0    |  |  |  |  |  |  |
| G71.0 | 0.0    | 0.0    | 1.8    |  |  |  |  |  |  |
| G72.0 | 0.0    | 0.0    | 1.6    |  |  |  |  |  |  |
| G73.0 | 0.0    | 0.0    | 1.5    |  |  |  |  |  |  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:



## Candlepower Table (Continue 7)

Unit: cd

| G\C    | C300.0 | C330.0 | C360.0 |  |  |  |  |  |  |  |
|--------|--------|--------|--------|--|--|--|--|--|--|--|
| G74.0  | 0.0    | 0.0    | 1.3    |  |  |  |  |  |  |  |
| G75.0  | 0.0    | 0.0    | 1.2    |  |  |  |  |  |  |  |
| G76.0  | 0.0    | 0.0    | 1.0    |  |  |  |  |  |  |  |
| G77.0  | 0.0    | 0.0    | 0.9    |  |  |  |  |  |  |  |
| G78.0  | 0.0    | 0.0    | 0.8    |  |  |  |  |  |  |  |
| G79.0  | 0.0    | 0.0    | 0.7    |  |  |  |  |  |  |  |
| G80.0  | 0.0    | 0.0    | 0.6    |  |  |  |  |  |  |  |
| G81.0  | 0.0    | 0.0    | 0.5    |  |  |  |  |  |  |  |
| G82.0  | 0.0    | 0.0    | 0.4    |  |  |  |  |  |  |  |
| G83.0  | 0.0    | 0.0    | 0.3    |  |  |  |  |  |  |  |
| G84.0  | 0.0    | 0.0    | 0.2    |  |  |  |  |  |  |  |
| G85.0  | 0.0    | 0.0    | 0.1    |  |  |  |  |  |  |  |
| G86.0  | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G87.0  | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G88.0  | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G89.0  | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G90.0  | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G91.0  | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G92.0  | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G93.0  | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G94.0  | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G95.0  | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G96.0  | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G97.0  | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G98.0  | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G99.0  | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G100.0 | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G101.0 | 0.0    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G102.0 | 0.1    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G103.0 | 0.2    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G104.0 | 0.2    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G105.0 | 0.2    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G106.0 | 0.2    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G107.0 | 0.3    | 0.0    | 0.0    |  |  |  |  |  |  |  |
| G108.0 | 0.3    | 0.1    | 0.0    |  |  |  |  |  |  |  |
| G109.0 | 0.3    | 0.1    | 0.0    |  |  |  |  |  |  |  |
| G110.0 | 0.3    | 0.2    | 0.0    |  |  |  |  |  |  |  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 8)

Unit: cd

| G\C    | C300.0 | C330.0 | C360.0 |  |  |  |  |  |  |  |
|--------|--------|--------|--------|--|--|--|--|--|--|--|
| G111.0 | 0.4    | 0.2    | 0.0    |  |  |  |  |  |  |  |
| G112.0 | 0.4    | 0.2    | 0.0    |  |  |  |  |  |  |  |
| G113.0 | 0.4    | 0.2    | 0.0    |  |  |  |  |  |  |  |
| G114.0 | 0.4    | 0.3    | 0.0    |  |  |  |  |  |  |  |
| G115.0 | 0.5    | 0.3    | 0.0    |  |  |  |  |  |  |  |
| G116.0 | 0.5    | 0.3    | 0.0    |  |  |  |  |  |  |  |
| G117.0 | 0.5    | 0.3    | 0.1    |  |  |  |  |  |  |  |
| G118.0 | 0.6    | 0.4    | 0.0    |  |  |  |  |  |  |  |
| G119.0 | 0.6    | 0.4    | 0.1    |  |  |  |  |  |  |  |
| G120.0 | 0.6    | 0.4    | 0.1    |  |  |  |  |  |  |  |
| G121.0 | 0.7    | 0.5    | 0.2    |  |  |  |  |  |  |  |
| G122.0 | 0.7    | 0.5    | 0.2    |  |  |  |  |  |  |  |
| G123.0 | 0.7    | 0.6    | 0.2    |  |  |  |  |  |  |  |
| G124.0 | 0.8    | 0.6    | 0.3    |  |  |  |  |  |  |  |
| G125.0 | 0.8    | 0.6    | 0.3    |  |  |  |  |  |  |  |
| G126.0 | 0.8    | 0.6    | 0.3    |  |  |  |  |  |  |  |
| G127.0 | 0.8    | 0.7    | 0.3    |  |  |  |  |  |  |  |
| G128.0 | 0.9    | 0.7    | 0.4    |  |  |  |  |  |  |  |
| G129.0 | 0.9    | 0.7    | 0.4    |  |  |  |  |  |  |  |
| G130.0 | 0.9    | 0.8    | 0.4    |  |  |  |  |  |  |  |
| G131.0 | 1.0    | 0.8    | 0.5    |  |  |  |  |  |  |  |
| G132.0 | 1.0    | 0.8    | 0.5    |  |  |  |  |  |  |  |
| G133.0 | 1.0    | 0.9    | 0.5    |  |  |  |  |  |  |  |
| G134.0 | 1.1    | 0.9    | 0.6    |  |  |  |  |  |  |  |
| G135.0 | 1.1    | 0.9    | 0.6    |  |  |  |  |  |  |  |
| G136.0 | 1.1    | 1.0    | 0.6    |  |  |  |  |  |  |  |
| G137.0 | 1.1    | 1.0    | 0.6    |  |  |  |  |  |  |  |
| G138.0 | 1.2    | 1.0    | 0.7    |  |  |  |  |  |  |  |
| G139.0 | 1.2    | 1.0    | 0.7    |  |  |  |  |  |  |  |
| G140.0 | 1.2    | 1.1    | 0.7    |  |  |  |  |  |  |  |
| G141.0 | 1.2    | 1.1    | 0.8    |  |  |  |  |  |  |  |
| G142.0 | 1.3    | 1.1    | 0.8    |  |  |  |  |  |  |  |
| G143.0 | 1.3    | 1.1    | 0.8    |  |  |  |  |  |  |  |
| G144.0 | 1.3    | 1.2    | 0.9    |  |  |  |  |  |  |  |
| G145.0 | 1.3    | 1.2    | 0.9    |  |  |  |  |  |  |  |
| G146.0 | 1.3    | 1.2    | 0.9    |  |  |  |  |  |  |  |
| G147.0 | 1.4    | 1.3    | 0.9    |  |  |  |  |  |  |  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 9)

Unit: cd

| G\C    | C300.0 | C330.0 | C360.0 |  |  |  |  |  |  |  |
|--------|--------|--------|--------|--|--|--|--|--|--|--|
| G148.0 | 1.4    | 1.3    | 0.9    |  |  |  |  |  |  |  |
| G149.0 | 1.4    | 1.3    | 1.0    |  |  |  |  |  |  |  |
| G150.0 | 1.4    | 1.3    | 1.0    |  |  |  |  |  |  |  |
| G151.0 | 1.5    | 1.4    | 1.0    |  |  |  |  |  |  |  |
| G152.0 | 1.5    | 1.4    | 1.1    |  |  |  |  |  |  |  |
| G153.0 | 1.5    | 1.4    | 1.1    |  |  |  |  |  |  |  |
| G154.0 | 1.5    | 1.4    | 1.1    |  |  |  |  |  |  |  |
| G155.0 | 1.5    | 1.5    | 1.2    |  |  |  |  |  |  |  |
| G156.0 | 1.5    | 1.5    | 1.2    |  |  |  |  |  |  |  |
| G157.0 | 1.6    | 1.5    | 1.2    |  |  |  |  |  |  |  |
| G158.0 | 1.6    | 1.5    | 1.3    |  |  |  |  |  |  |  |
| G159.0 | 1.6    | 1.5    | 1.3    |  |  |  |  |  |  |  |
| G160.0 | 1.6    | 1.5    | 1.3    |  |  |  |  |  |  |  |
| G161.0 | 1.6    | 1.5    | 1.4    |  |  |  |  |  |  |  |
| G162.0 | 1.6    | 1.6    | 1.4    |  |  |  |  |  |  |  |
| G163.0 | 1.6    | 1.6    | 1.4    |  |  |  |  |  |  |  |
| G164.0 | 1.6    | 1.6    | 1.4    |  |  |  |  |  |  |  |
| G165.0 | 1.6    | 1.6    | 1.5    |  |  |  |  |  |  |  |
| G166.0 | 1.6    | 1.6    | 1.5    |  |  |  |  |  |  |  |
| G167.0 | 1.6    | 1.6    | 1.5    |  |  |  |  |  |  |  |
| G168.0 | 1.7    | 1.6    | 1.5    |  |  |  |  |  |  |  |
| G169.0 | 1.7    | 1.7    | 1.5    |  |  |  |  |  |  |  |
| G170.0 | 1.7    | 1.6    | 1.6    |  |  |  |  |  |  |  |
| G171.0 | 1.7    | 1.7    | 1.6    |  |  |  |  |  |  |  |
| G172.0 | 1.7    | 1.7    | 1.6    |  |  |  |  |  |  |  |
| G173.0 | 1.7    | 1.7    | 1.6    |  |  |  |  |  |  |  |
| G174.0 | 1.7    | 1.7    | 1.6    |  |  |  |  |  |  |  |
| G175.0 | 1.7    | 1.7    | 1.7    |  |  |  |  |  |  |  |
| G176.0 | 1.7    | 1.7    | 1.7    |  |  |  |  |  |  |  |
| G177.0 | 1.7    | 1.7    | 1.7    |  |  |  |  |  |  |  |
| G178.0 | 1.7    | 1.7    | 1.7    |  |  |  |  |  |  |  |
| G179.0 | 1.7    | 1.7    | 1.7    |  |  |  |  |  |  |  |
| G180.0 | 1.6    | 1.7    | 1.7    |  |  |  |  |  |  |  |
|        |        |        |        |  |  |  |  |  |  |  |
|        |        |        |        |  |  |  |  |  |  |  |
|        |        |        |        |  |  |  |  |  |  |  |
|        |        |        |        |  |  |  |  |  |  |  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.655 m [K=1.0000]  
 Humidity:  
 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

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C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.655 m [K=1.0000]  
Humidity:  
Inspector: