

Report No.:

Test Time: 2020/4/28 14:25

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RBMC20241.0G-140-0.5M

Luminaire Description: RBMC20241.0G-140-0.5M

Luminous Length (mm): 50

Luminous Width (mm): 5

Luminous Height (mm): 1

Voltage: 24.0 V

Current: 0.071 A

Power: 1.69 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 244.4 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H167.7,H131.9

Vertical Diffuse Angle(10%,50%): V167.7,V129.7

Luminaire Efficacy Rating (LER): 145

Max. Intensity: 69.39 cd

Total Rated Lamp Lumens: 244.4 lm

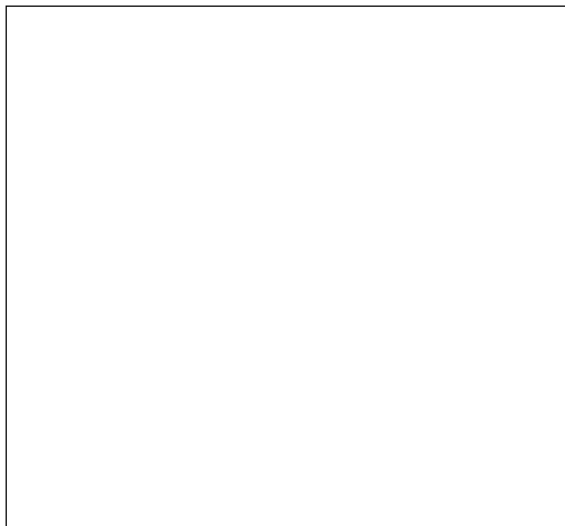
Efficiency: 100%

Upward Ratio: 1%

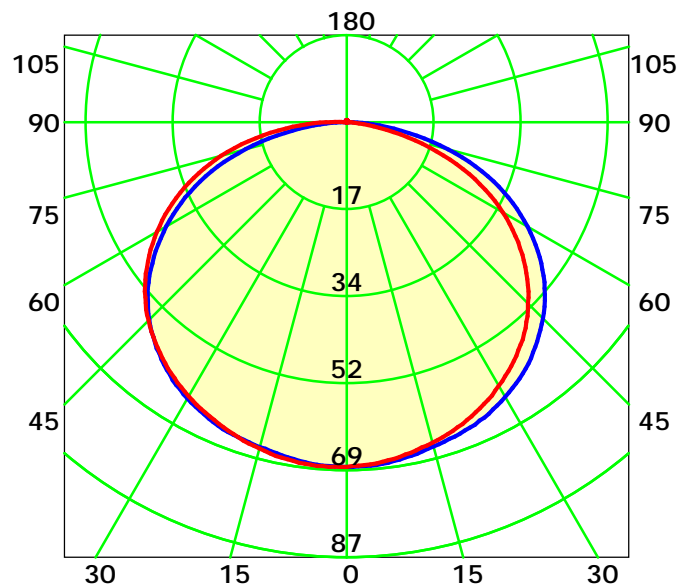
Central Intensity: 69.27 cd

Pos of Max. Intensity: H300 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 130.8° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25

Operator: Zk

Gamma Plane (°):0.0-180.0: 1.0

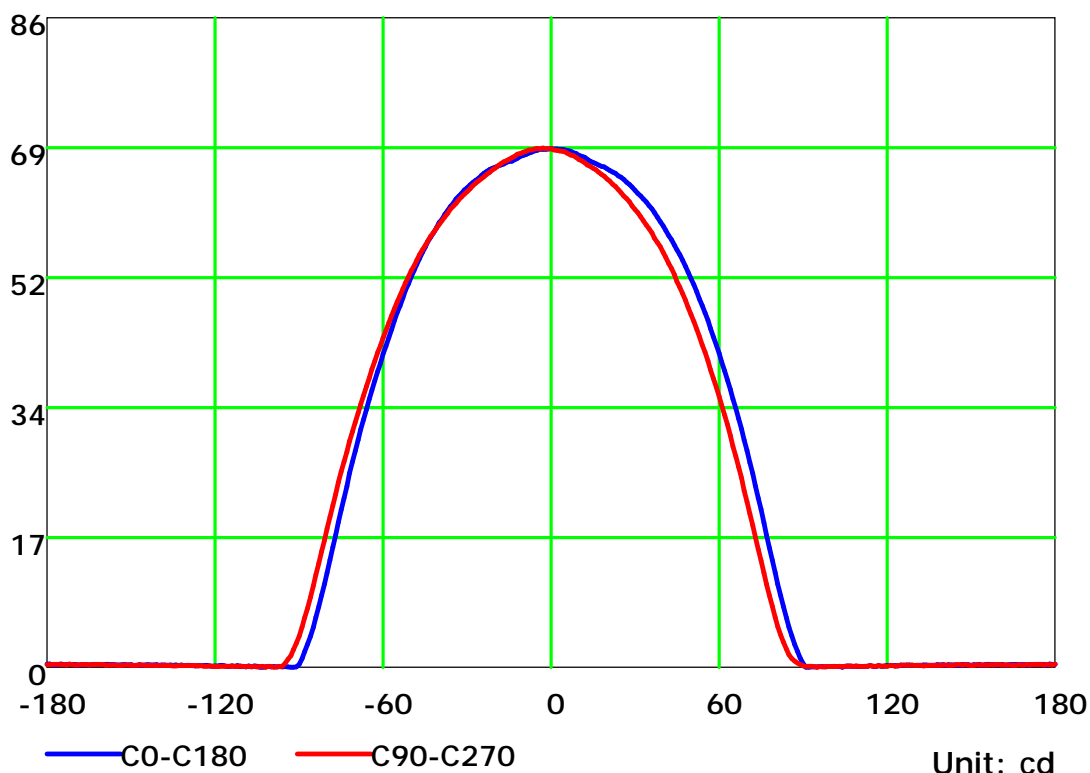
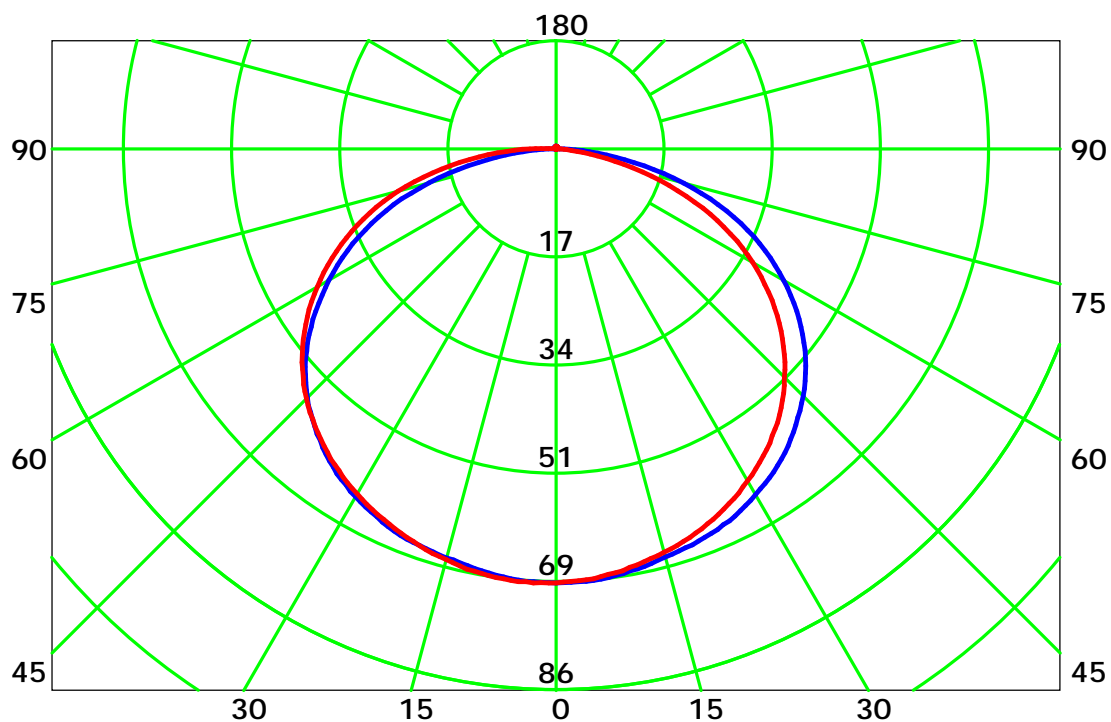
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

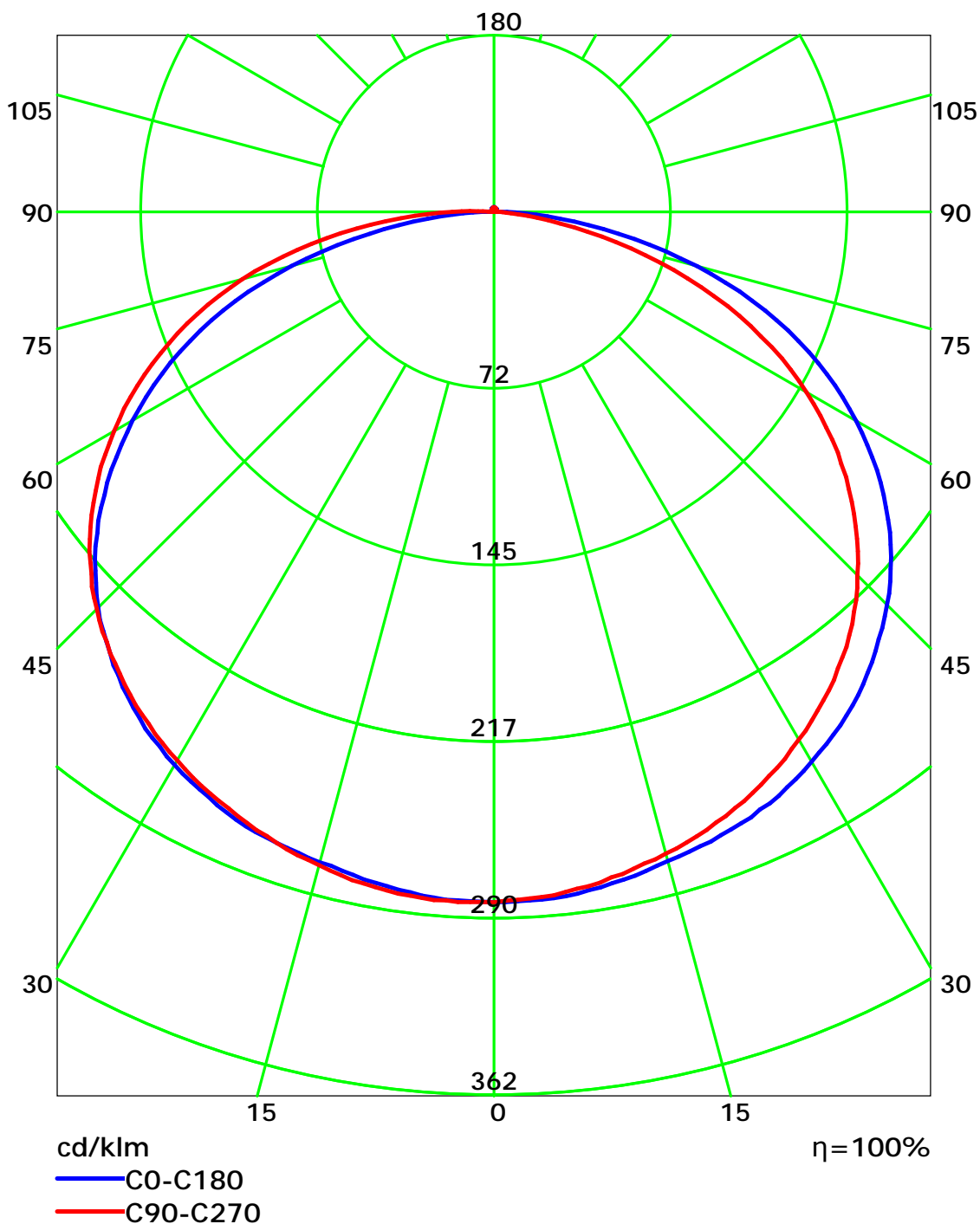
Luminous Intensity Distribution Curve



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

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: ACOLYTE
Test Type: TYPE C
Temperature: 25
Operator: Zk

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

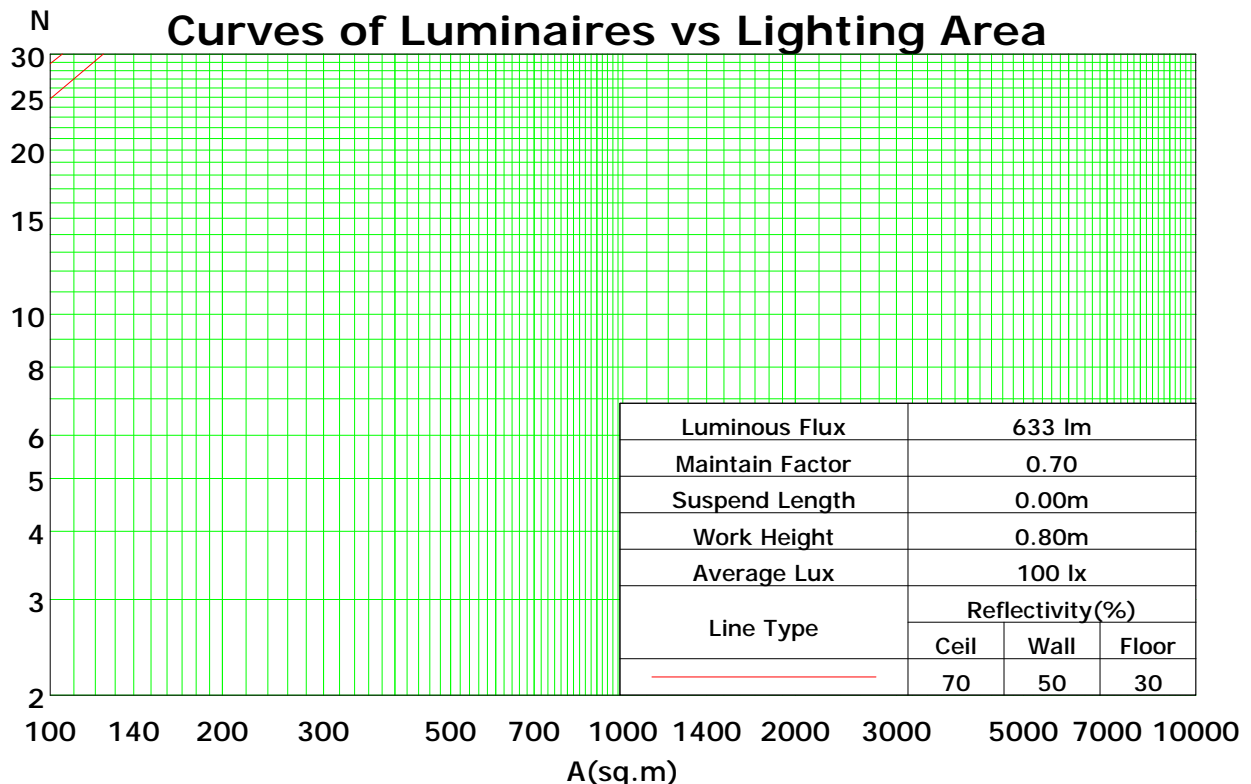
Coefficients Of Utilization - Zonal Cavity Method

| | | | | | | | | | | | | | | | | | | |
|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 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 | 111 | 111 | 111 | 106 | 106 | 106 | 101 | 101 | 101 | 99 |
| 1 | 107 | 102 | 97 | 93 | 105 | 100 | 95 | 92 | 95 | 92 | 89 | 91 | 88 | 86 | 87 | 85 | 83 | 81 |
| 2 | 97 | 88 | 80 | 74 | 94 | 86 | 79 | 73 | 82 | 76 | 71 | 79 | 74 | 70 | 75 | 72 | 68 | 66 |
| 3 | 88 | 76 | 68 | 61 | 85 | 75 | 67 | 60 | 72 | 65 | 59 | 69 | 63 | 58 | 66 | 61 | 57 | 54 |
| 4 | 80 | 67 | 58 | 51 | 77 | 66 | 57 | 50 | 63 | 55 | 49 | 61 | 54 | 49 | 58 | 53 | 48 | 45 |
| 5 | 73 | 60 | 50 | 43 | 71 | 58 | 49 | 43 | 56 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 39 |
| 6 | 67 | 53 | 44 | 37 | 65 | 52 | 43 | 37 | 50 | 42 | 37 | 49 | 41 | 36 | 47 | 41 | 36 | 34 |
| 7 | 62 | 48 | 39 | 32 | 60 | 47 | 39 | 32 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 29 |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 35 | 29 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 26 |
| 9 | 54 | 40 | 31 | 26 | 52 | 39 | 31 | 26 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 23 |
| 10 | 50 | 37 | 29 | 23 | 49 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 27 | 23 | 33 | 27 | 23 | 21 |

Spacing Criteria (0-180): 1.38

Spacing Criteria (90-270): 1.34

Spacing Criteria (Diagonal): 1.51



C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25

Operator: Zk

Gamma Plane (°):0.0-180.0: 1.0

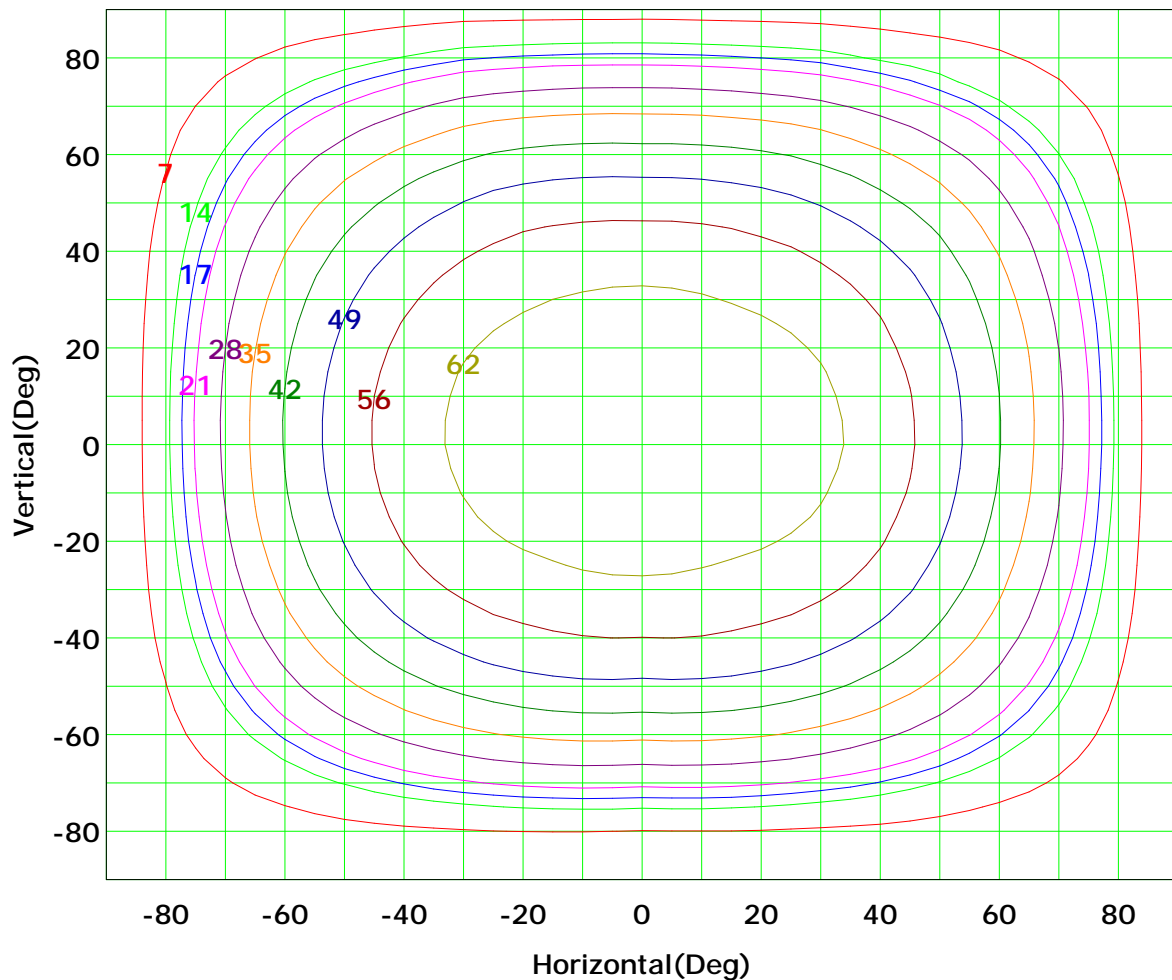
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



Imax (100%): 69 cd

| | | | |
|---------|-------|---------|-------|
| (10%): | 7 cd | (20%): | 14 cd |
| (25%): | 17 cd | (30%): | 21 cd |
| (40%): | 28 cd | (50%): | 35 cd |
| (60%): | 42 cd | (70%): | 49 cd |
| (80%): | 56 cd | (90%): | 62 cd |

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25

Operator: Zk

Gamma Plane (°):0.0-180.0:1.0

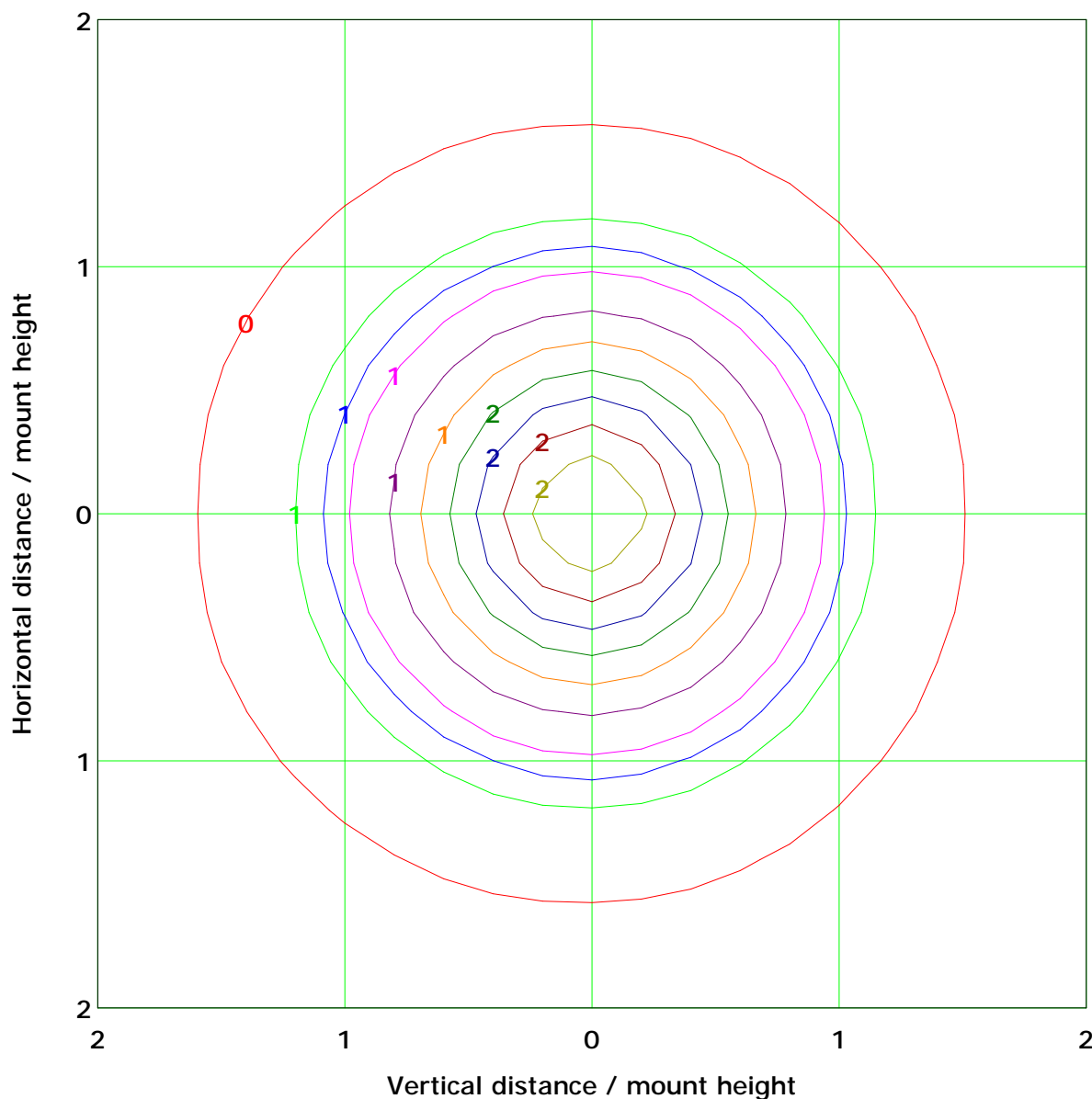
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 2.8 lx

| | |
|----------------|----------------|
| (10%): 0.3 lx | (20%): 0.6 lx |
| (25%): 0.7 lx | (30%): 0.8 lx |
| (40%): 1.1 lx | (50%): 1.4 lx |
| (60%): 1.7 lx | (70%): 1.9 lx |
| (80%): 2.2 lx | (90%): 2.5 lx |

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25

Operator: Zk

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

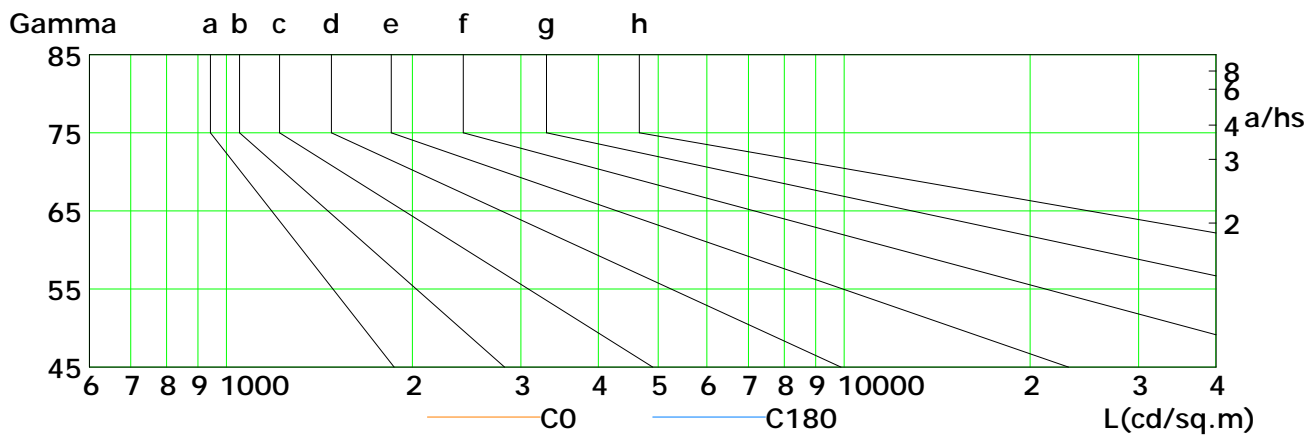
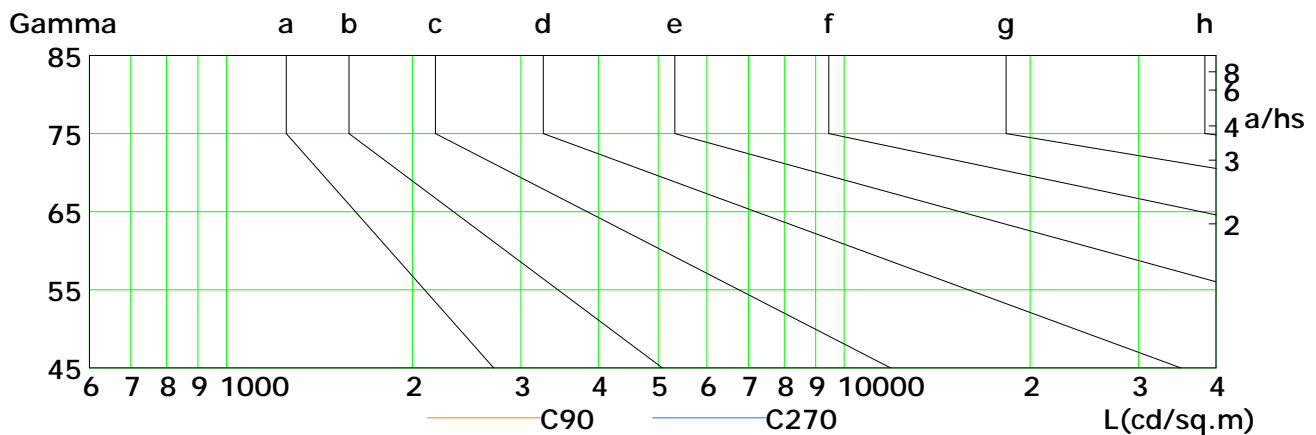
Humidity: 60%

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 | 262902 | 261006 | 256900 | 249434 | 237729 | 218734 | 187078 | 137071 | 75560 |
| C90 | 285893 | 286518 | 285579 | 280136 | 268273 | 245556 | 205366 | 139440 | 64251 |
| C180 | 264788 | 262363 | 257063 | 249018 | 237464 | 218130 | 186193 | 136748 | 75001 |
| C270 | 312624 | 322135 | 330870 | 340447 | 351133 | 363068 | 376361 | 384392 | 407921 |

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25

Operator: Zk

Gamma Plane (°):0.0-180.0: 1.0

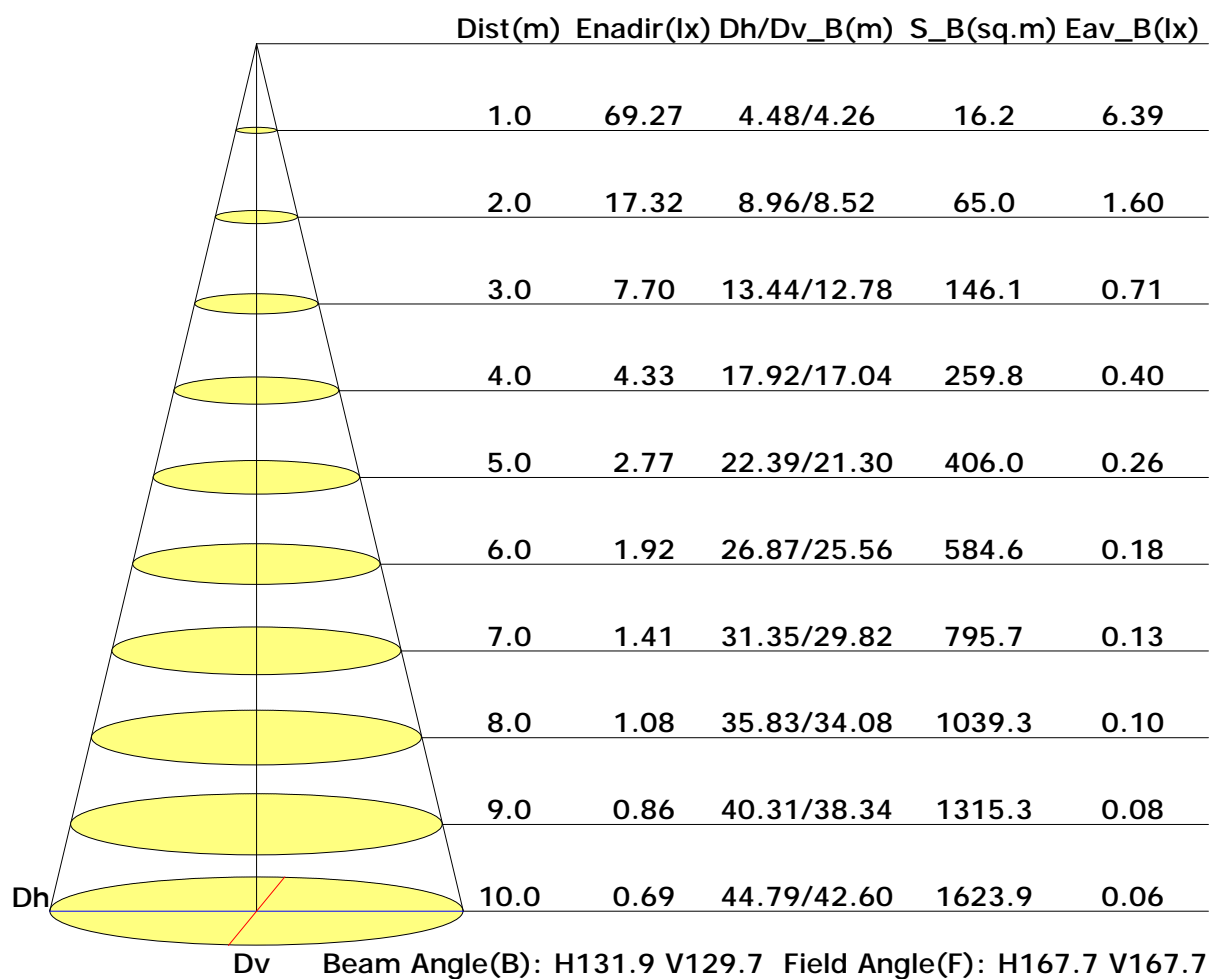
Test Device: GPM-1800B

Distance: 9.028 m

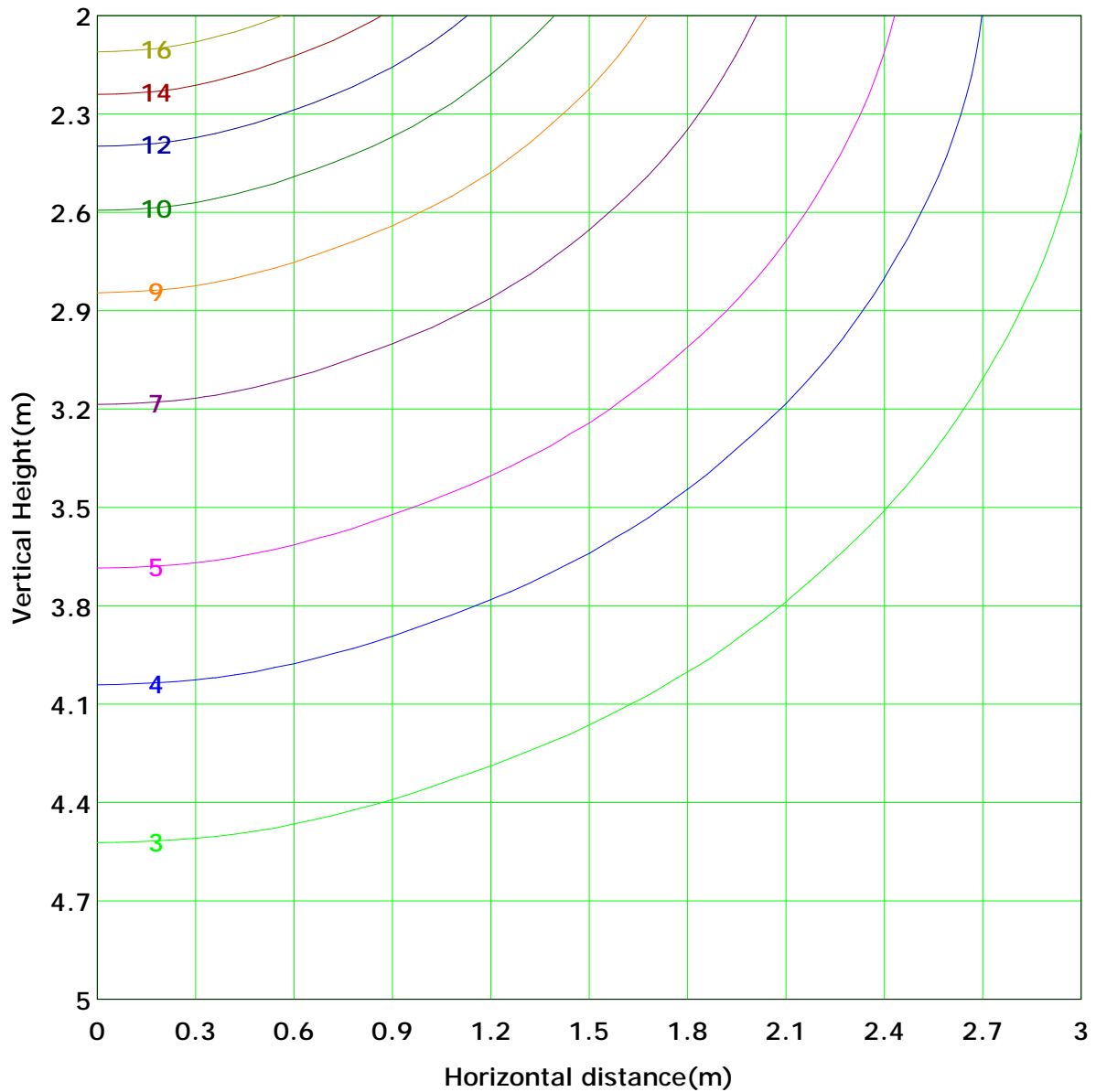
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



| | | |
|-----------------|------------------|------------------|
| Lowest(m): 2.0m | Highest(m): 5.0m | Max Lux: 17.3 lx |
| (10%): 1.7 lx | (20%): 3.5 lx | |
| (25%): 4.3 lx | (30%): 5.2 lx | |
| (40%): 6.9 lx | (50%): 8.7 lx | |
| (60%): 10.4 lx | (70%): 12.1 lx | |
| (80%): 13.9 lx | (90%): 15.6 lx | |

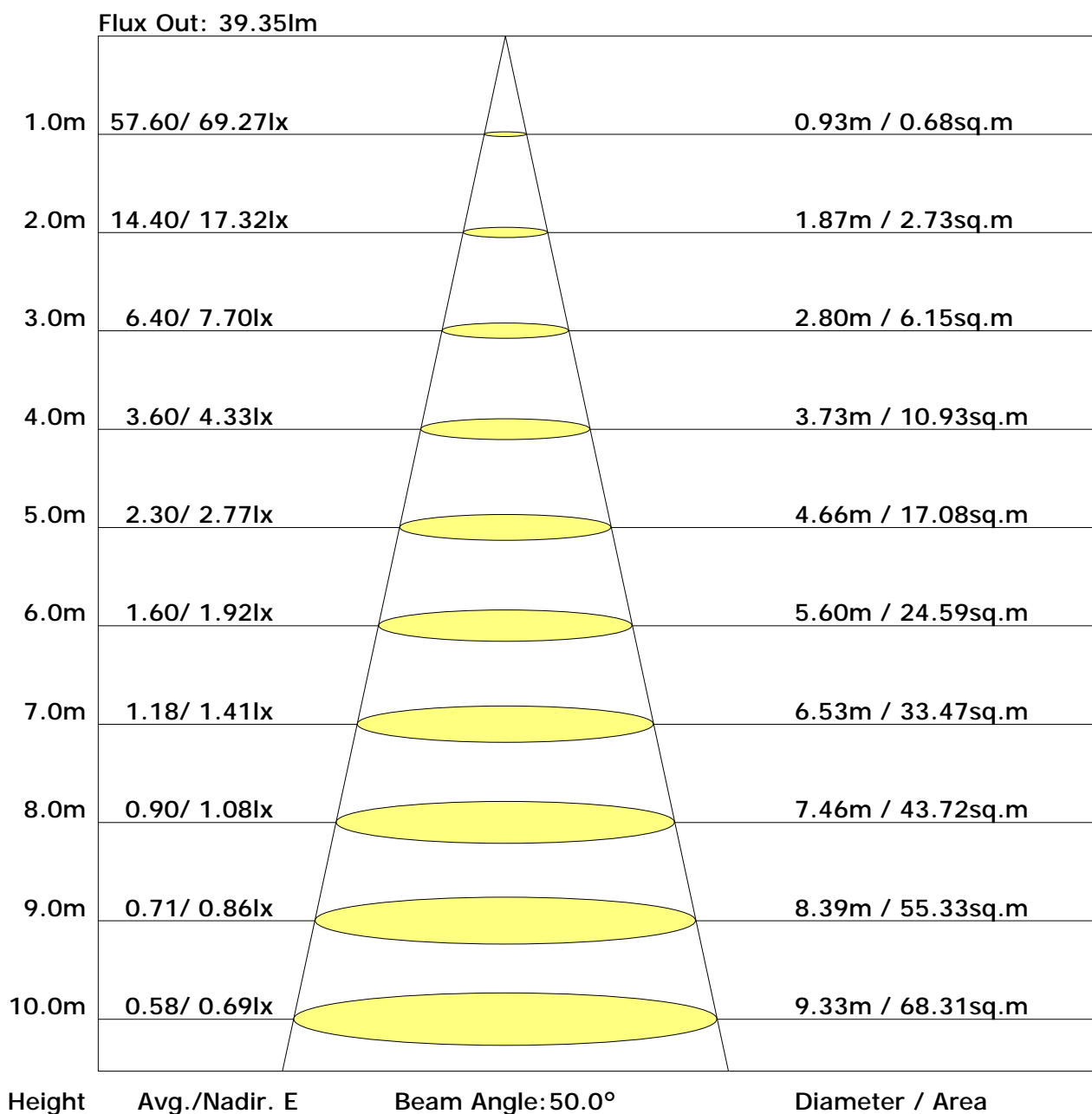
C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25
Operator: Zk

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

Unit: lm

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 | 37.1 | 38.8 | 37.5 | 39.1 | 39.5 | 35.8 | 37.5 | 36.2 | 37.9 | 38.2 |
| 3H | 39.2 | 40.8 | 39.6 | 41.1 | 41.5 | 37.5 | 39.0 | 37.8 | 39.3 | 39.7 |
| 4H | 40.0 | 41.5 | 40.4 | 41.9 | 42.3 | 37.9 | 39.4 | 38.3 | 39.8 | 40.1 |
| 6H | 40.6 | 42.0 | 41.0 | 42.4 | 42.8 | 38.1 | 39.5 | 38.6 | 39.9 | 40.3 |
| 8H | 40.8 | 42.1 | 41.2 | 42.5 | 42.9 | 38.2 | 39.5 | 38.6 | 39.9 | 40.3 |
| 12H | 40.9 | 42.2 | 41.3 | 42.6 | 43.0 | 38.2 | 39.4 | 38.6 | 39.8 | 40.2 |
| X=4H Y=2H | 37.7 | 39.2 | 38.1 | 39.5 | 39.9 | 36.6 | 38.1 | 37.0 | 38.4 | 38.8 |
| 3H | 40.1 | 41.3 | 40.5 | 41.7 | 42.1 | 38.4 | 39.7 | 38.8 | 40.1 | 40.5 |
| 4H | 41.0 | 42.1 | 41.4 | 42.6 | 43.0 | 39.0 | 40.1 | 39.4 | 40.5 | 41.0 |
| 6H | 41.7 | 42.7 | 42.2 | 43.1 | 43.6 | 39.3 | 40.3 | 39.7 | 40.7 | 41.2 |
| 8H | 41.9 | 42.9 | 42.4 | 43.3 | 43.8 | 39.3 | 40.2 | 39.8 | 40.7 | 41.2 |
| 12H | 42.1 | 42.9 | 42.6 | 43.4 | 43.9 | 39.3 | 40.2 | 39.8 | 40.6 | 41.1 |
| X=8H Y=4H | 41.3 | 42.2 | 41.8 | 42.7 | 43.2 | 39.3 | 40.2 | 39.8 | 40.7 | 41.2 |
| 6H | 42.1 | 42.9 | 42.6 | 43.4 | 43.9 | 39.6 | 40.4 | 40.2 | 40.9 | 41.4 |
| 8H | 42.4 | 43.1 | 42.9 | 43.6 | 44.1 | 39.7 | 40.4 | 40.2 | 40.9 | 41.4 |
| 12H | 42.6 | 43.2 | 43.1 | 43.7 | 44.3 | 39.8 | 40.4 | 40.3 | 40.9 | 41.4 |
| X=12H Y=4H | 41.3 | 42.2 | 41.8 | 42.7 | 43.1 | 39.4 | 40.2 | 39.8 | 40.7 | 41.2 |
| 6H | 42.2 | 42.9 | 42.7 | 43.3 | 43.9 | 39.7 | 40.4 | 40.3 | 40.9 | 41.4 |
| 8H | 42.5 | 43.1 | 43.0 | 43.6 | 44.2 | 39.8 | 40.4 | 40.3 | 40.9 | 41.5 |

Calculate in accordance with CIE 190:2010

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

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 = 1.50 | | | | | | | | |
|---|------|-------|----------------|------|------|------|------|------|------|------|------|
| 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 | 0.55 | 0.64 | 0.72 | 0.77 | 0.85 | 0.90 | 0.94 | 0.98 | 1.02 |
| | 0.30 | | 0.47 | 0.55 | 0.64 | 0.70 | 0.78 | 0.84 | 0.88 | 0.94 | 0.98 |
| | 0.20 | | 0.41 | 0.49 | 0.58 | 0.64 | 0.72 | 0.79 | 0.83 | 0.90 | 0.94 |
| 0.50 | 0.50 | 0.20 | 0.53 | 0.61 | 0.69 | 0.74 | 0.81 | 0.86 | 0.90 | 0.94 | 0.97 |
| | 0.30 | | 0.46 | 0.54 | 0.62 | 0.68 | 0.76 | 0.81 | 0.85 | 0.91 | 0.94 |
| | 0.20 | | 0.41 | 0.49 | 0.57 | 0.63 | 0.71 | 0.77 | 0.81 | 0.87 | 0.91 |
| 0.30 | 0.50 | 0.20 | 0.52 | 0.59 | 0.67 | 0.71 | 0.78 | 0.83 | 0.86 | 0.90 | 0.93 |
| | 0.30 | | 0.45 | 0.53 | 0.61 | 0.66 | 0.74 | 0.79 | 0.82 | 0.87 | 0.91 |
| | 0.20 | | 0.41 | 0.48 | 0.56 | 0.62 | 0.69 | 0.75 | 0.79 | 0.85 | 0.88 |
| 0.00 | 0.00 | 0.00 | 0.38 | 0.46 | 0.53 | 0.58 | 0.66 | 0.71 | 0.75 | 0.80 | 0.83 |
| Rating: 2W 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 = 1.50 | | | | | | | | | |
|---|------|-------|----------------|------|------|------|------|------|------|------|------|--|
| 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 | 1.02 | 0.87 | 0.74 | 0.65 | 0.52 | 0.43 | 0.37 | 0.29 | 0.24 | |
| | 0.30 | | 0.85 | 0.75 | 0.65 | 0.57 | 0.47 | 0.40 | 0.35 | 0.27 | 0.23 | |
| | 0.20 | | 0.73 | 0.65 | 0.57 | 0.51 | 0.43 | 0.37 | 0.32 | 0.26 | 0.22 | |
| 0.50 | 0.50 | 0.20 | 0.98 | 0.84 | 0.71 | 0.62 | 0.50 | 0.45 | 0.36 | 0.28 | 0.23 | |
| | 0.30 | | 0.83 | 0.73 | 0.63 | 0.56 | 0.46 | 0.38 | 0.33 | 0.26 | 0.22 | |
| | 0.20 | | 0.72 | 0.64 | 0.56 | 0.50 | 0.42 | 0.36 | 0.31 | 0.25 | 0.21 | |
| 0.30 | 0.50 | 0.20 | 0.95 | 0.81 | 0.68 | 0.60 | 0.48 | 0.40 | 0.34 | 0.27 | 0.22 | |
| | 0.30 | | 0.81 | 0.71 | 0.61 | 0.54 | 0.44 | 0.37 | 0.32 | 0.25 | 0.21 | |
| | 0.20 | | 0.71 | 0.63 | 0.55 | 0.49 | 0.41 | 0.35 | 0.30 | 0.24 | 0.20 | |
| 0.00 | 0.00 | 0.00 | 0.61 | 0.54 | 0.46 | 0.41 | 0.34 | 0.28 | 0.24 | 0.19 | 0.16 | |
| Rating: 2W 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 = 1.50 | | | | | | | | |
|---|------|-------|----------------|------|------|------|------|------|------|------|------|
| 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 | 0.17 | 0.19 | 0.19 | 0.20 | 0.21 | 0.21 | 0.22 | 0.22 | 0.23 |
| | 0.30 | | 0.10 | 0.12 | 0.13 | 0.14 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 |
| | 0.20 | | 0.05 | 0.07 | 0.08 | 0.09 | 0.11 | 0.13 | 0.14 | 0.16 | 0.17 |
| 0.50 | 0.50 | 0.20 | 0.17 | 0.18 | 0.19 | 0.19 | 0.20 | 0.21 | 0.21 | 0.21 | 0.22 |
| | 0.30 | | 0.10 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 |
| | 0.20 | | 0.05 | 0.07 | 0.08 | 0.09 | 0.11 | 0.13 | 0.14 | 0.15 | 0.17 |
| 0.30 | 0.50 | 0.20 | 0.16 | 0.17 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.20 | 0.21 |
| | 0.30 | | 0.10 | 0.11 | 0.12 | 0.13 | 0.15 | 0.16 | 0.17 | 0.18 | 0.18 |
| | 0.20 | | 0.05 | 0.07 | 0.08 | 0.09 | 0.11 | 0.12 | 0.13 | 0.15 | 0.16 |
| 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Rating: 2W 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 | 69.2 | 0.1 | 0.1 | 0.03 | 0.03 |
| 1.0-2.0 | 69.2 | 0.2 | 0.3 | 0.08 | 0.11 |
| 2.0-3.0 | 69.2 | 0.3 | 0.6 | 0.14 | 0.24 |
| 3.0-4.0 | 69.1 | 0.5 | 1.1 | 0.19 | 0.43 |
| 4.0-5.0 | 69.1 | 0.6 | 1.7 | 0.24 | 0.68 |
| 5.0-6.0 | 69.0 | 0.7 | 2.4 | 0.30 | 0.97 |
| 6.0-7.0 | 68.9 | 0.9 | 3.2 | 0.35 | 1.32 |
| 7.0-8.0 | 68.8 | 1.0 | 4.2 | 0.40 | 1.73 |
| 8.0-9.0 | 68.6 | 1.1 | 5.3 | 0.46 | 2.18 |
| 9.0-10.0 | 68.5 | 1.2 | 6.6 | 0.51 | 2.69 |
| 10.0-11.0 | 68.3 | 1.4 | 7.9 | 0.56 | 3.25 |
| 11.0-12.0 | 68.1 | 1.5 | 9.4 | 0.61 | 3.85 |
| 12.0-13.0 | 67.9 | 1.6 | 11.0 | 0.66 | 4.51 |
| 13.0-14.0 | 67.7 | 1.7 | 12.8 | 0.71 | 5.22 |
| 14.0-15.0 | 67.5 | 1.9 | 14.6 | 0.76 | 5.98 |
| 15.0-16.0 | 67.2 | 2.0 | 16.6 | 0.81 | 6.79 |
| 16.0-17.0 | 67.0 | 2.1 | 18.7 | 0.85 | 7.64 |
| 17.0-18.0 | 66.8 | 2.2 | 20.9 | 0.90 | 8.54 |
| 18.0-19.0 | 66.5 | 2.3 | 23.2 | 0.95 | 9.49 |
| 19.0-20.0 | 66.3 | 2.4 | 25.6 | 0.99 | 10.48 |
| 20.0-21.0 | 66.0 | 2.5 | 28.2 | 1.04 | 11.52 |
| 21.0-22.0 | 65.8 | 2.6 | 30.8 | 1.08 | 12.60 |
| 22.0-23.0 | 65.5 | 2.7 | 33.5 | 1.12 | 13.72 |
| 23.0-24.0 | 65.2 | 2.9 | 36.4 | 1.17 | 14.89 |
| 24.0-25.0 | 64.9 | 3.0 | 39.4 | 1.21 | 16.10 |
| 25.0-26.0 | 64.6 | 3.0 | 42.4 | 1.25 | 17.35 |
| 26.0-27.0 | 64.3 | 3.1 | 45.5 | 1.29 | 18.63 |
| 27.0-28.0 | 63.9 | 3.2 | 48.8 | 1.32 | 19.96 |
| 28.0-29.0 | 63.6 | 3.3 | 52.1 | 1.36 | 21.32 |
| 29.0-30.0 | 63.2 | 3.4 | 55.5 | 1.40 | 22.72 |
| 30.0-31.0 | 62.8 | 3.5 | 59.0 | 1.43 | 24.15 |
| 31.0-32.0 | 62.4 | 3.6 | 62.6 | 1.46 | 25.61 |
| 32.0-33.0 | 62.0 | 3.7 | 66.3 | 1.50 | 27.11 |
| 33.0-34.0 | 61.6 | 3.7 | 70.0 | 1.53 | 28.63 |
| 34.0-35.0 | 61.2 | 3.8 | 73.8 | 1.55 | 30.19 |
| 35.0-36.0 | 60.7 | 3.9 | 77.6 | 1.58 | 31.77 |

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25

Operator: Zk

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 | 60.2 | 3.9 | 81.6 | 1.61 | 33.37 |
| 37.0-38.0 | 59.7 | 4.0 | 85.6 | 1.63 | 35.00 |
| 38.0-39.0 | 59.2 | 4.0 | 89.6 | 1.65 | 36.66 |
| 39.0-40.0 | 58.7 | 4.1 | 93.7 | 1.67 | 38.33 |
| 40.0-41.0 | 58.1 | 4.1 | 97.8 | 1.69 | 40.02 |
| 41.0-42.0 | 57.5 | 4.2 | 102.0 | 1.71 | 41.73 |
| 42.0-43.0 | 56.9 | 4.2 | 106.2 | 1.72 | 43.46 |
| 43.0-44.0 | 56.2 | 4.2 | 110.5 | 1.74 | 45.19 |
| 44.0-45.0 | 55.6 | 4.3 | 114.7 | 1.75 | 46.94 |
| 45.0-46.0 | 54.9 | 4.3 | 119.0 | 1.76 | 48.70 |
| 46.0-47.0 | 54.2 | 4.3 | 123.3 | 1.76 | 50.46 |
| 47.0-48.0 | 53.4 | 4.3 | 127.7 | 1.77 | 52.23 |
| 48.0-49.0 | 52.6 | 4.3 | 132.0 | 1.77 | 54.00 |
| 49.0-50.0 | 51.9 | 4.3 | 136.3 | 1.77 | 55.77 |
| 50.0-51.0 | 51.0 | 4.3 | 140.6 | 1.77 | 57.53 |
| 51.0-52.0 | 50.2 | 4.3 | 144.9 | 1.76 | 59.29 |
| 52.0-53.0 | 49.3 | 4.3 | 149.2 | 1.75 | 61.05 |
| 53.0-54.0 | 48.3 | 4.3 | 153.5 | 1.74 | 62.79 |
| 54.0-55.0 | 47.4 | 4.2 | 157.7 | 1.73 | 64.52 |
| 55.0-56.0 | 46.4 | 4.2 | 161.9 | 1.72 | 66.24 |
| 56.0-57.0 | 45.4 | 4.2 | 166.1 | 1.70 | 67.94 |
| 57.0-58.0 | 44.4 | 4.1 | 170.2 | 1.68 | 69.61 |
| 58.0-59.0 | 43.3 | 4.0 | 174.2 | 1.66 | 71.27 |
| 59.0-60.0 | 42.2 | 4.0 | 178.2 | 1.63 | 72.90 |
| 60.0-61.0 | 41.1 | 3.9 | 182.1 | 1.60 | 74.51 |
| 61.0-62.0 | 39.9 | 3.8 | 186.0 | 1.57 | 76.08 |
| 62.0-63.0 | 38.7 | 3.8 | 189.7 | 1.54 | 77.62 |
| 63.0-64.0 | 37.5 | 3.7 | 193.4 | 1.51 | 79.13 |
| 64.0-65.0 | 36.3 | 3.6 | 197.0 | 1.47 | 80.60 |
| 65.0-66.0 | 35.0 | 3.5 | 200.5 | 1.43 | 82.02 |
| 66.0-67.0 | 33.7 | 3.4 | 203.9 | 1.38 | 83.41 |
| 67.0-68.0 | 32.3 | 3.3 | 207.1 | 1.34 | 84.75 |
| 68.0-69.0 | 30.9 | 3.2 | 210.3 | 1.29 | 86.04 |
| 69.0-70.0 | 29.5 | 3.0 | 213.3 | 1.24 | 87.28 |
| 70.0-71.0 | 28.0 | 2.9 | 216.2 | 1.19 | 88.46 |
| 71.0-72.0 | 26.6 | 2.8 | 219.0 | 1.13 | 89.59 |

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

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 | 25.0 | 2.6 | 221.6 | 1.07 | 90.66 |
| 73.0-74.0 | 23.5 | 2.5 | 224.1 | 1.01 | 91.67 |
| 74.0-75.0 | 21.9 | 2.3 | 226.4 | 0.95 | 92.62 |
| 75.0-76.0 | 20.3 | 2.2 | 228.5 | 0.88 | 93.50 |
| 76.0-77.0 | 18.7 | 2.0 | 230.5 | 0.81 | 94.31 |
| 77.0-78.0 | 17.1 | 1.8 | 232.4 | 0.75 | 95.06 |
| 78.0-79.0 | 15.5 | 1.7 | 234.0 | 0.68 | 95.74 |
| 79.0-80.0 | 13.8 | 1.5 | 235.5 | 0.61 | 96.35 |
| 80.0-81.0 | 12.2 | 1.3 | 236.8 | 0.54 | 96.89 |
| 81.0-82.0 | 10.7 | 1.2 | 238.0 | 0.47 | 97.37 |
| 82.0-83.0 | 9.3 | 1.0 | 239.0 | 0.41 | 97.78 |
| 83.0-84.0 | 7.9 | 0.9 | 239.9 | 0.35 | 98.13 |
| 84.0-85.0 | 6.7 | 0.7 | 240.6 | 0.30 | 98.43 |
| 85.0-86.0 | 5.5 | 0.6 | 241.2 | 0.24 | 98.67 |
| 86.0-87.0 | 4.4 | 0.5 | 241.7 | 0.20 | 98.87 |
| 87.0-88.0 | 3.5 | 0.4 | 242.1 | 0.16 | 99.03 |
| 88.0-89.0 | 2.7 | 0.3 | 242.3 | 0.12 | 99.15 |
| 89.0-90.0 | 1.9 | 0.2 | 242.6 | 0.09 | 99.23 |
| 90.0-91.0 | 1.4 | 0.2 | 242.7 | 0.06 | 99.29 |
| 91.0-92.0 | 1.0 | 0.1 | 242.8 | 0.04 | 99.34 |
| 92.0-93.0 | 0.6 | 0.1 | 242.9 | 0.03 | 99.37 |
| 93.0-94.0 | 0.4 | 0.0 | 242.9 | 0.02 | 99.39 |
| 94.0-95.0 | 0.3 | 0.0 | 243.0 | 0.01 | 99.40 |
| 95.0-96.0 | 0.2 | 0.0 | 243.0 | 0.01 | 99.40 |
| 96.0-97.0 | 0.1 | 0.0 | 243.0 | 0.01 | 99.41 |
| 97.0-98.0 | 0.1 | 0.0 | 243.0 | 0.01 | 99.41 |
| 98.0-99.0 | 0.1 | 0.0 | 243.0 | 0.00 | 99.42 |
| 99.0-100.0 | 0.1 | 0.0 | 243.0 | 0.01 | 99.42 |
| 100.0-101.0 | 0.1 | 0.0 | 243.0 | 0.01 | 99.43 |
| 101.0-102.0 | 0.1 | 0.0 | 243.1 | 0.01 | 99.44 |
| 102.0-103.0 | 0.1 | 0.0 | 243.1 | 0.01 | 99.44 |
| 103.0-104.0 | 0.1 | 0.0 | 243.1 | 0.01 | 99.45 |
| 104.0-105.0 | 0.2 | 0.0 | 243.1 | 0.01 | 99.46 |
| 105.0-106.0 | 0.2 | 0.0 | 243.1 | 0.01 | 99.46 |
| 106.0-107.0 | 0.2 | 0.0 | 243.1 | 0.01 | 99.47 |
| 107.0-108.0 | 0.2 | 0.0 | 243.2 | 0.01 | 99.48 |

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25

Operator: Zk

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 | 0.2 | 0.0 | 243.2 | 0.01 | 99.49 |
| 109.0-110.0 | 0.2 | 0.0 | 243.2 | 0.01 | 99.49 |
| 110.0-111.0 | 0.2 | 0.0 | 243.2 | 0.01 | 99.50 |
| 111.0-112.0 | 0.2 | 0.0 | 243.2 | 0.01 | 99.51 |
| 112.0-113.0 | 0.2 | 0.0 | 243.3 | 0.01 | 99.52 |
| 113.0-114.0 | 0.2 | 0.0 | 243.3 | 0.01 | 99.53 |
| 114.0-115.0 | 0.2 | 0.0 | 243.3 | 0.01 | 99.54 |
| 115.0-116.0 | 0.2 | 0.0 | 243.3 | 0.01 | 99.54 |
| 116.0-117.0 | 0.2 | 0.0 | 243.3 | 0.01 | 99.55 |
| 117.0-118.0 | 0.2 | 0.0 | 243.4 | 0.01 | 99.56 |
| 118.0-119.0 | 0.2 | 0.0 | 243.4 | 0.01 | 99.57 |
| 119.0-120.0 | 0.2 | 0.0 | 243.4 | 0.01 | 99.58 |
| 120.0-121.0 | 0.2 | 0.0 | 243.4 | 0.01 | 99.59 |
| 121.0-122.0 | 0.3 | 0.0 | 243.5 | 0.01 | 99.60 |
| 122.0-123.0 | 0.3 | 0.0 | 243.5 | 0.01 | 99.61 |
| 123.0-124.0 | 0.3 | 0.0 | 243.5 | 0.01 | 99.62 |
| 124.0-125.0 | 0.3 | 0.0 | 243.5 | 0.01 | 99.63 |
| 125.0-126.0 | 0.3 | 0.0 | 243.6 | 0.01 | 99.64 |
| 126.0-127.0 | 0.3 | 0.0 | 243.6 | 0.01 | 99.65 |
| 127.0-128.0 | 0.3 | 0.0 | 243.6 | 0.01 | 99.66 |
| 128.0-129.0 | 0.3 | 0.0 | 243.6 | 0.01 | 99.67 |
| 129.0-130.0 | 0.3 | 0.0 | 243.7 | 0.01 | 99.68 |
| 130.0-131.0 | 0.3 | 0.0 | 243.7 | 0.01 | 99.69 |
| 131.0-132.0 | 0.3 | 0.0 | 243.7 | 0.01 | 99.70 |
| 132.0-133.0 | 0.3 | 0.0 | 243.7 | 0.01 | 99.71 |
| 133.0-134.0 | 0.3 | 0.0 | 243.8 | 0.01 | 99.72 |
| 134.0-135.0 | 0.3 | 0.0 | 243.8 | 0.01 | 99.73 |
| 135.0-136.0 | 0.3 | 0.0 | 243.8 | 0.01 | 99.74 |
| 136.0-137.0 | 0.3 | 0.0 | 243.8 | 0.01 | 99.75 |
| 137.0-138.0 | 0.3 | 0.0 | 243.8 | 0.01 | 99.76 |
| 138.0-139.0 | 0.3 | 0.0 | 243.9 | 0.01 | 99.77 |
| 139.0-140.0 | 0.3 | 0.0 | 243.9 | 0.01 | 99.78 |
| 140.0-141.0 | 0.3 | 0.0 | 243.9 | 0.01 | 99.79 |
| 141.0-142.0 | 0.3 | 0.0 | 243.9 | 0.01 | 99.80 |
| 142.0-143.0 | 0.3 | 0.0 | 244.0 | 0.01 | 99.81 |
| 143.0-144.0 | 0.4 | 0.0 | 244.0 | 0.01 | 99.82 |

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25

Operator: Zk

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 | 0.3 | 0.0 | 244.0 | 0.01 | 99.83 |
| 145.0-146.0 | 0.4 | 0.0 | 244.0 | 0.01 | 99.84 |
| 146.0-147.0 | 0.4 | 0.0 | 244.1 | 0.01 | 99.84 |
| 147.0-148.0 | 0.4 | 0.0 | 244.1 | 0.01 | 99.85 |
| 148.0-149.0 | 0.3 | 0.0 | 244.1 | 0.01 | 99.86 |
| 149.0-150.0 | 0.3 | 0.0 | 244.1 | 0.01 | 99.87 |
| 150.0-151.0 | 0.4 | 0.0 | 244.1 | 0.01 | 99.88 |
| 151.0-152.0 | 0.4 | 0.0 | 244.1 | 0.01 | 99.88 |
| 152.0-153.0 | 0.4 | 0.0 | 244.2 | 0.01 | 99.89 |
| 153.0-154.0 | 0.4 | 0.0 | 244.2 | 0.01 | 99.90 |
| 154.0-155.0 | 0.4 | 0.0 | 244.2 | 0.01 | 99.91 |
| 155.0-156.0 | 0.4 | 0.0 | 244.2 | 0.01 | 99.91 |
| 156.0-157.0 | 0.4 | 0.0 | 244.2 | 0.01 | 99.92 |
| 157.0-158.0 | 0.4 | 0.0 | 244.3 | 0.01 | 99.93 |
| 158.0-159.0 | 0.4 | 0.0 | 244.3 | 0.01 | 99.93 |
| 159.0-160.0 | 0.4 | 0.0 | 244.3 | 0.01 | 99.94 |
| 160.0-161.0 | 0.4 | 0.0 | 244.3 | 0.01 | 99.94 |
| 161.0-162.0 | 0.4 | 0.0 | 244.3 | 0.01 | 99.95 |
| 162.0-163.0 | 0.4 | 0.0 | 244.3 | 0.01 | 99.96 |
| 163.0-164.0 | 0.4 | 0.0 | 244.3 | 0.00 | 99.96 |
| 164.0-165.0 | 0.4 | 0.0 | 244.3 | 0.00 | 99.96 |
| 165.0-166.0 | 0.4 | 0.0 | 244.4 | 0.00 | 99.97 |
| 166.0-167.0 | 0.4 | 0.0 | 244.4 | 0.00 | 99.97 |
| 167.0-168.0 | 0.4 | 0.0 | 244.4 | 0.00 | 99.98 |
| 168.0-169.0 | 0.4 | 0.0 | 244.4 | 0.00 | 99.98 |
| 169.0-170.0 | 0.4 | 0.0 | 244.4 | 0.00 | 99.98 |
| 170.0-171.0 | 0.4 | 0.0 | 244.4 | 0.00 | 99.99 |
| 171.0-172.0 | 0.4 | 0.0 | 244.4 | 0.00 | 99.99 |
| 172.0-173.0 | 0.4 | 0.0 | 244.4 | 0.00 | 99.99 |
| 173.0-174.0 | 0.4 | 0.0 | 244.4 | 0.00 | 99.99 |
| 174.0-175.0 | 0.4 | 0.0 | 244.4 | 0.00 | 100.00 |
| 175.0-176.0 | 0.4 | 0.0 | 244.4 | 0.00 | 100.00 |
| 176.0-177.0 | 0.4 | 0.0 | 244.4 | 0.00 | 100.00 |
| 177.0-178.0 | 0.4 | 0.0 | 244.4 | 0.00 | 100.00 |
| 178.0-179.0 | 0.4 | 0.0 | 244.4 | 0.00 | 100.00 |
| 179.0-180.0 | 0.4 | 0.0 | 244.4 | 0.00 | 100.00 |

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25

Operator: Zk

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector: