

Report No.:

Test Time: 2023/2/21 15:07

Luminaire Property

Luminaire Manufacturer: ACOLYTE

Luminaire Category: WALL WASHER

Luminaire Description: FORTEACNS12RGBW4020x45-ALL ON

Luminous Length (mm): 330

Luminous Width (mm): 96

Luminous Height (mm): 162.5

Voltage: 219.4 V

Current: 0.159 A

Power: 32.51 W

Power Factor: 0.931

Photometric Results

CIE Class: Direct

Measurement Flux: 1291.1 lm

Downward Ratio: 98%

Horizontal Diffuse Angle(10%,50%): H81.8,H46

Vertical Diffuse Angle(10%,50%): V53.5,V21.4

Luminaire Efficacy Rating (LER): 40

Max. Intensity: 2894.79 cd

Total Rated Lamp Lumens: 1291.1 lm

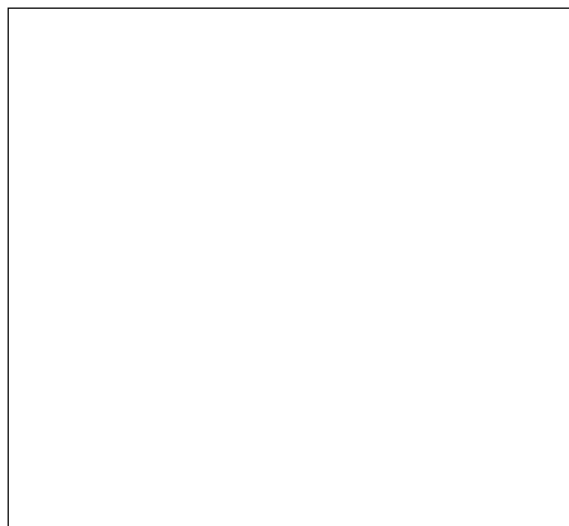
Efficiency: 100%

Upward Ratio: 2%

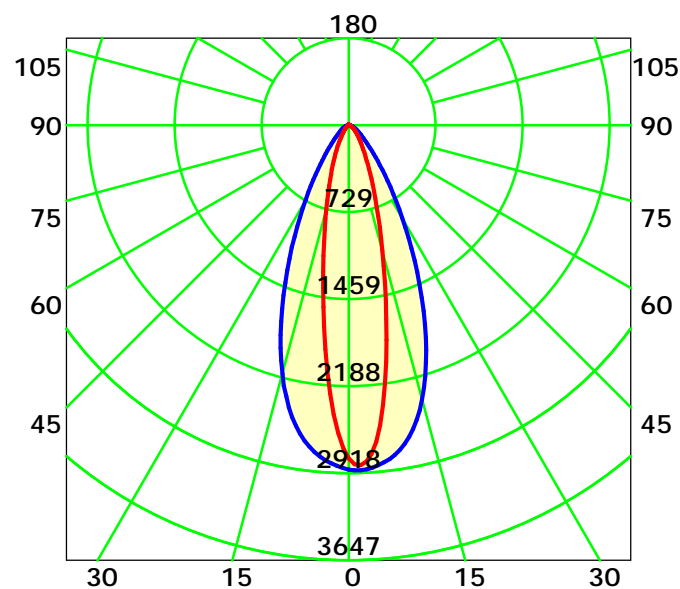
Central Intensity: 2886.53 cd

Pos of Max. Intensity: H0 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 33.7° 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

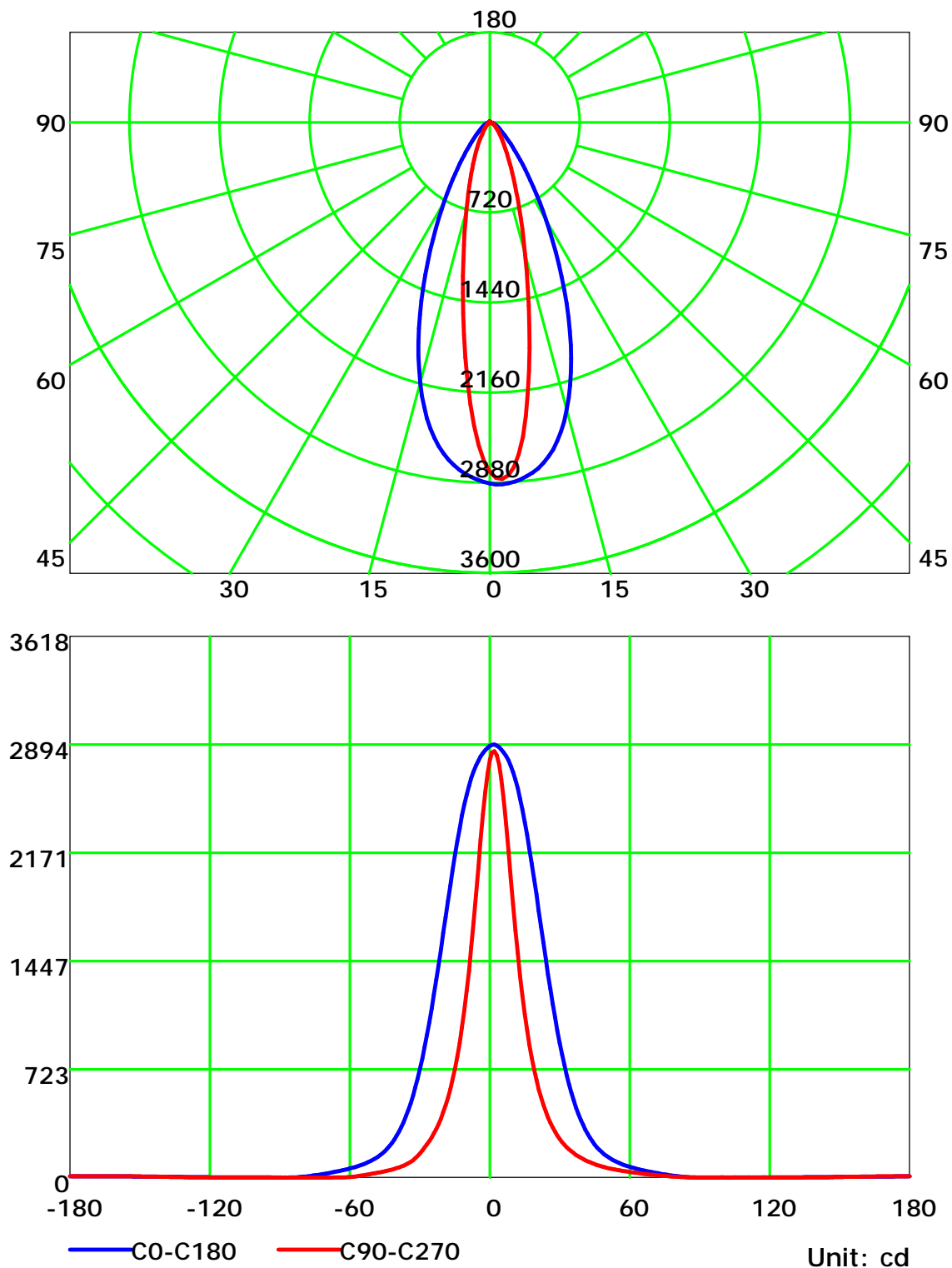
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

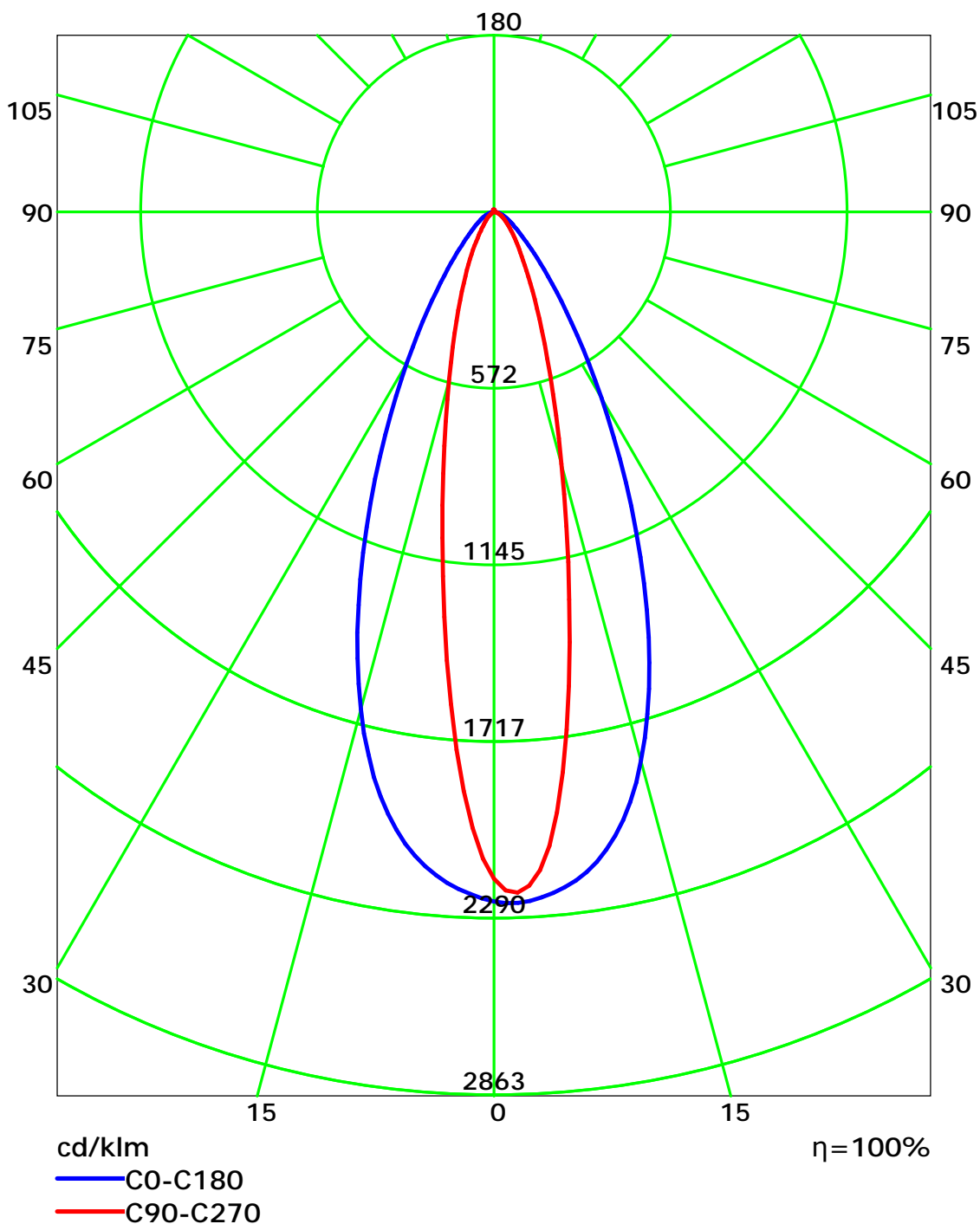
Luminous Intensity Distribution Curve



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:

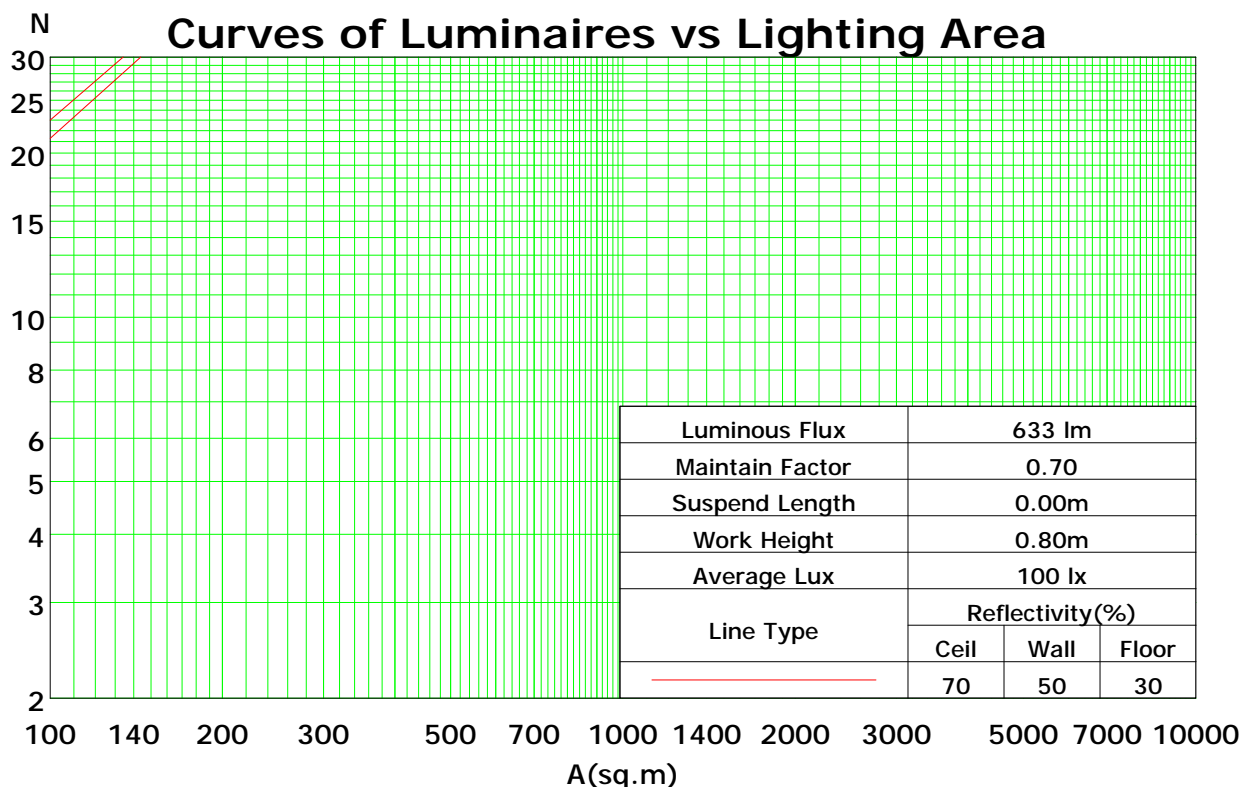
Coefficients Of Utilization - Zonal Cavity Method

| | | | | | | | | | | | | | | | | | | |
|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 103 | 101 | 100 | 99 | 98 | 96 | 95 | 94 | 93 | 91 |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | 93 | 91 | 89 | 90 | 88 | 87 | 85 |
| 3 | 102 | 95 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 87 | 84 | 88 | 85 | 82 | 86 | 83 | 81 | 79 |
| 4 | 97 | 89 | 84 | 79 | 95 | 88 | 83 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 81 | 78 | 75 | 74 |
| 5 | 92 | 84 | 78 | 74 | 90 | 83 | 77 | 73 | 81 | 76 | 73 | 79 | 75 | 72 | 77 | 74 | 71 | 69 |
| 6 | 88 | 79 | 73 | 69 | 86 | 78 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 73 | 70 | 67 | 65 |
| 7 | 84 | 75 | 69 | 65 | 82 | 74 | 69 | 65 | 73 | 68 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 |
| 8 | 80 | 71 | 65 | 61 | 79 | 70 | 65 | 61 | 69 | 64 | 61 | 68 | 64 | 60 | 67 | 63 | 60 | 59 |
| 9 | 77 | 68 | 62 | 58 | 76 | 67 | 62 | 58 | 66 | 61 | 58 | 65 | 61 | 57 | 64 | 60 | 57 | 56 |
| 10 | 74 | 65 | 59 | 55 | 73 | 64 | 59 | 55 | 63 | 58 | 55 | 62 | 58 | 55 | 61 | 57 | 55 | 53 |

Spacing Criteria (0-180): 0.74

Spacing Criteria (90-270): 0.37

Spacing Criteria (Diagonal): 0.52



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

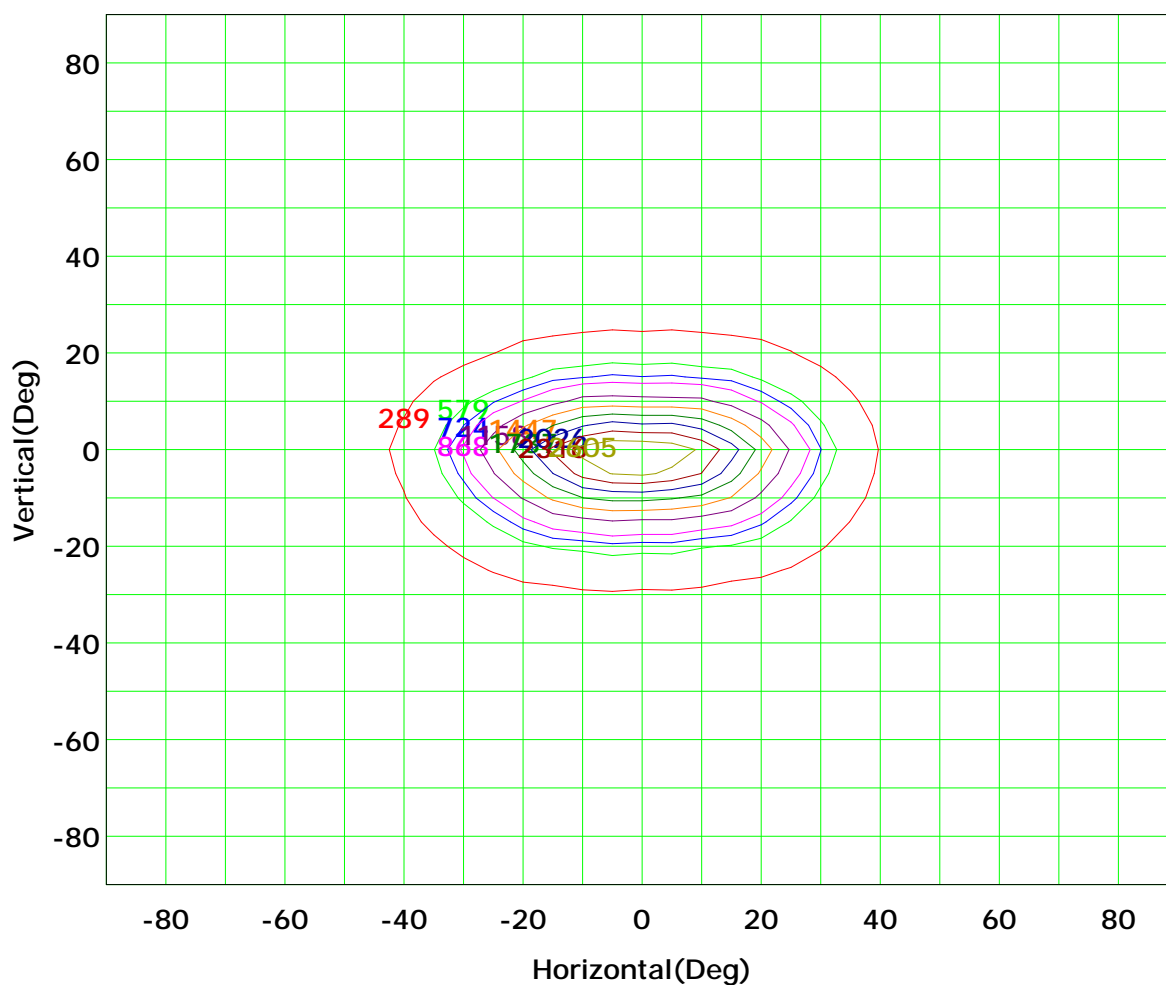
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



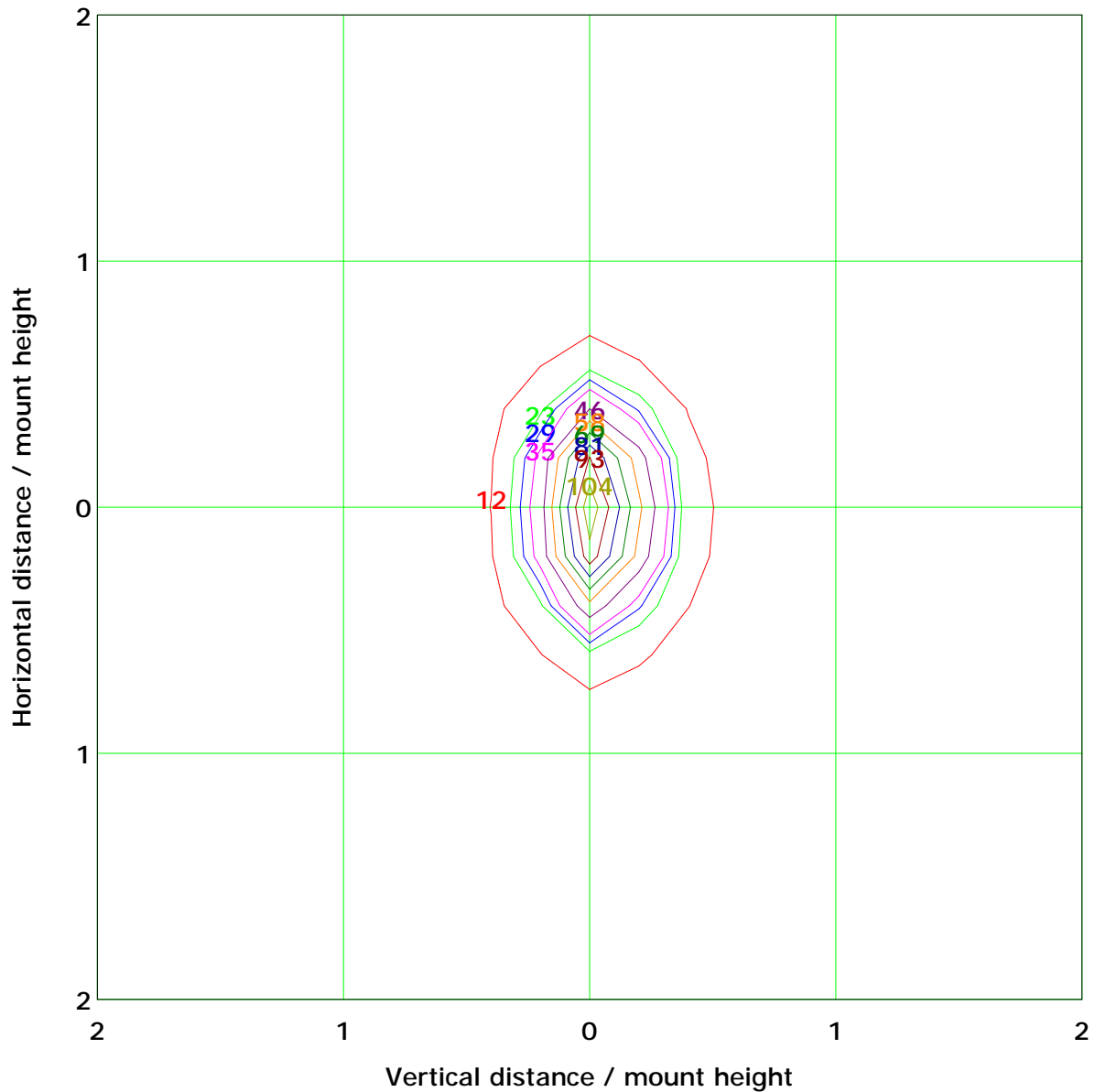
Imax (100%): 2895 cd

| | |
|-----------------|-----------------|
| (10%): 289 cd | (20%): 579 cd |
| (25%): 724 cd | (30%): 868 cd |
| (40%): 1158 cd | (50%): 1447 cd |
| (60%): 1737 cd | (70%): 2026 cd |
| (80%): 2316 cd | (90%): 2605 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%): 115.7 lx | |
| (10%): 11.6 lx | (20%): 23.1 lx |
| (25%): 28.9 lx | (30%): 34.7 lx |
| (40%): 46.3 lx | (50%): 57.9 lx |
| (60%): 69.4 lx | (70%): 81.0 lx |
| (80%): 92.6 lx | (90%): 104.1 lx |

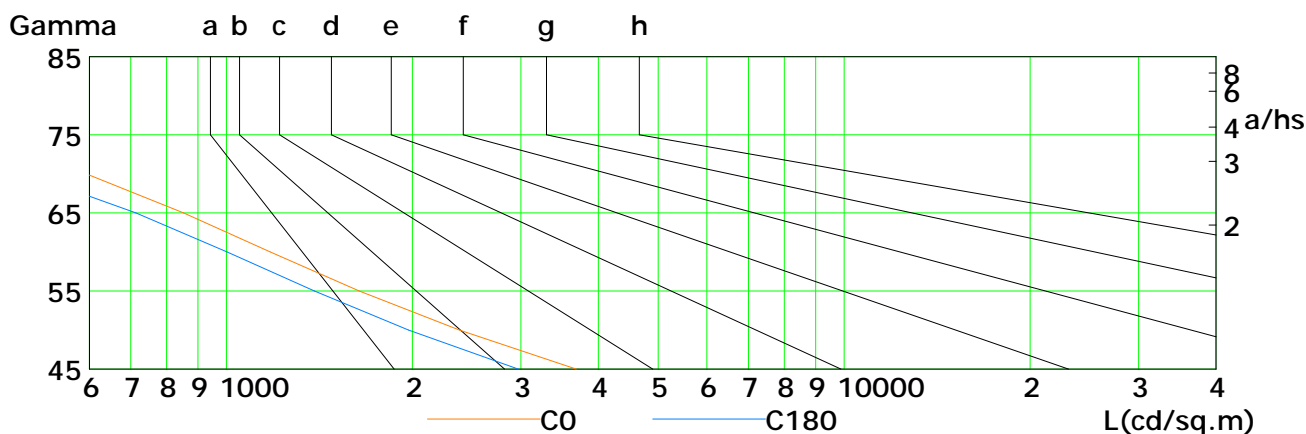
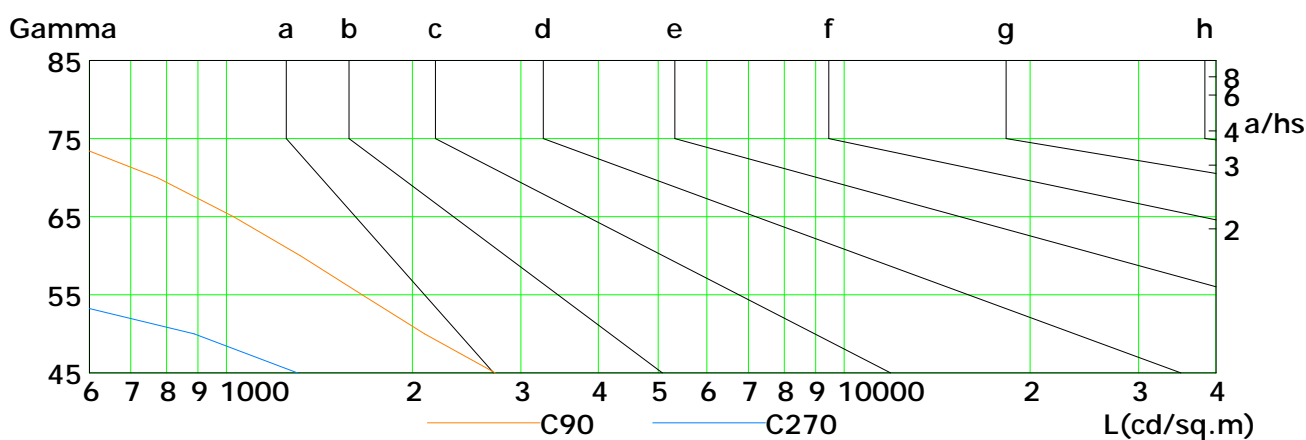
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

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

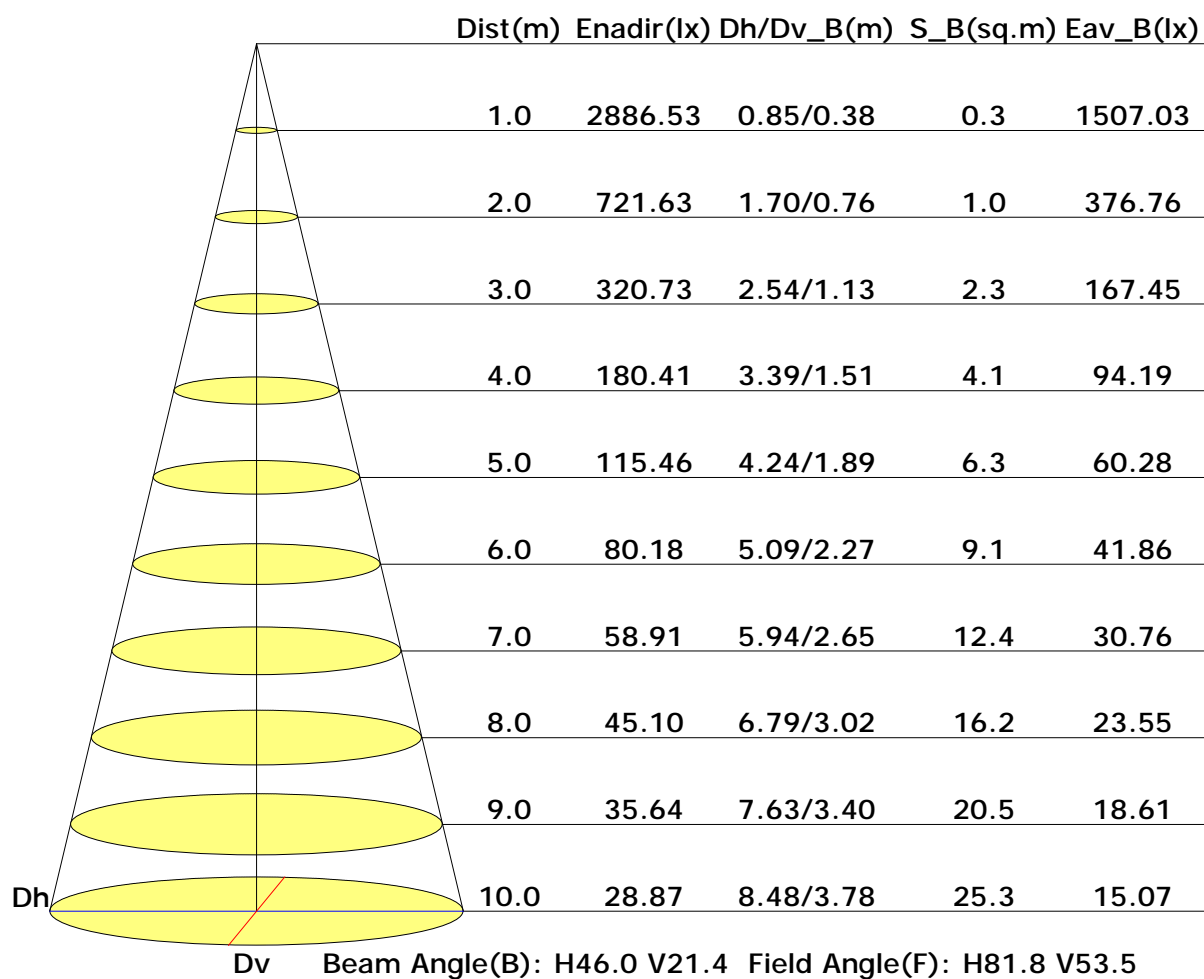


| L(cd/sq.m) | G45 | G50 | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|------------|------|------|------|------|------|-----|-----|-----|-----|
| C0 | 3684 | 2385 | 1640 | 1178 | 852 | 594 | 374 | 191 | 68 |
| C90 | 2727 | 2093 | 1660 | 1318 | 1027 | 774 | 533 | 334 | 189 |
| C180 | 2971 | 1973 | 1389 | 1002 | 714 | 477 | 278 | 122 | 40 |
| C270 | 1304 | 887 | 486 | 178 | 77 | 62 | 73 | 79 | 96 |

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:

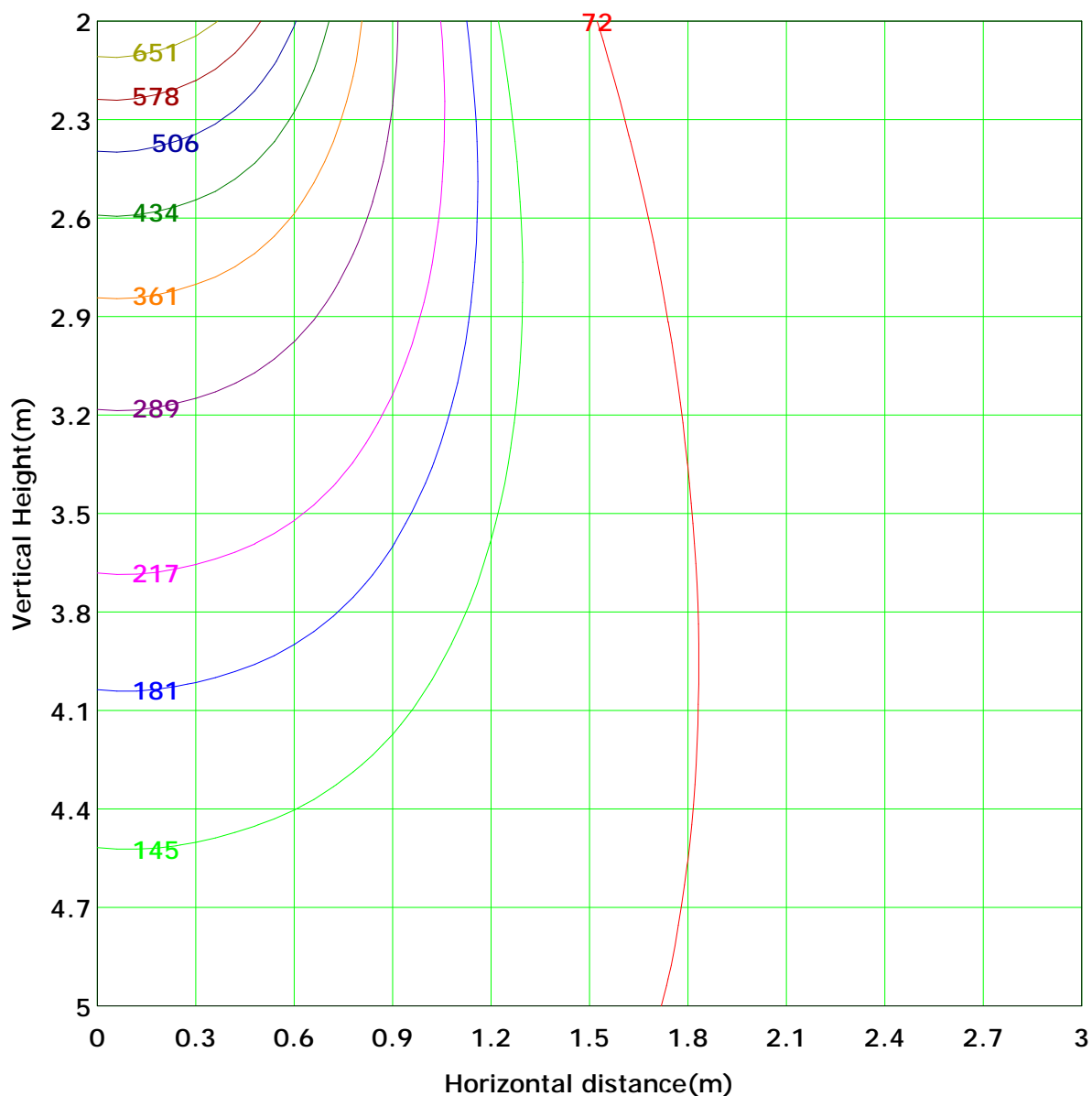
Illuminance at a Distance



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: 723.0 lx |
| (10%): 72.3 lx | (20%): 144.6 lx | |
| (25%): 180.7 lx | (30%): 216.9 lx | |
| (40%): 289.2 lx | (50%): 361.5 lx | |
| (60%): 433.8 lx | (70%): 506.1 lx | |
| (80%): 578.4 lx | (90%): 650.7 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:

Area Flux Table

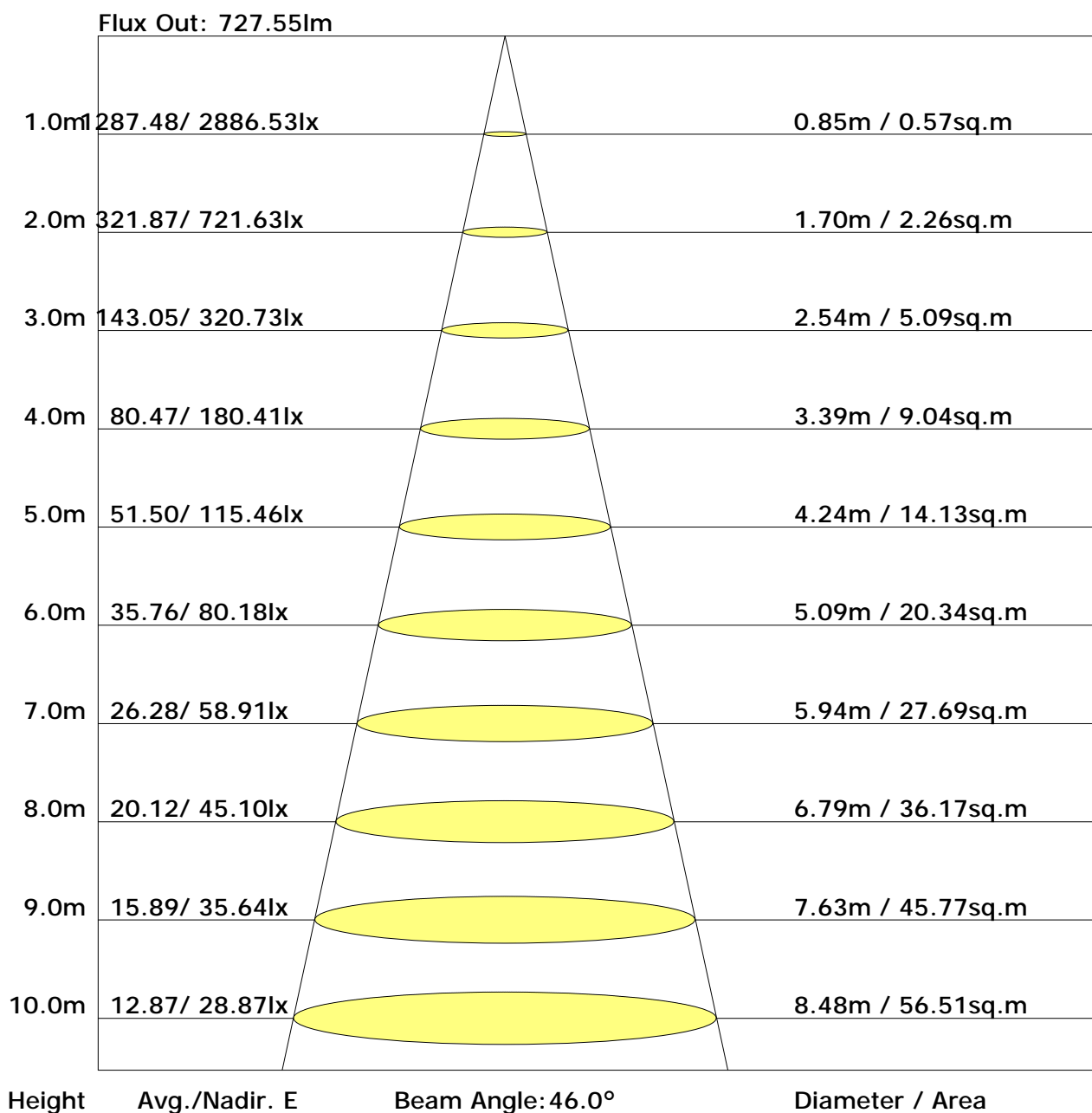
Unit: lm

| Vertical plane | Horizontal plane | | | | | | | | | | | | | | | | | | |
|----------------|------------------|-----|-----|------|------|------|-------|-------|--------|--------|-------|-------|------|------|------|-----|-----|-----|------|
| | -90 | -80 | -70 | -60 | -50 | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| Flux(E) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flux(T) | 0.1 | 1.3 | 4.9 | 11.7 | 24.7 | 52.7 | 107.1 | 181.8 | 230.7 | 236.1 | 191.9 | 117.6 | 59.1 | 27.4 | 12.8 | 5.6 | 1.6 | 0.2 | 1267 |
| Flux(E) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.3 | 84.8 | 160.2 | 2209.2 | 2214.7 | 170.6 | 95.7 | 34.8 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 997 |

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:

The Average Illuminance Effective Figure



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 | 9.3 | 10.4 | 9.7 | 10.7 | 11.1 | 5.6 | 6.6 | 6.0 | 7.0 | 7.4 |
| 3H | 10.4 | 11.3 | 10.8 | 11.7 | 12.1 | 6.3 | 7.3 | 6.8 | 7.6 | 8.1 |
| 4H | 10.7 | 11.5 | 11.1 | 11.9 | 12.4 | 6.5 | 7.4 | 6.9 | 7.8 | 8.2 |
| 6H | 10.8 | 11.6 | 11.2 | 12.0 | 12.4 | 6.5 | 7.3 | 7.0 | 7.7 | 8.2 |
| 8H | 10.8 | 11.5 | 11.2 | 12.0 | 12.4 | 6.5 | 7.3 | 7.0 | 7.7 | 8.2 |
| 12H | 10.8 | 11.5 | 11.2 | 11.9 | 12.4 | 6.5 | 7.2 | 7.0 | 7.6 | 8.1 |
| X=4H Y=2H | 9.2 | 10.1 | 9.7 | 10.5 | 10.9 | 6.1 | 7.0 | 6.6 | 7.4 | 7.8 |
| 3H | 10.4 | 11.1 | 10.8 | 11.5 | 12.0 | 7.0 | 7.7 | 7.4 | 8.1 | 8.6 |
| 4H | 10.7 | 11.3 | 11.1 | 11.8 | 12.3 | 7.2 | 7.8 | 7.7 | 8.3 | 8.8 |
| 6H | 10.8 | 11.4 | 11.3 | 11.9 | 12.4 | 7.3 | 7.8 | 7.8 | 8.3 | 8.8 |
| 8H | 10.8 | 11.3 | 11.3 | 11.8 | 12.3 | 7.3 | 7.8 | 7.8 | 8.3 | 8.8 |
| 12H | 10.8 | 11.3 | 11.3 | 11.8 | 12.3 | 7.2 | 7.7 | 7.8 | 8.2 | 8.7 |
| X=8H Y=4H | 10.6 | 11.1 | 11.1 | 11.5 | 12.1 | 7.3 | 7.8 | 7.8 | 8.3 | 8.8 |
| 6H | 10.7 | 11.1 | 11.3 | 11.7 | 12.2 | 7.4 | 7.9 | 8.0 | 8.4 | 8.9 |
| 8H | 10.7 | 11.1 | 11.3 | 11.6 | 12.2 | 7.4 | 7.8 | 8.0 | 8.4 | 8.9 |
| 12H | 10.7 | 11.0 | 11.3 | 11.6 | 12.2 | 7.4 | 7.8 | 8.0 | 8.3 | 8.9 |
| X=12H Y=4H | 10.5 | 10.9 | 11.0 | 11.5 | 12.0 | 7.3 | 7.7 | 7.8 | 8.3 | 8.8 |
| 6H | 10.7 | 11.0 | 11.2 | 11.5 | 12.1 | 7.4 | 7.8 | 8.0 | 8.3 | 8.9 |
| 8H | 10.7 | 11.0 | 11.2 | 11.5 | 12.2 | 7.5 | 7.8 | 8.0 | 8.3 | 8.9 |

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 | 0.84 | 0.90 | 0.94 | 0.97 | 1.02 | 1.04 | 1.06 | 1.09 | 1.10 |
| | 0.30 | | 0.79 | 0.85 | 0.90 | 0.93 | 0.98 | 1.01 | 1.03 | 1.06 | 1.08 |
| | 0.20 | | 0.75 | 0.82 | 0.86 | 0.90 | 0.95 | 0.98 | 1.01 | 1.04 | 1.07 |
| 0.50 | 0.50 | 0.20 | 0.82 | 0.88 | 0.92 | 0.95 | 0.99 | 1.01 | 1.03 | 1.05 | 1.06 |
| | 0.30 | | 0.78 | 0.84 | 0.88 | 0.91 | 0.96 | 0.98 | 1.00 | 1.03 | 1.04 |
| | 0.20 | | 0.75 | 0.81 | 0.85 | 0.89 | 0.93 | 0.96 | 0.98 | 1.01 | 1.03 |
| 0.30 | 0.50 | 0.20 | 0.81 | 0.86 | 0.90 | 0.92 | 0.96 | 0.98 | 0.99 | 1.01 | 1.02 |
| | 0.30 | | 0.77 | 0.83 | 0.87 | 0.89 | 0.93 | 0.96 | 0.97 | 0.99 | 1.01 |
| | 0.20 | | 0.74 | 0.80 | 0.84 | 0.87 | 0.91 | 0.94 | 0.96 | 0.98 | 1.00 |
| 0.00 | 0.00 | 0.00 | 0.72 | 0.78 | 0.82 | 0.84 | 0.88 | 0.90 | 0.91 | 0.93 | 0.95 |
| Rating: 33W 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 | 0.60 | 0.49 | 0.42 | 0.36 | 0.28 | 0.23 | 0.20 | 0.15 | 0.13 |
| | 0.30 | | 0.50 | 0.42 | 0.36 | 0.32 | 0.26 | 0.22 | 0.18 | 0.15 | 0.12 |
| | 0.20 | | 0.43 | 0.37 | 0.32 | 0.28 | 0.23 | 0.20 | 0.17 | 0.14 | 0.11 |
| 0.50 | 0.50 | 0.20 | 0.57 | 0.46 | 0.39 | 0.33 | 0.26 | 0.26 | 0.18 | 0.14 | 0.11 |
| | 0.30 | | 0.49 | 0.40 | 0.34 | 0.30 | 0.24 | 0.20 | 0.17 | 0.13 | 0.11 |
| | 0.20 | | 0.42 | 0.35 | 0.31 | 0.27 | 0.22 | 0.19 | 0.16 | 0.13 | 0.11 |
| 0.30 | 0.50 | 0.20 | 0.55 | 0.43 | 0.36 | 0.31 | 0.24 | 0.20 | 0.17 | 0.13 | 0.11 |
| | 0.30 | | 0.47 | 0.38 | 0.33 | 0.28 | 0.22 | 0.19 | 0.16 | 0.12 | 0.10 |
| | 0.20 | | 0.41 | 0.34 | 0.29 | 0.26 | 0.21 | 0.17 | 0.15 | 0.12 | 0.10 |
| 0.00 | 0.00 | 0.00 | 0.27 | 0.22 | 0.18 | 0.15 | 0.12 | 0.10 | 0.08 | 0.06 | 0.05 |
| Rating: 33W 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 | 0.15 | 0.16 | 0.18 | 0.19 | 0.20 | 0.21 | 0.21 | 0.22 | 0.23 |
| | 0.30 | | 0.11 | 0.13 | 0.14 | 0.15 | 0.17 | 0.18 | 0.19 | 0.21 | 0.21 |
| | 0.20 | | 0.08 | 0.10 | 0.11 | 0.13 | 0.15 | 0.16 | 0.17 | 0.19 | 0.20 |
| 0.50 | 0.50 | 0.20 | 0.14 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.21 | 0.22 |
| | 0.30 | | 0.11 | 0.12 | 0.14 | 0.15 | 0.16 | 0.18 | 0.19 | 0.20 | 0.21 |
| | 0.20 | | 0.08 | 0.10 | 0.11 | 0.12 | 0.14 | 0.16 | 0.17 | 0.18 | 0.19 |
| 0.30 | 0.50 | 0.20 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.20 | 0.21 |
| | 0.30 | | 0.10 | 0.12 | 0.13 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 |
| | 0.20 | | 0.08 | 0.09 | 0.11 | 0.12 | 0.14 | 0.15 | 0.16 | 0.18 | 0.19 |
| 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Rating: 33W 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 | 2822.0 | 2.7 | 2.7 | 0.21 | 0.21 |
| 1.0-2.0 | 2800.3 | 8.0 | 10.7 | 0.62 | 0.83 |
| 2.0-3.0 | 2758.0 | 13.2 | 23.9 | 1.02 | 1.85 |
| 3.0-4.0 | 2698.0 | 18.1 | 42.0 | 1.40 | 3.25 |
| 4.0-5.0 | 2620.9 | 22.5 | 64.5 | 1.75 | 5.00 |
| 5.0-6.0 | 2528.8 | 26.6 | 91.1 | 2.06 | 7.06 |
| 6.0-7.0 | 2425.8 | 30.1 | 121.2 | 2.33 | 9.39 |
| 7.0-8.0 | 2313.8 | 33.1 | 154.4 | 2.57 | 11.96 |
| 8.0-9.0 | 2195.1 | 35.6 | 189.9 | 2.76 | 14.71 |
| 9.0-10.0 | 2074.2 | 37.5 | 227.5 | 2.91 | 17.62 |
| 10.0-11.0 | 1952.6 | 39.0 | 266.5 | 3.02 | 20.64 |
| 11.0-12.0 | 1831.6 | 40.0 | 306.5 | 3.10 | 23.74 |
| 12.0-13.0 | 1713.3 | 40.7 | 347.2 | 3.15 | 26.89 |
| 13.0-14.0 | 1599.0 | 40.9 | 388.1 | 3.17 | 30.06 |
| 14.0-15.0 | 1487.8 | 40.9 | 429.0 | 3.16 | 33.23 |
| 15.0-16.0 | 1381.6 | 40.5 | 469.5 | 3.14 | 36.36 |
| 16.0-17.0 | 1282.2 | 39.9 | 509.4 | 3.09 | 39.46 |
| 17.0-18.0 | 1186.5 | 39.1 | 548.5 | 3.03 | 42.49 |
| 18.0-19.0 | 1095.3 | 38.1 | 586.7 | 2.95 | 45.44 |
| 19.0-20.0 | 1010.6 | 37.0 | 623.6 | 2.87 | 48.31 |
| 20.0-21.0 | 931.1 | 35.8 | 659.4 | 2.77 | 51.07 |
| 21.0-22.0 | 856.1 | 34.4 | 693.8 | 2.67 | 53.74 |
| 22.0-23.0 | 786.5 | 33.0 | 726.8 | 2.56 | 56.30 |
| 23.0-24.0 | 721.5 | 31.5 | 758.4 | 2.44 | 58.74 |
| 24.0-25.0 | 660.9 | 30.1 | 788.4 | 2.33 | 61.07 |
| 25.0-26.0 | 605.5 | 28.6 | 817.0 | 2.21 | 63.28 |
| 26.0-27.0 | 554.5 | 27.1 | 844.1 | 2.10 | 65.38 |
| 27.0-28.0 | 507.0 | 25.7 | 869.8 | 1.99 | 67.37 |
| 28.0-29.0 | 463.7 | 24.3 | 894.1 | 1.88 | 69.25 |
| 29.0-30.0 | 424.0 | 22.9 | 917.0 | 1.77 | 71.02 |
| 30.0-31.0 | 387.5 | 21.6 | 938.5 | 1.67 | 72.69 |
| 31.0-32.0 | 354.1 | 20.3 | 958.8 | 1.57 | 74.27 |
| 32.0-33.0 | 323.8 | 19.1 | 977.9 | 1.48 | 75.74 |
| 33.0-34.0 | 296.0 | 17.9 | 995.8 | 1.39 | 77.13 |
| 34.0-35.0 | 270.8 | 16.8 | 1012.6 | 1.30 | 78.43 |
| 35.0-36.0 | 248.1 | 15.8 | 1028.4 | 1.22 | 79.66 |

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 | 227.5 | 14.8 | 1043.3 | 1.15 | 80.81 |
| 37.0-38.0 | 208.9 | 13.9 | 1057.2 | 1.08 | 81.89 |
| 38.0-39.0 | 192.2 | 13.1 | 1070.3 | 1.02 | 82.90 |
| 39.0-40.0 | 176.9 | 12.3 | 1082.7 | 0.96 | 83.86 |
| 40.0-41.0 | 163.0 | 11.6 | 1094.3 | 0.90 | 84.76 |
| 41.0-42.0 | 150.5 | 10.9 | 1105.2 | 0.85 | 85.61 |
| 42.0-43.0 | 139.1 | 10.3 | 1115.5 | 0.80 | 86.40 |
| 43.0-44.0 | 128.8 | 9.7 | 1125.3 | 0.75 | 87.16 |
| 44.0-45.0 | 119.4 | 9.2 | 1134.4 | 0.71 | 87.87 |
| 45.0-46.0 | 110.7 | 8.7 | 1143.1 | 0.67 | 88.54 |
| 46.0-47.0 | 102.8 | 8.2 | 1151.3 | 0.63 | 89.17 |
| 47.0-48.0 | 95.6 | 7.7 | 1159.0 | 0.60 | 89.77 |
| 48.0-49.0 | 89.0 | 7.3 | 1166.3 | 0.57 | 90.34 |
| 49.0-50.0 | 82.9 | 6.9 | 1173.2 | 0.54 | 90.87 |
| 50.0-51.0 | 77.2 | 6.5 | 1179.7 | 0.51 | 91.38 |
| 51.0-52.0 | 71.9 | 6.2 | 1185.9 | 0.48 | 91.86 |
| 52.0-53.0 | 67.1 | 5.8 | 1191.8 | 0.45 | 92.31 |
| 53.0-54.0 | 62.6 | 5.5 | 1197.3 | 0.43 | 92.74 |
| 54.0-55.0 | 58.4 | 5.2 | 1202.5 | 0.40 | 93.14 |
| 55.0-56.0 | 54.6 | 4.9 | 1207.4 | 0.38 | 93.52 |
| 56.0-57.0 | 50.9 | 4.7 | 1212.1 | 0.36 | 93.88 |
| 57.0-58.0 | 47.4 | 4.4 | 1216.5 | 0.34 | 94.22 |
| 58.0-59.0 | 44.2 | 4.1 | 1220.6 | 0.32 | 94.54 |
| 59.0-60.0 | 41.2 | 3.9 | 1224.5 | 0.30 | 94.84 |
| 60.0-61.0 | 38.2 | 3.7 | 1228.1 | 0.28 | 95.13 |
| 61.0-62.0 | 35.6 | 3.4 | 1231.6 | 0.27 | 95.39 |
| 62.0-63.0 | 33.1 | 3.2 | 1234.8 | 0.25 | 95.64 |
| 63.0-64.0 | 30.7 | 3.0 | 1237.8 | 0.23 | 95.87 |
| 64.0-65.0 | 28.6 | 2.8 | 1240.6 | 0.22 | 96.09 |
| 65.0-66.0 | 26.5 | 2.6 | 1243.3 | 0.21 | 96.30 |
| 66.0-67.0 | 24.6 | 2.5 | 1245.7 | 0.19 | 96.49 |
| 67.0-68.0 | 22.8 | 2.3 | 1248.1 | 0.18 | 96.67 |
| 68.0-69.0 | 21.0 | 2.1 | 1250.2 | 0.17 | 96.83 |
| 69.0-70.0 | 19.3 | 2.0 | 1252.2 | 0.15 | 96.99 |
| 70.0-71.0 | 17.6 | 1.8 | 1254.0 | 0.14 | 97.13 |
| 71.0-72.0 | 16.0 | 1.7 | 1255.7 | 0.13 | 97.26 |

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 | 14.4 | 1.5 | 1257.2 | 0.12 | 97.37 |
| 73.0-74.0 | 13.0 | 1.4 | 1258.5 | 0.11 | 97.48 |
| 74.0-75.0 | 11.6 | 1.2 | 1259.8 | 0.10 | 97.58 |
| 75.0-76.0 | 10.4 | 1.1 | 1260.9 | 0.09 | 97.66 |
| 76.0-77.0 | 9.2 | 1.0 | 1261.9 | 0.08 | 97.74 |
| 77.0-78.0 | 8.2 | 0.9 | 1262.7 | 0.07 | 97.81 |
| 78.0-79.0 | 7.2 | 0.8 | 1263.5 | 0.06 | 97.87 |
| 79.0-80.0 | 6.3 | 0.7 | 1264.2 | 0.05 | 97.92 |
| 80.0-81.0 | 5.4 | 0.6 | 1264.8 | 0.05 | 97.96 |
| 81.0-82.0 | 4.7 | 0.5 | 1265.3 | 0.04 | 98.00 |
| 82.0-83.0 | 4.0 | 0.4 | 1265.7 | 0.03 | 98.04 |
| 83.0-84.0 | 3.4 | 0.4 | 1266.1 | 0.03 | 98.06 |
| 84.0-85.0 | 3.0 | 0.3 | 1266.4 | 0.03 | 98.09 |
| 85.0-86.0 | 2.6 | 0.3 | 1266.7 | 0.02 | 98.11 |
| 86.0-87.0 | 2.4 | 0.3 | 1267.0 | 0.02 | 98.13 |
| 87.0-88.0 | 2.3 | 0.2 | 1267.2 | 0.02 | 98.15 |
| 88.0-89.0 | 2.2 | 0.2 | 1267.4 | 0.02 | 98.17 |
| 89.0-90.0 | 2.1 | 0.2 | 1267.7 | 0.02 | 98.19 |
| 90.0-91.0 | 2.1 | 0.2 | 1267.9 | 0.02 | 98.21 |
| 91.0-92.0 | 2.1 | 0.2 | 1268.1 | 0.02 | 98.22 |
| 92.0-93.0 | 2.1 | 0.2 | 1268.3 | 0.02 | 98.24 |
| 93.0-94.0 | 2.1 | 0.2 | 1268.6 | 0.02 | 98.26 |
| 94.0-95.0 | 2.0 | 0.2 | 1268.8 | 0.02 | 98.28 |
| 95.0-96.0 | 2.0 | 0.2 | 1269.0 | 0.02 | 98.29 |
| 96.0-97.0 | 2.0 | 0.2 | 1269.2 | 0.02 | 98.31 |
| 97.0-98.0 | 2.0 | 0.2 | 1269.5 | 0.02 | 98.33 |
| 98.0-99.0 | 2.0 | 0.2 | 1269.7 | 0.02 | 98.34 |
| 99.0-100.0 | 2.0 | 0.2 | 1269.9 | 0.02 | 98.36 |
| 100.0-101.0 | 2.0 | 0.2 | 1270.1 | 0.02 | 98.38 |
| 101.0-102.0 | 1.9 | 0.2 | 1270.3 | 0.02 | 98.39 |
| 102.0-103.0 | 1.9 | 0.2 | 1270.5 | 0.02 | 98.41 |
| 103.0-104.0 | 1.9 | 0.2 | 1270.7 | 0.02 | 98.42 |
| 104.0-105.0 | 1.9 | 0.2 | 1270.9 | 0.02 | 98.44 |
| 105.0-106.0 | 1.9 | 0.2 | 1271.1 | 0.02 | 98.46 |
| 106.0-107.0 | 2.0 | 0.2 | 1271.3 | 0.02 | 98.47 |
| 107.0-108.0 | 2.0 | 0.2 | 1271.5 | 0.02 | 98.49 |

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 3)

| Gamma [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Zonal Flux [lm] | Rel Zonal Flux [%] | Sum Rel Zonal Flux [%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 108.0-109.0 | 2.0 | 0.2 | 1271.7 | 0.02 | 98.50 |
| 109.0-110.0 | 2.0 | 0.2 | 1272.0 | 0.02 | 98.52 |
| 110.0-111.0 | 2.0 | 0.2 | 1272.2 | 0.02 | 98.54 |
| 111.0-112.0 | 2.1 | 0.2 | 1272.4 | 0.02 | 98.55 |
| 112.0-113.0 | 2.1 | 0.2 | 1272.6 | 0.02 | 98.57 |
| 113.0-114.0 | 2.2 | 0.2 | 1272.8 | 0.02 | 98.59 |
| 114.0-115.0 | 2.2 | 0.2 | 1273.0 | 0.02 | 98.60 |
| 115.0-116.0 | 2.2 | 0.2 | 1273.2 | 0.02 | 98.62 |
| 116.0-117.0 | 2.3 | 0.2 | 1273.5 | 0.02 | 98.64 |
| 117.0-118.0 | 2.4 | 0.2 | 1273.7 | 0.02 | 98.66 |
| 118.0-119.0 | 2.4 | 0.2 | 1273.9 | 0.02 | 98.67 |
| 119.0-120.0 | 2.5 | 0.2 | 1274.2 | 0.02 | 98.69 |
| 120.0-121.0 | 2.5 | 0.2 | 1274.4 | 0.02 | 98.71 |
| 121.0-122.0 | 2.6 | 0.2 | 1274.7 | 0.02 | 98.73 |
| 122.0-123.0 | 2.7 | 0.2 | 1274.9 | 0.02 | 98.75 |
| 123.0-124.0 | 2.8 | 0.3 | 1275.2 | 0.02 | 98.77 |
| 124.0-125.0 | 2.8 | 0.3 | 1275.4 | 0.02 | 98.79 |
| 125.0-126.0 | 3.0 | 0.3 | 1275.7 | 0.02 | 98.81 |
| 126.0-127.0 | 3.1 | 0.3 | 1275.9 | 0.02 | 98.83 |
| 127.0-128.0 | 3.2 | 0.3 | 1276.2 | 0.02 | 98.85 |
| 128.0-129.0 | 3.3 | 0.3 | 1276.5 | 0.02 | 98.87 |
| 129.0-130.0 | 3.4 | 0.3 | 1276.8 | 0.02 | 98.89 |
| 130.0-131.0 | 3.5 | 0.3 | 1277.1 | 0.02 | 98.92 |
| 131.0-132.0 | 3.7 | 0.3 | 1277.4 | 0.02 | 98.94 |
| 132.0-133.0 | 3.8 | 0.3 | 1277.7 | 0.02 | 98.96 |
| 133.0-134.0 | 3.9 | 0.3 | 1278.0 | 0.02 | 98.99 |
| 134.0-135.0 | 4.1 | 0.3 | 1278.3 | 0.02 | 99.01 |
| 135.0-136.0 | 4.3 | 0.3 | 1278.7 | 0.03 | 99.04 |
| 136.0-137.0 | 4.4 | 0.3 | 1279.0 | 0.03 | 99.07 |
| 137.0-138.0 | 4.6 | 0.3 | 1279.3 | 0.03 | 99.09 |
| 138.0-139.0 | 4.8 | 0.3 | 1279.7 | 0.03 | 99.12 |
| 139.0-140.0 | 5.0 | 0.4 | 1280.0 | 0.03 | 99.15 |
| 140.0-141.0 | 5.2 | 0.4 | 1280.4 | 0.03 | 99.17 |
| 141.0-142.0 | 5.4 | 0.4 | 1280.8 | 0.03 | 99.20 |
| 142.0-143.0 | 5.6 | 0.4 | 1281.1 | 0.03 | 99.23 |
| 143.0-144.0 | 5.8 | 0.4 | 1281.5 | 0.03 | 99.26 |

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 | 6.0 | 0.4 | 1281.9 | 0.03 | 99.29 |
| 145.0-146.0 | 6.2 | 0.4 | 1282.3 | 0.03 | 99.32 |
| 146.0-147.0 | 6.4 | 0.4 | 1282.7 | 0.03 | 99.35 |
| 147.0-148.0 | 6.6 | 0.4 | 1283.1 | 0.03 | 99.38 |
| 148.0-149.0 | 6.8 | 0.4 | 1283.5 | 0.03 | 99.41 |
| 149.0-150.0 | 7.0 | 0.4 | 1283.9 | 0.03 | 99.44 |
| 150.0-151.0 | 7.2 | 0.4 | 1284.2 | 0.03 | 99.47 |
| 151.0-152.0 | 7.4 | 0.4 | 1284.6 | 0.03 | 99.50 |
| 152.0-153.0 | 7.6 | 0.4 | 1285.0 | 0.03 | 99.53 |
| 153.0-154.0 | 7.8 | 0.4 | 1285.4 | 0.03 | 99.56 |
| 154.0-155.0 | 8.0 | 0.4 | 1285.8 | 0.03 | 99.59 |
| 155.0-156.0 | 8.2 | 0.4 | 1286.1 | 0.03 | 99.62 |
| 156.0-157.0 | 8.3 | 0.4 | 1286.5 | 0.03 | 99.65 |
| 157.0-158.0 | 8.5 | 0.4 | 1286.9 | 0.03 | 99.68 |
| 158.0-159.0 | 8.6 | 0.3 | 1287.2 | 0.03 | 99.70 |
| 159.0-160.0 | 8.8 | 0.3 | 1287.5 | 0.03 | 99.73 |
| 160.0-161.0 | 8.9 | 0.3 | 1287.9 | 0.03 | 99.75 |
| 161.0-162.0 | 9.0 | 0.3 | 1288.2 | 0.02 | 99.78 |
| 162.0-163.0 | 9.1 | 0.3 | 1288.5 | 0.02 | 99.80 |
| 163.0-164.0 | 9.2 | 0.3 | 1288.8 | 0.02 | 99.82 |
| 164.0-165.0 | 9.2 | 0.3 | 1289.0 | 0.02 | 99.84 |
| 165.0-166.0 | 9.3 | 0.3 | 1289.3 | 0.02 | 99.86 |
| 166.0-167.0 | 9.3 | 0.2 | 1289.5 | 0.02 | 99.88 |
| 167.0-168.0 | 9.4 | 0.2 | 1289.8 | 0.02 | 99.90 |
| 168.0-169.0 | 9.4 | 0.2 | 1290.0 | 0.02 | 99.92 |
| 169.0-170.0 | 9.5 | 0.2 | 1290.2 | 0.01 | 99.93 |
| 170.0-171.0 | 9.5 | 0.2 | 1290.3 | 0.01 | 99.94 |
| 171.0-172.0 | 9.5 | 0.2 | 1290.5 | 0.01 | 99.96 |
| 172.0-173.0 | 9.5 | 0.1 | 1290.6 | 0.01 | 99.97 |
| 173.0-174.0 | 9.5 | 0.1 | 1290.7 | 0.01 | 99.97 |
| 174.0-175.0 | 9.5 | 0.1 | 1290.8 | 0.01 | 99.98 |
| 175.0-176.0 | 9.5 | 0.1 | 1290.9 | 0.01 | 99.99 |
| 176.0-177.0 | 9.5 | 0.1 | 1291.0 | 0.00 | 99.99 |
| 177.0-178.0 | 9.5 | 0.0 | 1291.0 | 0.00 | 100.00 |
| 178.0-179.0 | 9.5 | 0.0 | 1291.1 | 0.00 | 100.00 |
| 179.0-180.0 | 9.5 | 0.0 | 1291.1 | 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: