

Report No.:

Test Time: 2021-03-03 15:38

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: LED-490-3CCT-NW-12W-5K

Voltage: 120.0 V

Current: 0.099 A

Power: 11.73 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 1043.7 lm

Measurement Flux: 1043.7 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 38.9, 39.6, 38.8, 40.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 22.1, 21.9, 21.8, 22.5

Luminaire Efficacy Rating (LER): 89.03

Central Intensity: 5109.58 cd

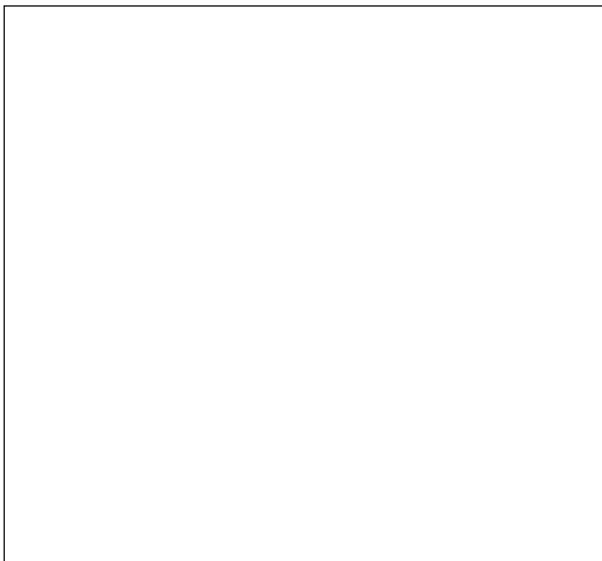
Max. Intensity: 5425.36 cd

Pos of Max. Intensity: H180 V4

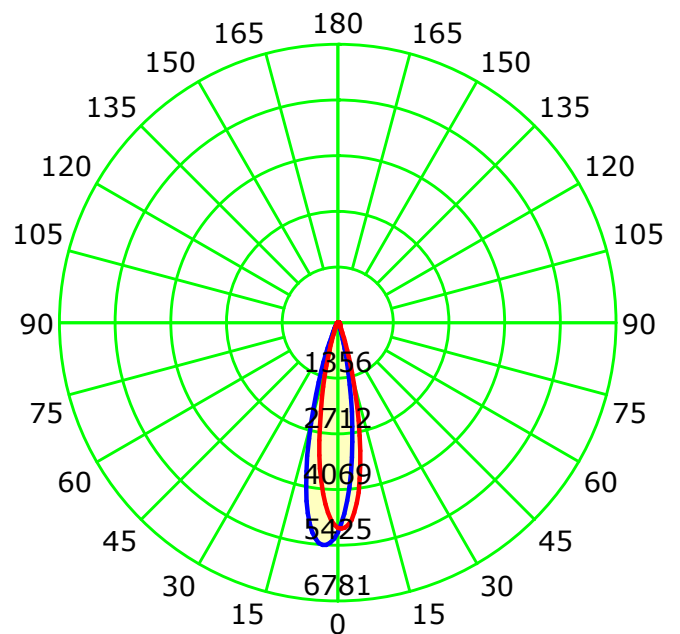
S/MH(C0/C180): 0.40

S/MH(C90/C270): 0.38

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Gamma Plane (°):0.0-90.0:1.0

Test Lab:

Test Device: GPM-1600L

Test Type: TYPE C

Distance: 6.935 m

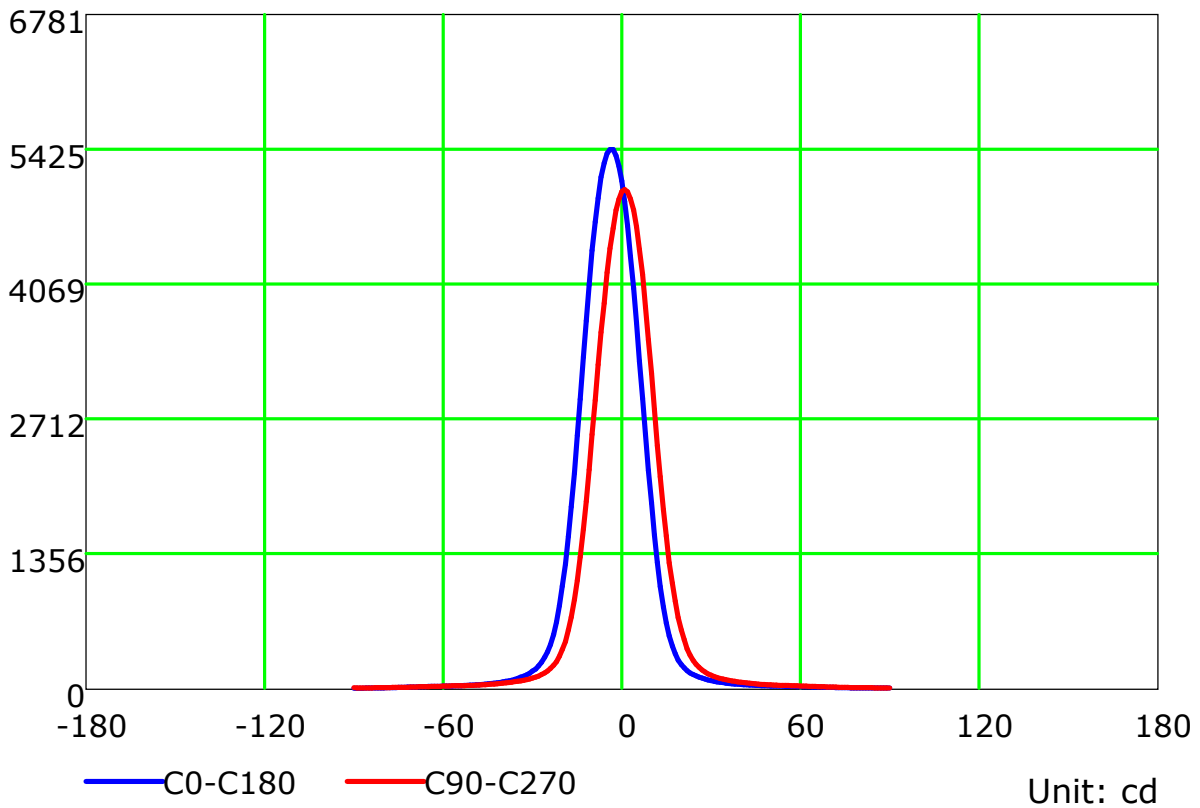
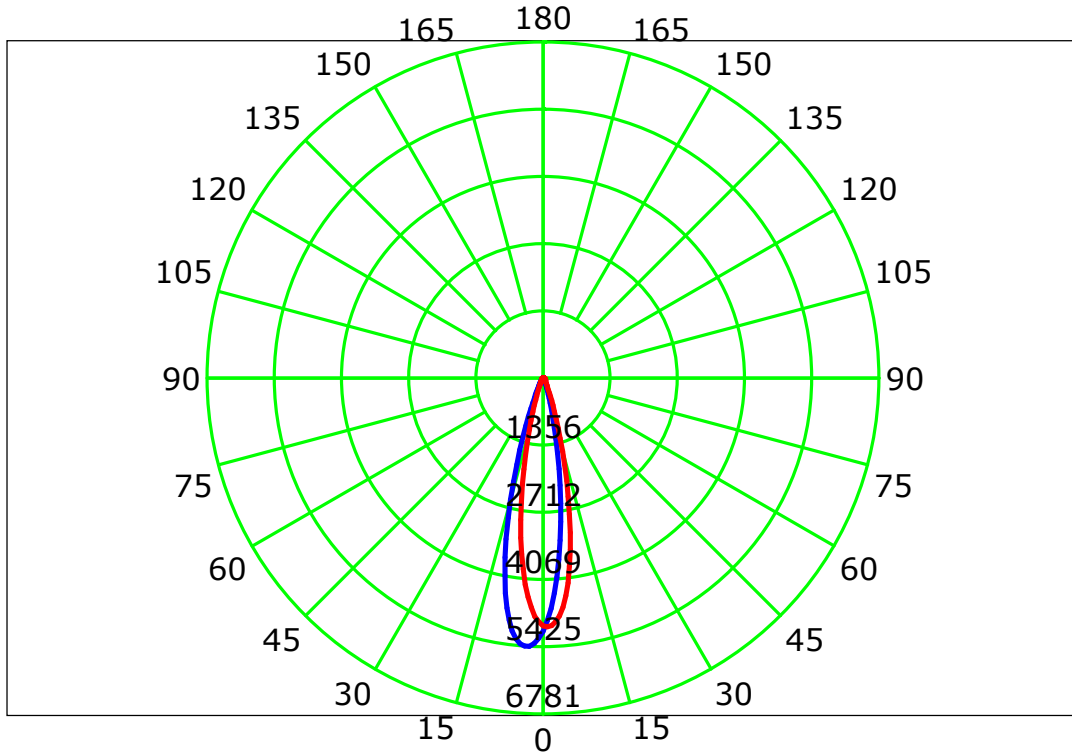
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve

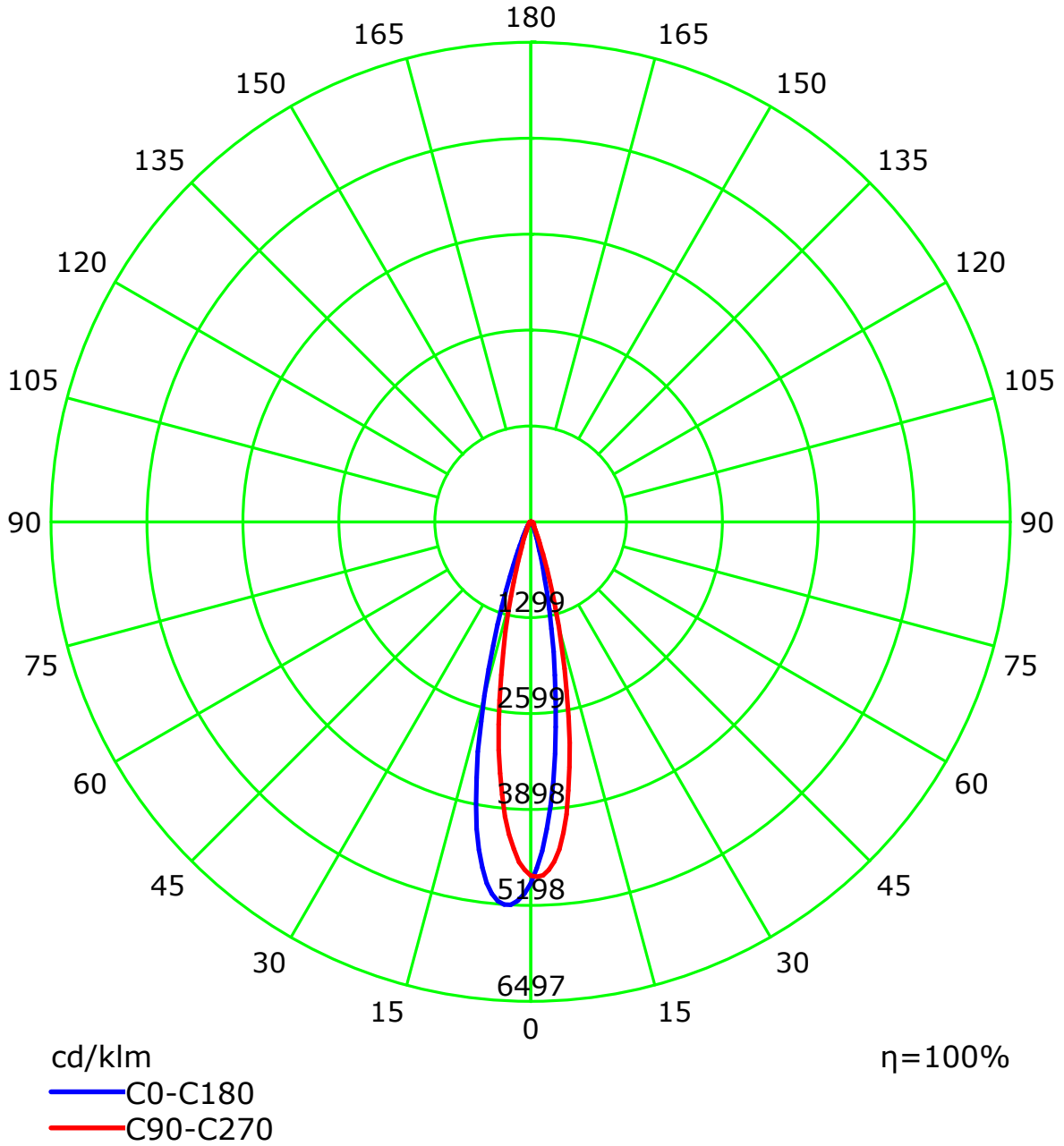


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.935 m
Humidity:
Inspector:

Unit: cd

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 m

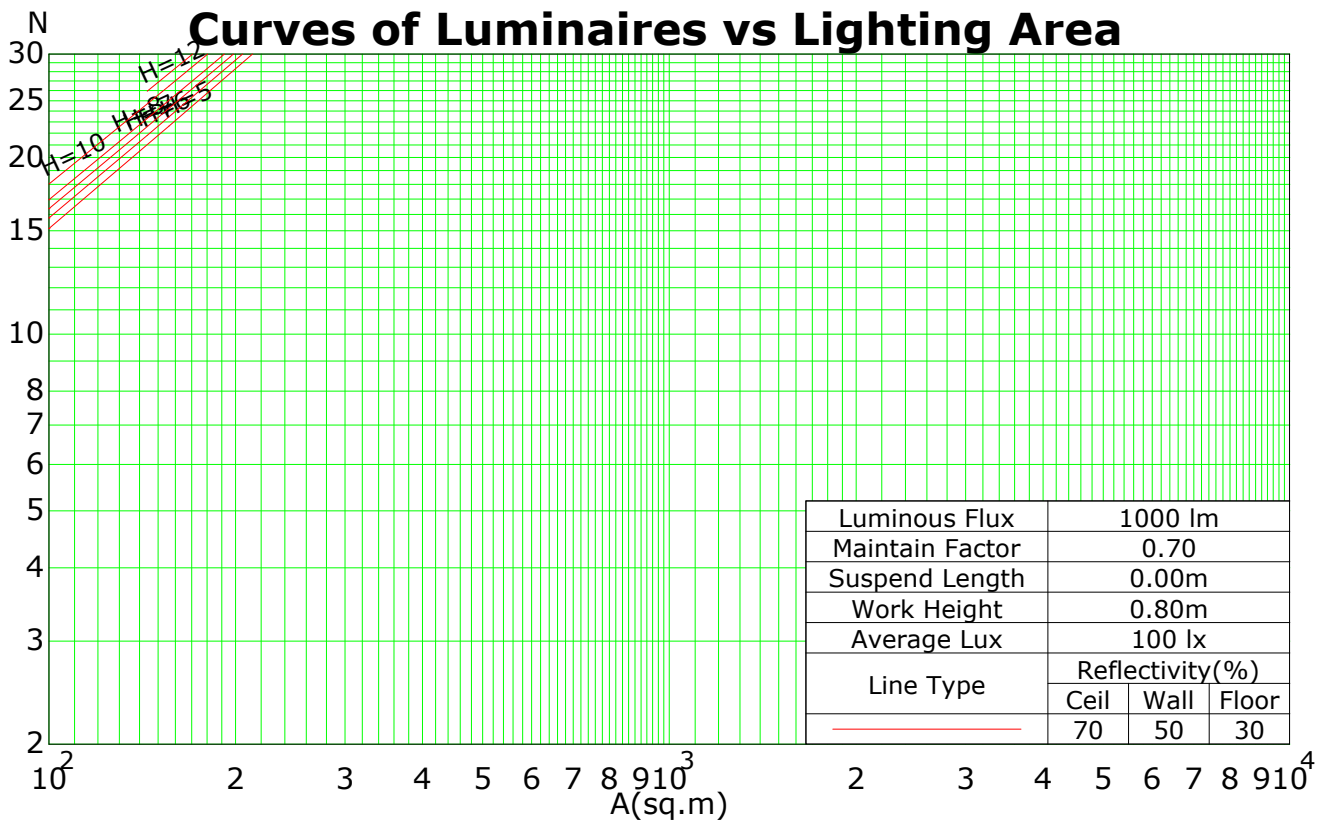
Humidity:

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 114 | 112 | 109 | 107 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 99 | 98 | 98 | 97 | 95 |
| 2 | 110 | 106 | 102 | 99 | 108 | 104 | 101 | 98 | 101 | 98 | 96 | 98 | 96 | 94 | 95 | 93 | 92 | 90 |
| 3 | 106 | 100 | 96 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 91 | 94 | 92 | 89 | 92 | 90 | 88 | 87 |
| 4 | 102 | 96 | 91 | 88 | 100 | 95 | 91 | 88 | 93 | 89 | 87 | 91 | 88 | 86 | 89 | 87 | 85 | 83 |
| 5 | 99 | 92 | 87 | 84 | 97 | 91 | 87 | 84 | 89 | 86 | 83 | 88 | 85 | 82 | 87 | 84 | 82 | 80 |
| 6 | 96 | 89 | 84 | 81 | 94 | 88 | 84 | 80 | 87 | 83 | 80 | 85 | 82 | 79 | 84 | 81 | 79 | 78 |
| 7 | 93 | 86 | 81 | 78 | 92 | 85 | 81 | 78 | 84 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 76 | 75 |
| 8 | 90 | 83 | 78 | 75 | 89 | 82 | 78 | 75 | 81 | 77 | 75 | 80 | 77 | 74 | 80 | 77 | 74 | 73 |
| 9 | 88 | 80 | 76 | 73 | 87 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 72 | 78 | 74 | 72 | 71 |
| 10 | 85 | 78 | 74 | 71 | 84 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 70 | 76 | 73 | 70 | 69 |

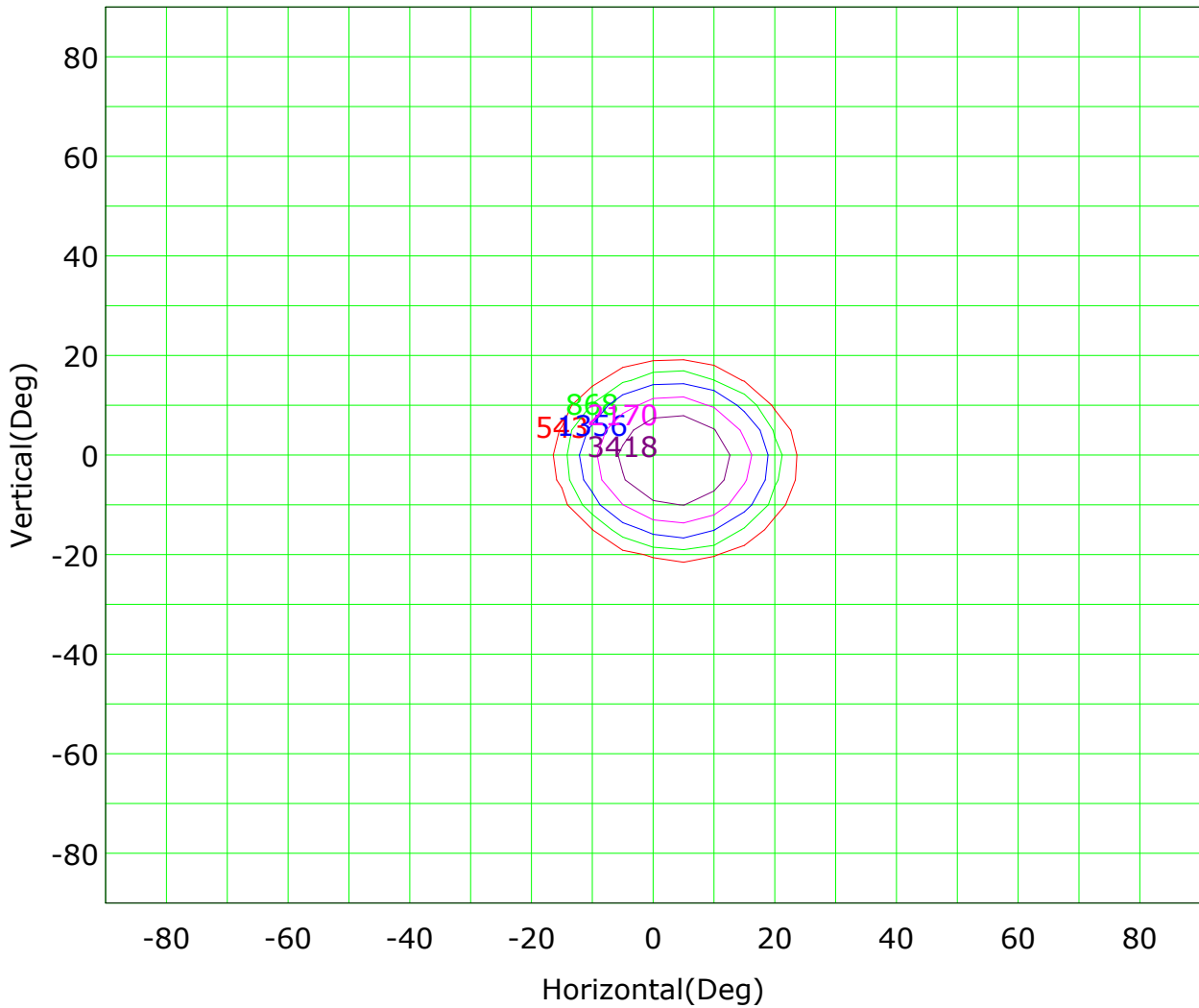
Spacing Criteria (0-180): 0.40
 Spacing Criteria (90-270): 0.38
 Spacing Criteria (Diagonal): 0.38



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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Isocandela (rectangle)



Imax (100%): 5425 cd

- | | |
|-------------------|-------------------|
| — (10%): 543 cd | — (16%): 868 cd |
| — (25%): 1356 cd | — (40%): 2170 cd |
| — (63%): 3418 cd | — (100%): 5425 cd |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

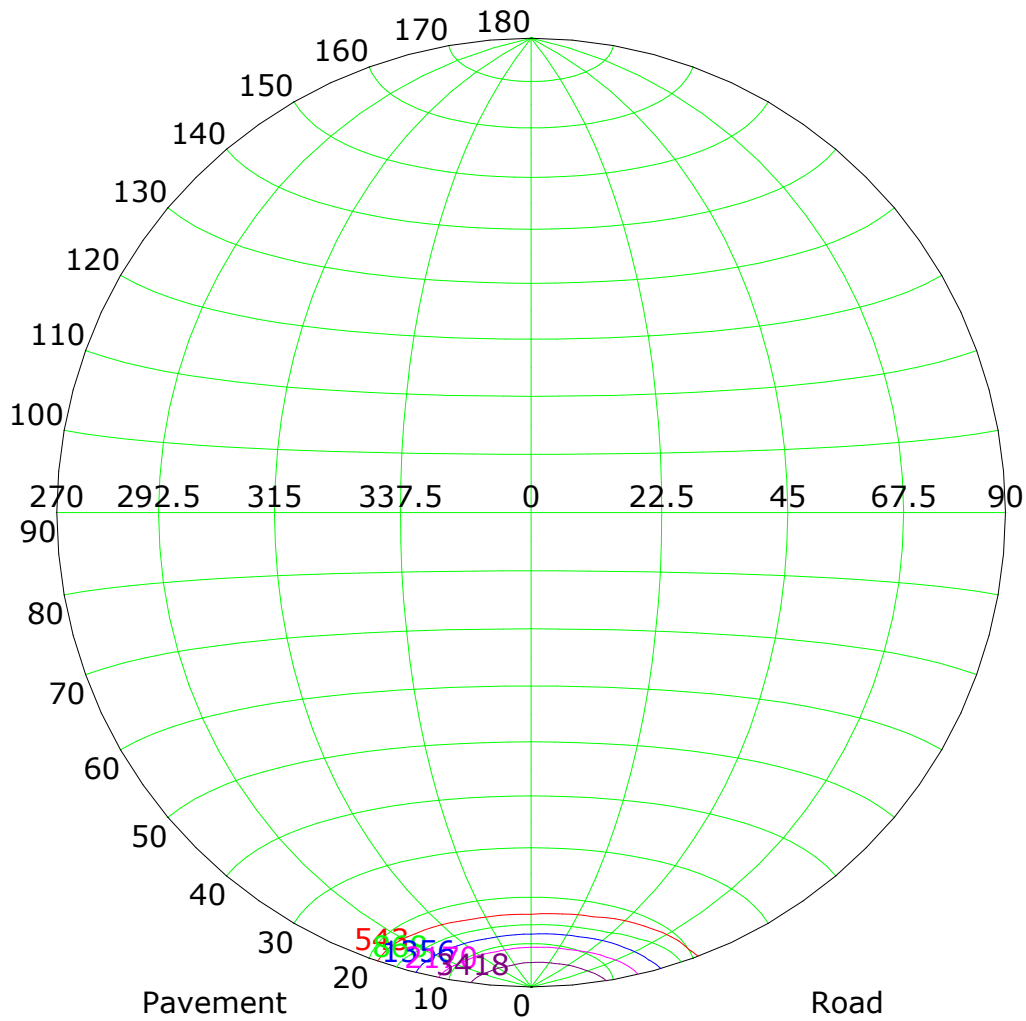
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 5425 cd

| | |
|-------------------|-------------------|
| — (10%): 543 cd | — (16%): 868 cd |
| — (25%): 1356 cd | — (40%): 2170 cd |
| — (63%): 3418 cd | — (100%): 5425 cd |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

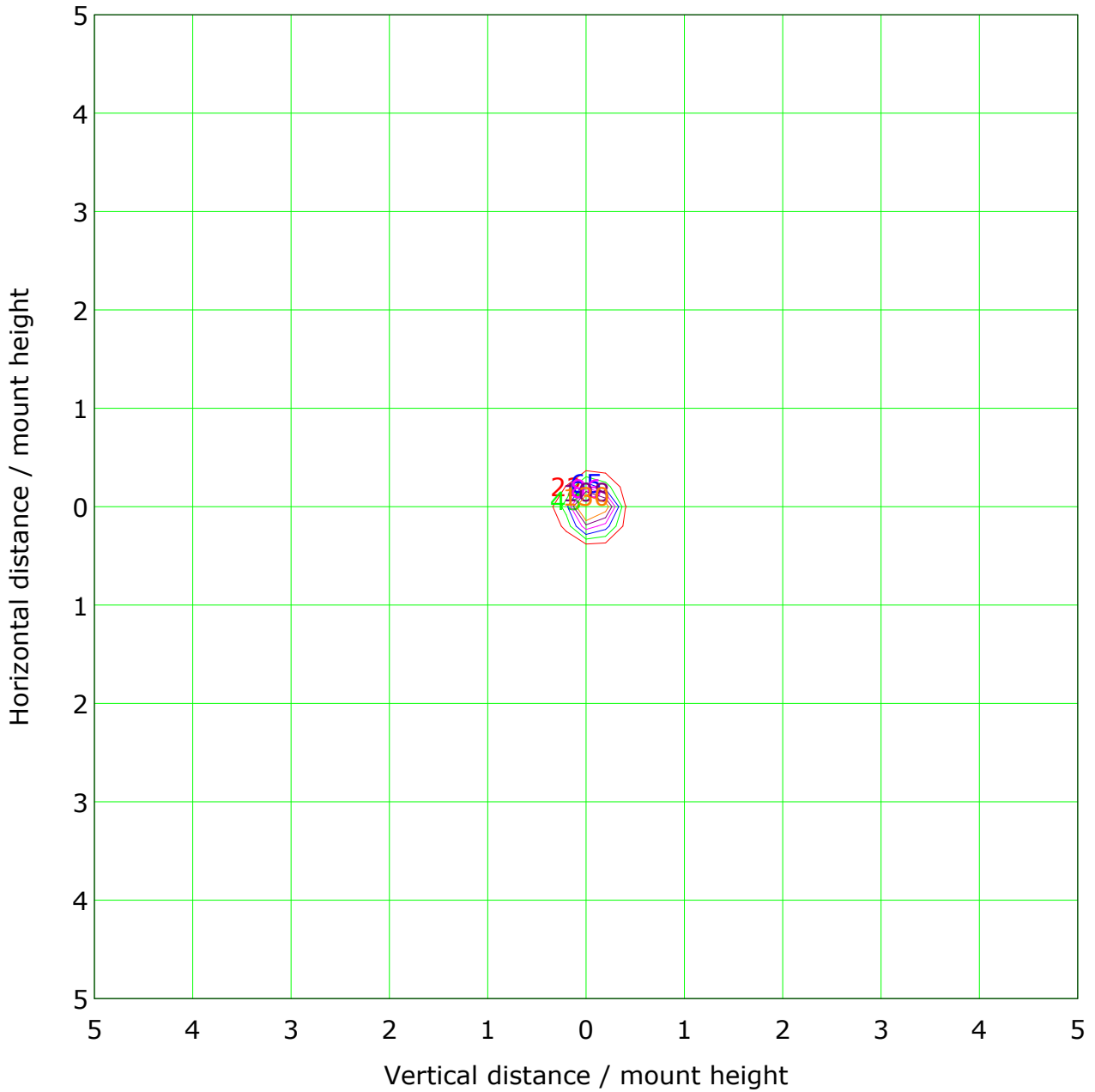
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

IsoLux Plot



| | | | |
|--|---|-------------------------|--|
| Mounting Height: 5.0m | | Max Lux(100%): 216.0 lx | |
| <ul style="list-style-type: none"> — (10%): 21.6 lx — (30%): 64.8 lx — (50%): 108.0 lx — (100%): 216.0 lx | <ul style="list-style-type: none"> — (20%): 43.2 lx — (40%): 86.4 lx — (60%): 129.6 lx | | |

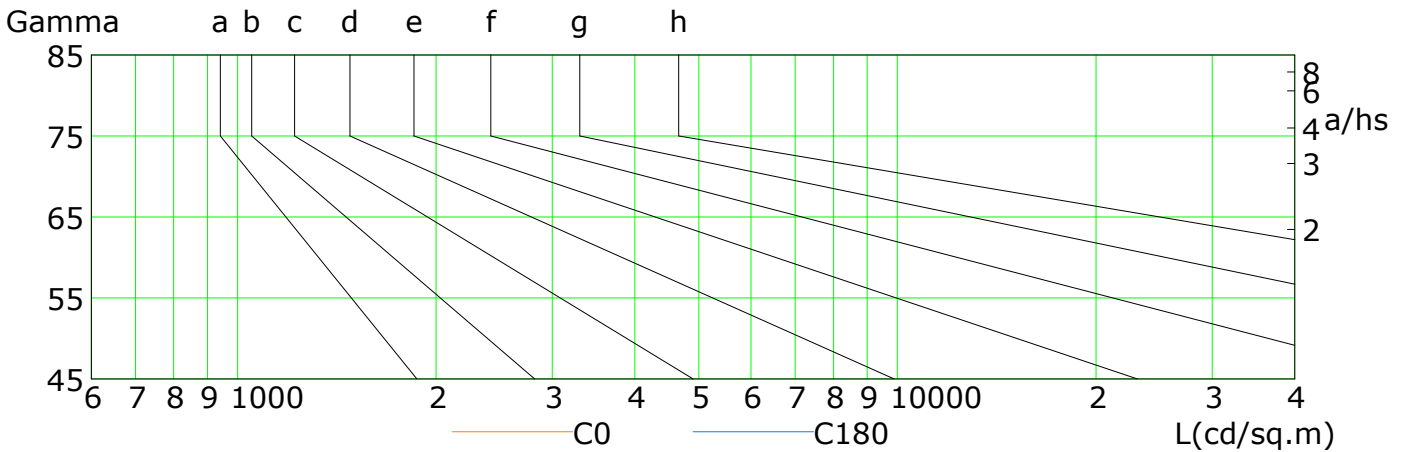
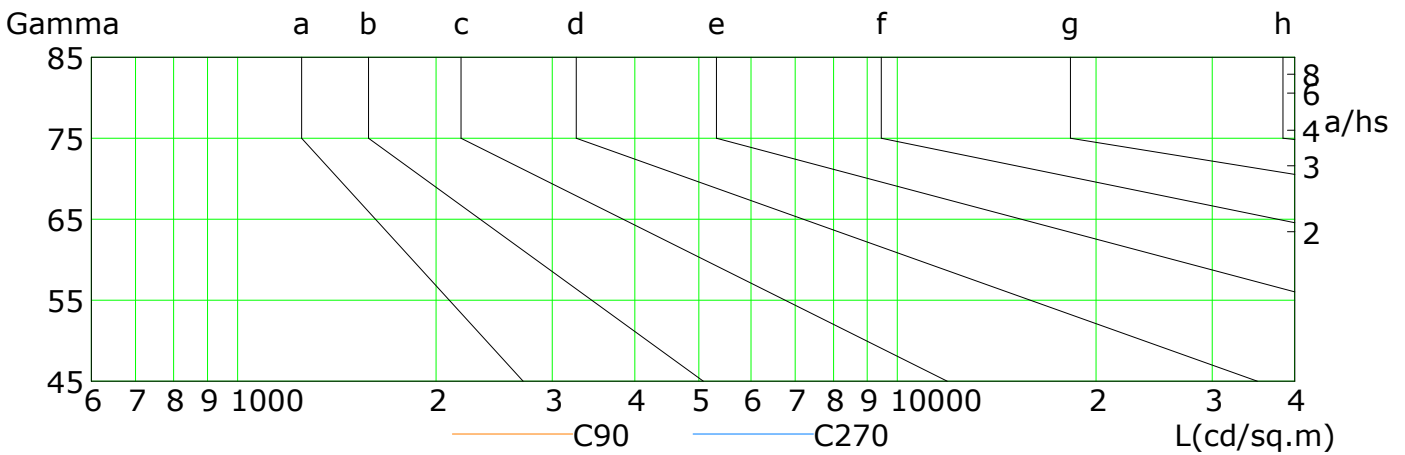
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 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 | 31 | 25 | 22 | 18 | 14 | 11 | 7 | 5 | 3 |
| C90 | 46 | 36 | 29 | 25 | 20 | 15 | 11 | 8 | 6 |
| C180 | 45 | 34 | 27 | 23 | 20 | 15 | 10 | 6 | 4 |
| C270 | 40 | 32 | 27 | 23 | 19 | 15 | 11 | 9 | 6 |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

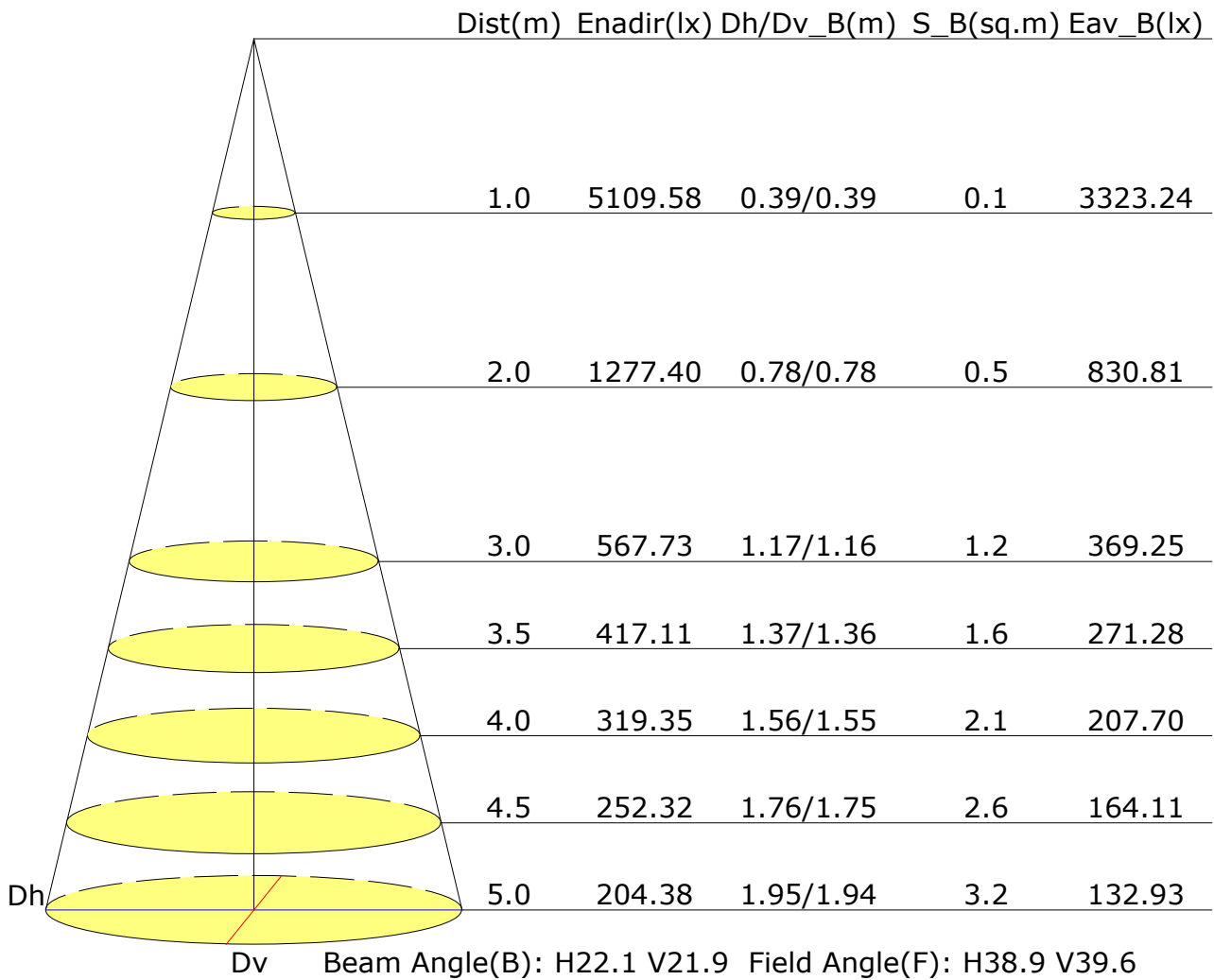
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

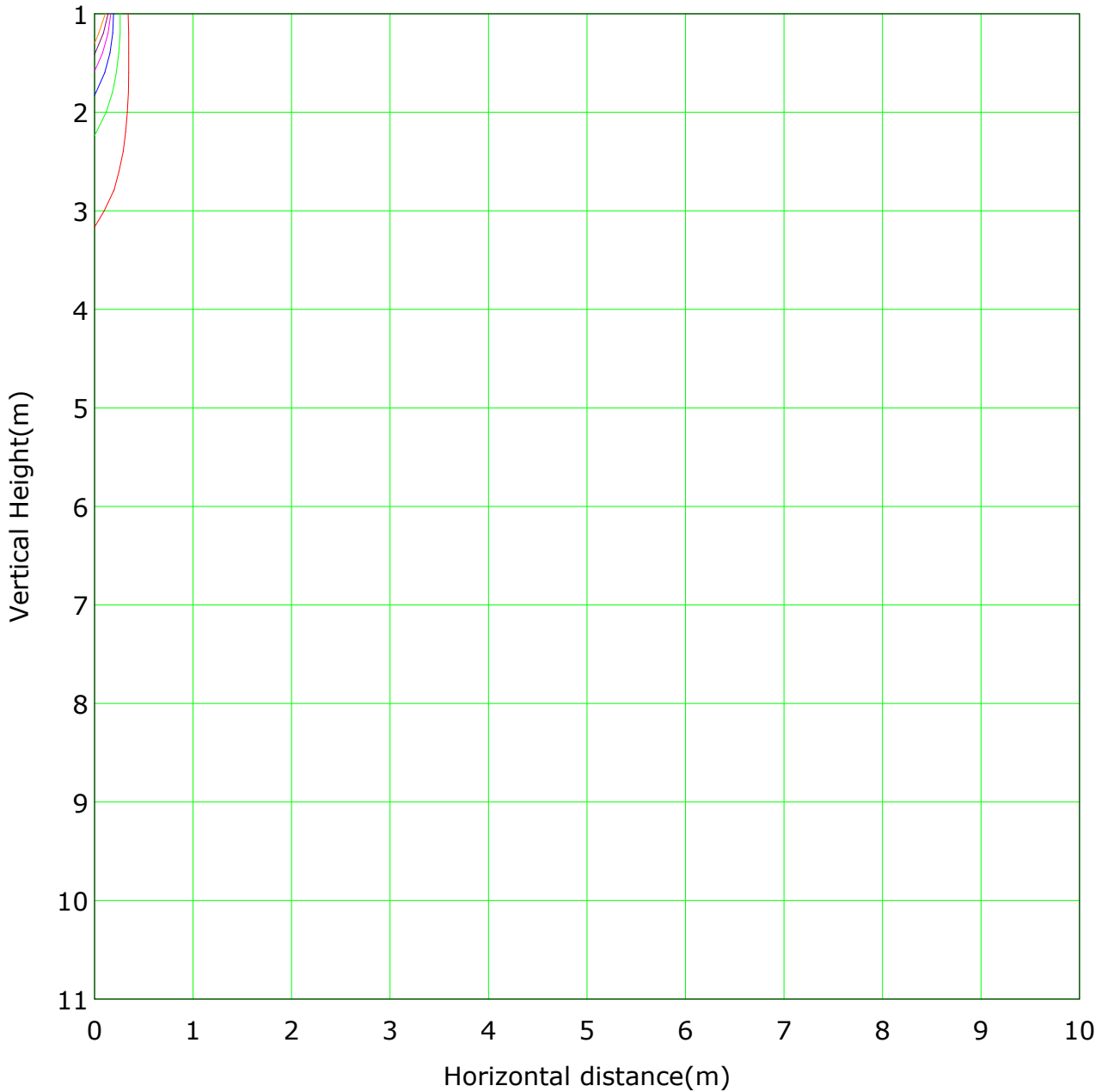
Illuminance at a Distance



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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 5109.6 lx

| | |
|--------------------|--------------------|
| — (10%): 511.0 lx | — (20%):1021.9 lx |
| — (30%):1532.9 lx | — (40%):2043.8 lx |
| — (50%):2554.8 lx | — (60%):3065.7 lx |
| — (100%):5109.6 lx | |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Area Flux Table

Unit: lm

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|---------|-----|-----|-----|-----|------|------|-------|-------|-------|-------|------|------|------|-----|-----|-----|-----|-------|-------|---------|---------|
| -90 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 2.0 | 0.0 | |
| -80 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 3.2 | 0.0 | |
| -70 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.6 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 5.1 | 0.0 | | |
| -60 | 0.0 | 0.1 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 0.8 | 0.8 | 0.8 | 0.7 | 0.6 | 0.5 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 7.1 | 0.0 | | |
| -50 | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 0.9 | 1.1 | 1.2 | 1.2 | 1.0 | 0.8 | 0.6 | 0.5 | 0.3 | 0.1 | 0.0 | 0.0 | 9.7 | 0.0 | | |
| -40 | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 1.0 | 1.4 | 1.9 | 2.2 | 2.1 | 1.6 | 1.1 | 0.8 | 0.5 | 0.3 | 0.2 | 0.1 | 0.0 | 14.6 | 0.0 | | |
| -30 | 0.0 | 0.1 | 0.2 | 0.4 | 0.8 | 1.4 | 2.5 | 4.2 | 6.0 | 5.2 | 3.1 | 1.7 | 1.0 | 0.6 | 0.4 | 0.2 | 0.1 | 0.0 | 27.7 | 0.0 | | |
| -20 | 0.0 | 0.1 | 0.2 | 0.5 | 0.9 | 2.0 | 4.9 | 17.6 | 37.0 | 26.2 | 7.8 | 2.6 | 1.2 | 0.6 | 0.4 | 0.2 | 0.1 | 0.0 | 102.2 | 69.7 | | |
| -10 | 0.0 | 0.1 | 0.3 | 0.5 | 1.0 | 2.5 | 10.0 | 58.5 | 123.7 | 86.2 | 19.2 | 3.6 | 1.4 | 0.7 | 0.4 | 0.2 | 0.1 | 0.0 | 308.3 | 286.0 | | |
| 0 | 0.0 | 0.1 | 0.3 | 0.5 | 1.0 | 2.6 | 11.4 | 67.0 | 137.4 | 94.5 | 20.6 | 3.7 | 1.4 | 0.7 | 0.4 | 0.2 | 0.1 | 0.0 | 341.8 | 319.8 | | |
| 10 | 0.0 | 0.1 | 0.3 | 0.5 | 0.9 | 2.2 | 6.7 | 26.6 | 52.8 | 34.4 | 9.0 | 2.8 | 1.3 | 0.7 | 0.4 | 0.2 | 0.1 | 0.0 | 138.8 | 110.3 | | |
| 20 | 0.0 | 0.1 | 0.2 | 0.5 | 0.8 | 1.5 | 3.2 | 6.5 | 9.2 | 6.8 | 3.5 | 1.9 | 1.0 | 0.6 | 0.4 | 0.2 | 0.1 | 0.0 | 36.5 | 1.6 | | |
| 30 | 0.0 | 0.1 | 0.2 | 0.4 | 0.7 | 1.1 | 1.8 | 2.5 | 2.9 | 2.5 | 1.9 | 1.3 | 0.8 | 0.5 | 0.3 | 0.1 | 0.0 | 0.0 | 17.2 | 0.0 | | |
| 40 | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.8 | 1.1 | 1.3 | 1.4 | 1.4 | 1.1 | 0.9 | 0.6 | 0.4 | 0.3 | 0.1 | 0.0 | 0.0 | 10.7 | 0.0 | | |
| 50 | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.6 | 0.8 | 0.9 | 0.9 | 0.9 | 0.8 | 0.7 | 0.5 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 7.6 | 0.0 | | |
| 60 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.6 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 5.3 | 0.0 | | |
| 70 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 3.2 | 0.0 | | |
| 80 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | | |
| 90 | Flux(T) | 0.2 | 1.1 | 3.1 | 5.9 | 10.0 | 18.6 | 47.2 | 191.0 | 377.8 | 264.4 | 72.4 | 23.3 | 12.5 | 7.5 | 4.5 | 2.2 | 0.8 | 0.2 | 1043 | | |
| | Flux(E) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 | 160.1 | 350.4 | 234.8 | 33.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 787 | |
| | | -90 | -80 | -70 | -60 | -50 | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | Flux(T) | Flux(E) |

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

C Plane (°):0.0-360.0: 30.0

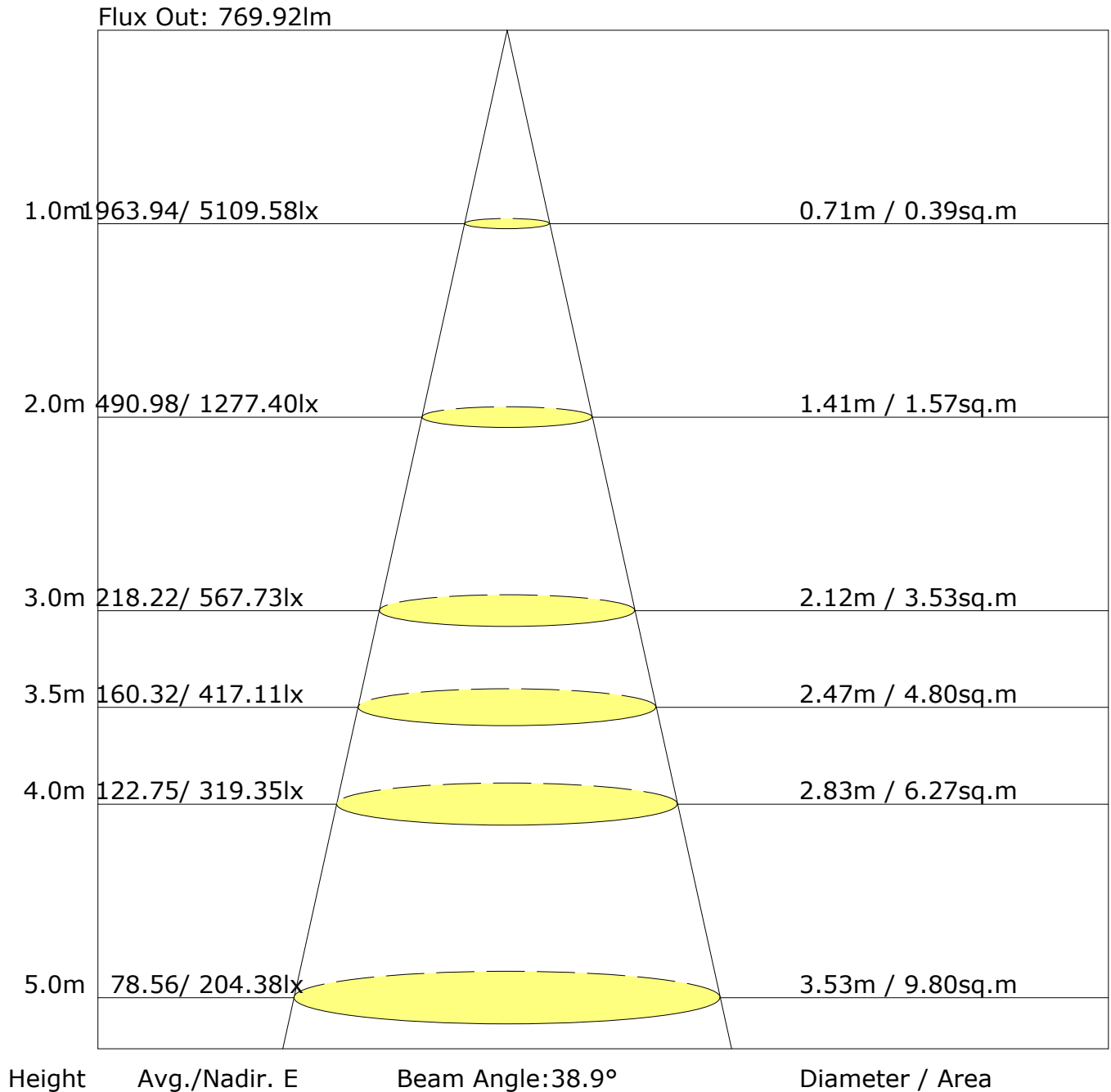
Test Lab:

Test Type: TYPE C

Temperature:

Operator:

The Average Illuminance Effective Figure



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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 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.\$ |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S=1.0H | | | | | | | | | | -1.\$/-1.\$ |
| S=1.5H | | | | | | | | | | -1.\$/-1.\$ |
| S=2.0H | | | | | | | | | | -1.\$/-1.\$ |

Calculate in accordance with CIE Pub.117. The table is revised with $1044lm (8\log(F/F_0) = 0.1)$.

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

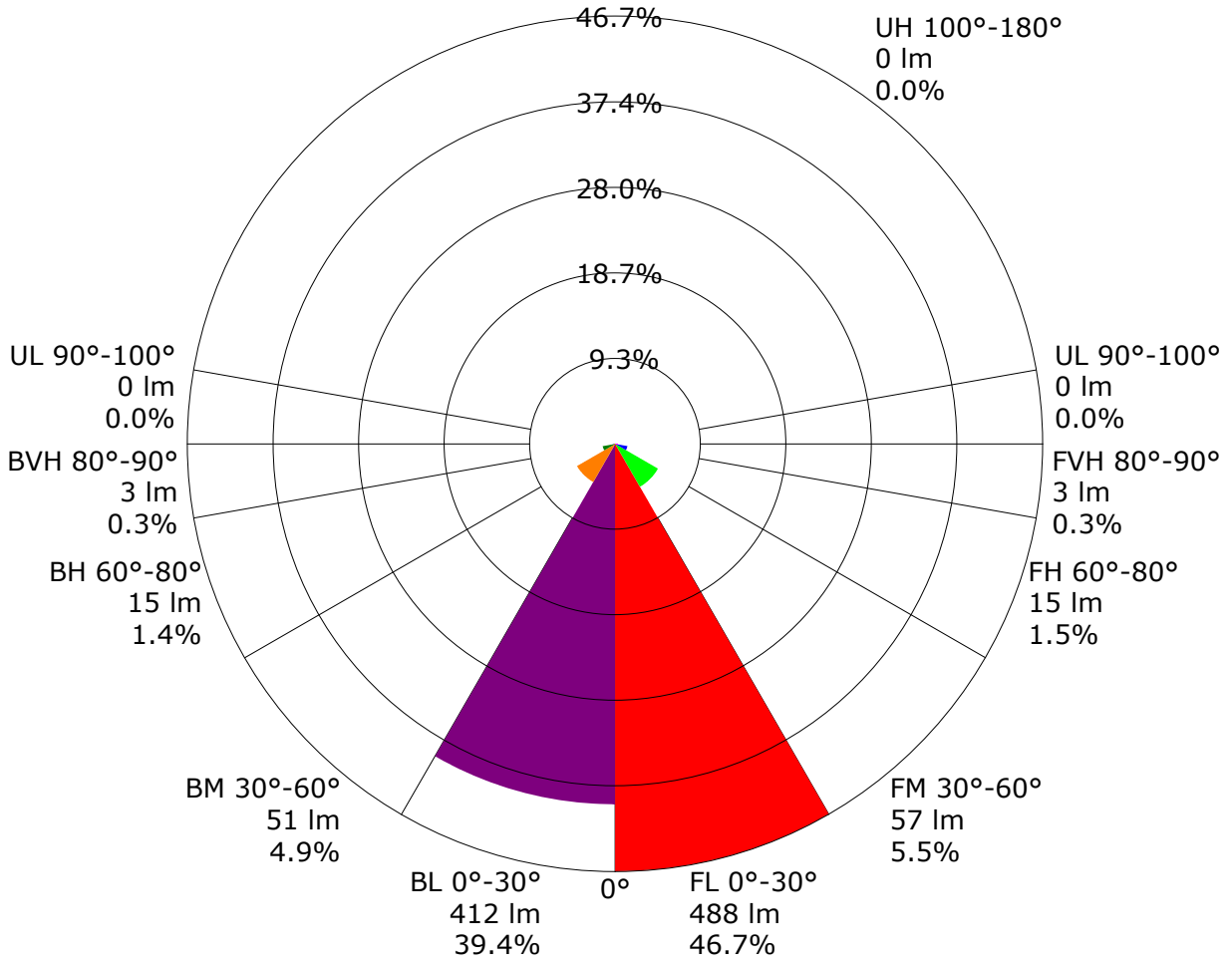
| | ZONE | LUMENS | % LAMP LUMENS |
|--|----------------|--------|---------------|
| | FORWARD LIGHT | 563 | 54.0 |
| | FL (0°-30°) | 488 | 46.7 |
| | FM (30°-60°) | 57 | 5.5 |
| | FH (60°-80°) | 15 | 1.5 |
| | FVH (80°-90°) | 3 | 0.3 |
| | BACK LIGHT | 480 | 46.0 |
| | BL (0°-30°) | 412 | 39.4 |
| | BM (30°-60°) | 51 | 4.9 |
| | BH (60°-80°) | 15 | 1.4 |
| | BVH (80°-90°) | 3 | 0.3 |
| | UP LIGHT | 0 | 0.0 |
| | UL (90°-100°) | 0 | 0.0 |
| | UH (100°-180°) | 0 | 0.0 |
| | TRAPPED LIGHT | NA | NA |

| BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07 | |
|--|----------|
| Asymmetrical Luminaire Types (Type I,II,III,IV) | B1 U0 G0 |
| Quadrilateral Symmetrical Luminaire Types (Type V,Area Light) | B1 U0 G0 |

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

LCS Graph



Back Light

Forward Light

Scale= MAX LCS%

Trapped Light:NA,NA

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

| Utilisation Factors UF(F) | | | SHR NOM = 0.50 | | | | | | | | | |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|--|
| Room Reflectance | | | Room Index(RI) | | | | | | | | | |
| Ceiling | Wall | Floor | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 | |
| 0.70 | 0.50 | 0.20 | 0.92 | 0.97 | 1.01 | 1.03 | 1.07 | 1.09 | 1.11 | 1.13 | 1.14 | |
| | 0.30 | | 0.88 | 0.93 | 0.97 | 1.00 | 1.04 | 1.06 | 1.08 | 1.11 | 1.12 | |
| | 0.20 | | 0.85 | 0.90 | 0.94 | 0.97 | 1.01 | 1.04 | 1.06 | 1.09 | 1.11 | |
| 0.50 | 0.50 | 0.20 | 0.91 | 0.96 | 0.99 | 1.01 | 1.04 | 1.06 | 1.07 | 1.09 | 1.10 | |
| | 0.30 | | 0.87 | 0.92 | 0.95 | 0.98 | 1.01 | 1.03 | 1.05 | 1.07 | 1.09 | |
| | 0.20 | | 0.85 | 0.89 | 0.93 | 0.95 | 0.99 | 1.01 | 1.03 | 1.06 | 1.07 | |
| 0.30 | 0.50 | 0.20 | 0.90 | 0.94 | 0.97 | 0.99 | 1.01 | 1.03 | 1.04 | 1.05 | 1.06 | |
| | 0.30 | | 0.87 | 0.91 | 0.94 | 0.96 | 0.99 | 1.01 | 1.02 | 1.04 | 1.05 | |
| | 0.20 | | 0.84 | 0.89 | 0.92 | 0.94 | 0.97 | 0.99 | 1.01 | 1.03 | 1.04 | |
| 0.00 | 0.00 | 0.00 | 0.83 | 0.87 | 0.90 | 0.91 | 0.94 | 0.96 | 0.97 | 0.98 | 0.99 | |
| <p>Rating:12W Photometrically tested without ceiling board. Multiply UF values by service correction factors 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 (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Utilisation Factor Table(Wall)

| Utilisation Factors UF(W) | | | SHR NOM = 0.50 | | | | | | | | | |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|--|
| Room Reflectance | | | Room Index(RI) | | | | | | | | | |
| Ceiling | Wall | Floor | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 | |
| 0.70 | 0.50 | 0.20 | 0.52 | 0.43 | 0.37 | 0.32 | 0.25 | 0.21 | 0.18 | 0.14 | 0.12 | |
| | 0.30 | | 0.43 | 0.37 | 0.32 | 0.28 | 0.23 | 0.19 | 0.17 | 0.13 | 0.11 | |
| | 0.20 | | 0.37 | 0.32 | 0.28 | 0.25 | 0.21 | 0.18 | 0.16 | 0.13 | 0.11 | |
| 0.50 | 0.50 | 0.20 | 0.49 | 0.40 | 0.34 | 0.30 | 0.23 | 0.24 | 0.17 | 0.13 | 0.11 | |
| | 0.30 | | 0.42 | 0.35 | 0.30 | 0.27 | 0.21 | 0.18 | 0.16 | 0.12 | 0.10 | |
| | 0.20 | | 0.36 | 0.31 | 0.27 | 0.24 | 0.20 | 0.17 | 0.15 | 0.12 | 0.10 | |
| 0.30 | 0.50 | 0.20 | 0.47 | 0.38 | 0.32 | 0.28 | 0.22 | 0.18 | 0.15 | 0.12 | 0.10 | |
| | 0.30 | | 0.40 | 0.33 | 0.29 | 0.25 | 0.20 | 0.17 | 0.14 | 0.11 | 0.09 | |
| | 0.20 | | 0.35 | 0.30 | 0.26 | 0.23 | 0.19 | 0.16 | 0.14 | 0.11 | 0.09 | |
| 0.00 | 0.00 | 0.00 | 0.21 | 0.17 | 0.14 | 0.12 | 0.10 | 0.08 | 0.07 | 0.05 | 0.04 | |
| <p>Rating:12W Photometrically tested without ceiling board. Multiply UF values by service correction factors 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 (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Utilisation Factor Table(Ceiling cavity)

| Utilisation Factors UF(C) | | | SHR NOM = 0.50 | | | | | | | | |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|
| Room Reflectance | | | Room Index(RI) | | | | | | | | |
| Ceiling | Wall | Floor | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70 | 0.50 | 0.20 | 0.13 | 0.14 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.21 |
| | 0.30 | | 0.09 | 0.11 | 0.13 | 0.14 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 |
| | 0.20 | | 0.06 | 0.08 | 0.10 | 0.11 | 0.14 | 0.15 | 0.16 | 0.18 | 0.19 |
| 0.50 | 0.50 | 0.20 | 0.12 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 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 | 0.10 | 0.11 | 0.13 | 0.15 | 0.16 | 0.17 | 0.18 |
| 0.30 | 0.50 | 0.20 | 0.12 | 0.13 | 0.15 | 0.15 | 0.17 | 0.18 | 0.18 | 0.19 | 0.20 |
| | 0.30 | | 0.09 | 0.10 | 0.12 | 0.13 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 |
| | 0.20 | | 0.06 | 0.08 | 0.10 | 0.11 | 0.13 | 0.14 | 0.15 | 0.17 | 0.18 |
| 0.00 | 0.00 | 0.00 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| <p>Rating:12W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p> | | | | | | | | | | | |

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Zonal Lumen

| Gamma [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 0.0-1.0 | 5009.1 | 4.8 | 4.8 | 0.46 | 0.46 |
| 1.0-2.0 | 4963.3 | 14.2 | 19.0 | 1.37 | 1.82 |
| 2.0-3.0 | 4867.4 | 23.3 | 42.3 | 2.23 | 4.06 |
| 3.0-4.0 | 4726.2 | 31.6 | 74.0 | 3.03 | 7.09 |
| 4.0-5.0 | 4548.9 | 39.1 | 113.1 | 3.75 | 10.84 |
| 5.0-6.0 | 4324.5 | 45.5 | 158.6 | 4.35 | 15.19 |
| 6.0-7.0 | 4067.1 | 50.5 | 209.0 | 4.84 | 20.03 |
| 7.0-8.0 | 3783.2 | 54.2 | 263.2 | 5.19 | 25.22 |
| 8.0-9.0 | 3471.7 | 56.3 | 319.5 | 5.39 | 30.61 |
| 9.0-10.0 | 3150.1 | 57.0 | 376.5 | 5.46 | 36.07 |
| 10.0-11.0 | 2813.7 | 56.2 | 432.7 | 5.39 | 41.46 |
| 11.0-12.0 | 2477.8 | 54.2 | 486.9 | 5.19 | 46.65 |
| 12.0-13.0 | 2165.1 | 51.4 | 538.3 | 4.92 | 51.57 |
| 13.0-14.0 | 1860.5 | 47.6 | 585.9 | 4.56 | 56.14 |
| 14.0-15.0 | 1579.1 | 43.4 | 629.3 | 4.15 | 60.29 |
| 15.0-16.0 | 1331.6 | 39.0 | 668.3 | 3.74 | 64.03 |
| 16.0-17.0 | 1108.3 | 34.5 | 702.8 | 3.31 | 67.34 |
| 17.0-18.0 | 919.4 | 30.3 | 733.1 | 2.90 | 70.24 |
| 18.0-19.0 | 756.2 | 26.3 | 759.4 | 2.52 | 72.76 |
| 19.0-20.0 | 618.7 | 22.6 | 782.1 | 2.17 | 74.93 |
| 20.0-21.0 | 511.0 | 19.6 | 801.7 | 1.88 | 76.81 |
| 21.0-22.0 | 420.7 | 16.9 | 818.6 | 1.62 | 78.43 |
| 22.0-23.0 | 347.7 | 14.6 | 833.2 | 1.40 | 79.83 |
| 23.0-24.0 | 291.4 | 12.7 | 845.9 | 1.22 | 81.05 |
| 24.0-25.0 | 247.1 | 11.2 | 857.2 | 1.08 | 82.13 |
| 25.0-26.0 | 214.1 | 10.1 | 867.3 | 0.97 | 83.10 |
| 26.0-27.0 | 186.6 | 9.1 | 876.4 | 0.87 | 83.97 |
| 27.0-28.0 | 163.7 | 8.3 | 884.7 | 0.79 | 84.76 |
| 28.0-29.0 | 145.6 | 7.6 | 892.3 | 0.73 | 85.49 |
| 29.0-30.0 | 130.3 | 7.0 | 899.4 | 0.67 | 86.17 |
| 30.0-31.0 | 117.7 | 6.6 | 905.9 | 0.63 | 86.80 |
| 31.0-32.0 | 106.8 | 6.1 | 912.0 | 0.59 | 87.38 |
| 32.0-33.0 | 97.5 | 5.7 | 917.8 | 0.55 | 87.93 |
| 33.0-34.0 | 89.8 | 5.4 | 923.2 | 0.52 | 88.45 |
| 34.0-35.0 | 82.8 | 5.1 | 928.4 | 0.49 | 88.95 |
| 35.0-36.0 | 76.6 | 4.9 | 933.2 | 0.47 | 89.41 |

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 1)

| Gamma [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 36.0-37.0 | 71.3 | 4.7 | 937.9 | 0.45 | 89.86 |
| 37.0-38.0 | 66.4 | 4.4 | 942.3 | 0.42 | 90.28 |
| 38.0-39.0 | 61.9 | 4.2 | 946.5 | 0.40 | 90.69 |
| 39.0-40.0 | 57.9 | 4.0 | 950.6 | 0.39 | 91.08 |
| 40.0-41.0 | 54.2 | 3.9 | 954.4 | 0.37 | 91.44 |
| 41.0-42.0 | 50.9 | 3.7 | 958.1 | 0.35 | 91.80 |
| 42.0-43.0 | 47.8 | 3.5 | 961.7 | 0.34 | 92.14 |
| 43.0-44.0 | 44.9 | 3.4 | 965.1 | 0.33 | 92.46 |
| 44.0-45.0 | 42.4 | 3.3 | 968.3 | 0.31 | 92.78 |
| 45.0-46.0 | 40.2 | 3.1 | 971.5 | 0.30 | 93.08 |
| 46.0-47.0 | 38.1 | 3.0 | 974.5 | 0.29 | 93.37 |
| 47.0-48.0 | 36.3 | 2.9 | 977.4 | 0.28 | 93.65 |
| 48.0-49.0 | 34.6 | 2.8 | 980.3 | 0.27 | 93.92 |
| 49.0-50.0 | 33.0 | 2.8 | 983.0 | 0.26 | 94.18 |
| 50.0-51.0 | 31.6 | 2.7 | 985.7 | 0.26 | 94.44 |
| 51.0-52.0 | 30.4 | 2.6 | 988.3 | 0.25 | 94.69 |
| 52.0-53.0 | 29.3 | 2.6 | 990.9 | 0.24 | 94.94 |
| 53.0-54.0 | 28.4 | 2.5 | 993.4 | 0.24 | 95.17 |
| 54.0-55.0 | 27.5 | 2.5 | 995.8 | 0.24 | 95.41 |
| 55.0-56.0 | 26.7 | 2.4 | 998.2 | 0.23 | 95.64 |
| 56.0-57.0 | 26.0 | 2.4 | 1000.6 | 0.23 | 95.87 |
| 57.0-58.0 | 25.2 | 2.3 | 1002.9 | 0.22 | 96.09 |
| 58.0-59.0 | 24.4 | 2.3 | 1005.2 | 0.22 | 96.31 |
| 59.0-60.0 | 23.6 | 2.2 | 1007.5 | 0.21 | 96.53 |
| 60.0-61.0 | 22.8 | 2.2 | 1009.6 | 0.21 | 96.73 |
| 61.0-62.0 | 21.9 | 2.1 | 1011.7 | 0.20 | 96.94 |
| 62.0-63.0 | 21.1 | 2.0 | 1013.8 | 0.20 | 97.13 |
| 63.0-64.0 | 20.2 | 2.0 | 1015.8 | 0.19 | 97.32 |
| 64.0-65.0 | 19.2 | 1.9 | 1017.7 | 0.18 | 97.50 |
| 65.0-66.0 | 18.4 | 1.8 | 1019.5 | 0.18 | 97.68 |
| 66.0-67.0 | 17.5 | 1.8 | 1021.3 | 0.17 | 97.85 |
| 67.0-68.0 | 16.6 | 1.7 | 1023.0 | 0.16 | 98.01 |
| 68.0-69.0 | 15.8 | 1.6 | 1024.6 | 0.15 | 98.16 |
| 69.0-70.0 | 14.9 | 1.5 | 1026.1 | 0.15 | 98.31 |
| 70.0-71.0 | 14.0 | 1.4 | 1027.5 | 0.14 | 98.45 |
| 71.0-72.0 | 13.1 | 1.4 | 1028.9 | 0.13 | 98.58 |

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 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 | 5109.6 | 5040.5 | 5021.8 | 5002.8 | 4972.3 | 4984.5 | 5109.6 | 5040.5 | 5021.8 | 5002.8 |
| G1.0 | 4899.0 | 4895.7 | 4942.0 | 5020.6 | 5086.2 | 5128.4 | 5256.7 | 5152.6 | 5039.5 | 4924.0 |
| G2.0 | 4657.7 | 4696.1 | 4838.4 | 4999.6 | 5144.5 | 5237.1 | 5361.1 | 5207.5 | 5006.9 | 4814.7 |
| G3.0 | 4346.4 | 4432.5 | 4661.5 | 4926.6 | 5167.5 | 5300.3 | 5422.6 | 5206.8 | 4923.0 | 4631.4 |
| G4.0 | 4028.1 | 4144.0 | 4456.5 | 4814.0 | 5140.1 | 5310.0 | 5425.4 | 5157.3 | 4803.8 | 4429.0 |
| G5.0 | 3679.7 | 3827.3 | 4188.3 | 4645.9 | 5076.9 | 5285.0 | 5384.6 | 5065.8 | 4632.8 | 4185.5 |
| G6.0 | 3295.3 | 3467.8 | 3870.8 | 4418.4 | 4943.0 | 5216.4 | 5287.4 | 4913.5 | 4389.2 | 3878.7 |
| G7.0 | 2922.0 | 3118.6 | 3546.8 | 4166.7 | 4771.4 | 5088.5 | 5145.2 | 4724.0 | 4141.3 | 3582.5 |
| G8.0 | 2557.6 | 2725.9 | 3214.3 | 3837.3 | 4548.4 | 4890.4 | 4935.6 | 4478.2 | 3816.7 | 3259.4 |
| G9.0 | 2197.0 | 2375.8 | 2832.3 | 3510.5 | 4271.4 | 4671.1 | 4696.0 | 4179.5 | 3506.8 | 2900.5 |
| G10.0 | 1865.9 | 2042.5 | 2486.4 | 3171.8 | 3962.2 | 4398.8 | 4410.4 | 3854.4 | 3160.1 | 2557.9 |
| G11.0 | 1541.5 | 1717.8 | 2140.9 | 2805.5 | 3597.4 | 4054.9 | 4061.8 | 3474.0 | 2787.6 | 2203.5 |
| G12.0 | 1266.5 | 1421.0 | 1822.3 | 2443.1 | 3263.1 | 3704.3 | 3698.7 | 3110.1 | 2433.3 | 1884.2 |
| G13.0 | 1027.6 | 1166.3 | 1532.1 | 2131.6 | 2911.7 | 3356.2 | 3334.7 | 2737.4 | 2088.3 | 1603.3 |
| G14.0 | 818.5 | 936.3 | 1261.6 | 1798.3 | 2539.0 | 2954.2 | 2911.4 | 2353.2 | 1761.8 | 1322.3 |
| G15.0 | 659.4 | 754.5 | 1035.0 | 1533.7 | 2202.3 | 2607.1 | 2545.8 | 2014.6 | 1489.0 | 1086.8 |
| G16.0 | 529.9 | 601.1 | 852.0 | 1264.3 | 1883.6 | 2217.5 | 2165.2 | 1715.3 | 1213.2 | 895.5 |
| G17.0 | 425.8 | 488.1 | 679.9 | 1058.8 | 1581.4 | 1899.1 | 1826.8 | 1407.0 | 1004.2 | 715.8 |
| G18.0 | 349.8 | 402.1 | 556.4 | 876.3 | 1329.2 | 1594.3 | 1527.6 | 1168.1 | 817.1 | 586.9 |
| G19.0 | 286.0 | 326.8 | 449.8 | 712.3 | 1089.8 | 1314.2 | 1250.7 | 933.6 | 653.2 | 471.3 |
| G20.0 | 240.5 | 272.3 | 375.4 | 587.8 | 906.5 | 1075.3 | 1028.5 | 756.3 | 523.9 | 390.6 |
| G21.0 | 208.1 | 230.9 | 311.4 | 490.9 | 757.3 | 891.2 | 833.0 | 611.1 | 427.4 | 325.2 |
| G22.0 | 177.8 | 197.9 | 259.7 | 398.7 | 616.7 | 724.3 | 666.9 | 476.8 | 347.0 | 270.3 |
| G23.0 | 157.6 | 173.9 | 222.3 | 336.4 | 513.3 | 593.3 | 543.5 | 389.3 | 288.5 | 233.0 |
| G24.0 | 140.8 | 153.3 | 194.6 | 280.6 | 425.4 | 481.2 | 439.9 | 318.7 | 242.0 | 200.0 |
| G25.0 | 126.7 | 137.9 | 170.7 | 243.5 | 359.5 | 405.2 | 367.6 | 267.9 | 209.9 | 175.4 |
| G26.0 | 113.8 | 125.3 | 152.7 | 212.7 | 307.8 | 345.4 | 313.0 | 232.9 | 184.0 | 155.5 |
| G27.0 | 103.1 | 113.4 | 135.8 | 186.3 | 260.8 | 292.5 | 262.3 | 200.4 | 160.7 | 138.6 |
| G28.0 | 93.8 | 104.9 | 123.9 | 166.4 | 225.5 | 252.0 | 227.3 | 176.1 | 144.5 | 125.2 |
| G29.0 | 86.0 | 96.8 | 113.1 | 147.3 | 198.5 | 217.7 | 196.3 | 157.6 | 127.7 | 114.3 |
| G30.0 | 79.2 | 89.1 | 104.0 | 133.1 | 174.5 | 191.2 | 174.8 | 141.1 | 115.9 | 104.1 |
| G31.0 | 73.2 | 82.9 | 95.6 | 121.2 | 155.8 | 168.1 | 154.2 | 128.3 | 106.2 | 96.3 |
| G32.0 | 67.3 | 77.6 | 88.5 | 110.5 | 138.4 | 148.9 | 137.1 | 116.3 | 97.1 | 89.0 |
| G33.0 | 62.3 | 72.3 | 82.2 | 101.9 | 126.2 | 133.6 | 124.3 | 106.6 | 89.8 | 82.8 |
| G34.0 | 58.3 | 68.1 | 76.9 | 95.0 | 115.6 | 120.3 | 113.0 | 98.2 | 83.1 | 76.7 |
| G35.0 | 54.3 | 62.5 | 71.4 | 88.2 | 105.9 | 108.1 | 101.5 | 89.8 | 76.4 | 72.0 |
| G36.0 | 50.8 | 59.7 | 67.6 | 82.6 | 98.1 | 97.9 | 92.6 | 83.9 | 71.1 | 67.8 |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 m

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 | 48.3 | 55.5 | 63.9 | 77.2 | 91.0 | 89.4 | 83.5 | 78.4 | 67.6 | 63.9 |
| G38.0 | 44.9 | 52.6 | 60.1 | 71.4 | 84.7 | 82.2 | 77.2 | 72.2 | 62.6 | 59.7 |
| G39.0 | 42.1 | 49.3 | 56.3 | 67.5 | 79.4 | 75.4 | 71.0 | 67.6 | 59.1 | 55.8 |
| G40.0 | 40.2 | 46.1 | 52.4 | 62.6 | 73.8 | 68.9 | 65.7 | 63.8 | 55.5 | 52.6 |
| G41.0 | 37.8 | 43.5 | 50.1 | 58.6 | 68.3 | 64.5 | 60.4 | 59.8 | 52.4 | 50.1 |
| G42.0 | 35.8 | 41.1 | 47.6 | 55.5 | 64.1 | 60.2 | 56.0 | 56.0 | 49.8 | 47.0 |
| G43.0 | 33.7 | 38.4 | 44.3 | 51.7 | 59.5 | 55.7 | 52.1 | 52.9 | 47.3 | 44.3 |
| G44.0 | 32.5 | 36.2 | 42.0 | 48.6 | 55.1 | 52.3 | 48.5 | 49.8 | 44.8 | 42.4 |
| G45.0 | 30.8 | 34.0 | 39.9 | 45.5 | 52.4 | 48.5 | 45.2 | 47.0 | 42.6 | 40.1 |
| G46.0 | 29.9 | 32.7 | 38.0 | 43.2 | 48.6 | 46.1 | 43.2 | 43.7 | 40.2 | 38.0 |
| G47.0 | 28.4 | 31.4 | 36.2 | 41.1 | 46.0 | 43.6 | 40.7 | 41.7 | 38.2 | 35.9 |
| G48.0 | 27.4 | 30.8 | 34.9 | 38.9 | 43.0 | 41.5 | 37.6 | 39.2 | 36.2 | 34.6 |
| G49.0 | 26.5 | 28.9 | 33.6 | 37.4 | 40.8 | 39.5 | 35.5 | 37.6 | 34.3 | 32.7 |
| G50.0 | 25.5 | 27.5 | 31.8 | 35.5 | 38.2 | 38.2 | 33.9 | 35.6 | 33.3 | 31.5 |
| G51.0 | 24.6 | 27.0 | 30.5 | 33.4 | 36.1 | 36.5 | 32.3 | 33.1 | 32.0 | 30.6 |
| G52.0 | 24.3 | 26.2 | 29.2 | 32.4 | 35.0 | 34.3 | 30.8 | 32.1 | 30.8 | 29.2 |
| G53.0 | 23.9 | 24.7 | 28.6 | 31.4 | 33.1 | 33.0 | 29.6 | 31.1 | 29.5 | 28.6 |
| G54.0 | 23.3 | 24.3 | 27.5 | 30.0 | 32.3 | 32.4 | 28.3 | 29.8 | 28.3 | 27.7 |
| G55.0 | 22.4 | 23.4 | 27.3 | 29.5 | 31.4 | 31.4 | 27.3 | 28.6 | 27.5 | 27.0 |
| G56.0 | 21.4 | 22.7 | 26.8 | 29.0 | 30.2 | 30.6 | 26.5 | 27.5 | 26.5 | 25.9 |
| G57.0 | 20.8 | 22.4 | 25.5 | 28.1 | 29.0 | 30.3 | 25.8 | 26.7 | 26.5 | 25.9 |
| G58.0 | 20.2 | 21.5 | 24.5 | 27.0 | 28.7 | 29.3 | 24.7 | 25.8 | 25.6 | 24.6 |
| G59.0 | 19.3 | 20.3 | 23.9 | 25.9 | 27.5 | 28.9 | 23.9 | 25.6 | 25.0 | 24.3 |
| G60.0 | 18.4 | 20.0 | 23.1 | 24.7 | 26.7 | 28.1 | 23.4 | 24.7 | 24.3 | 23.0 |
| G61.0 | 17.8 | 19.0 | 22.2 | 24.0 | 25.9 | 26.8 | 22.5 | 23.6 | 23.3 | 22.5 |
| G62.0 | 16.6 | 18.0 | 21.1 | 23.0 | 24.6 | 25.8 | 21.8 | 22.8 | 22.7 | 21.1 |
| G63.0 | 16.4 | 16.9 | 20.6 | 22.4 | 23.6 | 25.3 | 21.4 | 22.4 | 22.1 | 20.8 |
| G64.0 | 15.2 | 16.4 | 19.4 | 21.2 | 22.5 | 23.7 | 20.5 | 21.4 | 20.9 | 19.4 |
| G65.0 | 13.8 | 15.5 | 18.3 | 20.3 | 21.6 | 23.3 | 19.9 | 20.9 | 19.9 | 18.9 |
| G66.0 | 13.6 | 14.4 | 16.9 | 19.1 | 21.1 | 22.1 | 19.0 | 19.6 | 18.9 | 18.6 |
| G67.0 | 13.1 | 13.8 | 15.6 | 18.0 | 19.6 | 20.8 | 17.7 | 19.3 | 18.7 | 17.4 |
| G68.0 | 11.9 | 13.3 | 15.8 | 17.2 | 18.3 | 20.0 | 16.9 | 18.0 | 17.7 | 16.5 |
| G69.0 | 11.1 | 11.6 | 14.6 | 15.8 | 17.7 | 19.4 | 16.0 | 17.5 | 16.5 | 15.9 |
| G70.0 | 10.6 | 11.2 | 13.7 | 15.2 | 16.8 | 18.3 | 14.9 | 16.5 | 15.6 | 14.9 |
| G71.0 | 9.9 | 10.8 | 12.8 | 14.1 | 15.5 | 16.9 | 13.7 | 15.5 | 15.2 | 14.0 |
| G72.0 | 8.7 | 9.7 | 12.5 | 13.6 | 14.6 | 15.9 | 13.0 | 14.7 | 14.1 | 12.7 |
| G73.0 | 8.3 | 9.1 | 11.6 | 12.4 | 13.7 | 15.6 | 12.5 | 14.1 | 13.3 | 12.5 |

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Candlepower Table (Continue 3)

Unit: cd

| | | | | | | | | | |
|-------|--------|--------|--------|--|--|--|--|--|--|
| G\C | C300.0 | C330.0 | C360.0 | | | | | | |
| G0.0 | 4972.3 | 4984.5 | 5109.6 | | | | | | |
| G1.0 | 4828.1 | 4783.3 | 4899.0 | | | | | | |
| G2.0 | 4640.2 | 4559.2 | 4657.7 | | | | | | |
| G3.0 | 4387.4 | 4249.4 | 4346.4 | | | | | | |
| G4.0 | 4111.7 | 3954.1 | 4028.1 | | | | | | |
| G5.0 | 3819.2 | 3608.6 | 3679.7 | | | | | | |
| G6.0 | 3465.6 | 3241.7 | 3295.3 | | | | | | |
| G7.0 | 3132.9 | 2882.9 | 2922.0 | | | | | | |
| G8.0 | 2762.6 | 2547.4 | 2557.6 | | | | | | |
| G9.0 | 2421.5 | 2185.6 | 2197.0 | | | | | | |
| G10.0 | 2087.6 | 1855.6 | 1865.9 | | | | | | |
| G11.0 | 1762.3 | 1528.8 | 1541.5 | | | | | | |
| G12.0 | 1472.8 | 1272.4 | 1266.5 | | | | | | |
| G13.0 | 1231.7 | 1050.3 | 1027.6 | | | | | | |
| G14.0 | 990.9 | 832.3 | 818.5 | | | | | | |
| G15.0 | 812.4 | 676.8 | 659.4 | | | | | | |
| G16.0 | 651.6 | 551.1 | 529.9 | | | | | | |
| G17.0 | 532.1 | 438.8 | 425.8 | | | | | | |
| G18.0 | 440.5 | 359.1 | 349.8 | | | | | | |
| G19.0 | 358.9 | 294.9 | 286.0 | | | | | | |
| G20.0 | 300.0 | 250.2 | 240.5 | | | | | | |
| G21.0 | 254.1 | 215.3 | 208.1 | | | | | | |
| G22.0 | 217.5 | 186.6 | 177.8 | | | | | | |
| G23.0 | 190.0 | 164.8 | 157.6 | | | | | | |
| G24.0 | 165.4 | 146.4 | 140.8 | | | | | | |
| G25.0 | 147.7 | 130.9 | 126.7 | | | | | | |
| G26.0 | 134.0 | 119.2 | 113.8 | | | | | | |
| G27.0 | 120.5 | 107.7 | 103.1 | | | | | | |
| G28.0 | 110.0 | 97.9 | 93.8 | | | | | | |
| G29.0 | 100.4 | 90.6 | 86.0 | | | | | | |
| G30.0 | 92.6 | 82.2 | 79.2 | | | | | | |
| G31.0 | 85.1 | 76.0 | 73.2 | | | | | | |
| G32.0 | 79.1 | 69.8 | 67.3 | | | | | | |
| G33.0 | 73.5 | 65.4 | 62.3 | | | | | | |
| G34.0 | 69.1 | 60.8 | 58.3 | | | | | | |
| G35.0 | 63.9 | 57.2 | 54.3 | | | | | | |
| G36.0 | 60.4 | 53.6 | 50.8 | | | | | | |

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Candlepower Table (Continue 4)

Unit: cd

| G\C | C300.0 | C330.0 | C360.0 | | | | | | |
|-------|--------|--------|--------|--|--|--|--|--|--|
| G37.0 | 55.8 | 50.5 | 48.3 | | | | | | |
| G38.0 | 52.3 | 47.7 | 44.9 | | | | | | |
| G39.0 | 49.5 | 45.1 | 42.1 | | | | | | |
| G40.0 | 46.5 | 42.3 | 40.2 | | | | | | |
| G41.0 | 43.6 | 40.2 | 37.8 | | | | | | |
| G42.0 | 41.2 | 38.2 | 35.8 | | | | | | |
| G43.0 | 38.9 | 36.1 | 33.7 | | | | | | |
| G44.0 | 36.8 | 34.6 | 32.5 | | | | | | |
| G45.0 | 35.2 | 33.0 | 30.8 | | | | | | |
| G46.0 | 34.2 | 32.0 | 29.9 | | | | | | |
| G47.0 | 32.0 | 30.8 | 28.4 | | | | | | |
| G48.0 | 31.1 | 29.6 | 27.4 | | | | | | |
| G49.0 | 29.8 | 28.6 | 26.5 | | | | | | |
| G50.0 | 29.3 | 27.8 | 25.5 | | | | | | |
| G51.0 | 27.7 | 27.4 | 24.6 | | | | | | |
| G52.0 | 26.8 | 26.8 | 24.3 | | | | | | |
| G53.0 | 26.1 | 26.5 | 23.9 | | | | | | |
| G54.0 | 25.8 | 25.2 | 23.3 | | | | | | |
| G55.0 | 25.0 | 24.9 | 22.4 | | | | | | |
| G56.0 | 24.5 | 24.3 | 21.4 | | | | | | |
| G57.0 | 23.6 | 23.1 | 20.8 | | | | | | |
| G58.0 | 23.0 | 22.7 | 20.2 | | | | | | |
| G59.0 | 21.8 | 22.0 | 19.3 | | | | | | |
| G60.0 | 20.8 | 20.9 | 18.4 | | | | | | |
| G61.0 | 20.2 | 20.5 | 17.8 | | | | | | |
| G62.0 | 19.7 | 19.4 | 16.6 | | | | | | |
| G63.0 | 18.7 | 18.7 | 16.4 | | | | | | |
| G64.0 | 18.0 | 17.4 | 15.2 | | | | | | |
| G65.0 | 17.2 | 16.4 | 13.8 | | | | | | |
| G66.0 | 16.2 | 15.9 | 13.6 | | | | | | |
| G67.0 | 15.2 | 15.0 | 13.1 | | | | | | |
| G68.0 | 14.7 | 14.4 | 11.9 | | | | | | |
| G69.0 | 13.8 | 14.0 | 11.1 | | | | | | |
| G70.0 | 13.1 | 13.1 | 10.6 | | | | | | |
| G71.0 | 11.6 | 11.9 | 9.9 | | | | | | |
| G72.0 | 11.3 | 11.5 | 8.7 | | | | | | |
| G73.0 | 11.1 | 11.1 | 8.3 | | | | | | |

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

