

Report No.:

Test Time: 2021/10/25 11:44

Luminaire Property

Luminaire Manufacturer: ACOLYTE

Luminaire Category: CHANNEL

Luminaire Description: CHAR9MRB90SWMC203.030

Luminous Length (mm): 500

Luminous Width (mm): 13.6

Luminous Height (mm): 8.9

Voltage: 24.0 V

Current: 0.201 A

Power: 4.83 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 167.7 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H160.2,H113.2

Vertical Diffuse Angle(10%,50%): V164.4,V114.2

Luminaire Efficacy Rating (LER): 35

Max. Intensity: 56.92 cd

Total Rated Lamp Lumens: 167.7 lm

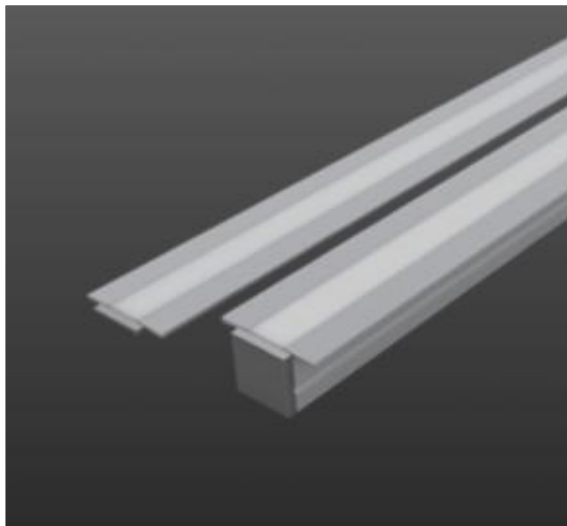
Efficiency: 100%

Upward Ratio: 1%

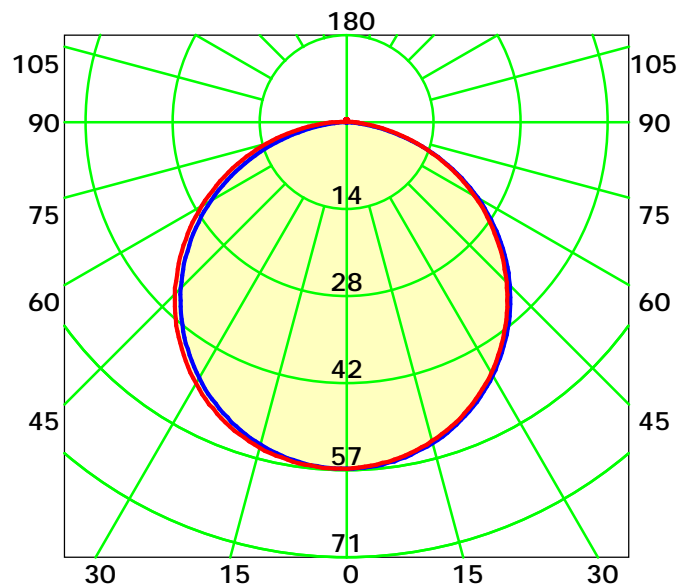
Central Intensity: 56.86 cd

Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd
Average Diffuse Angle(50%): 113.7°
— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Easy

Gamma Plane (°):0.0-180.0: 1.0

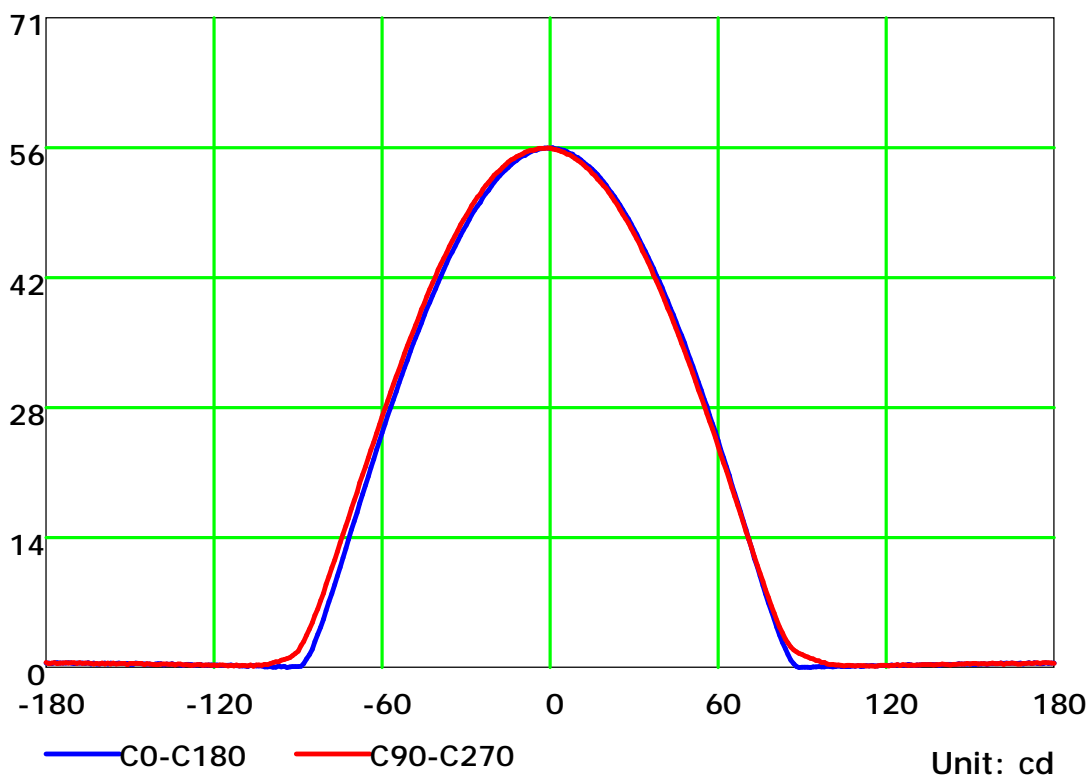
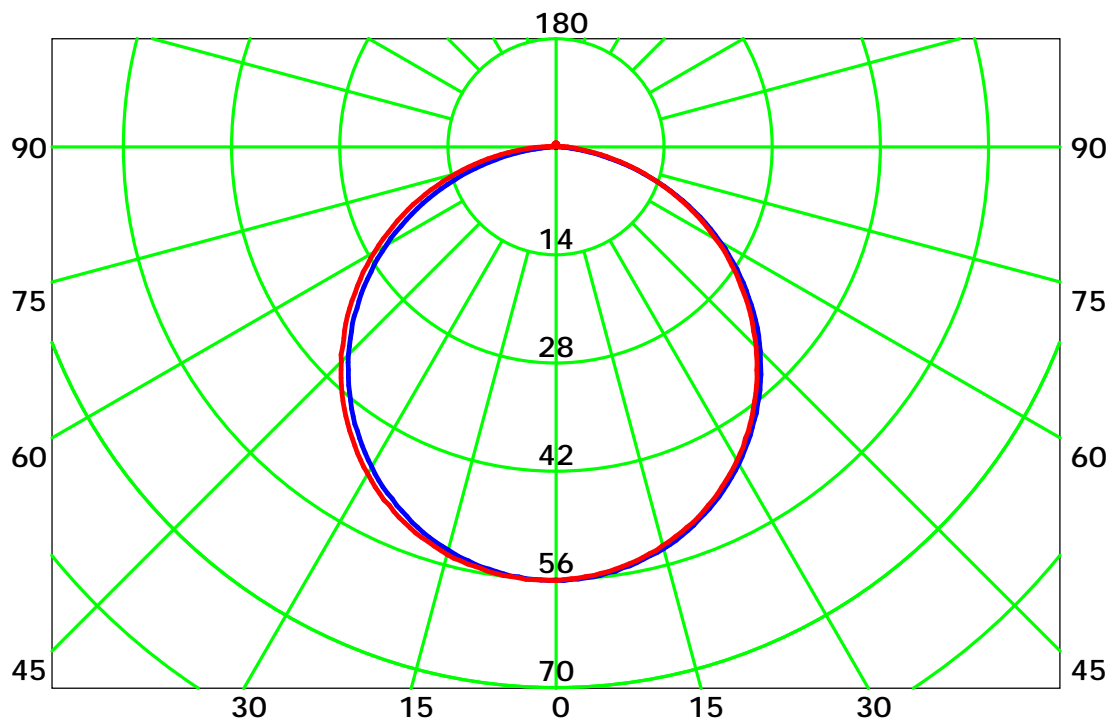
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

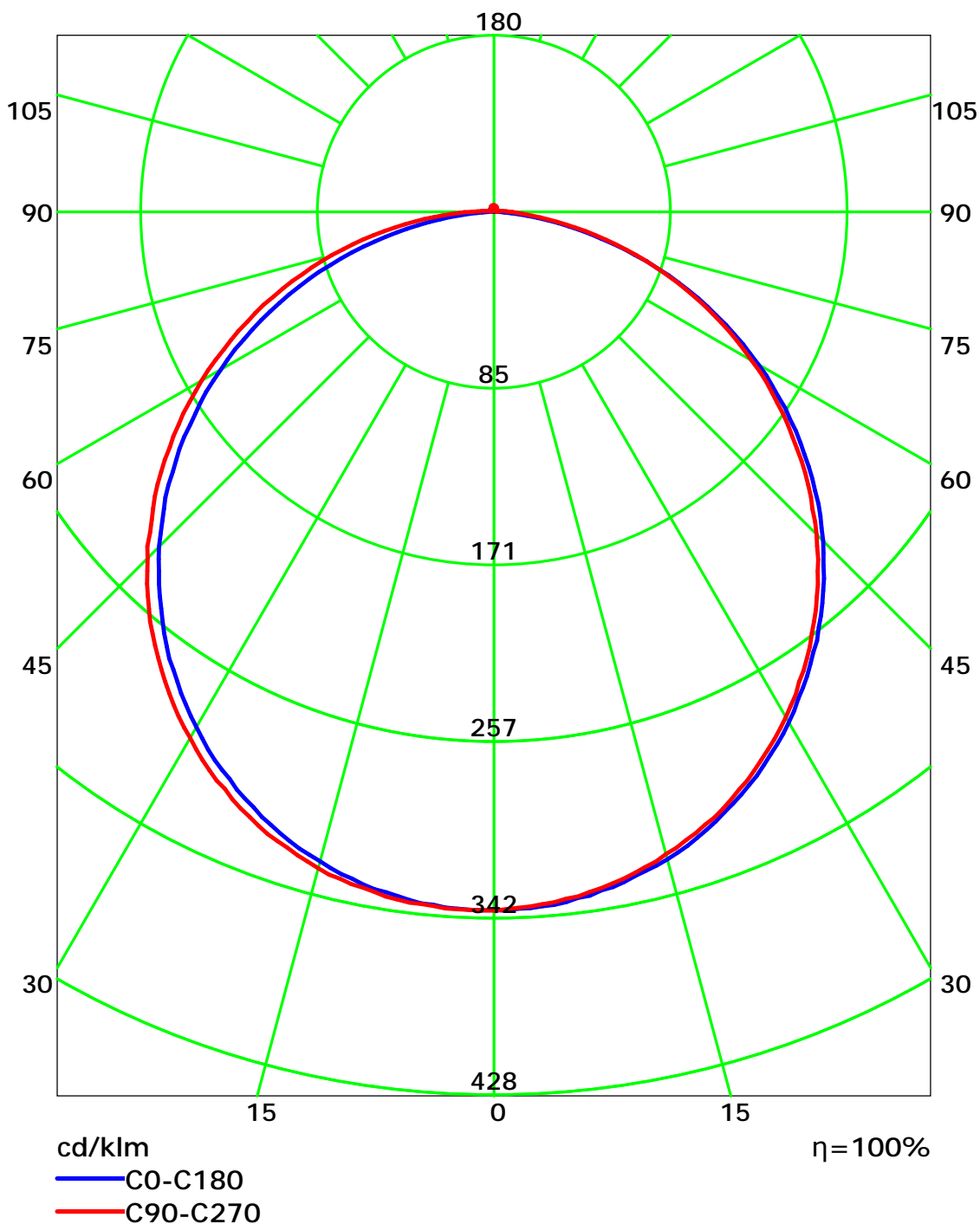
Luminous Intensity Distribution Curve



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

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: Easty

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

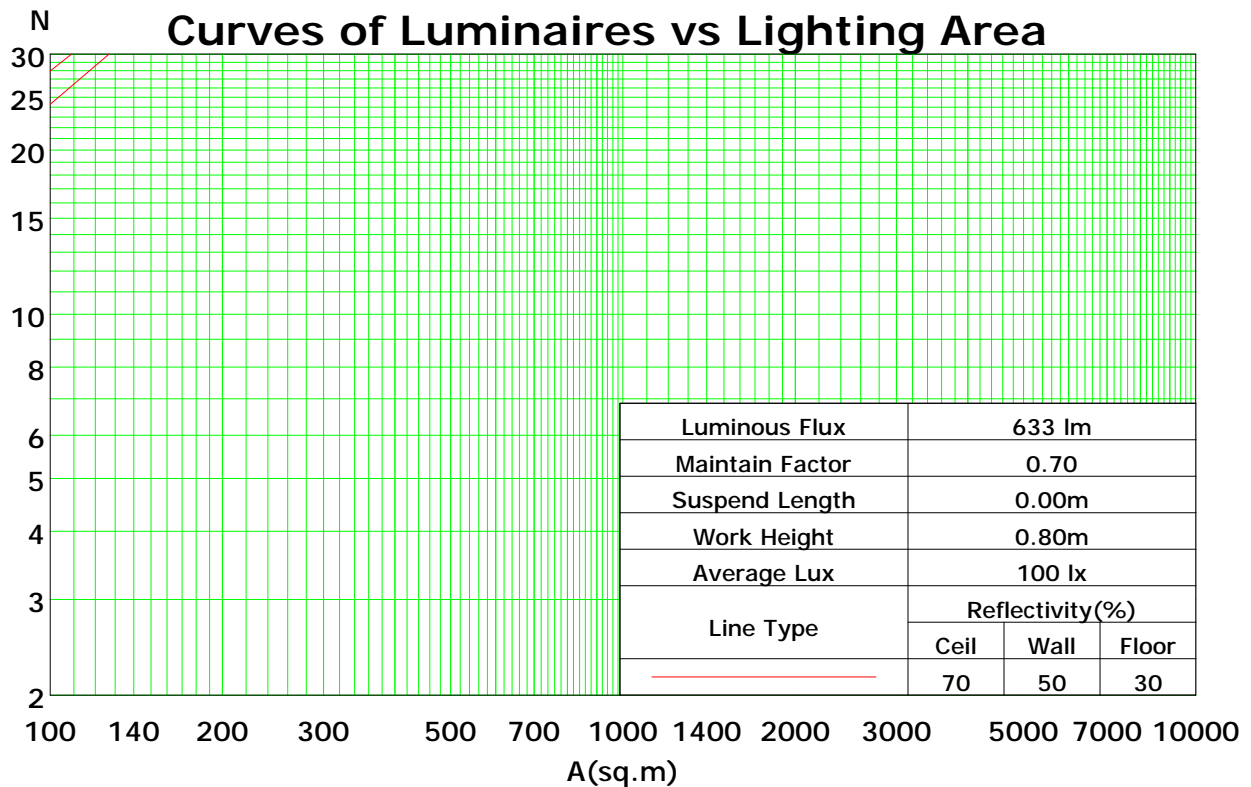
Coefficients Of Utilization - Zonal Cavity Method

| | | | | | | | | | | | | | | | | | | |
|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 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 | 101 | 101 | 101 | 99 |
| 1 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 93 | 96 | 93 | 90 | 92 | 90 | 87 | 89 | 86 | 84 | 82 |
| 2 | 98 | 90 | 83 | 77 | 95 | 88 | 81 | 76 | 84 | 79 | 74 | 81 | 76 | 72 | 77 | 74 | 70 | 68 |
| 3 | 89 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 65 | 61 | 68 | 64 | 59 | 57 |
| 4 | 82 | 70 | 61 | 54 | 79 | 68 | 60 | 54 | 66 | 58 | 53 | 63 | 57 | 52 | 61 | 55 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 44 | 39 | 49 | 43 | 39 | 37 |
| 7 | 64 | 51 | 42 | 36 | 62 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 41 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 29 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 25 | 35 | 29 | 25 | 23 |

Spacing Criteria (0-180): 1.26

Spacing Criteria (90-270): 1.27

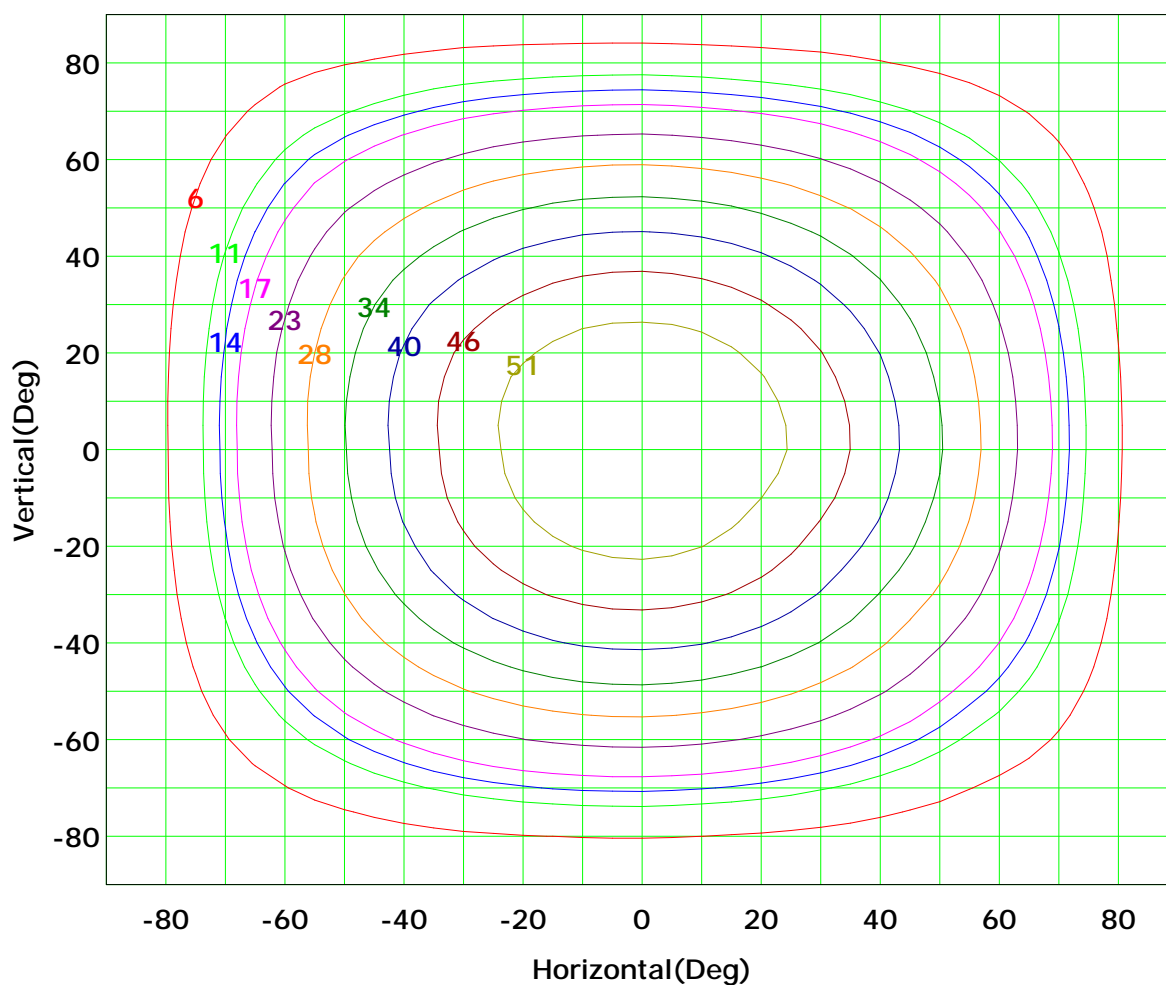
Spacing Criteria (Diagonal): 1.38



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

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

Isocandela (rectangle)



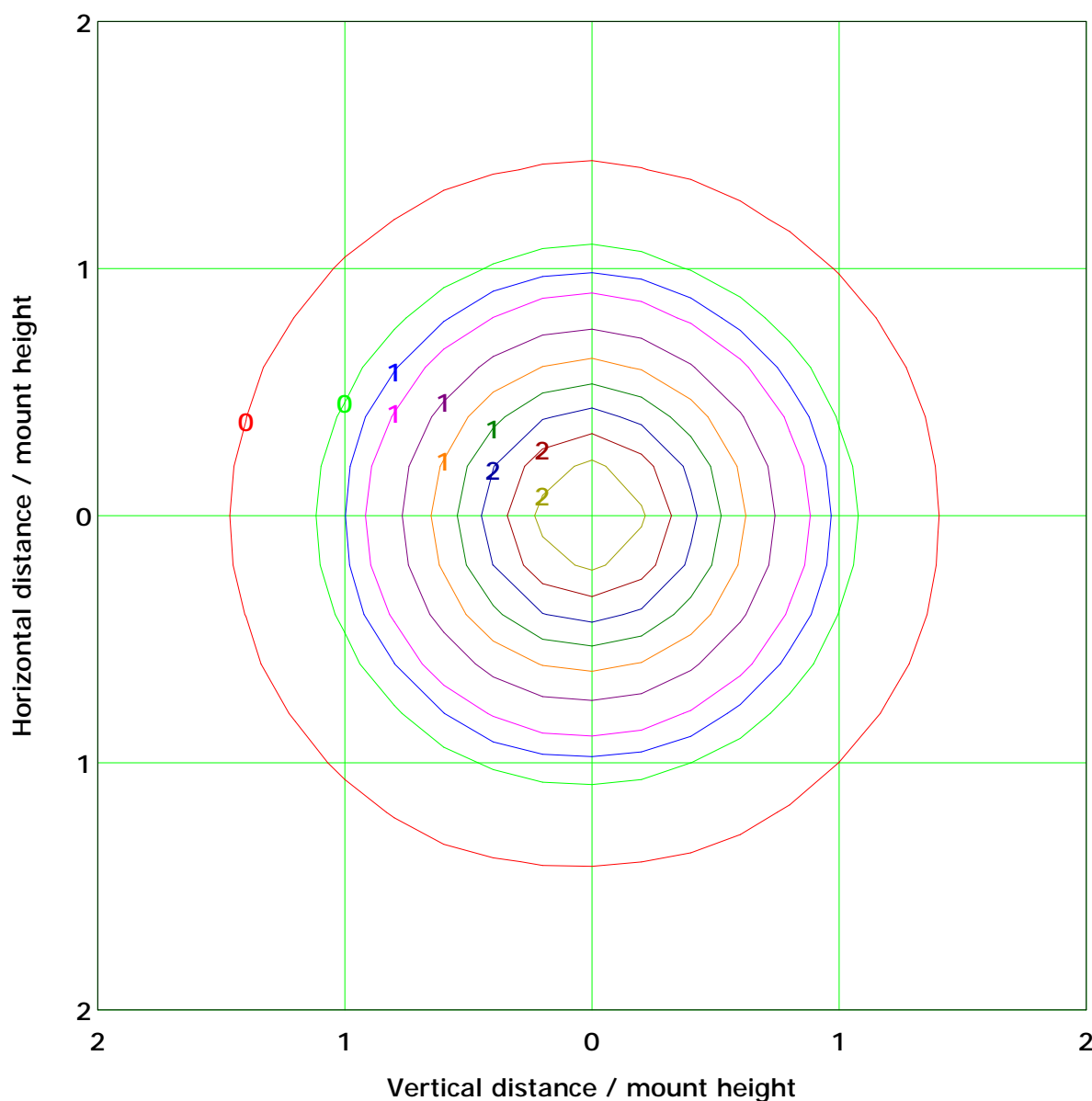
Imax (100%): 57 cd

| | | | |
|---------|-------|---------|-------|
| (10%): | 6 cd | (20%): | 11 cd |
| (25%): | 14 cd | (30%): | 17 cd |
| (40%): | 23 cd | (50%): | 28 cd |
| (60%): | 34 cd | (70%): | 40 cd |
| (80%): | 46 cd | (90%): | 51 cd |

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

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%): 2.3 lx

| | |
|----------------|----------------|
| (10%): 0.2 lx | (20%): 0.5 lx |
| (25%): 0.6 lx | (30%): 0.7 lx |
| (40%): 0.9 lx | (50%): 1.1 lx |
| (60%): 1.4 lx | (70%): 1.6 lx |
| (80%): 1.8 lx | (90%): 2.0 lx |

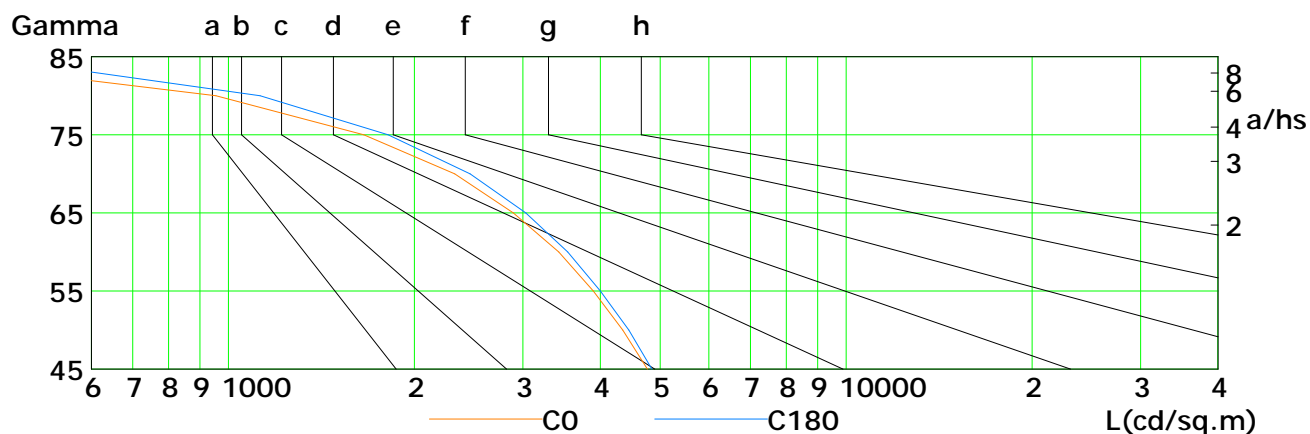
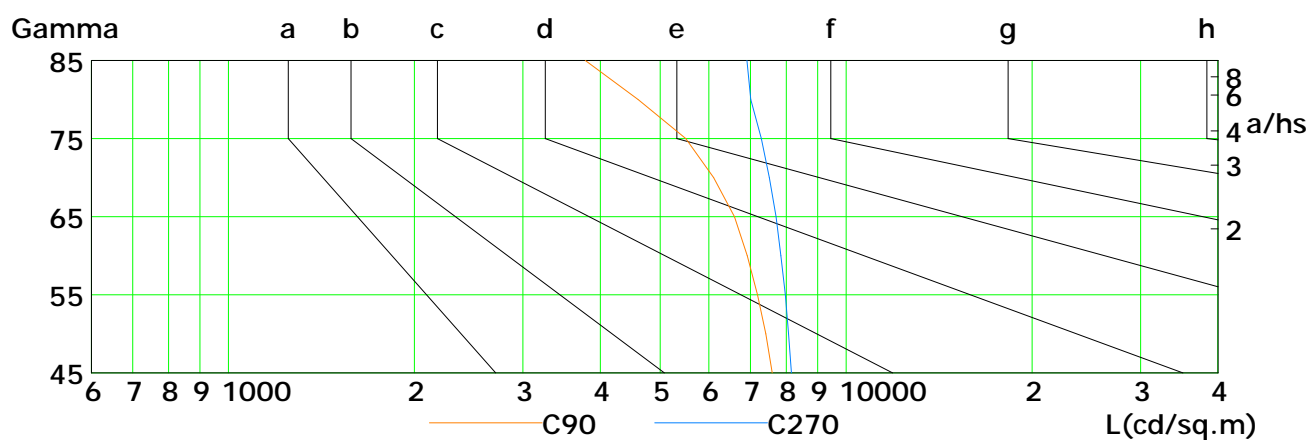
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Easty

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

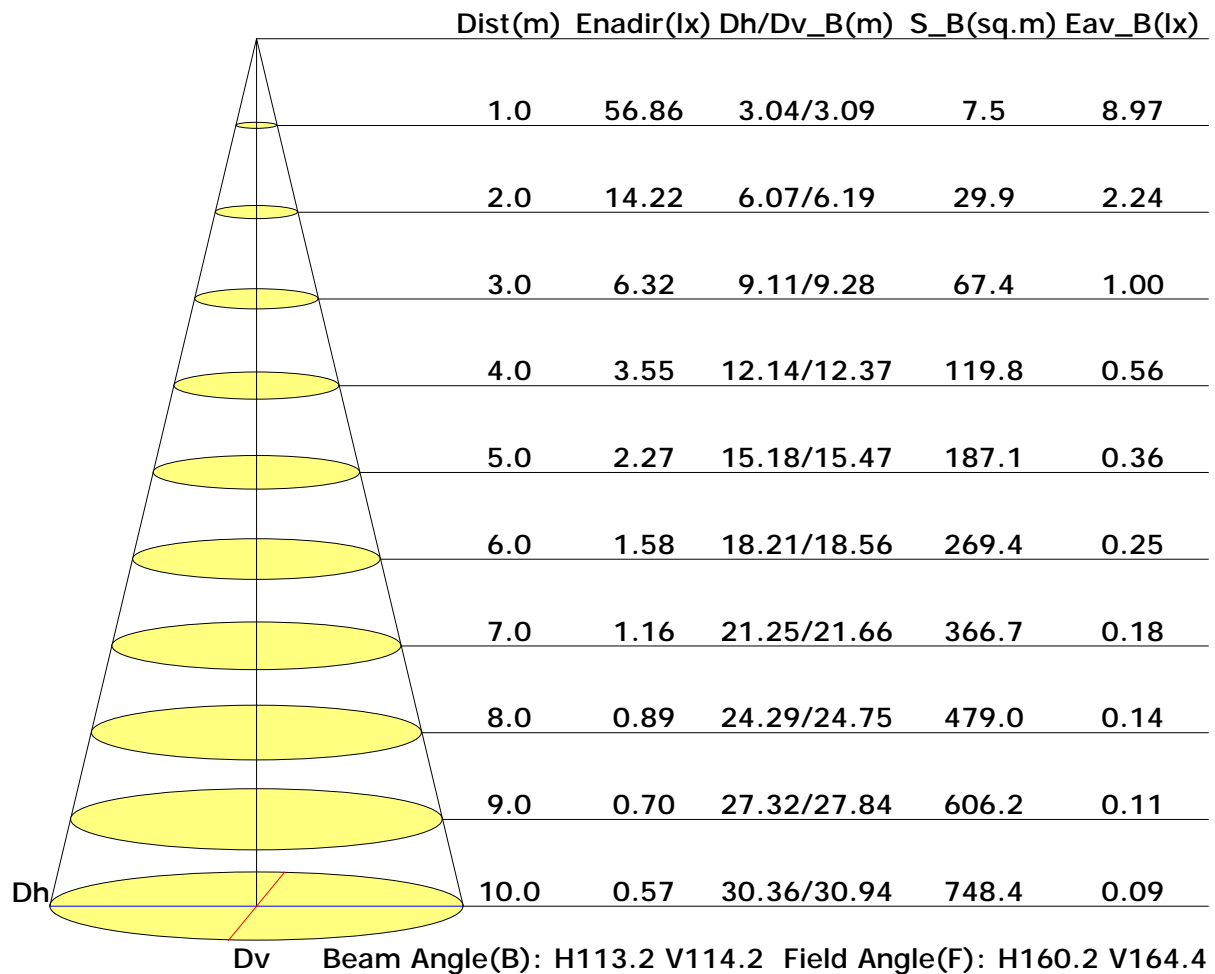


| L(cd/sq.m) | G45 | G50 | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|------------|------|------|------|------|------|------|------|------|------|
| C0 | 4767 | 4351 | 3899 | 3429 | 2893 | 2327 | 1657 | 954 | 287 |
| C90 | 7593 | 7413 | 7193 | 6916 | 6596 | 6108 | 5504 | 4608 | 3786 |
| C180 | 4852 | 4449 | 4004 | 3543 | 3032 | 2463 | 1814 | 1125 | 404 |
| C270 | 8155 | 8076 | 7971 | 7843 | 7706 | 7514 | 7294 | 7015 | 6912 |

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

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

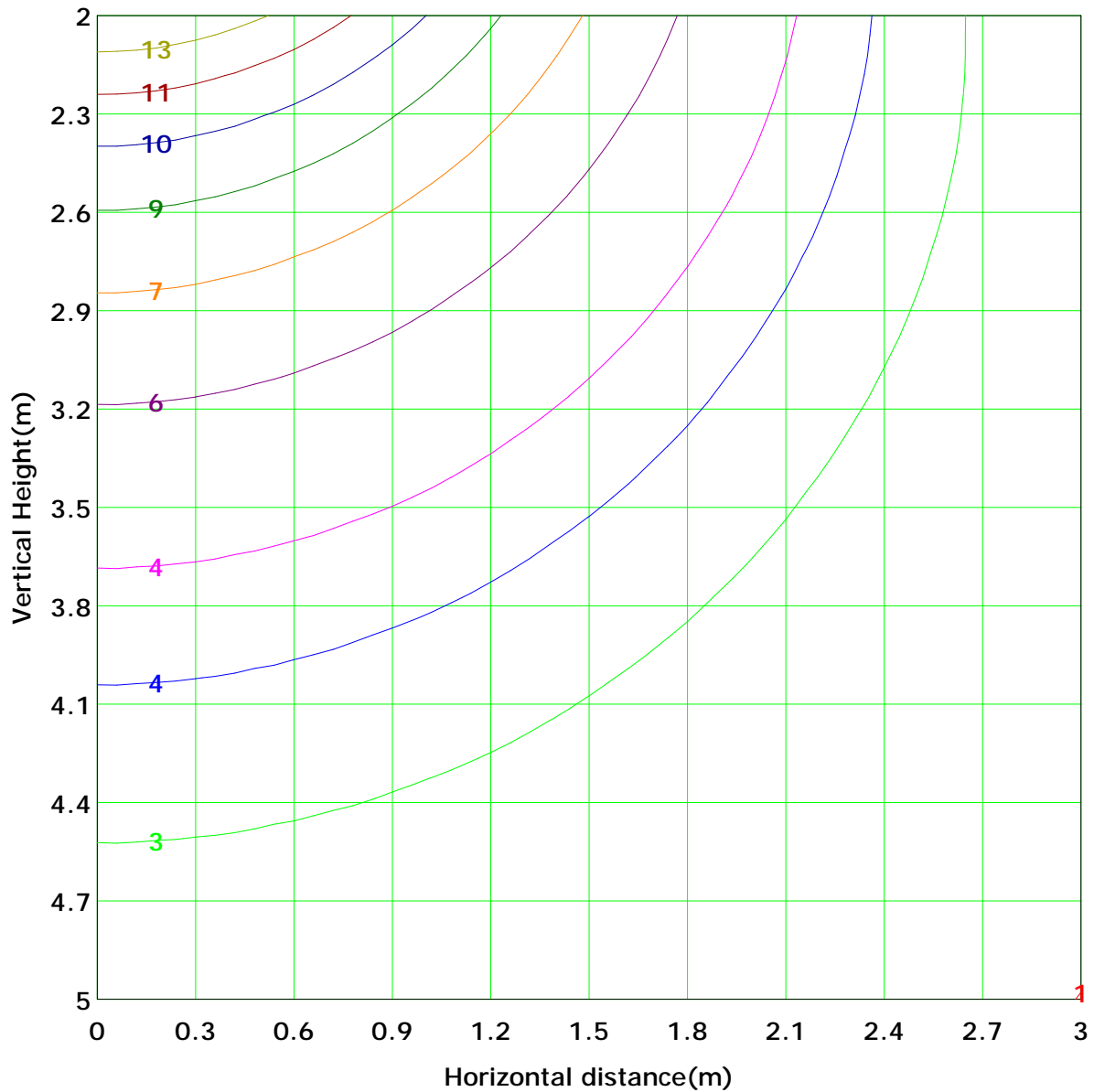
Illuminance at a Distance



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

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: 14.2 lx |
| (10%): 1.4 lx | (20%): 2.8 lx | |
| (25%): 3.6 lx | (30%): 4.3 lx | |
| (40%): 5.7 lx | (50%): 7.1 lx | |
| (60%): 8.5 lx | (70%): 10.0 lx | |
| (80%): 11.4 lx | (90%): 12.8 lx | |

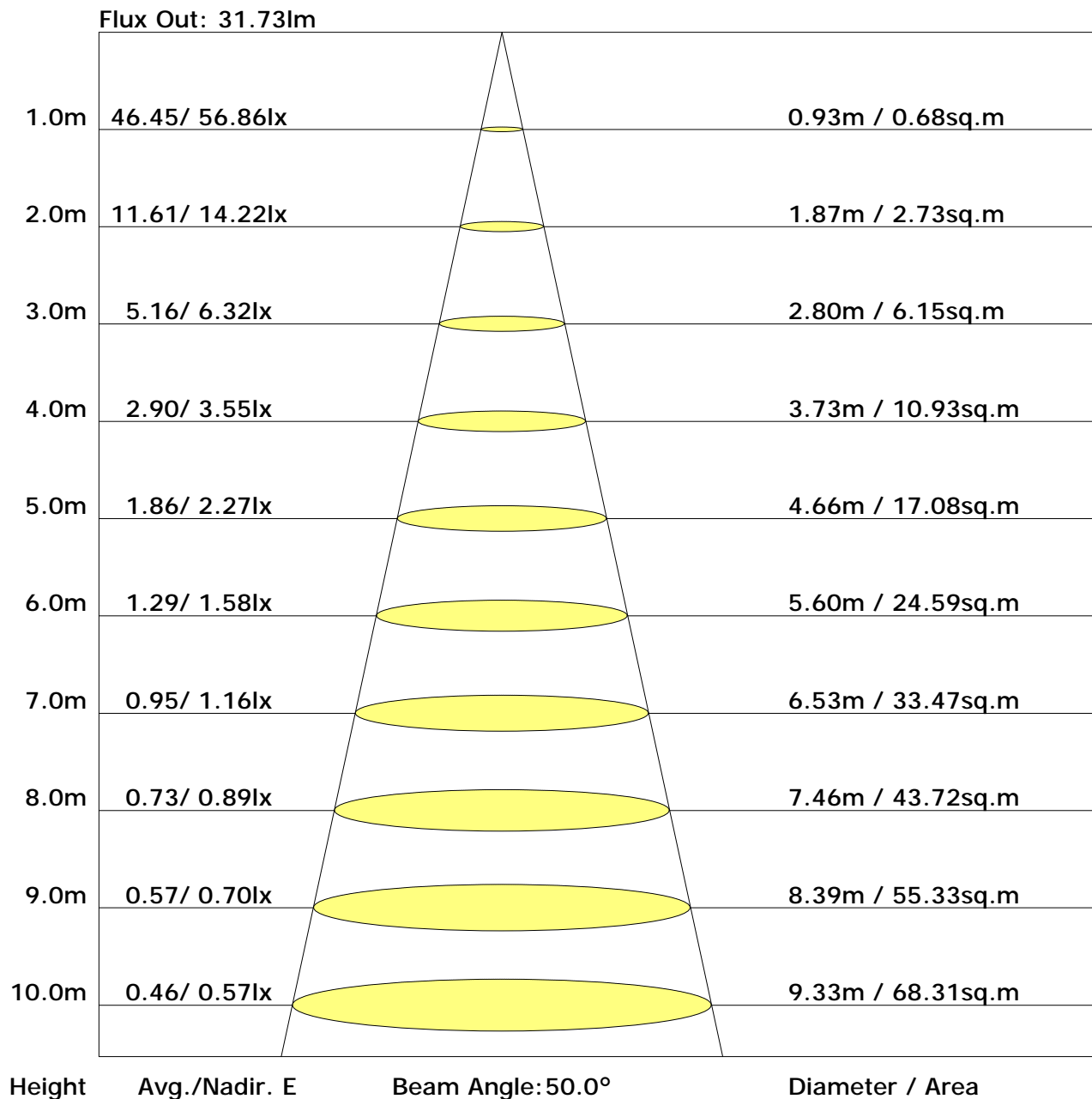
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Easty

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: Easy

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 | 24.4 | 26.0 | 24.8 | 26.3 | 26.7 | 22.7 | 24.3 | 23.0 | 24.6 | 25.0 |
| 3H | 26.1 | 27.6 | 26.5 | 27.9 | 28.3 | 24.1 | 25.5 | 24.4 | 25.9 | 26.3 |
| 4H | 26.7 | 28.1 | 27.1 | 28.5 | 28.9 | 24.5 | 25.9 | 24.9 | 26.2 | 26.6 |
| 6H | 27.1 | 28.4 | 27.5 | 28.8 | 29.2 | 24.7 | 26.0 | 25.1 | 26.4 | 26.8 |
| 8H | 27.2 | 28.4 | 27.6 | 28.8 | 29.2 | 24.8 | 26.0 | 25.2 | 26.4 | 26.8 |
| 12H | 27.2 | 28.4 | 27.6 | 28.8 | 29.2 | 24.8 | 25.9 | 25.2 | 26.4 | 26.8 |
| X=4H Y=2H | 24.8 | 26.2 | 25.2 | 26.5 | 27.0 | 23.3 | 24.6 | 23.7 | 25.0 | 25.4 |
| 3H | 26.7 | 27.9 | 27.2 | 28.3 | 28.7 | 24.8 | 26.0 | 25.3 | 26.4 | 26.9 |
| 4H | 27.4 | 28.5 | 27.9 | 28.9 | 29.4 | 25.4 | 26.4 | 25.8 | 26.8 | 27.3 |
| 6H | 27.9 | 28.8 | 28.4 | 29.3 | 29.8 | 25.7 | 26.6 | 26.1 | 27.1 | 27.5 |
| 8H | 28.0 | 28.9 | 28.5 | 29.3 | 29.8 | 25.7 | 26.6 | 26.2 | 27.1 | 27.6 |
| 12H | 28.1 | 28.8 | 28.6 | 29.3 | 29.8 | 25.8 | 26.5 | 26.3 | 27.0 | 27.5 |
| X=8H Y=4H | 27.6 | 28.5 | 28.1 | 28.9 | 29.4 | 25.6 | 26.5 | 26.1 | 26.9 | 27.4 |
| 6H | 28.1 | 28.9 | 28.7 | 29.4 | 29.9 | 26.0 | 26.7 | 26.5 | 27.2 | 27.7 |
| 8H | 28.3 | 28.9 | 28.8 | 29.5 | 30.0 | 26.1 | 26.7 | 26.6 | 27.2 | 27.7 |
| 12H | 28.4 | 28.9 | 28.9 | 29.5 | 30.0 | 26.1 | 26.7 | 26.7 | 27.2 | 27.8 |
| X=12H Y=4H | 27.6 | 28.4 | 28.1 | 28.9 | 29.4 | 25.6 | 26.4 | 26.1 | 26.9 | 27.4 |
| 6H | 28.2 | 28.8 | 28.7 | 29.3 | 29.9 | 26.0 | 26.6 | 26.5 | 27.1 | 27.7 |
| 8H | 28.3 | 28.9 | 28.9 | 29.4 | 30.0 | 26.1 | 26.7 | 26.6 | 27.2 | 27.8 |

Calculate in accordance with CIE 190:2010

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

 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 = 1.25 | | | | | | | | |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|
| 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 | 0.56 | 0.66 | 0.73 | 0.79 | 0.86 | 0.91 | 0.95 | 1.00 | 1.03 |
| | 0.30 | | 0.48 | 0.58 | 0.66 | 0.72 | 0.80 | 0.86 | 0.90 | 0.95 | 0.99 |
| | 0.20 | | 0.42 | 0.52 | 0.60 | 0.66 | 0.75 | 0.81 | 0.85 | 0.92 | 0.96 |
| 0.50 | 0.50 | 0.20 | 0.54 | 0.64 | 0.71 | 0.76 | 0.83 | 0.88 | 0.91 | 0.95 | 0.98 |
| | 0.30 | | 0.47 | 0.57 | 0.64 | 0.70 | 0.77 | 0.83 | 0.87 | 0.92 | 0.95 |
| | 0.20 | | 0.42 | 0.52 | 0.59 | 0.65 | 0.73 | 0.79 | 0.83 | 0.89 | 0.92 |
| 0.30 | 0.50 | 0.20 | 0.52 | 0.62 | 0.68 | 0.73 | 0.80 | 0.84 | 0.87 | 0.91 | 0.94 |
| | 0.30 | | 0.46 | 0.56 | 0.63 | 0.68 | 0.75 | 0.80 | 0.84 | 0.89 | 0.92 |
| | 0.20 | | 0.41 | 0.51 | 0.58 | 0.64 | 0.71 | 0.77 | 0.81 | 0.86 | 0.89 |
| 0.00 | 0.00 | 0.00 | 0.39 | 0.48 | 0.55 | 0.60 | 0.68 | 0.73 | 0.76 | 0.81 | 0.84 |
| Rating:5W 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 = 1.25 | | | | | | | | |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|
| 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 | 1.01 | 0.83 | 0.71 | 0.62 | 0.49 | 0.41 | 0.35 | 0.27 | 0.22 |
| | 0.30 | | 0.84 | 0.71 | 0.62 | 0.55 | 0.45 | 0.38 | 0.33 | 0.26 | 0.21 |
| | 0.20 | | 0.72 | 0.62 | 0.55 | 0.49 | 0.41 | 0.35 | 0.30 | 0.24 | 0.20 |
| 0.50 | 0.50 | 0.20 | 0.97 | 0.80 | 0.68 | 0.59 | 0.47 | 0.42 | 0.33 | 0.26 | 0.21 |
| | 0.30 | | 0.82 | 0.69 | 0.60 | 0.53 | 0.43 | 0.36 | 0.31 | 0.25 | 0.20 |
| | 0.20 | | 0.71 | 0.61 | 0.54 | 0.48 | 0.40 | 0.34 | 0.29 | 0.23 | 0.20 |
| 0.30 | 0.50 | 0.20 | 0.94 | 0.77 | 0.65 | 0.57 | 0.45 | 0.37 | 0.32 | 0.25 | 0.20 |
| | 0.30 | | 0.80 | 0.68 | 0.58 | 0.51 | 0.42 | 0.35 | 0.30 | 0.24 | 0.19 |
| | 0.20 | | 0.70 | 0.60 | 0.53 | 0.47 | 0.39 | 0.33 | 0.28 | 0.23 | 0.19 |
| 0.00 | 0.00 | 0.00 | 0.60 | 0.51 | 0.44 | 0.38 | 0.31 | 0.26 | 0.22 | 0.18 | 0.15 |
| Rating:5W 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 = 1.25 | | | | | | | | |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|
| 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 | 0.18 | 0.19 | 0.20 | 0.20 | 0.21 | 0.22 | 0.22 | 0.23 | 0.23 |
| | 0.30 | | 0.11 | 0.12 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.20 | 0.20 |
| | 0.20 | | 0.06 | 0.07 | 0.09 | 0.10 | 0.12 | 0.14 | 0.15 | 0.17 | 0.18 |
| 0.50 | 0.50 | 0.20 | 0.17 | 0.18 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 | 0.22 |
| | 0.30 | | 0.10 | 0.12 | 0.13 | 0.14 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 |
| | 0.20 | | 0.06 | 0.07 | 0.09 | 0.10 | 0.12 | 0.13 | 0.15 | 0.16 | 0.17 |
| 0.30 | 0.50 | 0.20 | 0.16 | 0.18 | 0.18 | 0.19 | 0.20 | 0.20 | 0.20 | 0.21 | 0.21 |
| | 0.30 | | 0.10 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 |
| | 0.20 | | 0.06 | 0.07 | 0.09 | 0.10 | 0.12 | 0.13 | 0.14 | 0.16 | 0.17 |
| 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Rating:5W 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 | 56.9 | 0.1 | 0.1 | 0.03 | 0.03 |
| 1.0-2.0 | 56.8 | 0.2 | 0.2 | 0.10 | 0.13 |
| 2.0-3.0 | 56.8 | 0.3 | 0.5 | 0.16 | 0.29 |
| 3.0-4.0 | 56.7 | 0.4 | 0.9 | 0.23 | 0.52 |
| 4.0-5.0 | 56.7 | 0.5 | 1.4 | 0.29 | 0.81 |
| 5.0-6.0 | 56.6 | 0.6 | 2.0 | 0.35 | 1.16 |
| 6.0-7.0 | 56.4 | 0.7 | 2.7 | 0.42 | 1.58 |
| 7.0-8.0 | 56.3 | 0.8 | 3.5 | 0.48 | 2.06 |
| 8.0-9.0 | 56.2 | 0.9 | 4.4 | 0.54 | 2.60 |
| 9.0-10.0 | 56.0 | 1.0 | 5.4 | 0.60 | 3.21 |
| 10.0-11.0 | 55.8 | 1.1 | 6.5 | 0.66 | 3.87 |
| 11.0-12.0 | 55.6 | 1.2 | 7.7 | 0.72 | 4.60 |
| 12.0-13.0 | 55.3 | 1.3 | 9.0 | 0.78 | 5.38 |
| 13.0-14.0 | 55.1 | 1.4 | 10.4 | 0.84 | 6.22 |
| 14.0-15.0 | 54.8 | 1.5 | 11.9 | 0.90 | 7.12 |
| 15.0-16.0 | 54.6 | 1.6 | 13.5 | 0.95 | 8.07 |
| 16.0-17.0 | 54.3 | 1.7 | 15.2 | 1.01 | 9.08 |
| 17.0-18.0 | 53.9 | 1.8 | 17.0 | 1.06 | 10.14 |
| 18.0-19.0 | 53.6 | 1.9 | 18.9 | 1.11 | 11.25 |
| 19.0-20.0 | 53.2 | 1.9 | 20.8 | 1.16 | 12.41 |
| 20.0-21.0 | 52.9 | 2.0 | 22.9 | 1.21 | 13.62 |
| 21.0-22.0 | 52.5 | 2.1 | 25.0 | 1.26 | 14.88 |
| 22.0-23.0 | 52.0 | 2.2 | 27.1 | 1.30 | 16.18 |
| 23.0-24.0 | 51.6 | 2.3 | 29.4 | 1.35 | 17.53 |
| 24.0-25.0 | 51.2 | 2.3 | 31.7 | 1.39 | 18.92 |
| 25.0-26.0 | 50.7 | 2.4 | 34.1 | 1.43 | 20.34 |
| 26.0-27.0 | 50.2 | 2.5 | 36.6 | 1.47 | 21.81 |
| 27.0-28.0 | 49.7 | 2.5 | 39.1 | 1.50 | 23.31 |
| 28.0-29.0 | 49.2 | 2.6 | 41.7 | 1.54 | 24.85 |
| 29.0-30.0 | 48.7 | 2.6 | 44.3 | 1.57 | 26.41 |
| 30.0-31.0 | 48.1 | 2.7 | 47.0 | 1.60 | 28.01 |
| 31.0-32.0 | 47.6 | 2.7 | 49.7 | 1.62 | 29.63 |
| 32.0-33.0 | 47.0 | 2.8 | 52.5 | 1.65 | 31.29 |
| 33.0-34.0 | 46.4 | 2.8 | 55.3 | 1.67 | 32.96 |
| 34.0-35.0 | 45.8 | 2.8 | 58.1 | 1.69 | 34.65 |
| 35.0-36.0 | 45.1 | 2.9 | 61.0 | 1.71 | 36.37 |

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

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 | 44.5 | 2.9 | 63.9 | 1.73 | 38.10 |
| 37.0-38.0 | 43.8 | 2.9 | 66.8 | 1.74 | 39.84 |
| 38.0-39.0 | 43.2 | 2.9 | 69.8 | 1.76 | 41.60 |
| 39.0-40.0 | 42.5 | 3.0 | 72.7 | 1.77 | 43.36 |
| 40.0-41.0 | 41.8 | 3.0 | 75.7 | 1.77 | 45.14 |
| 41.0-42.0 | 41.1 | 3.0 | 78.7 | 1.78 | 46.92 |
| 42.0-43.0 | 40.3 | 3.0 | 81.7 | 1.78 | 48.70 |
| 43.0-44.0 | 39.6 | 3.0 | 84.7 | 1.78 | 50.48 |
| 44.0-45.0 | 38.8 | 3.0 | 87.7 | 1.78 | 52.26 |
| 45.0-46.0 | 38.1 | 3.0 | 90.6 | 1.77 | 54.03 |
| 46.0-47.0 | 37.3 | 3.0 | 93.6 | 1.77 | 55.80 |
| 47.0-48.0 | 36.5 | 2.9 | 96.5 | 1.76 | 57.56 |
| 48.0-49.0 | 35.7 | 2.9 | 99.5 | 1.75 | 59.30 |
| 49.0-50.0 | 34.9 | 2.9 | 102.4 | 1.73 | 61.04 |
| 50.0-51.0 | 34.0 | 2.9 | 105.3 | 1.72 | 62.75 |
| 51.0-52.0 | 33.2 | 2.8 | 108.1 | 1.70 | 64.45 |
| 52.0-53.0 | 32.3 | 2.8 | 110.9 | 1.68 | 66.13 |
| 53.0-54.0 | 31.5 | 2.8 | 113.7 | 1.65 | 67.78 |
| 54.0-55.0 | 30.6 | 2.7 | 116.4 | 1.63 | 69.41 |
| 55.0-56.0 | 29.7 | 2.7 | 119.1 | 1.60 | 71.01 |
| 56.0-57.0 | 28.8 | 2.6 | 121.7 | 1.57 | 72.58 |
| 57.0-58.0 | 27.9 | 2.6 | 124.3 | 1.54 | 74.12 |
| 58.0-59.0 | 27.0 | 2.5 | 126.9 | 1.51 | 75.62 |
| 59.0-60.0 | 26.1 | 2.5 | 129.3 | 1.47 | 77.10 |
| 60.0-61.0 | 25.2 | 2.4 | 131.7 | 1.43 | 78.53 |
| 61.0-62.0 | 24.3 | 2.3 | 134.1 | 1.39 | 79.92 |
| 62.0-63.0 | 23.3 | 2.3 | 136.3 | 1.35 | 81.27 |
| 63.0-64.0 | 22.4 | 2.2 | 138.5 | 1.31 | 82.58 |
| 64.0-65.0 | 21.4 | 2.1 | 140.6 | 1.26 | 83.85 |
| 65.0-66.0 | 20.5 | 2.0 | 142.7 | 1.22 | 85.07 |
| 66.0-67.0 | 19.5 | 2.0 | 144.7 | 1.17 | 86.24 |
| 67.0-68.0 | 18.6 | 1.9 | 146.5 | 1.12 | 87.36 |
| 68.0-69.0 | 17.6 | 1.8 | 148.3 | 1.07 | 88.43 |
| 69.0-70.0 | 16.6 | 1.7 | 150.0 | 1.02 | 89.45 |
| 70.0-71.0 | 15.7 | 1.6 | 151.7 | 0.96 | 90.41 |
| 71.0-72.0 | 14.7 | 1.5 | 153.2 | 0.91 | 91.32 |

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

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 | 13.7 | 1.4 | 154.6 | 0.86 | 92.18 |
| 73.0-74.0 | 12.8 | 1.3 | 156.0 | 0.80 | 92.98 |
| 74.0-75.0 | 11.8 | 1.3 | 157.2 | 0.75 | 93.73 |
| 75.0-76.0 | 10.9 | 1.2 | 158.4 | 0.69 | 94.42 |
| 76.0-77.0 | 9.9 | 1.1 | 159.4 | 0.63 | 95.05 |
| 77.0-78.0 | 9.0 | 1.0 | 160.4 | 0.58 | 95.63 |
| 78.0-79.0 | 8.1 | 0.9 | 161.3 | 0.52 | 96.15 |
| 79.0-80.0 | 7.2 | 0.8 | 162.1 | 0.46 | 96.61 |
| 80.0-81.0 | 6.4 | 0.7 | 162.7 | 0.41 | 97.02 |
| 81.0-82.0 | 5.5 | 0.6 | 163.3 | 0.36 | 97.38 |
| 82.0-83.0 | 4.7 | 0.5 | 163.9 | 0.31 | 97.69 |
| 83.0-84.0 | 4.0 | 0.4 | 164.3 | 0.26 | 97.94 |
| 84.0-85.0 | 3.3 | 0.4 | 164.7 | 0.21 | 98.16 |
| 85.0-86.0 | 2.7 | 0.3 | 164.9 | 0.17 | 98.33 |
| 86.0-87.0 | 2.1 | 0.2 | 165.2 | 0.14 | 98.47 |
| 87.0-88.0 | 1.7 | 0.2 | 165.4 | 0.11 | 98.58 |
| 88.0-89.0 | 1.3 | 0.1 | 165.5 | 0.09 | 98.67 |
| 89.0-90.0 | 1.0 | 0.1 | 165.6 | 0.07 | 98.74 |
| 90.0-91.0 | 0.9 | 0.1 | 165.7 | 0.06 | 98.79 |
| 91.0-92.0 | 0.7 | 0.1 | 165.8 | 0.05 | 98.84 |
| 92.0-93.0 | 0.6 | 0.1 | 165.9 | 0.04 | 98.88 |
| 93.0-94.0 | 0.5 | 0.1 | 165.9 | 0.04 | 98.91 |
| 94.0-95.0 | 0.5 | 0.1 | 166.0 | 0.03 | 98.94 |
| 95.0-96.0 | 0.4 | 0.0 | 166.0 | 0.03 | 98.97 |
| 96.0-97.0 | 0.4 | 0.0 | 166.1 | 0.02 | 98.99 |
| 97.0-98.0 | 0.3 | 0.0 | 166.1 | 0.02 | 99.01 |
| 98.0-99.0 | 0.3 | 0.0 | 166.1 | 0.02 | 99.03 |
| 99.0-100.0 | 0.2 | 0.0 | 166.1 | 0.02 | 99.05 |
| 100.0-101.0 | 0.2 | 0.0 | 166.2 | 0.01 | 99.06 |
| 101.0-102.0 | 0.2 | 0.0 | 166.2 | 0.01 | 99.08 |
| 102.0-103.0 | 0.2 | 0.0 | 166.2 | 0.01 | 99.09 |
| 103.0-104.0 | 0.2 | 0.0 | 166.2 | 0.01 | 99.10 |
| 104.0-105.0 | 0.2 | 0.0 | 166.3 | 0.01 | 99.11 |
| 105.0-106.0 | 0.2 | 0.0 | 166.3 | 0.01 | 99.13 |
| 106.0-107.0 | 0.2 | 0.0 | 166.3 | 0.01 | 99.14 |
| 107.0-108.0 | 0.2 | 0.0 | 166.3 | 0.01 | 99.15 |

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

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 | 166.3 | 0.01 | 99.16 |
| 109.0-110.0 | 0.2 | 0.0 | 166.4 | 0.01 | 99.17 |
| 110.0-111.0 | 0.2 | 0.0 | 166.4 | 0.01 | 99.19 |
| 111.0-112.0 | 0.2 | 0.0 | 166.4 | 0.01 | 99.20 |
| 112.0-113.0 | 0.2 | 0.0 | 166.4 | 0.01 | 99.21 |
| 113.0-114.0 | 0.2 | 0.0 | 166.4 | 0.01 | 99.22 |
| 114.0-115.0 | 0.2 | 0.0 | 166.5 | 0.01 | 99.24 |
| 115.0-116.0 | 0.2 | 0.0 | 166.5 | 0.01 | 99.25 |
| 116.0-117.0 | 0.2 | 0.0 | 166.5 | 0.01 | 99.26 |
| 117.0-118.0 | 0.3 | 0.0 | 166.5 | 0.01 | 99.28 |
| 118.0-119.0 | 0.3 | 0.0 | 166.6 | 0.01 | 99.29 |
| 119.0-120.0 | 0.3 | 0.0 | 166.6 | 0.01 | 99.31 |
| 120.0-121.0 | 0.3 | 0.0 | 166.6 | 0.01 | 99.32 |
| 121.0-122.0 | 0.3 | 0.0 | 166.6 | 0.01 | 99.34 |
| 122.0-123.0 | 0.3 | 0.0 | 166.7 | 0.02 | 99.35 |
| 123.0-124.0 | 0.3 | 0.0 | 166.7 | 0.02 | 99.37 |
| 124.0-125.0 | 0.3 | 0.0 | 166.7 | 0.02 | 99.38 |
| 125.0-126.0 | 0.3 | 0.0 | 166.7 | 0.02 | 99.40 |
| 126.0-127.0 | 0.3 | 0.0 | 166.8 | 0.02 | 99.42 |
| 127.0-128.0 | 0.3 | 0.0 | 166.8 | 0.02 | 99.43 |
| 128.0-129.0 | 0.3 | 0.0 | 166.8 | 0.02 | 99.45 |
| 129.0-130.0 | 0.3 | 0.0 | 166.8 | 0.02 | 99.46 |
| 130.0-131.0 | 0.3 | 0.0 | 166.9 | 0.02 | 99.48 |
| 131.0-132.0 | 0.3 | 0.0 | 166.9 | 0.02 | 99.49 |
| 132.0-133.0 | 0.3 | 0.0 | 166.9 | 0.02 | 99.51 |
| 133.0-134.0 | 0.3 | 0.0 | 166.9 | 0.02 | 99.53 |
| 134.0-135.0 | 0.3 | 0.0 | 167.0 | 0.02 | 99.54 |
| 135.0-136.0 | 0.4 | 0.0 | 167.0 | 0.02 | 99.56 |
| 136.0-137.0 | 0.4 | 0.0 | 167.0 | 0.02 | 99.58 |
| 137.0-138.0 | 0.4 | 0.0 | 167.1 | 0.02 | 99.59 |
| 138.0-139.0 | 0.4 | 0.0 | 167.1 | 0.02 | 99.61 |
| 139.0-140.0 | 0.4 | 0.0 | 167.1 | 0.02 | 99.62 |
| 140.0-141.0 | 0.4 | 0.0 | 167.1 | 0.02 | 99.64 |
| 141.0-142.0 | 0.4 | 0.0 | 167.2 | 0.02 | 99.65 |
| 142.0-143.0 | 0.4 | 0.0 | 167.2 | 0.02 | 99.67 |
| 143.0-144.0 | 0.4 | 0.0 | 167.2 | 0.01 | 99.68 |

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

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 | 0.4 | 0.0 | 167.2 | 0.01 | 99.70 |
| 145.0-146.0 | 0.4 | 0.0 | 167.3 | 0.01 | 99.71 |
| 146.0-147.0 | 0.4 | 0.0 | 167.3 | 0.02 | 99.73 |
| 147.0-148.0 | 0.4 | 0.0 | 167.3 | 0.01 | 99.74 |
| 148.0-149.0 | 0.4 | 0.0 | 167.3 | 0.01 | 99.76 |
| 149.0-150.0 | 0.4 | 0.0 | 167.4 | 0.01 | 99.77 |
| 150.0-151.0 | 0.4 | 0.0 | 167.4 | 0.01 | 99.78 |
| 151.0-152.0 | 0.4 | 0.0 | 167.4 | 0.01 | 99.80 |
| 152.0-153.0 | 0.4 | 0.0 | 167.4 | 0.01 | 99.81 |
| 153.0-154.0 | 0.4 | 0.0 | 167.4 | 0.01 | 99.82 |
| 154.0-155.0 | 0.4 | 0.0 | 167.5 | 0.01 | 99.84 |
| 155.0-156.0 | 0.4 | 0.0 | 167.5 | 0.01 | 99.85 |
| 156.0-157.0 | 0.4 | 0.0 | 167.5 | 0.01 | 99.86 |
| 157.0-158.0 | 0.5 | 0.0 | 167.5 | 0.01 | 99.87 |
| 158.0-159.0 | 0.5 | 0.0 | 167.5 | 0.01 | 99.88 |
| 159.0-160.0 | 0.5 | 0.0 | 167.6 | 0.01 | 99.89 |
| 160.0-161.0 | 0.5 | 0.0 | 167.6 | 0.01 | 99.90 |
| 161.0-162.0 | 0.5 | 0.0 | 167.6 | 0.01 | 99.91 |
| 162.0-163.0 | 0.5 | 0.0 | 167.6 | 0.01 | 99.92 |
| 163.0-164.0 | 0.5 | 0.0 | 167.6 | 0.01 | 99.93 |
| 164.0-165.0 | 0.5 | 0.0 | 167.6 | 0.01 | 99.94 |
| 165.0-166.0 | 0.5 | 0.0 | 167.6 | 0.01 | 99.95 |
| 166.0-167.0 | 0.5 | 0.0 | 167.7 | 0.01 | 99.95 |
| 167.0-168.0 | 0.5 | 0.0 | 167.7 | 0.01 | 99.96 |
| 168.0-169.0 | 0.5 | 0.0 | 167.7 | 0.01 | 99.97 |
| 169.0-170.0 | 0.5 | 0.0 | 167.7 | 0.01 | 99.97 |
| 170.0-171.0 | 0.5 | 0.0 | 167.7 | 0.01 | 99.98 |
| 171.0-172.0 | 0.5 | 0.0 | 167.7 | 0.00 | 99.98 |
| 172.0-173.0 | 0.5 | 0.0 | 167.7 | 0.00 | 99.99 |
| 173.0-174.0 | 0.5 | 0.0 | 167.7 | 0.00 | 99.99 |
| 174.0-175.0 | 0.5 | 0.0 | 167.7 | 0.00 | 99.99 |
| 175.0-176.0 | 0.5 | 0.0 | 167.7 | 0.00 | 100.00 |
| 176.0-177.0 | 0.5 | 0.0 | 167.7 | 0.00 | 100.00 |
| 177.0-178.0 | 0.5 | 0.0 | 167.7 | 0.00 | 100.00 |
| 178.0-179.0 | 0.5 | 0.0 | 167.7 | 0.00 | 100.00 |
| 179.0-180.0 | 0.5 | 0.0 | 167.7 | 0.00 | 100.00 |

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

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