

Report No.:

Test Time: 2023/2/21 10:06

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: 大炮

Lamp Catalog: RGBW

Luminous Width (mm): 70

Voltage: 219.3 V

Power: 32.04 W

Luminaire Description: 25

Luminous Length (mm): 270

Luminous Height (mm): 20

Current: 0.157 A

Power Factor: 0.930

Photometric Results

CIE Class: Direct

Measurement Flux: 1416.9 lm

Downward Ratio: 92%

Horizontal Diffuse Angle(10%,50%): H62.1,H26.6

Vertical Diffuse Angle(10%,50%): V61.1,V26.3

Luminaire Efficacy Rating (LER): 44

Max. Intensity: 3362.68 cd

Total Rated Lamp Lumens: 1416.9 lm

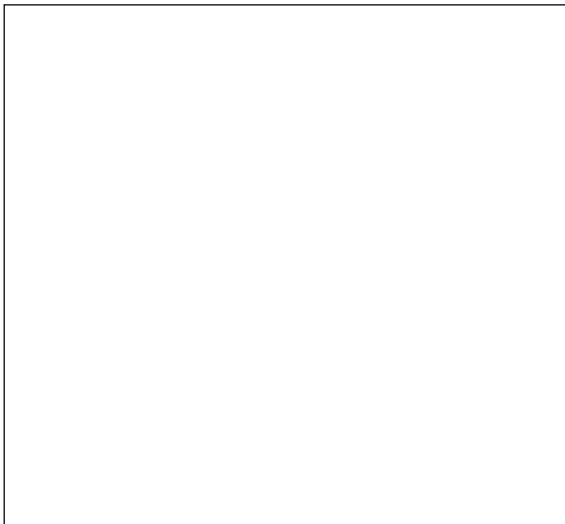
Efficiency: 100%

Upward Ratio: 8%

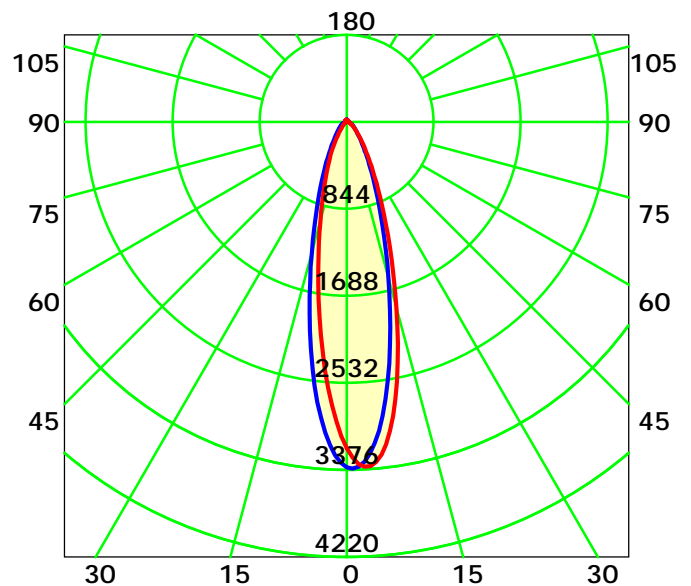
Central Intensity: 3349.56 cd

Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 26.5° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0

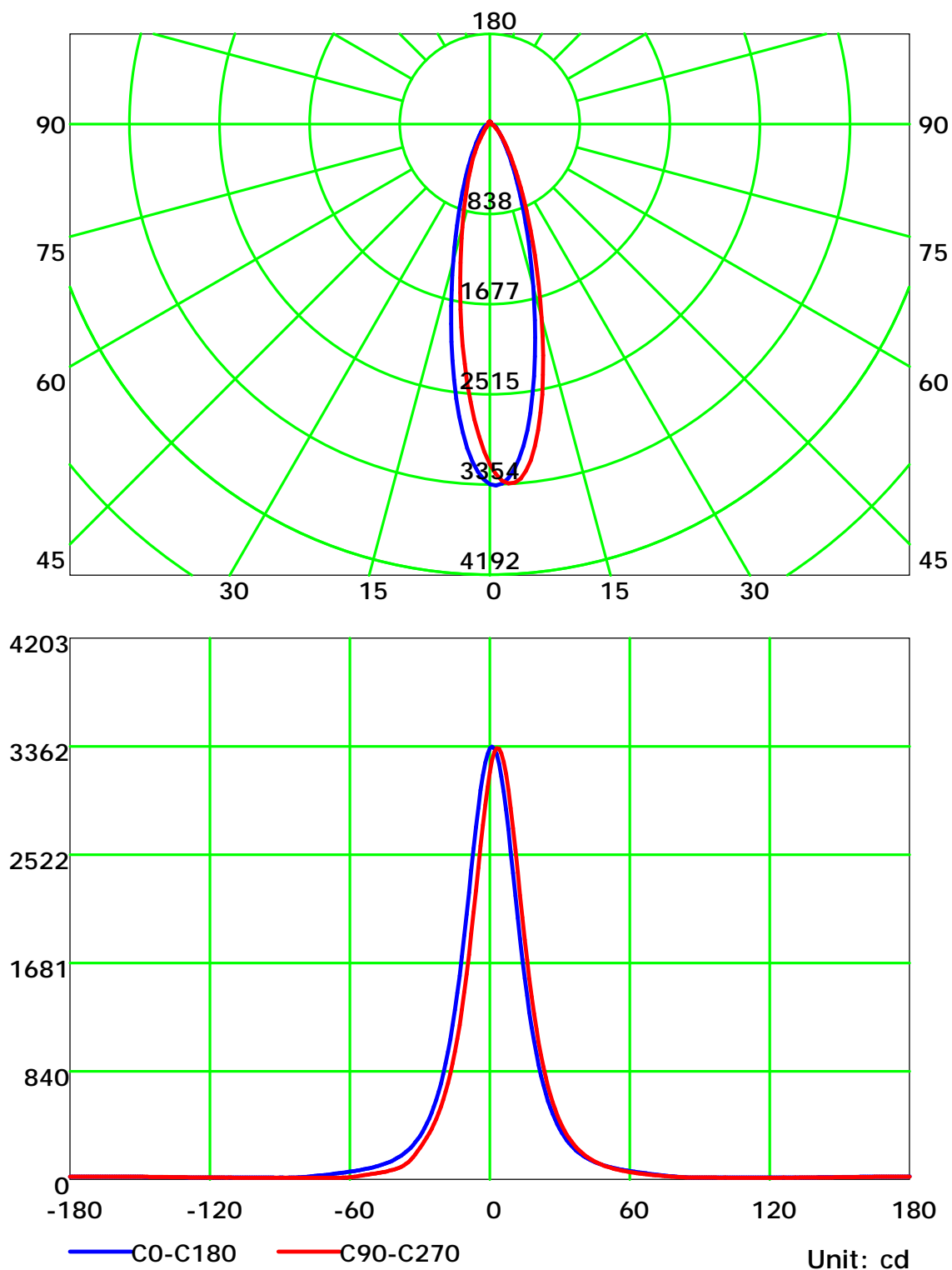
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

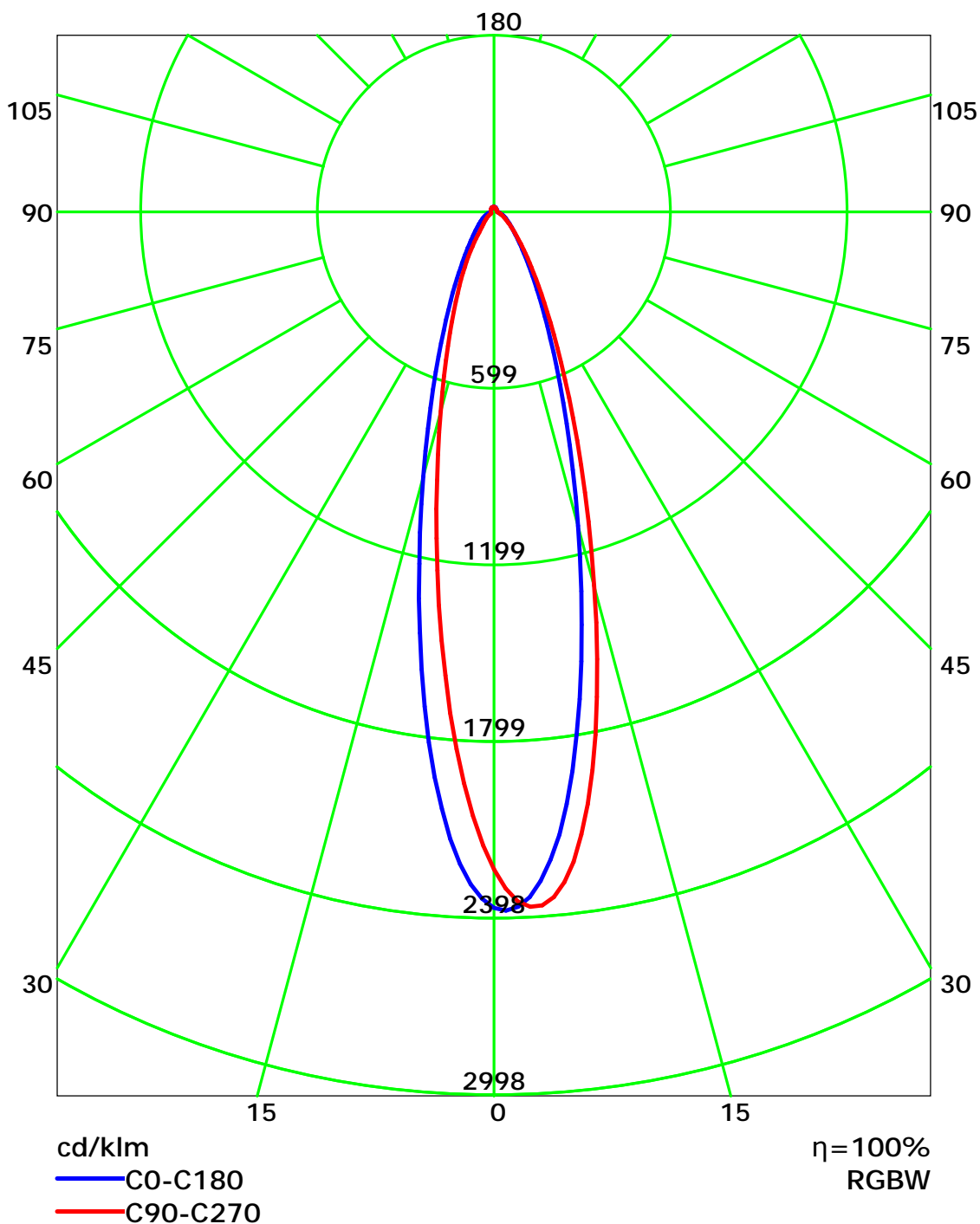
Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

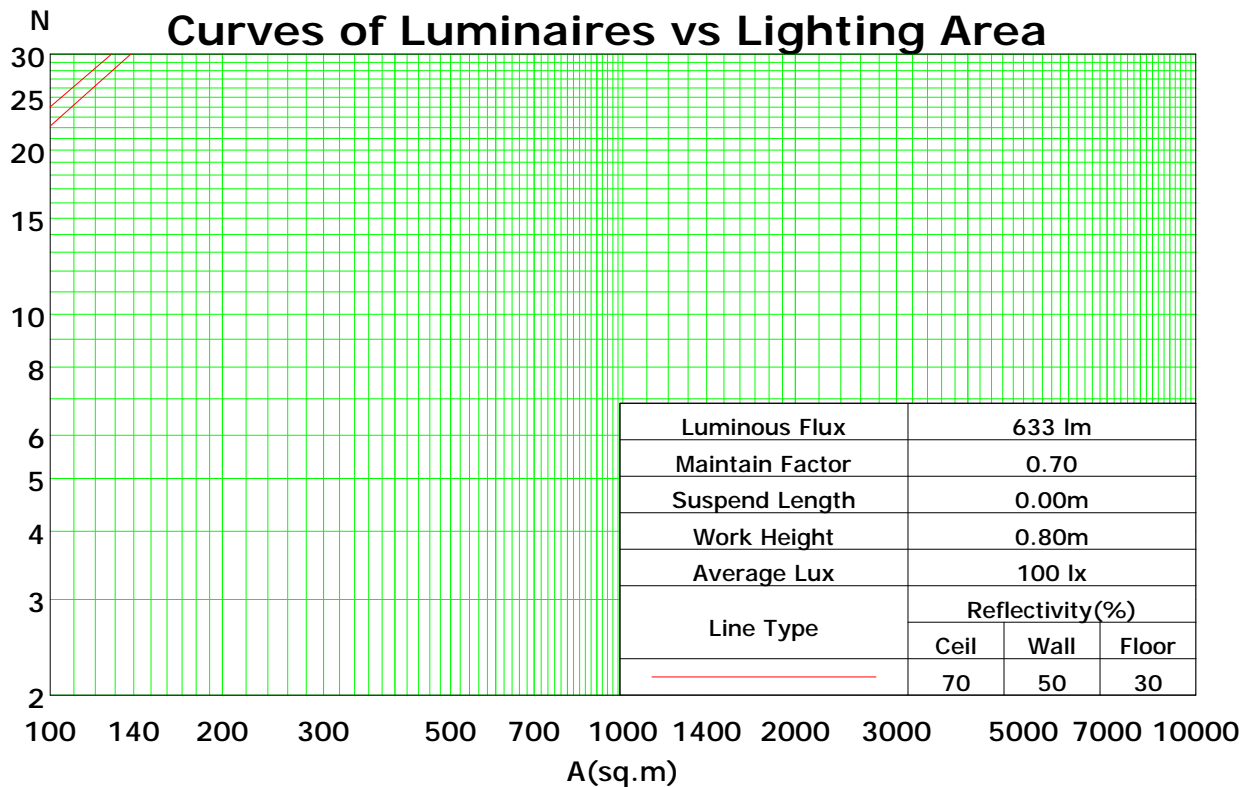
Coefficients Of Utilization - Zonal Cavity Method

| | | | | | | | | | | | | | | | | | | |
|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 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 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 100 | 100 | 100 | 95 | 95 | 95 | 92 |
| 1 | 110 | 107 | 104 | 102 | 107 | 104 | 102 | 99 | 99 | 97 | 95 | 94 | 92 | 90 | 89 | 88 | 86 | 84 |
| 2 | 104 | 99 | 94 | 91 | 101 | 96 | 92 | 89 | 92 | 89 | 86 | 88 | 85 | 83 | 84 | 82 | 80 | 78 |
| 3 | 99 | 92 | 86 | 82 | 96 | 90 | 85 | 81 | 86 | 82 | 78 | 82 | 79 | 76 | 79 | 76 | 74 | 72 |
| 4 | 94 | 86 | 80 | 75 | 91 | 84 | 79 | 74 | 81 | 76 | 73 | 78 | 74 | 71 | 75 | 72 | 69 | 67 |
| 5 | 89 | 80 | 74 | 70 | 87 | 79 | 73 | 69 | 76 | 71 | 68 | 74 | 70 | 66 | 71 | 68 | 65 | 63 |
| 6 | 85 | 76 | 70 | 65 | 83 | 74 | 69 | 65 | 72 | 67 | 64 | 70 | 66 | 62 | 68 | 64 | 61 | 60 |
| 7 | 81 | 72 | 65 | 61 | 79 | 70 | 65 | 61 | 68 | 64 | 60 | 67 | 62 | 59 | 65 | 61 | 58 | 57 |
| 8 | 77 | 68 | 62 | 58 | 76 | 67 | 61 | 57 | 65 | 60 | 57 | 64 | 59 | 56 | 62 | 58 | 55 | 54 |
| 9 | 74 | 65 | 59 | 55 | 73 | 64 | 58 | 55 | 62 | 57 | 54 | 61 | 57 | 53 | 59 | 56 | 53 | 51 |
| 10 | 71 | 62 | 56 | 52 | 70 | 61 | 56 | 52 | 60 | 55 | 51 | 58 | 54 | 51 | 57 | 53 | 50 | 49 |

Spacing Criteria (0-180): 0.44

Spacing Criteria (90-270): 0.46

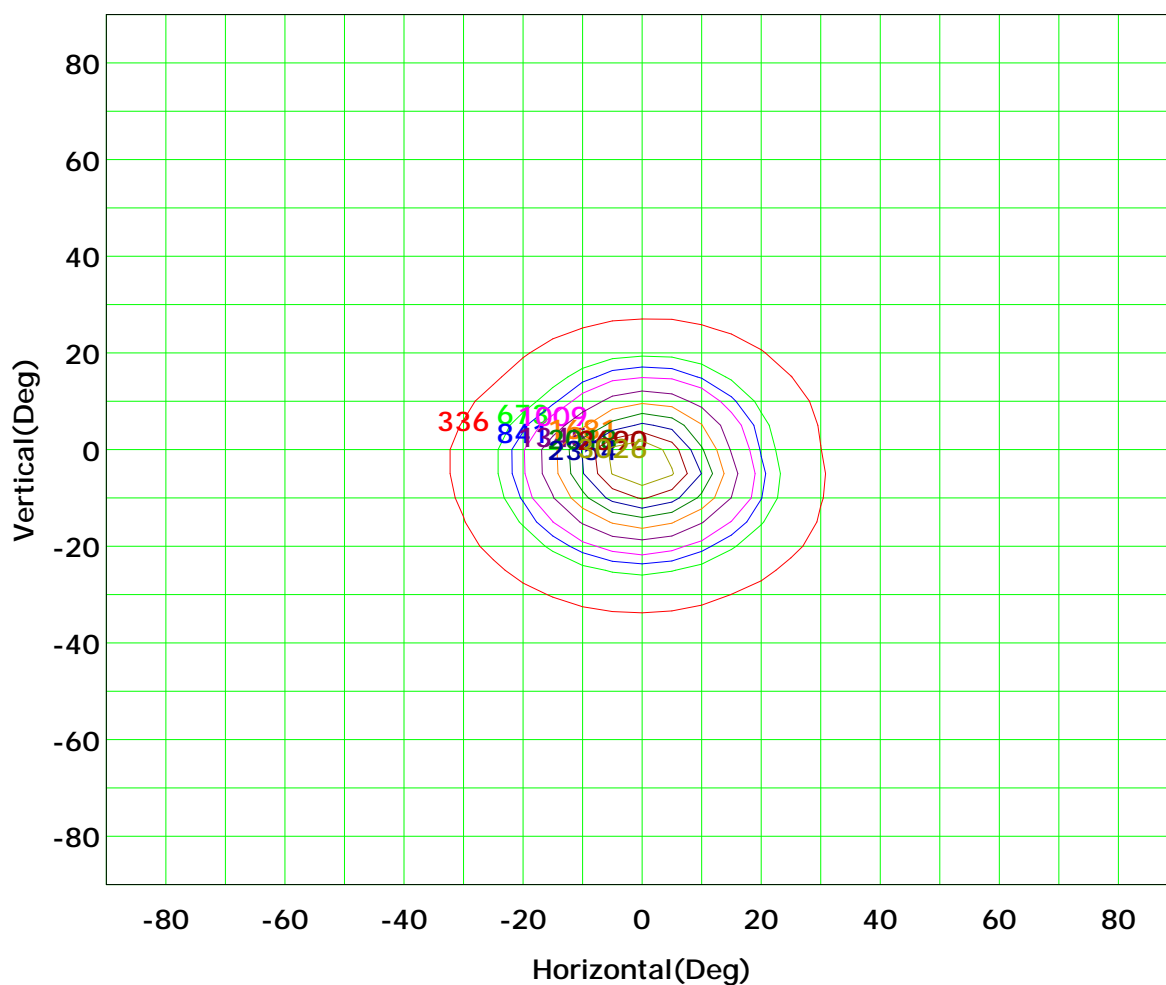
Spacing Criteria (Diagonal): 0.48



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Isocandela (rectangle)



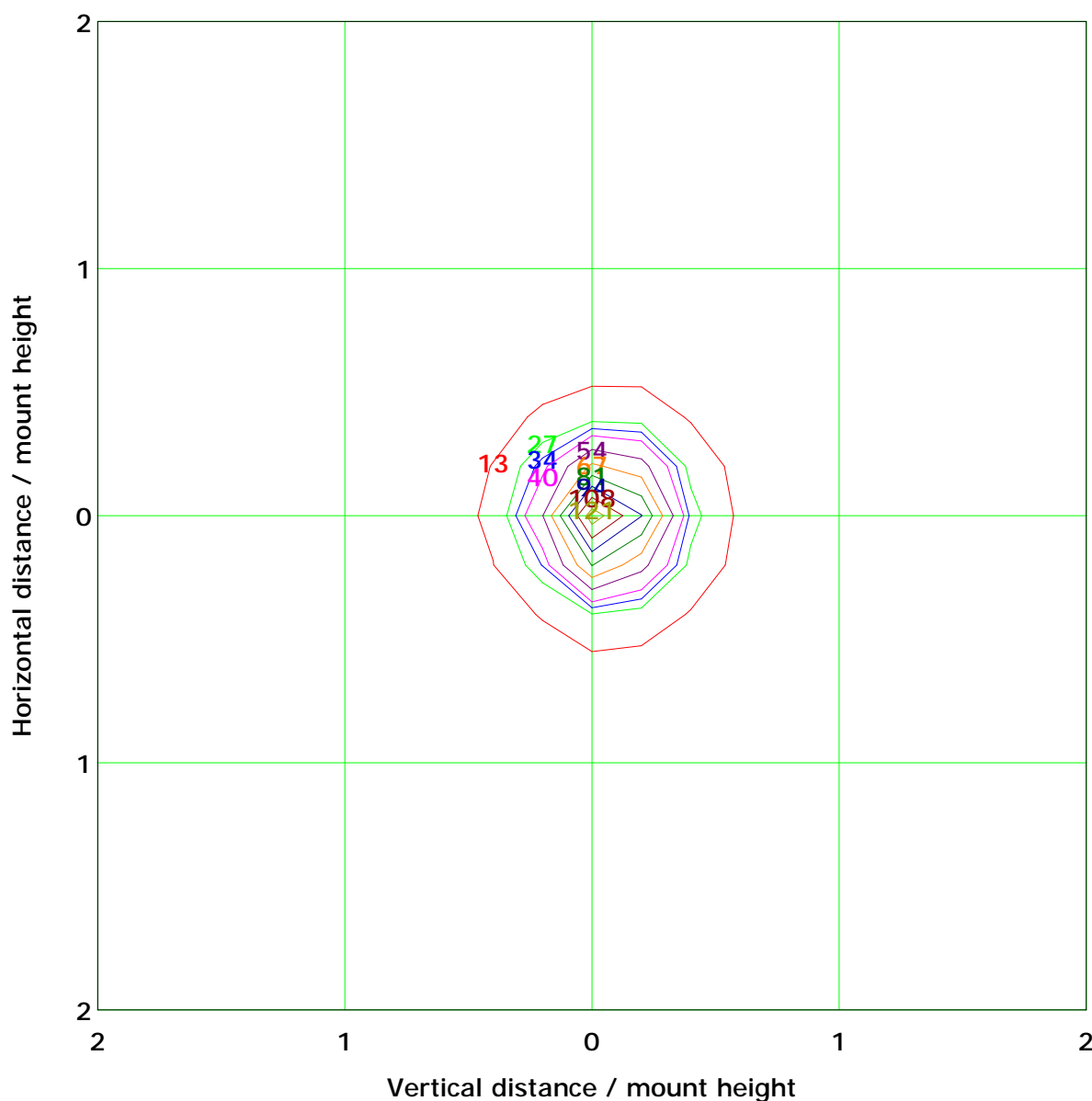
I_{max} (100%): 3363 cd

| | |
|-----------------|-----------------|
| (10%): 336 cd | (20%): 673 cd |
| (25%): 841 cd | (30%): 1009 cd |
| (40%): 1345 cd | (50%): 1681 cd |
| (60%): 2018 cd | (70%): 2354 cd |
| (80%): 2690 cd | (90%): 3026 cd |

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

IsoLux Plot



| | |
|--|------------------|
| Mounting Height: 5.0m Max Lux(100%): 134.4 lx | |
| (10%): 13.4 lx | (20%): 26.9 lx |
| (25%): 33.6 lx | (30%): 40.3 lx |
| (40%): 53.8 lx | (50%): 67.2 lx |
| (60%): 80.7 lx | (70%): 94.1 lx |
| (80%): 107.6 lx | (90%): 121.0 lx |

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

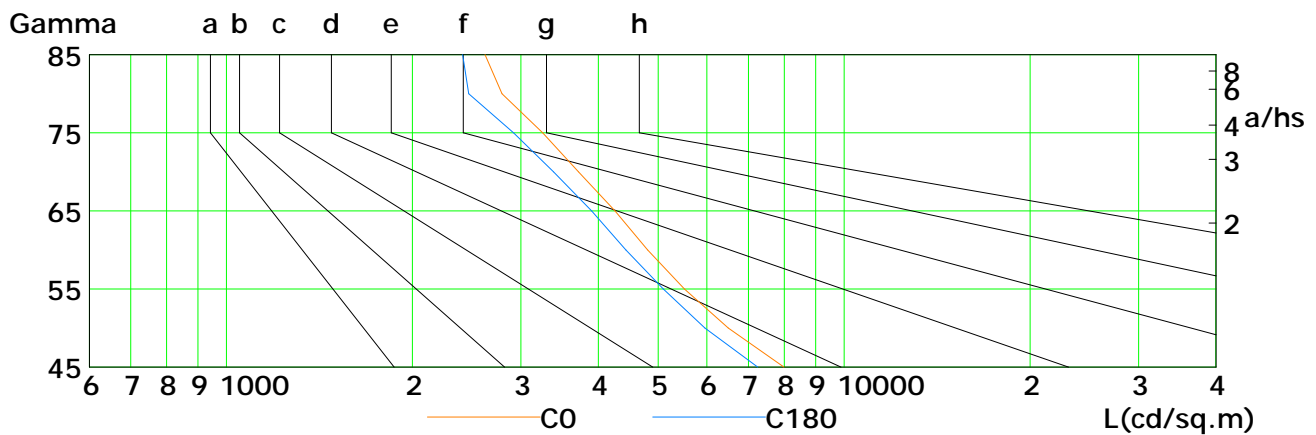
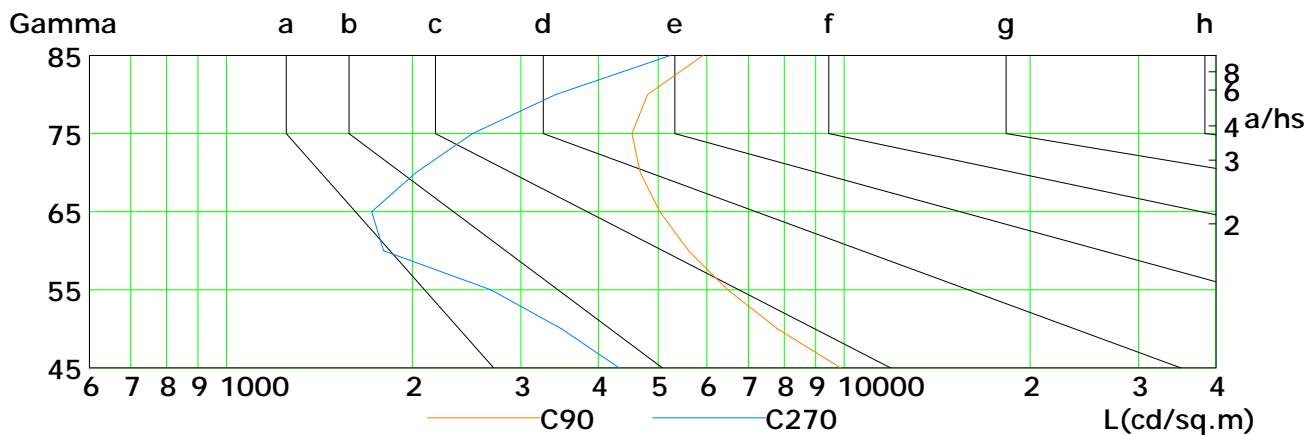
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:



Lum Limit Curve

| Dazzle | Quality | Illuminance (lx) | | | | | | | |
|--------|---------|------------------|------|------|-------|-------|-------|-------|-------|
| 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

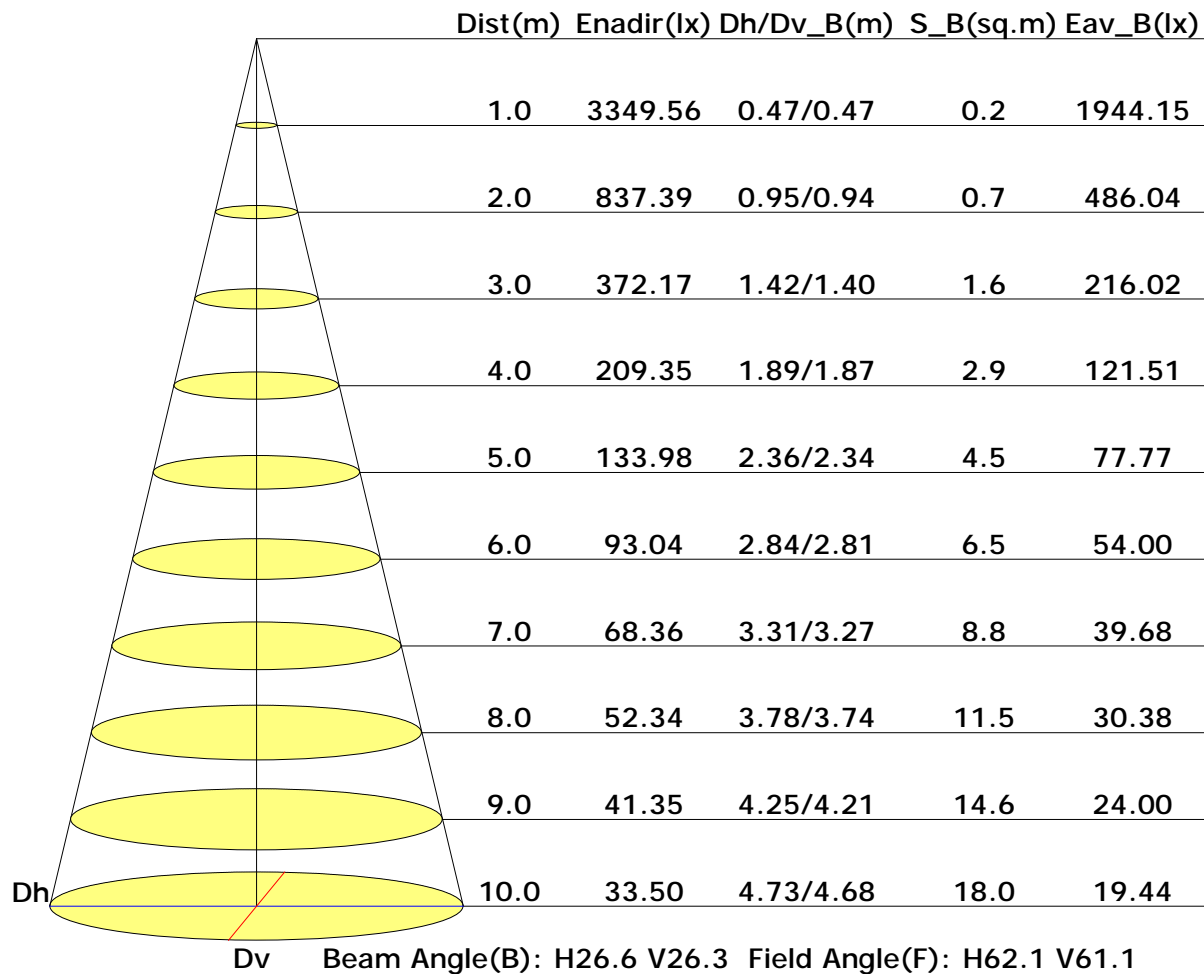


| L(cd/sq.m) | G45 | G50 | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|------------|------|------|------|------|------|------|------|------|------|
| C0 | 7996 | 6500 | 5515 | 4811 | 4257 | 3718 | 3253 | 2794 | 2623 |
| C90 | 9870 | 7806 | 6481 | 5600 | 5033 | 4680 | 4534 | 4808 | 5914 |
| C180 | 7250 | 5957 | 5100 | 4436 | 3902 | 3386 | 2918 | 2469 | 2412 |
| C270 | 4324 | 3490 | 2681 | 1798 | 1720 | 2027 | 2503 | 3416 | 5234 |

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

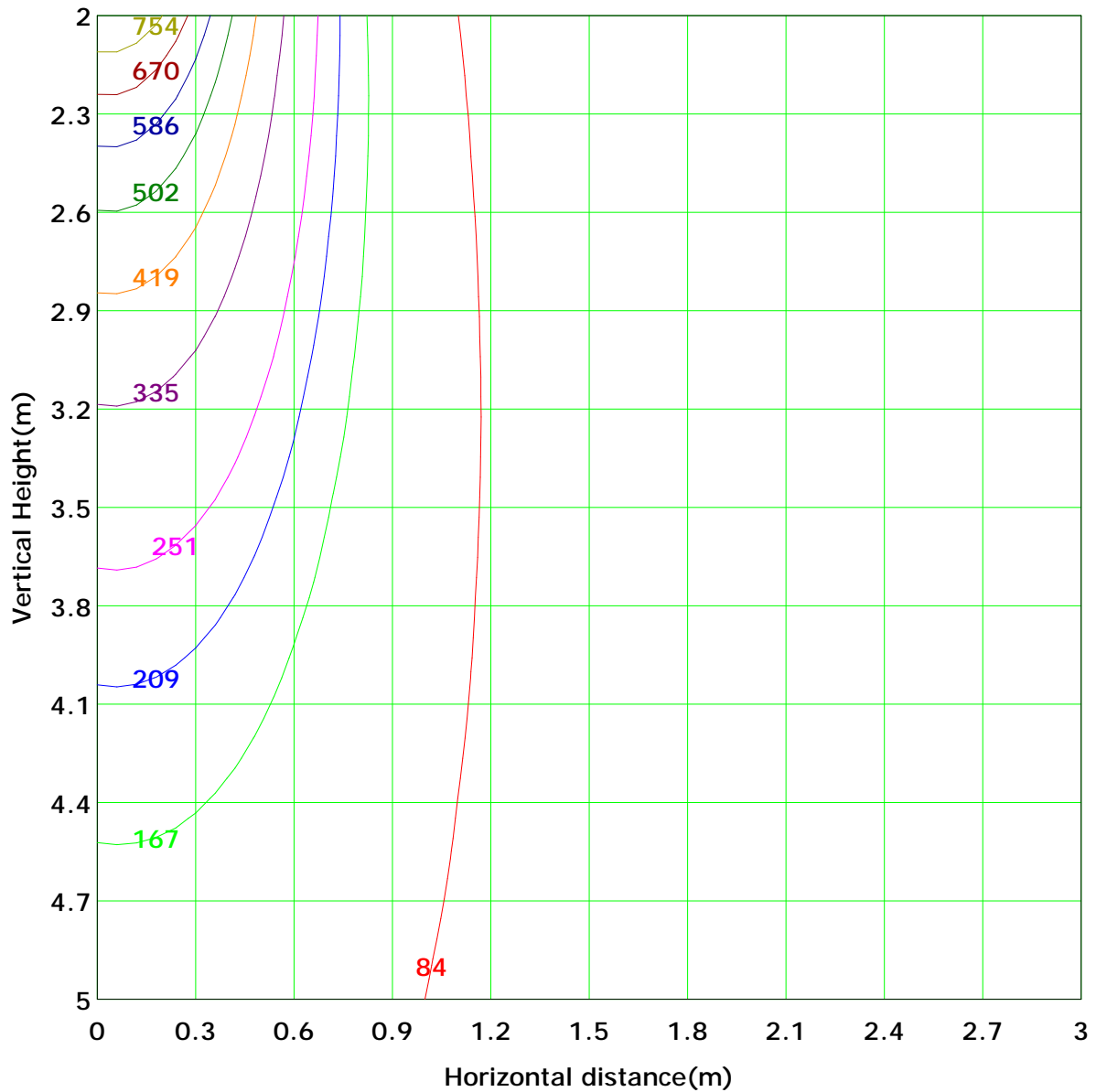
Illuminance at a Distance



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Vertical IsoLux Plot



| | | |
|------------------|------------------|-------------------|
| Lowest(m): 2.0m | Highest(m): 5.0m | Max Lux: 837.4 lx |
| (10%): 83.7 lx | (20%): 167.5 lx | |
| (25%): 209.3 lx | (30%): 251.2 lx | |
| (40%): 335.0 lx | (50%): 418.7 lx | |
| (60%): 502.4 lx | (70%): 586.2 lx | |
| (80%): 669.9 lx | (90%): 753.7 lx | |

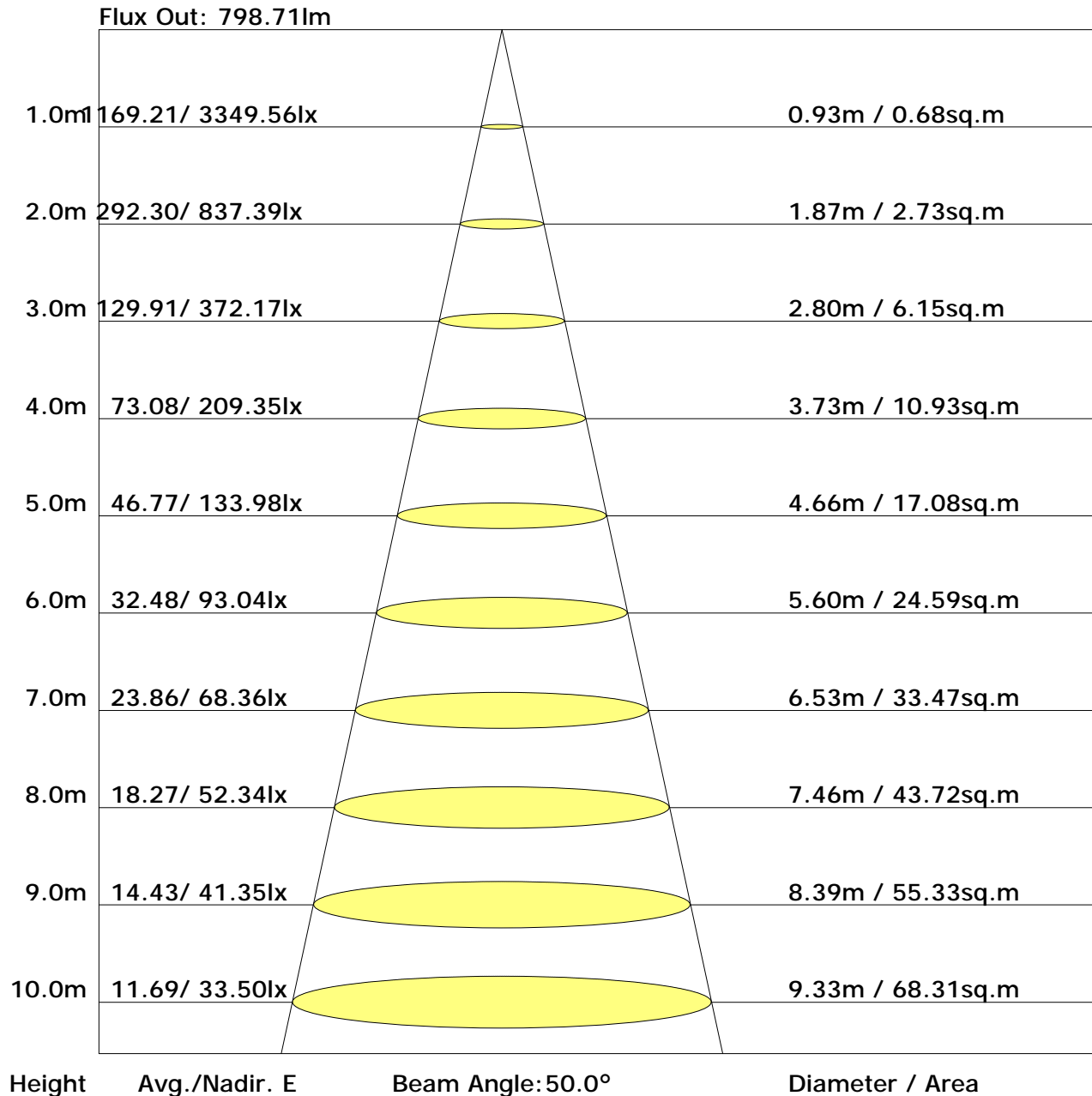
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:



The Average Illuminance Effective Figure



C Plane (°): 0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
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 | 12.7 | 13.7 | 13.2 | 14.2 | 14.7 | 12.4 | 13.4 | 12.9 | 13.9 | 14.4 |
| 3H | 14.4 | 15.3 | 14.9 | 15.8 | 16.4 | 13.7 | 14.6 | 14.2 | 15.1 | 15.6 |
| 4H | 15.1 | 16.0 | 15.6 | 16.5 | 17.0 | 14.2 | 15.0 | 14.7 | 15.5 | 16.1 |
| 6H | 15.8 | 16.5 | 16.3 | 17.1 | 17.7 | 14.6 | 15.4 | 15.2 | 16.0 | 16.5 |
| 8H | 16.1 | 16.8 | 16.6 | 17.4 | 18.0 | 14.9 | 15.6 | 15.4 | 16.1 | 16.7 |
| 12H | 16.4 | 17.1 | 17.0 | 17.6 | 18.3 | 15.1 | 15.8 | 15.6 | 16.3 | 16.9 |
| X=4H Y=2H | 12.9 | 13.7 | 13.4 | 14.2 | 14.8 | 12.9 | 13.7 | 13.4 | 14.3 | 14.8 |
| 3H | 14.7 | 15.4 | 15.3 | 16.0 | 16.6 | 14.4 | 15.1 | 14.9 | 15.6 | 16.2 |
| 4H | 15.6 | 16.2 | 16.1 | 16.8 | 17.4 | 15.0 | 15.7 | 15.6 | 16.2 | 16.9 |
| 6H | 16.4 | 16.9 | 17.0 | 17.5 | 18.2 | 15.6 | 16.2 | 16.2 | 16.8 | 17.4 |
| 8H | 16.8 | 17.3 | 17.4 | 17.9 | 18.5 | 15.9 | 16.4 | 16.5 | 17.0 | 17.7 |
| 12H | 17.2 | 17.7 | 17.9 | 18.3 | 19.0 | 16.2 | 16.6 | 16.8 | 17.2 | 17.9 |
| X=8H Y=4H | 15.6 | 16.2 | 16.3 | 16.8 | 17.4 | 15.3 | 15.8 | 15.9 | 16.4 | 17.1 |
| 6H | 16.6 | 17.0 | 17.2 | 17.7 | 18.3 | 16.1 | 16.5 | 16.7 | 17.1 | 17.8 |
| 8H | 17.1 | 17.5 | 17.8 | 18.2 | 18.8 | 16.5 | 16.8 | 17.1 | 17.5 | 18.2 |
| 12H | 17.7 | 18.1 | 18.4 | 18.7 | 19.4 | 16.9 | 17.2 | 17.5 | 17.8 | 18.6 |
| X=12H Y=4H | 15.6 | 16.1 | 16.3 | 16.7 | 17.4 | 15.3 | 15.8 | 16.0 | 16.4 | 17.1 |
| 6H | 16.6 | 17.0 | 17.3 | 17.6 | 18.3 | 16.2 | 16.5 | 16.8 | 17.2 | 17.9 |
| 8H | 17.2 | 17.5 | 17.9 | 18.2 | 18.9 | 16.6 | 17.0 | 17.3 | 17.6 | 18.3 |

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Utilisation Factor Table(Floor cavity)

| Utilisation Factors UF(F) | | | SHR NOM = 0.75 | | | | | | | | |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|
| 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 | 0.79 | 0.86 | 0.90 | 0.93 | 0.98 | 1.01 | 1.03 | 1.05 | 1.07 |
| | 0.30 | | 0.74 | 0.81 | 0.85 | 0.89 | 0.94 | 0.97 | 0.99 | 1.03 | 1.05 |
| | 0.20 | | 0.71 | 0.77 | 0.81 | 0.85 | 0.90 | 0.94 | 0.96 | 1.00 | 1.03 |
| 0.50 | 0.50 | 0.20 | 0.77 | 0.83 | 0.87 | 0.90 | 0.93 | 0.96 | 0.98 | 1.00 | 1.02 |
| | 0.30 | | 0.73 | 0.79 | 0.83 | 0.86 | 0.90 | 0.93 | 0.95 | 0.98 | 1.00 |
| | 0.20 | | 0.70 | 0.76 | 0.80 | 0.83 | 0.87 | 0.91 | 0.93 | 0.96 | 0.98 |
| 0.30 | 0.50 | 0.20 | 0.75 | 0.80 | 0.84 | 0.86 | 0.90 | 0.92 | 0.93 | 0.95 | 0.96 |
| | 0.30 | | 0.72 | 0.77 | 0.81 | 0.83 | 0.87 | 0.89 | 0.91 | 0.93 | 0.95 |
| | 0.20 | | 0.69 | 0.74 | 0.78 | 0.81 | 0.85 | 0.87 | 0.89 | 0.92 | 0.94 |
| 0.00 | 0.00 | 0.00 | 0.66 | 0.71 | 0.75 | 0.77 | 0.80 | 0.82 | 0.84 | 0.86 | 0.87 |
| Rating: 32W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980 | | | | | | | | | | | |

Utilisation Factor Table(Wall)

| Utilisation Factors UF(W) | | | SHR NOM = 0.75 | | | | | | | | |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|
| 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 | 0.64 | 0.53 | 0.45 | 0.39 | 0.31 | 0.26 | 0.23 | 0.18 | 0.14 |
| | 0.30 | | 0.53 | 0.45 | 0.39 | 0.35 | 0.28 | 0.24 | 0.21 | 0.17 | 0.14 |
| | 0.20 | | 0.46 | 0.39 | 0.35 | 0.31 | 0.26 | 0.22 | 0.19 | 0.16 | 0.13 |
| 0.50 | 0.50 | 0.20 | 0.59 | 0.48 | 0.41 | 0.36 | 0.29 | 0.27 | 0.20 | 0.16 | 0.13 |
| | 0.30 | | 0.50 | 0.42 | 0.36 | 0.32 | 0.26 | 0.22 | 0.19 | 0.15 | 0.13 |
| | 0.20 | | 0.43 | 0.37 | 0.33 | 0.29 | 0.24 | 0.20 | 0.18 | 0.14 | 0.12 |
| 0.30 | 0.50 | 0.20 | 0.55 | 0.45 | 0.38 | 0.33 | 0.26 | 0.22 | 0.18 | 0.14 | 0.12 |
| | 0.30 | | 0.47 | 0.39 | 0.34 | 0.30 | 0.24 | 0.20 | 0.17 | 0.14 | 0.11 |
| | 0.20 | | 0.41 | 0.35 | 0.31 | 0.27 | 0.22 | 0.19 | 0.16 | 0.13 | 0.11 |
| 0.00 | 0.00 | 0.00 | 0.27 | 0.22 | 0.19 | 0.17 | 0.13 | 0.11 | 0.10 | 0.08 | 0.06 |
| Rating: 32W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980 | | | | | | | | | | | |

Utilisation Factor Table(Ceiling cavity)

| Utilisation Factors UF(C) | | | SHR NOM = 0.75 | | | | | | | | |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|
| 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 | 0.21 | 0.23 | 0.24 | 0.25 | 0.26 | 0.27 | 0.28 | 0.28 | 0.29 |
| | 0.30 | | 0.17 | 0.19 | 0.20 | 0.21 | 0.23 | 0.24 | 0.25 | 0.26 | 0.27 |
| | 0.20 | | 0.14 | 0.16 | 0.17 | 0.18 | 0.20 | 0.22 | 0.23 | 0.25 | 0.26 |
| 0.50 | 0.50 | 0.20 | 0.21 | 0.22 | 0.23 | 0.24 | 0.25 | 0.26 | 0.27 | 0.27 | 0.28 |
| | 0.30 | | 0.17 | 0.18 | 0.20 | 0.21 | 0.22 | 0.23 | 0.24 | 0.25 | 0.26 |
| | 0.20 | | 0.14 | 0.15 | 0.17 | 0.18 | 0.20 | 0.21 | 0.22 | 0.24 | 0.25 |
| 0.30 | 0.50 | 0.20 | 0.20 | 0.21 | 0.22 | 0.23 | 0.24 | 0.25 | 0.25 | 0.26 | 0.27 |
| | 0.30 | | 0.16 | 0.18 | 0.19 | 0.20 | 0.22 | 0.23 | 0.24 | 0.25 | 0.25 |
| | 0.20 | | 0.14 | 0.15 | 0.17 | 0.18 | 0.20 | 0.21 | 0.22 | 0.23 | 0.24 |
| 0.00 | 0.00 | 0.00 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| Rating: 32W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980 | | | | | | | | | | | |

Zonal Lumen

| Gamma [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 0.0-1.0 | 3220.2 | 3.1 | 3.1 | 0.22 | 0.22 |
| 1.0-2.0 | 3193.7 | 9.2 | 12.2 | 0.65 | 0.86 |
| 2.0-3.0 | 3140.8 | 15.0 | 27.3 | 1.06 | 1.92 |
| 3.0-4.0 | 3064.1 | 20.5 | 47.8 | 1.45 | 3.37 |
| 4.0-5.0 | 2965.5 | 25.5 | 73.3 | 1.80 | 5.17 |
| 5.0-6.0 | 2847.6 | 29.9 | 103.2 | 2.11 | 7.29 |
| 6.0-7.0 | 2714.4 | 33.7 | 136.9 | 2.38 | 9.66 |
| 7.0-8.0 | 2569.3 | 36.8 | 173.7 | 2.60 | 12.26 |
| 8.0-9.0 | 2414.7 | 39.1 | 212.8 | 2.76 | 15.02 |
| 9.0-10.0 | 2255.7 | 40.8 | 253.7 | 2.88 | 17.90 |
| 10.0-11.0 | 2097.0 | 41.9 | 295.6 | 2.96 | 20.86 |
| 11.0-12.0 | 1938.2 | 42.4 | 338.0 | 2.99 | 23.85 |
| 12.0-13.0 | 1783.6 | 42.3 | 380.3 | 2.99 | 26.84 |
| 13.0-14.0 | 1637.4 | 41.9 | 422.2 | 2.96 | 29.80 |
| 14.0-15.0 | 1497.6 | 41.1 | 463.3 | 2.90 | 32.70 |
| 15.0-16.0 | 1366.4 | 40.0 | 503.4 | 2.83 | 35.53 |
| 16.0-17.0 | 1246.3 | 38.8 | 542.2 | 2.74 | 38.26 |
| 17.0-18.0 | 1135.4 | 37.4 | 579.6 | 2.64 | 40.91 |
| 18.0-19.0 | 1033.0 | 35.9 | 615.6 | 2.54 | 43.44 |
| 19.0-20.0 | 939.8 | 34.4 | 650.0 | 2.43 | 45.87 |
| 20.0-21.0 | 854.8 | 32.8 | 682.8 | 2.32 | 48.19 |
| 21.0-22.0 | 777.6 | 31.3 | 714.0 | 2.21 | 50.39 |
| 22.0-23.0 | 708.1 | 29.7 | 743.8 | 2.10 | 52.49 |
| 23.0-24.0 | 645.1 | 28.2 | 772.0 | 1.99 | 54.48 |
| 24.0-25.0 | 587.9 | 26.7 | 798.7 | 1.89 | 56.37 |
| 25.0-26.0 | 536.8 | 25.3 | 824.1 | 1.79 | 58.16 |
| 26.0-27.0 | 490.7 | 24.0 | 848.1 | 1.69 | 59.85 |
| 27.0-28.0 | 448.5 | 22.7 | 870.8 | 1.60 | 61.46 |
| 28.0-29.0 | 410.6 | 21.5 | 892.3 | 1.52 | 62.97 |
| 29.0-30.0 | 376.5 | 20.3 | 912.6 | 1.43 | 64.41 |
| 30.0-31.0 | 345.2 | 19.2 | 931.8 | 1.36 | 65.76 |
| 31.0-32.0 | 316.6 | 18.1 | 949.9 | 1.28 | 67.04 |
| 32.0-33.0 | 290.9 | 17.1 | 967.1 | 1.21 | 68.25 |
| 33.0-34.0 | 267.5 | 16.2 | 983.3 | 1.14 | 69.40 |
| 34.0-35.0 | 246.2 | 15.3 | 998.6 | 1.08 | 70.47 |
| 35.0-36.0 | 227.0 | 14.5 | 1013.0 | 1.02 | 71.49 |

C Plane (°): 0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1800B
 Distance: 9.028 m
 Humidity: 60%
 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 | 209.5 | 13.7 | 1026.7 | 0.96 | 72.46 |
| 37.0-38.0 | 193.8 | 12.9 | 1039.6 | 0.91 | 73.37 |
| 38.0-39.0 | 179.8 | 12.3 | 1051.9 | 0.87 | 74.24 |
| 39.0-40.0 | 167.2 | 11.7 | 1063.6 | 0.82 | 75.06 |
| 40.0-41.0 | 155.7 | 11.1 | 1074.7 | 0.78 | 75.84 |
| 41.0-42.0 | 145.4 | 10.6 | 1085.2 | 0.75 | 76.59 |
| 42.0-43.0 | 136.4 | 10.1 | 1095.3 | 0.71 | 77.30 |
| 43.0-44.0 | 128.0 | 9.7 | 1105.0 | 0.68 | 77.98 |
| 44.0-45.0 | 120.3 | 9.2 | 1114.2 | 0.65 | 78.64 |
| 45.0-46.0 | 113.4 | 8.9 | 1123.1 | 0.63 | 79.26 |
| 46.0-47.0 | 106.9 | 8.5 | 1131.6 | 0.60 | 79.86 |
| 47.0-48.0 | 101.0 | 8.2 | 1139.8 | 0.58 | 80.44 |
| 48.0-49.0 | 95.5 | 7.8 | 1147.6 | 0.55 | 80.99 |
| 49.0-50.0 | 90.3 | 7.5 | 1155.2 | 0.53 | 81.53 |
| 50.0-51.0 | 85.6 | 7.2 | 1162.4 | 0.51 | 82.04 |
| 51.0-52.0 | 81.1 | 7.0 | 1169.4 | 0.49 | 82.53 |
| 52.0-53.0 | 76.9 | 6.7 | 1176.0 | 0.47 | 83.00 |
| 53.0-54.0 | 72.9 | 6.4 | 1182.5 | 0.45 | 83.45 |
| 54.0-55.0 | 69.1 | 6.2 | 1188.6 | 0.44 | 83.89 |
| 55.0-56.0 | 65.5 | 5.9 | 1194.6 | 0.42 | 84.31 |
| 56.0-57.0 | 62.0 | 5.7 | 1200.2 | 0.40 | 84.71 |
| 57.0-58.0 | 58.8 | 5.4 | 1205.7 | 0.38 | 85.09 |
| 58.0-59.0 | 55.7 | 5.2 | 1210.9 | 0.37 | 85.46 |
| 59.0-60.0 | 52.8 | 5.0 | 1215.9 | 0.35 | 85.81 |
| 60.0-61.0 | 50.1 | 4.8 | 1220.7 | 0.34 | 86.15 |
| 61.0-62.0 | 47.6 | 4.6 | 1225.2 | 0.32 | 86.47 |
| 62.0-63.0 | 45.2 | 4.4 | 1229.6 | 0.31 | 86.78 |
| 63.0-64.0 | 43.0 | 4.2 | 1233.9 | 0.30 | 87.08 |
| 64.0-65.0 | 41.0 | 4.1 | 1237.9 | 0.29 | 87.37 |
| 65.0-66.0 | 39.2 | 3.9 | 1241.8 | 0.28 | 87.64 |
| 66.0-67.0 | 37.4 | 3.8 | 1245.6 | 0.27 | 87.91 |
| 67.0-68.0 | 35.7 | 3.6 | 1249.2 | 0.26 | 88.16 |
| 68.0-69.0 | 34.1 | 3.5 | 1252.7 | 0.25 | 88.41 |
| 69.0-70.0 | 32.5 | 3.3 | 1256.0 | 0.24 | 88.64 |
| 70.0-71.0 | 31.0 | 3.2 | 1259.2 | 0.23 | 88.87 |
| 71.0-72.0 | 29.6 | 3.1 | 1262.3 | 0.22 | 89.09 |

C Plane (°): 0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1800B
 Distance: 9.028 m
 Humidity: 60%
 Inspector:

Zonal Lumen (Continue 2)

| Gamma [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 72.0-73.0 | 28.2 | 3.0 | 1265.3 | 0.21 | 89.30 |
| 73.0-74.0 | 26.9 | 2.8 | 1268.1 | 0.20 | 89.50 |
| 74.0-75.0 | 25.7 | 2.7 | 1270.8 | 0.19 | 89.69 |
| 75.0-76.0 | 24.6 | 2.6 | 1273.4 | 0.18 | 89.87 |
| 76.0-77.0 | 23.5 | 2.5 | 1275.9 | 0.18 | 90.05 |
| 77.0-78.0 | 22.5 | 2.4 | 1278.3 | 0.17 | 90.22 |
| 78.0-79.0 | 21.5 | 2.3 | 1280.6 | 0.16 | 90.38 |
| 79.0-80.0 | 20.7 | 2.2 | 1282.9 | 0.16 | 90.54 |
| 80.0-81.0 | 19.9 | 2.2 | 1285.0 | 0.15 | 90.69 |
| 81.0-82.0 | 19.2 | 2.1 | 1287.1 | 0.15 | 90.84 |
| 82.0-83.0 | 18.6 | 2.0 | 1289.1 | 0.14 | 90.98 |
| 83.0-84.0 | 18.1 | 2.0 | 1291.1 | 0.14 | 91.12 |
| 84.0-85.0 | 17.7 | 1.9 | 1293.0 | 0.14 | 91.26 |
| 85.0-86.0 | 17.3 | 1.9 | 1294.9 | 0.13 | 91.39 |
| 86.0-87.0 | 17.1 | 1.9 | 1296.8 | 0.13 | 91.52 |
| 87.0-88.0 | 16.9 | 1.9 | 1298.6 | 0.13 | 91.65 |
| 88.0-89.0 | 16.8 | 1.8 | 1300.5 | 0.13 | 91.78 |
| 89.0-90.0 | 16.8 | 1.8 | 1302.3 | 0.13 | 91.91 |
| 90.0-91.0 | 16.8 | 1.8 | 1304.2 | 0.13 | 92.04 |
| 91.0-92.0 | 16.7 | 1.8 | 1306.0 | 0.13 | 92.17 |
| 92.0-93.0 | 16.7 | 1.8 | 1307.8 | 0.13 | 92.30 |
| 93.0-94.0 | 16.6 | 1.8 | 1309.6 | 0.13 | 92.43 |
| 94.0-95.0 | 16.6 | 1.8 | 1311.5 | 0.13 | 92.56 |
| 95.0-96.0 | 16.6 | 1.8 | 1313.3 | 0.13 | 92.68 |
| 96.0-97.0 | 16.6 | 1.8 | 1315.1 | 0.13 | 92.81 |
| 97.0-98.0 | 16.6 | 1.8 | 1316.9 | 0.13 | 92.94 |
| 98.0-99.0 | 16.5 | 1.8 | 1318.7 | 0.13 | 93.07 |
| 99.0-100.0 | 16.5 | 1.8 | 1320.5 | 0.13 | 93.19 |
| 100.0-101.0 | 16.5 | 1.8 | 1322.2 | 0.13 | 93.32 |
| 101.0-102.0 | 16.5 | 1.8 | 1324.0 | 0.13 | 93.44 |
| 102.0-103.0 | 16.5 | 1.8 | 1325.8 | 0.13 | 93.57 |
| 103.0-104.0 | 16.5 | 1.8 | 1327.5 | 0.12 | 93.69 |
| 104.0-105.0 | 16.5 | 1.8 | 1329.3 | 0.12 | 93.82 |
| 105.0-106.0 | 16.6 | 1.7 | 1331.1 | 0.12 | 93.94 |
| 106.0-107.0 | 16.5 | 1.7 | 1332.8 | 0.12 | 94.06 |
| 107.0-108.0 | 16.5 | 1.7 | 1334.5 | 0.12 | 94.18 |

C Plane (°): 0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1800B
 Distance: 9.028 m
 Humidity: 60%
 Inspector:

Zonal Lumen (Continue 3)

| Gamma [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 108.0-109.0 | 16.5 | 1.7 | 1336.2 | 0.12 | 94.30 |
| 109.0-110.0 | 16.5 | 1.7 | 1337.9 | 0.12 | 94.43 |
| 110.0-111.0 | 16.6 | 1.7 | 1339.6 | 0.12 | 94.55 |
| 111.0-112.0 | 16.6 | 1.7 | 1341.3 | 0.12 | 94.66 |
| 112.0-113.0 | 16.6 | 1.7 | 1343.0 | 0.12 | 94.78 |
| 113.0-114.0 | 16.7 | 1.7 | 1344.7 | 0.12 | 94.90 |
| 114.0-115.0 | 16.7 | 1.7 | 1346.4 | 0.12 | 95.02 |
| 115.0-116.0 | 16.8 | 1.7 | 1348.0 | 0.12 | 95.14 |
| 116.0-117.0 | 16.8 | 1.6 | 1349.7 | 0.12 | 95.25 |
| 117.0-118.0 | 16.8 | 1.6 | 1351.3 | 0.12 | 95.37 |
| 118.0-119.0 | 16.9 | 1.6 | 1352.9 | 0.11 | 95.48 |
| 119.0-120.0 | 17.0 | 1.6 | 1354.5 | 0.11 | 95.60 |
| 120.0-121.0 | 17.0 | 1.6 | 1356.2 | 0.11 | 95.71 |
| 121.0-122.0 | 17.1 | 1.6 | 1357.7 | 0.11 | 95.82 |
| 122.0-123.0 | 17.2 | 1.6 | 1359.3 | 0.11 | 95.94 |
| 123.0-124.0 | 17.3 | 1.6 | 1360.9 | 0.11 | 96.05 |
| 124.0-125.0 | 17.4 | 1.6 | 1362.5 | 0.11 | 96.16 |
| 125.0-126.0 | 17.5 | 1.6 | 1364.1 | 0.11 | 96.27 |
| 126.0-127.0 | 17.6 | 1.5 | 1365.6 | 0.11 | 96.38 |
| 127.0-128.0 | 17.7 | 1.5 | 1367.1 | 0.11 | 96.49 |
| 128.0-129.0 | 17.8 | 1.5 | 1368.7 | 0.11 | 96.59 |
| 129.0-130.0 | 17.9 | 1.5 | 1370.2 | 0.11 | 96.70 |
| 130.0-131.0 | 18.0 | 1.5 | 1371.7 | 0.11 | 96.81 |
| 131.0-132.0 | 18.1 | 1.5 | 1373.2 | 0.11 | 96.91 |
| 132.0-133.0 | 18.3 | 1.5 | 1374.6 | 0.10 | 97.02 |
| 133.0-134.0 | 18.4 | 1.5 | 1376.1 | 0.10 | 97.12 |
| 134.0-135.0 | 18.5 | 1.5 | 1377.6 | 0.10 | 97.22 |
| 135.0-136.0 | 18.7 | 1.4 | 1379.0 | 0.10 | 97.32 |
| 136.0-137.0 | 18.9 | 1.4 | 1380.4 | 0.10 | 97.42 |
| 137.0-138.0 | 19.0 | 1.4 | 1381.8 | 0.10 | 97.52 |
| 138.0-139.0 | 19.3 | 1.4 | 1383.2 | 0.10 | 97.62 |
| 139.0-140.0 | 19.5 | 1.4 | 1384.6 | 0.10 | 97.72 |
| 140.0-141.0 | 19.7 | 1.4 | 1386.0 | 0.10 | 97.82 |
| 141.0-142.0 | 19.8 | 1.4 | 1387.3 | 0.10 | 97.91 |
| 142.0-143.0 | 20.1 | 1.3 | 1388.7 | 0.09 | 98.01 |
| 143.0-144.0 | 20.3 | 1.3 | 1390.0 | 0.09 | 98.10 |

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen (Continue 4)

| Gamma [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 144.0-145.0 | 20.5 | 1.3 | 1391.3 | 0.09 | 98.19 |
| 145.0-146.0 | 20.7 | 1.3 | 1392.6 | 0.09 | 98.28 |
| 146.0-147.0 | 20.9 | 1.3 | 1393.9 | 0.09 | 98.37 |
| 147.0-148.0 | 21.1 | 1.2 | 1395.1 | 0.09 | 98.46 |
| 148.0-149.0 | 21.3 | 1.2 | 1396.3 | 0.09 | 98.55 |
| 149.0-150.0 | 21.5 | 1.2 | 1397.5 | 0.08 | 98.63 |
| 150.0-151.0 | 21.7 | 1.2 | 1398.7 | 0.08 | 98.71 |
| 151.0-152.0 | 21.9 | 1.1 | 1399.8 | 0.08 | 98.79 |
| 152.0-153.0 | 22.1 | 1.1 | 1401.0 | 0.08 | 98.87 |
| 153.0-154.0 | 22.3 | 1.1 | 1402.1 | 0.08 | 98.95 |
| 154.0-155.0 | 22.4 | 1.1 | 1403.1 | 0.07 | 99.03 |
| 155.0-156.0 | 22.6 | 1.0 | 1404.1 | 0.07 | 99.10 |
| 156.0-157.0 | 22.8 | 1.0 | 1405.1 | 0.07 | 99.17 |
| 157.0-158.0 | 22.9 | 1.0 | 1406.1 | 0.07 | 99.24 |
| 158.0-159.0 | 23.1 | 0.9 | 1407.0 | 0.07 | 99.30 |
| 159.0-160.0 | 23.2 | 0.9 | 1407.9 | 0.06 | 99.36 |
| 160.0-161.0 | 23.4 | 0.9 | 1408.8 | 0.06 | 99.42 |
| 161.0-162.0 | 23.5 | 0.8 | 1409.6 | 0.06 | 99.48 |
| 162.0-163.0 | 23.6 | 0.8 | 1410.4 | 0.05 | 99.54 |
| 163.0-164.0 | 23.6 | 0.7 | 1411.1 | 0.05 | 99.59 |
| 164.0-165.0 | 23.7 | 0.7 | 1411.8 | 0.05 | 99.64 |
| 165.0-166.0 | 23.8 | 0.7 | 1412.5 | 0.05 | 99.68 |
| 166.0-167.0 | 23.9 | 0.6 | 1413.1 | 0.04 | 99.73 |
| 167.0-168.0 | 23.9 | 0.6 | 1413.6 | 0.04 | 99.77 |
| 168.0-169.0 | 23.9 | 0.5 | 1414.2 | 0.04 | 99.80 |
| 169.0-170.0 | 23.9 | 0.5 | 1414.6 | 0.03 | 99.84 |
| 170.0-171.0 | 24.0 | 0.4 | 1415.1 | 0.03 | 99.87 |
| 171.0-172.0 | 24.0 | 0.4 | 1415.5 | 0.03 | 99.90 |
| 172.0-173.0 | 24.0 | 0.3 | 1415.8 | 0.02 | 99.92 |
| 173.0-174.0 | 24.0 | 0.3 | 1416.1 | 0.02 | 99.94 |
| 174.0-175.0 | 24.0 | 0.3 | 1416.3 | 0.02 | 99.96 |
| 175.0-176.0 | 24.0 | 0.2 | 1416.6 | 0.01 | 99.97 |
| 176.0-177.0 | 24.0 | 0.2 | 1416.7 | 0.01 | 99.99 |
| 177.0-178.0 | 24.1 | 0.1 | 1416.8 | 0.01 | 99.99 |
| 178.0-179.0 | 24.1 | 0.1 | 1416.9 | 0.00 | 100.00 |
| 179.0-180.0 | 24.1 | 0.0 | 1416.9 | 0.00 | 100.00 |

C Plane (°): 0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1800B
 Distance: 9.028 m
 Humidity: 60%
 Inspector: