

Report No.:

Test Time: 2023/10/7 14:11

Luminaire Property

Luminaire Manufacturer: Acolyte

Luminaire Category: TRINODE RGB2700K-1W-UCS8904- Blue only

Luminaire Description: MILKY DOME IP67

Lamp Catalog: NODE

Lamp Description: 3 nodes BLUE

Luminous Length (mm): 250

Luminous Width (mm): 60

Luminous Height (mm): 75

Voltage: 24.0 V

Current: 0.052 A

Power: 1.25 W

Power Factor: 1.000

Photometric Results

CIE Class: Semi-Direct

Total Rated Lamp Lumens: 2.4 lm

Measurement Flux: 2.4 lm

Efficiency: 100%

Downward Ratio: 68%

Upward Ratio: 32%

Horizontal Diffuse Angle(10%,50%): H182.1,H154.8

Vertical Diffuse Angle(10%,50%): V300.9,V202.1

Luminaire Efficacy Rating (LER): 2

Central Intensity: 0.29 cd

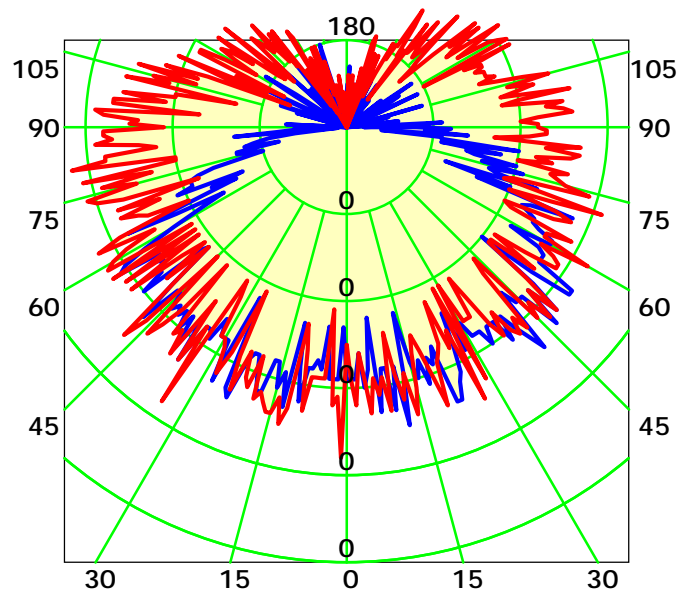
Max. Intensity: 0.38 cd

Pos of Max. Intensity: H240 V13

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 178.4° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0: 1.0

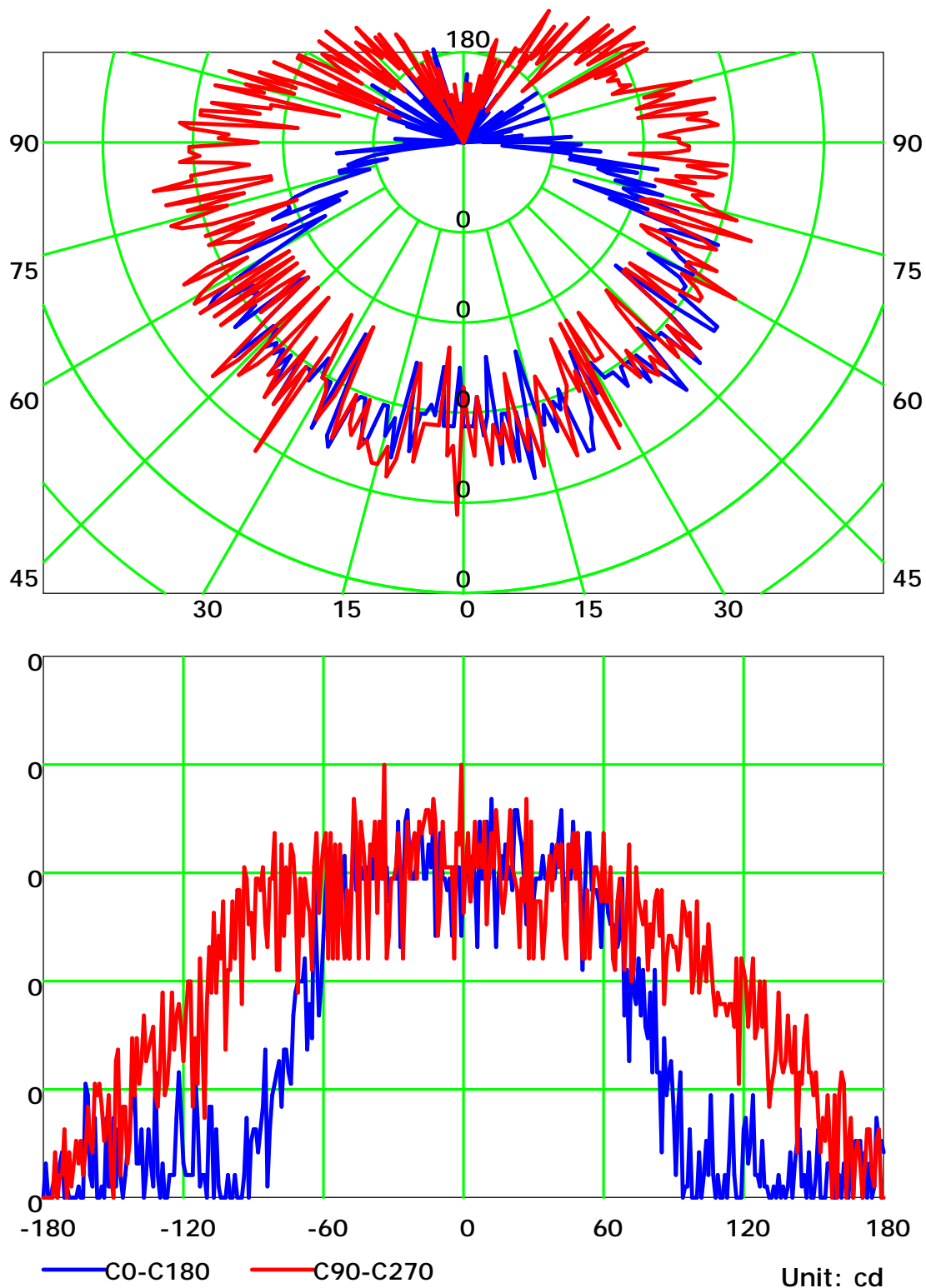
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

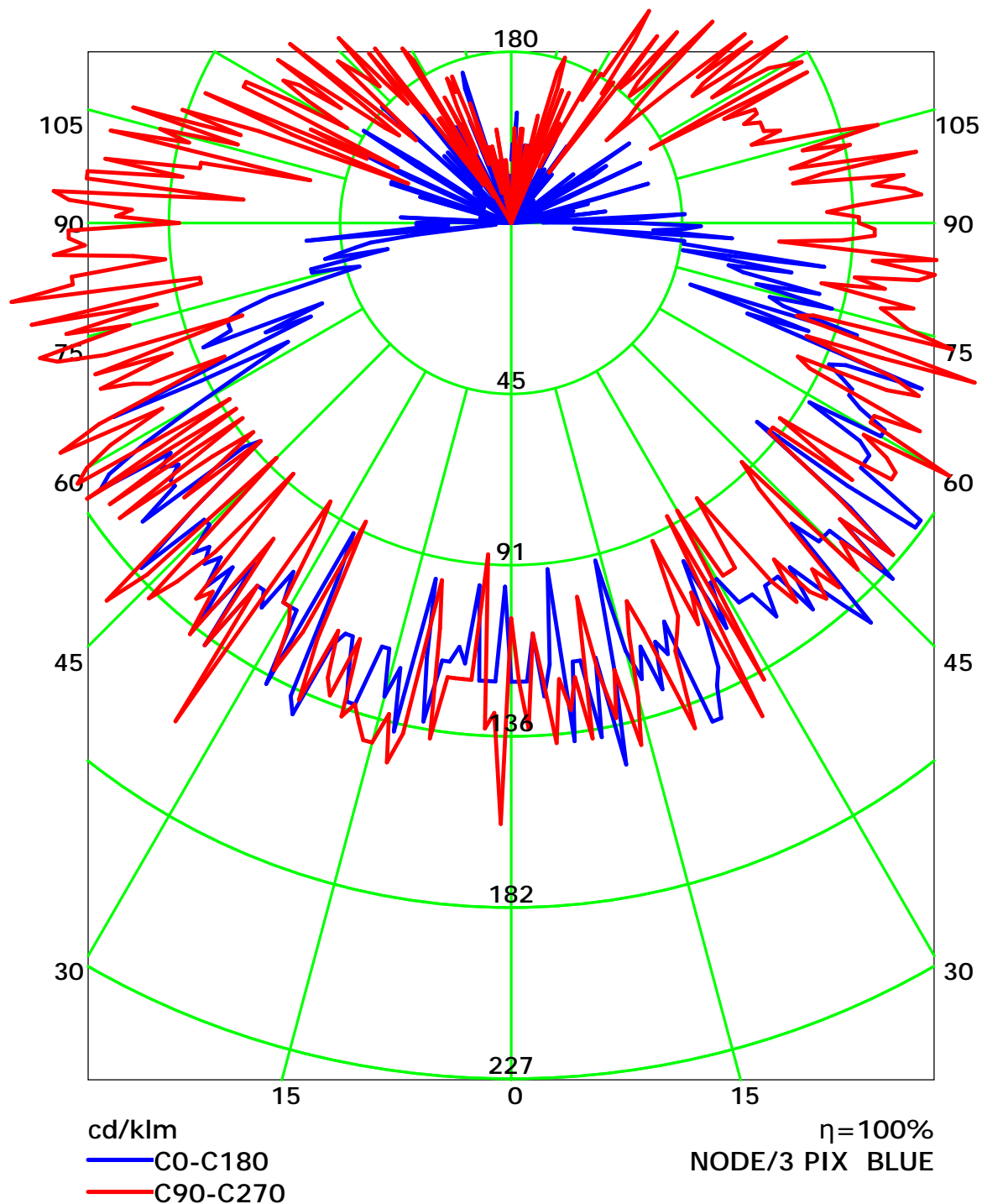
Luminous Intensity Distribution Curve



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

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: Nick

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

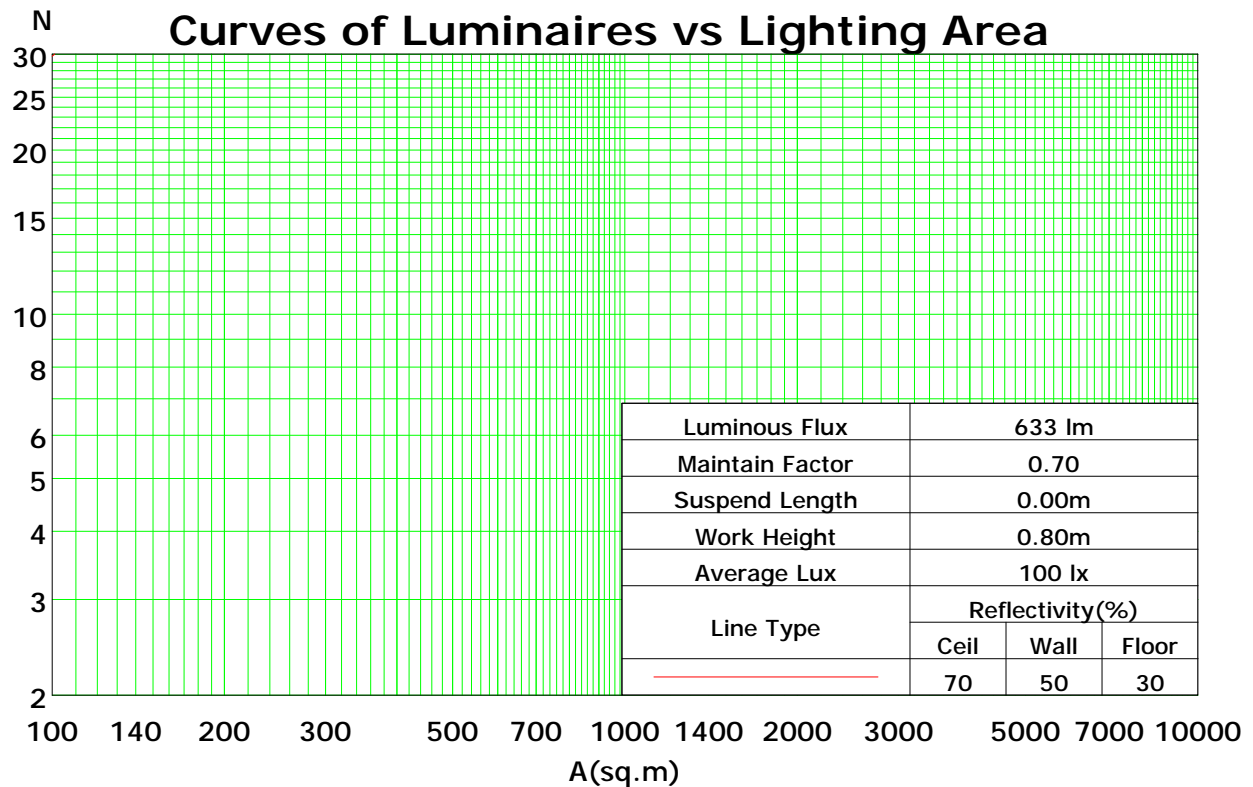
Coefficients Of Utilization - Zonal Cavity Method

| | | | | | | | | | | | | | | | | | | |
|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 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 | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 72 | 72 | 72 | 68 |
| 1 | 97 | 91 | 85 | 80 | 91 | 85 | 80 | 75 | 75 | 71 | 67 | 65 | 62 | 59 | 57 | 54 | 52 | 47 |
| 2 | 87 | 77 | 68 | 61 | 81 | 72 | 64 | 58 | 63 | 57 | 52 | 55 | 50 | 46 | 47 | 43 | 40 | 36 |
| 3 | 78 | 66 | 57 | 49 | 72 | 62 | 53 | 47 | 54 | 47 | 42 | 47 | 41 | 37 | 40 | 36 | 32 | 28 |
| 4 | 71 | 57 | 48 | 40 | 66 | 54 | 45 | 38 | 47 | 40 | 34 | 41 | 35 | 30 | 35 | 30 | 27 | 23 |
| 5 | 64 | 51 | 41 | 34 | 60 | 48 | 39 | 32 | 42 | 34 | 29 | 36 | 30 | 26 | 31 | 26 | 22 | 19 |
| 6 | 59 | 45 | 36 | 29 | 55 | 42 | 34 | 27 | 37 | 30 | 25 | 32 | 26 | 22 | 28 | 23 | 19 | 16 |
| 7 | 55 | 40 | 31 | 25 | 51 | 38 | 30 | 24 | 34 | 26 | 21 | 29 | 23 | 19 | 25 | 20 | 17 | 14 |
| 8 | 51 | 37 | 28 | 22 | 47 | 34 | 26 | 21 | 30 | 24 | 19 | 27 | 21 | 17 | 23 | 18 | 15 | 12 |
| 9 | 47 | 33 | 25 | 19 | 44 | 31 | 24 | 18 | 28 | 21 | 17 | 25 | 19 | 15 | 21 | 17 | 13 | 11 |
| 10 | 44 | 30 | 22 | 17 | 41 | 29 | 21 | 16 | 26 | 19 | 15 | 23 | 17 | 13 | 20 | 15 | 12 | 10 |

Spacing Criteria (0-180): 1.49

Spacing Criteria (90-270): 1.71

Spacing Criteria (Diagonal): 1.66



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0: 1.0

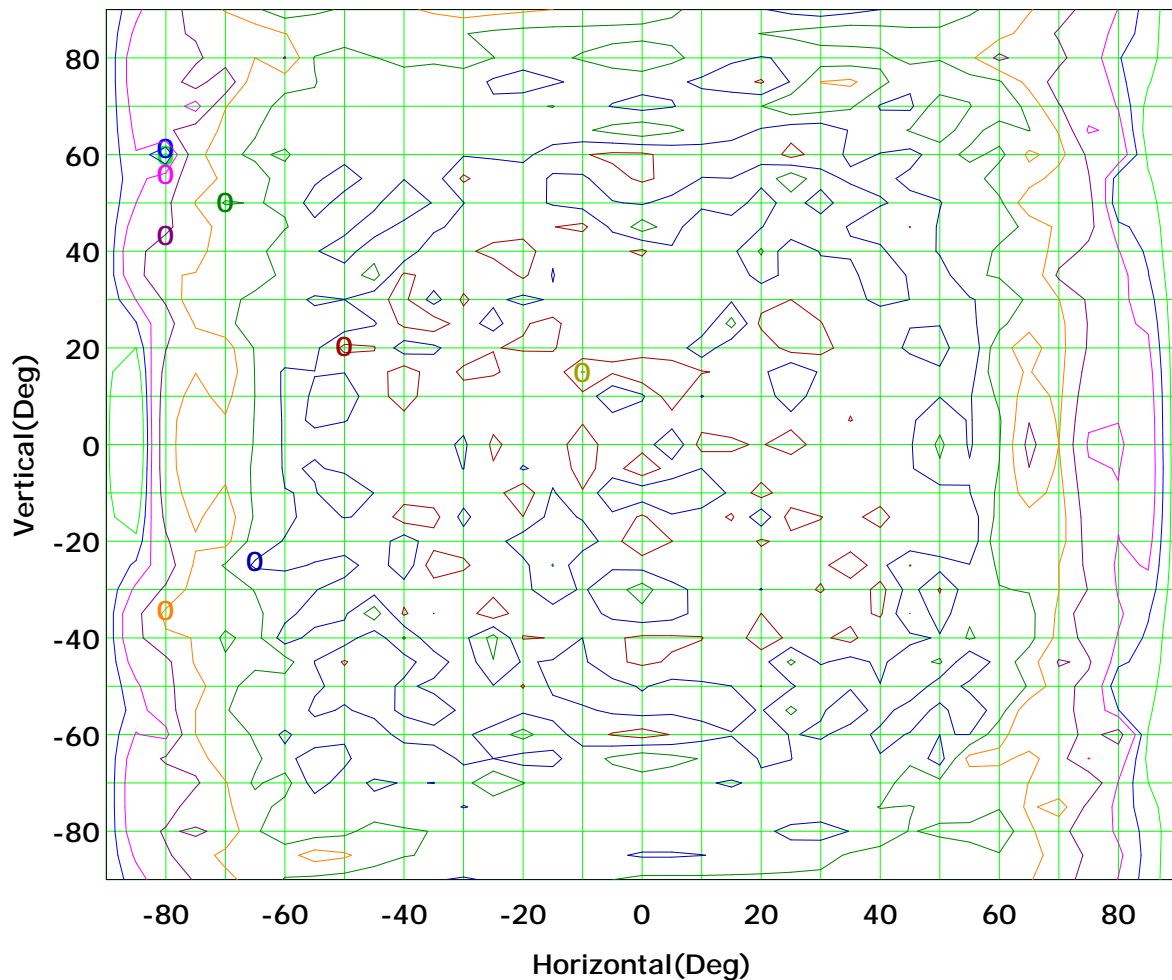
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



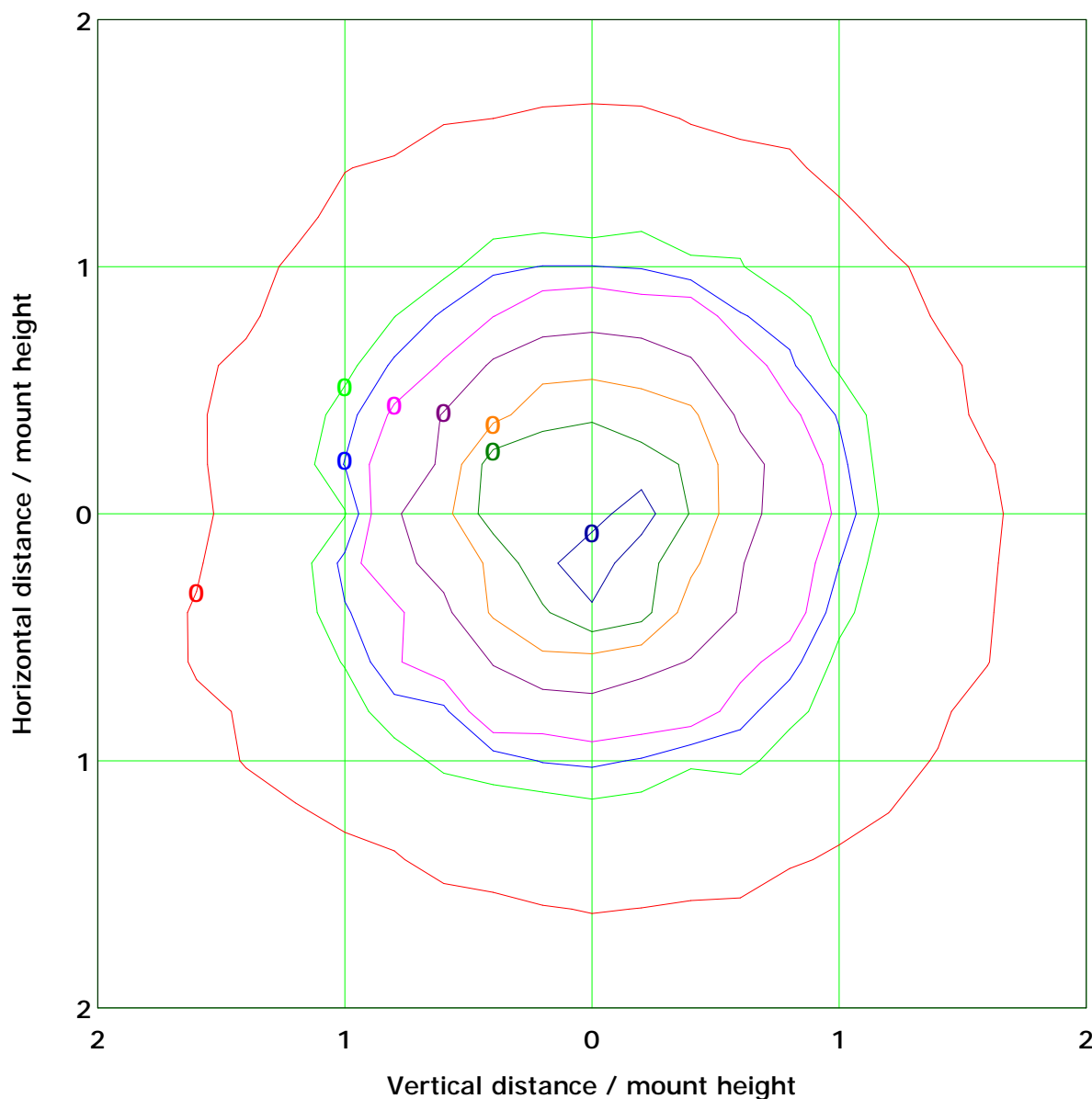
I_{max} (100%): 0 cd

| | | | |
|---------|------|---------|------|
| (10%): | 0 cd | (20%): | 0 cd |
| (25%): | 0 cd | (30%): | 0 cd |
| (40%): | 0 cd | (50%): | 0 cd |
| (60%): | 0 cd | (70%): | 0 cd |
| (80%): | 0 cd | (90%): | 0 cd |

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

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%): 0.0 lx

| | |
|----------------|----------------|
| (10%): 0.0 lx | (20%): 0.0 lx |
| (25%): 0.0 lx | (30%): 0.0 lx |
| (40%): 0.0 lx | (50%): 0.0 lx |
| (60%): 0.0 lx | (70%): 0.0 lx |
| (80%): 0.0 lx | (90%): 0.0 lx |

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

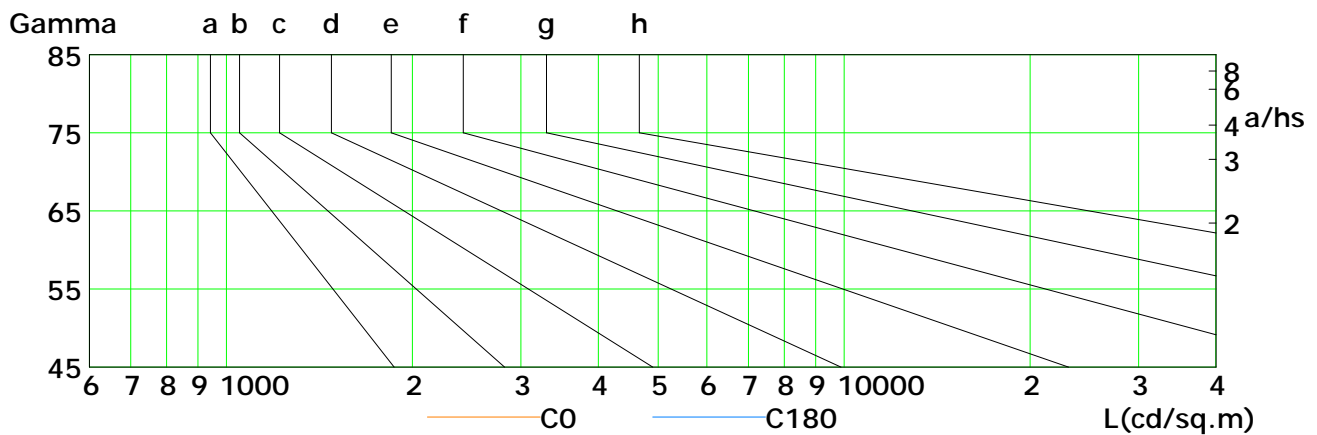
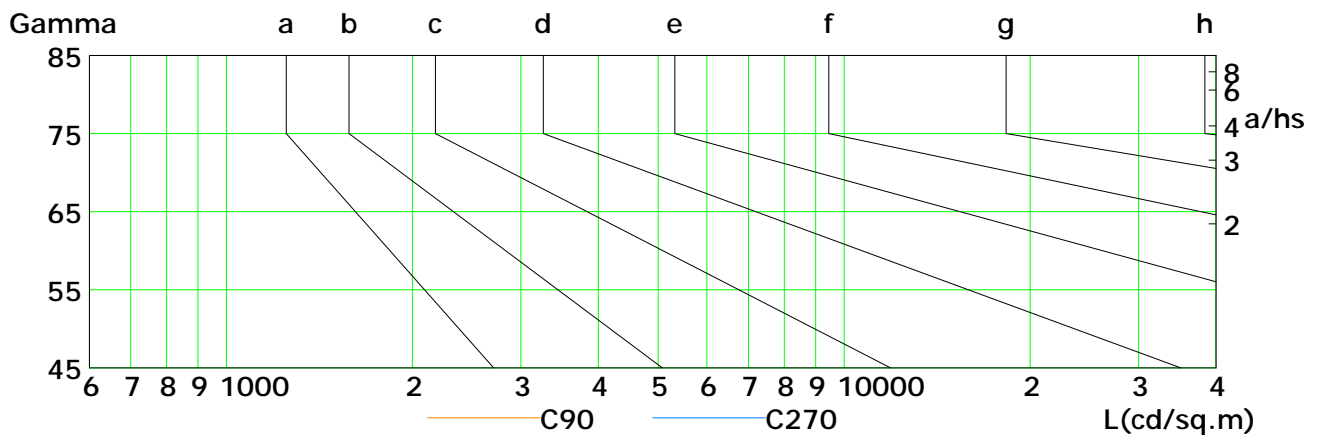
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:



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

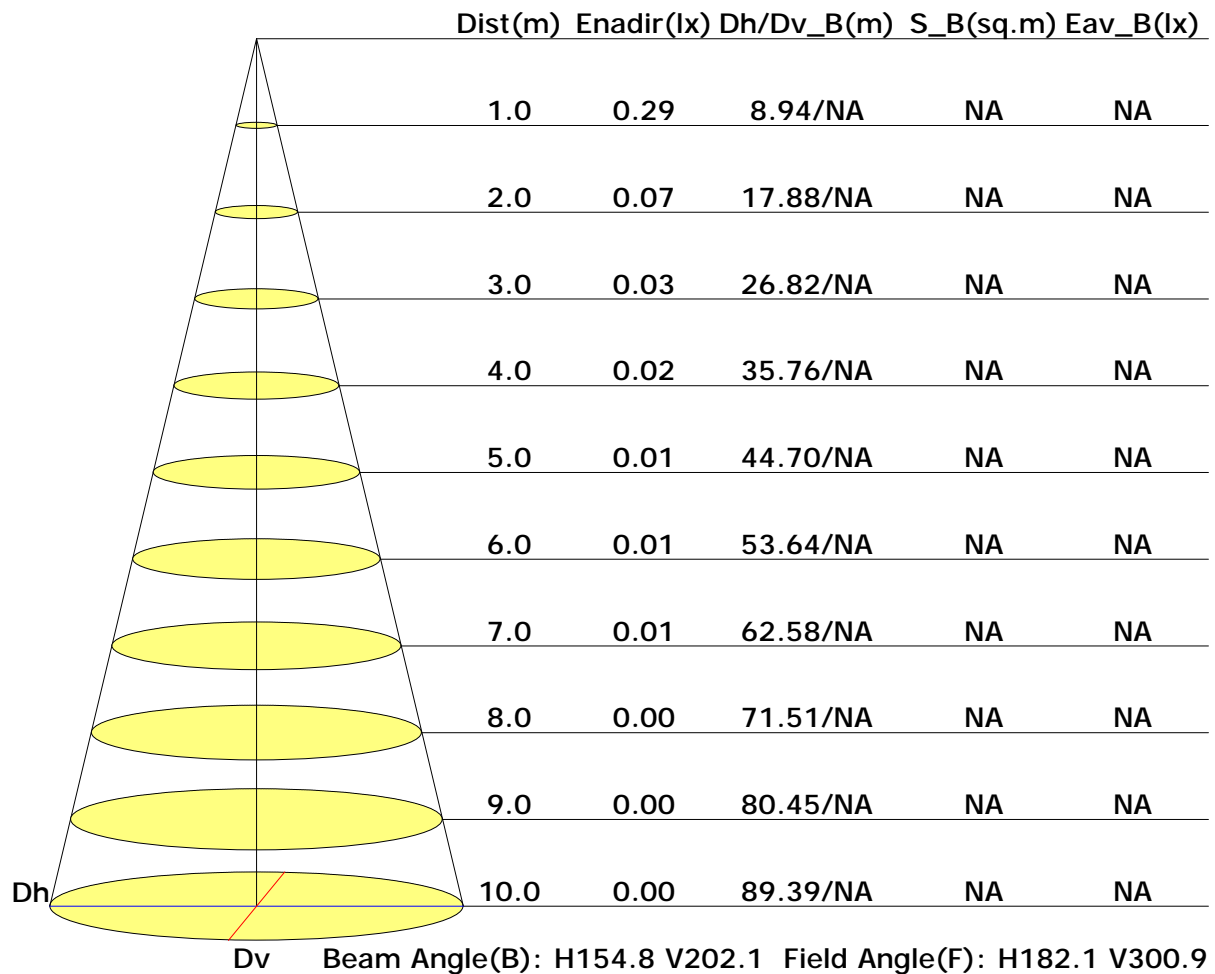


| L(cd/sq.m) | G45 | G50 | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| C0 | 12 | 12 | 11 | 11 | 10 | 9 | 10 | 9 | 2 |
| C90 | 22 | 21 | 20 | 28 | 19 | 27 | 32 | 34 | 47 |
| C180 | 11 | 9 | 11 | 10 | 6 | 8 | 5 | 5 | 7 |
| C270 | 15 | 21 | 25 | 27 | 19 | 30 | 30 | 28 | 41 |

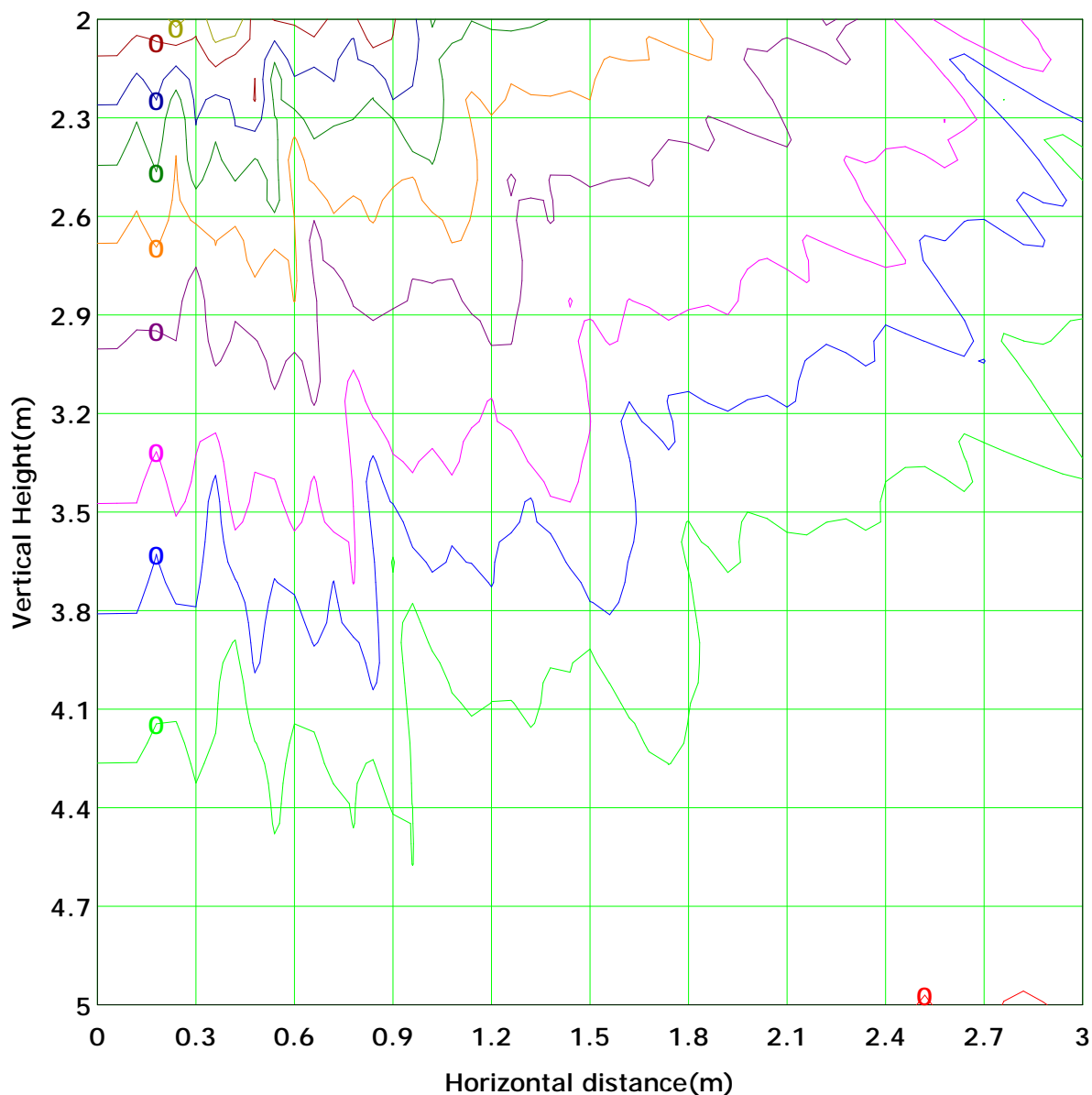
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Nick

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: 0.1 lx |
| (10%): 0.0 lx | (20%): 0.0 lx | (30%): 0.0 lx |
| (25%): 0.0 lx | (40%): 0.0 lx | (50%): 0.0 lx |
| (40%): 0.0 lx | (60%): 0.0 lx | (70%): 0.1 lx |
| (60%): 0.0 lx | (80%): 0.1 lx | (90%): 0.1 lx |

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

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

Area Flux Table

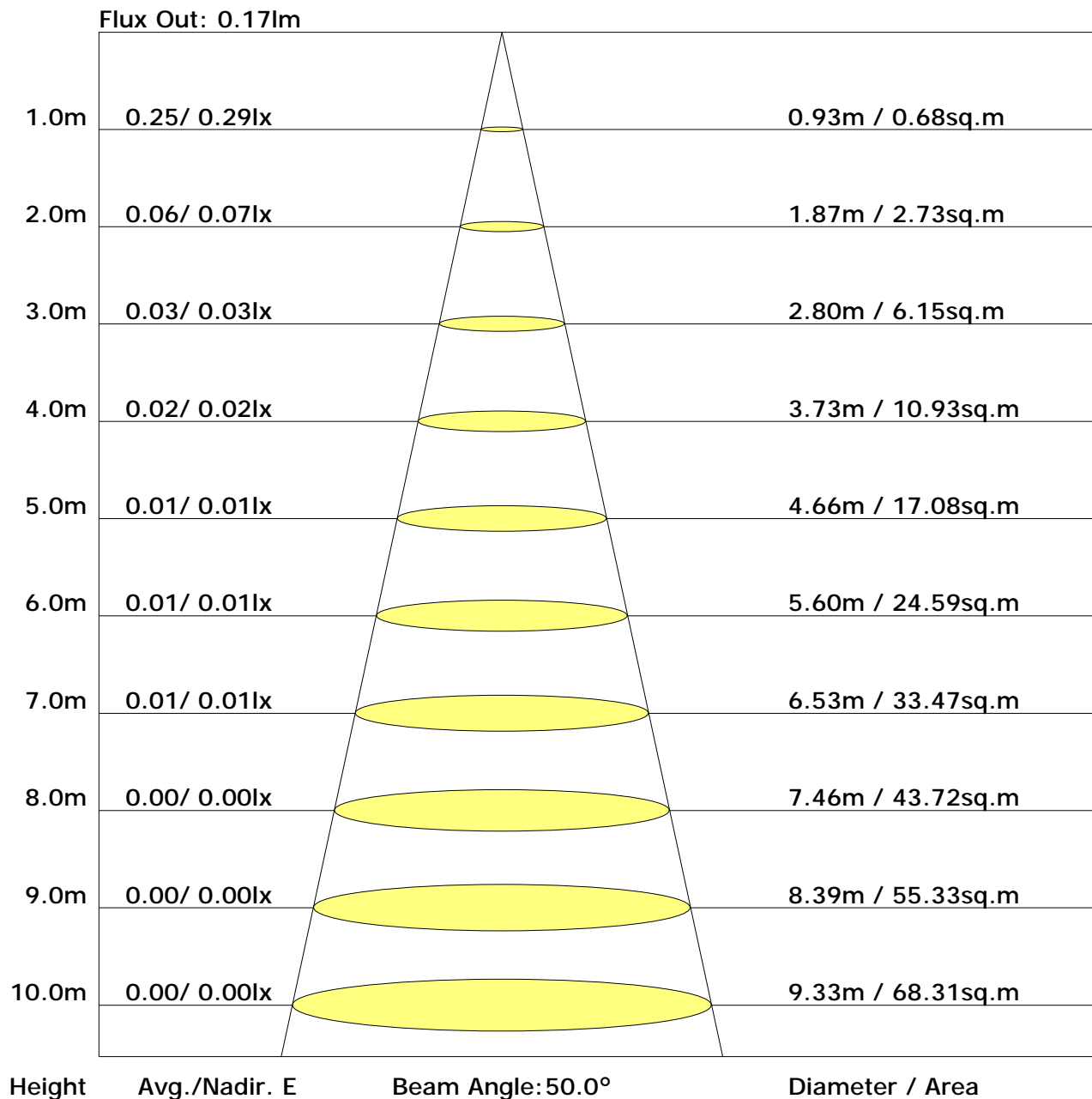
| Unit: lm | | | | | | | | | | | | | | | | | | | | |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| -80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| -70 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| -60 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| -50 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| -40 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| -30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| -20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| -10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 40 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 50 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 60 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 70 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| Flux(T) | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 2 |
| Flux(E) | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 2 |
| Horizontal plane | | | | | | | | | | | | | | | | | | | | |

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

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: Nick

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 | 16.3 | 17.5 | 17.0 | 18.3 | 19.3 | 15.2 | 16.4 | 16.0 | 17.2 | 18.2 |
| 3H | 19.0 | 20.1 | 19.7 | 20.9 | 21.9 | 17.5 | 18.6 | 18.3 | 19.4 | 20.4 |
| 4H | 20.2 | 21.2 | 21.0 | 22.0 | 23.1 | 19.1 | 20.1 | 19.9 | 21.0 | 22.0 |
| 6H | 21.4 | 22.4 | 22.2 | 23.2 | 24.3 | 20.3 | 21.3 | 21.1 | 22.1 | 23.2 |
| 8H | 21.9 | 22.8 | 22.7 | 23.7 | 24.7 | 20.9 | 21.9 | 21.7 | 22.7 | 23.8 |
| 12H | 22.1 | 23.0 | 23.0 | 23.9 | 25.0 | 21.6 | 22.5 | 22.4 | 23.3 | 24.4 |
| X=4H Y=2H | 16.9 | 18.0 | 17.7 | 18.8 | 19.8 | 16.2 | 17.2 | 17.0 | 18.0 | 19.1 |
| 3H | 20.0 | 20.9 | 20.8 | 21.8 | 22.8 | 18.6 | 19.5 | 19.4 | 20.4 | 21.4 |
| 4H | 21.4 | 22.2 | 22.2 | 23.1 | 24.2 | 20.3 | 21.1 | 21.1 | 22.0 | 23.1 |
| 6H | 22.8 | 23.5 | 23.6 | 24.4 | 25.5 | 21.7 | 22.4 | 22.5 | 23.3 | 24.4 |
| 8H | 23.4 | 24.1 | 24.2 | 25.0 | 26.0 | 22.4 | 23.1 | 23.2 | 24.0 | 25.1 |
| 12H | 23.7 | 24.3 | 24.5 | 25.2 | 26.3 | 23.1 | 23.8 | 24.0 | 24.7 | 25.8 |
| X=8H Y=4H | 21.9 | 22.6 | 22.7 | 23.5 | 24.5 | 21.0 | 21.7 | 21.8 | 22.6 | 23.7 |
| 6H | 23.5 | 24.1 | 24.4 | 25.0 | 26.1 | 22.6 | 23.2 | 23.4 | 24.1 | 25.2 |
| 8H | 24.3 | 24.8 | 25.1 | 25.7 | 26.8 | 23.4 | 24.0 | 24.3 | 24.9 | 26.0 |
| 12H | 24.7 | 25.2 | 25.6 | 26.2 | 27.3 | 24.4 | 24.9 | 25.2 | 25.8 | 26.9 |
| X=12H Y=4H | 21.9 | 22.6 | 22.8 | 23.5 | 24.6 | 21.1 | 21.8 | 22.0 | 22.7 | 23.8 |
| 6H | 23.6 | 24.2 | 24.5 | 25.1 | 26.2 | 22.8 | 23.4 | 23.7 | 24.3 | 25.4 |
| 8H | 24.5 | 25.0 | 25.4 | 25.9 | 27.1 | 23.7 | 24.2 | 24.6 | 25.1 | 26.3 |

Calculate in accordance with CIE 190:2010

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

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 = 1.75 | | | | | | | | |
|---|------|-------|----------------|------|------|------|------|------|------|------|------|
| 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 | NA | 0.50 | 0.57 | 0.61 | 0.69 | 0.73 | 0.77 | 0.82 | 0.86 |
| | 0.30 | | NA | 0.42 | 0.48 | 0.53 | 0.61 | 0.67 | 0.71 | 0.77 | 0.81 |
| | 0.20 | | NA | 0.36 | 0.42 | 0.47 | 0.55 | 0.61 | 0.65 | 0.72 | 0.76 |
| 0.50 | 0.50 | 0.20 | NA | 0.44 | 0.50 | 0.54 | 0.60 | 0.65 | 0.68 | 0.72 | 0.75 |
| | 0.30 | | NA | 0.38 | 0.43 | 0.48 | 0.54 | 0.59 | 0.63 | 0.68 | 0.71 |
| | 0.20 | | NA | 0.33 | 0.38 | 0.42 | 0.49 | 0.54 | 0.58 | 0.64 | 0.68 |
| 0.30 | 0.50 | 0.20 | NA | 0.39 | 0.44 | 0.47 | 0.53 | 0.56 | 0.59 | 0.63 | 0.66 |
| | 0.30 | | NA | 0.33 | 0.38 | 0.42 | 0.48 | 0.52 | 0.55 | 0.60 | 0.63 |
| | 0.20 | | NA | 0.29 | 0.34 | 0.38 | 0.44 | 0.48 | 0.52 | 0.57 | 0.60 |
| 0.00 | 0.00 | 0.00 | NA | 0.23 | 0.27 | 0.30 | 0.35 | 0.38 | 0.41 | 0.45 | 0.48 |
| Rating: 1W 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 = 1.75 | | | | | | | | |
|---|------|-------|----------------|------|------|------|------|------|------|------|------|
| 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 | NA | 0.89 | 0.78 | 0.70 | 0.58 | 0.50 | 0.44 | 0.36 | 0.30 |
| | 0.30 | | NA | 0.76 | 0.68 | 0.62 | 0.53 | 0.46 | 0.41 | 0.34 | 0.29 |
| | 0.20 | | NA | 0.66 | 0.60 | 0.55 | 0.48 | 0.42 | 0.38 | 0.32 | 0.27 |
| 0.50 | 0.50 | 0.20 | NA | 0.80 | 0.70 | 0.63 | 0.53 | 0.47 | 0.40 | 0.32 | 0.28 |
| | 0.30 | | NA | 0.69 | 0.62 | 0.56 | 0.48 | 0.42 | 0.37 | 0.31 | 0.26 |
| | 0.20 | | NA | 0.61 | 0.56 | 0.51 | 0.44 | 0.39 | 0.35 | 0.29 | 0.25 |
| 0.30 | 0.50 | 0.20 | NA | 0.71 | 0.63 | 0.57 | 0.47 | 0.41 | 0.36 | 0.30 | 0.25 |
| | 0.30 | | NA | 0.63 | 0.56 | 0.51 | 0.44 | 0.38 | 0.34 | 0.28 | 0.24 |
| | 0.20 | | NA | 0.56 | 0.51 | 0.47 | 0.41 | 0.36 | 0.32 | 0.27 | 0.23 |
| 0.00 | 0.00 | 0.00 | 0.67 | 0.44 | 0.40 | 0.37 | 0.32 | 0.28 | 0.26 | 0.21 | 0.19 |
| Rating: 1W 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 = 1.75 | | | | | | | | |
|---|------|-------|----------------|------|------|------|------|------|------|------|------|
| 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 | NA | 0.50 | 0.51 | 0.51 | 0.52 | 0.53 | 0.53 | 0.53 | 0.54 |
| | 0.30 | | NA | 0.43 | 0.44 | 0.45 | 0.46 | 0.47 | 0.48 | 0.49 | 0.50 |
| | 0.20 | | NA | 0.38 | 0.39 | 0.40 | 0.42 | 0.43 | 0.44 | 0.46 | 0.47 |
| 0.50 | 0.50 | 0.20 | NA | 0.48 | 0.49 | 0.49 | 0.50 | 0.51 | 0.51 | 0.51 | 0.51 |
| | 0.30 | | NA | 0.42 | 0.43 | 0.44 | 0.45 | 0.46 | 0.47 | 0.47 | 0.48 |
| | 0.20 | | NA | 0.37 | 0.38 | 0.39 | 0.41 | 0.42 | 0.43 | 0.44 | 0.45 |
| 0.30 | 0.50 | 0.20 | NA | 0.47 | 0.47 | 0.48 | 0.48 | 0.49 | 0.49 | 0.49 | 0.49 |
| | 0.30 | | NA | 0.41 | 0.42 | 0.43 | 0.44 | 0.45 | 0.45 | 0.46 | 0.46 |
| | 0.20 | | NA | 0.37 | 0.38 | 0.39 | 0.40 | 0.41 | 0.42 | 0.43 | 0.44 |
| 0.00 | 0.00 | 0.00 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| Rating: 1W 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 | 0.3 | 0.0 | 0.0 | 0.01 | 0.01 |
| 1.0-2.0 | 0.3 | 0.0 | 0.0 | 0.04 | 0.05 |
| 2.0-3.0 | 0.3 | 0.0 | 0.0 | 0.06 | 0.11 |
| 3.0-4.0 | 0.3 | 0.0 | 0.0 | 0.08 | 0.19 |
| 4.0-5.0 | 0.3 | 0.0 | 0.0 | 0.10 | 0.29 |
| 5.0-6.0 | 0.3 | 0.0 | 0.0 | 0.13 | 0.42 |
| 6.0-7.0 | 0.3 | 0.0 | 0.0 | 0.15 | 0.57 |
| 7.0-8.0 | 0.3 | 0.0 | 0.0 | 0.17 | 0.74 |
| 8.0-9.0 | 0.3 | 0.0 | 0.0 | 0.20 | 0.94 |
| 9.0-10.0 | 0.3 | 0.0 | 0.0 | 0.22 | 1.16 |
| 10.0-11.0 | 0.3 | 0.0 | 0.0 | 0.24 | 1.40 |
| 11.0-12.0 | 0.3 | 0.0 | 0.0 | 0.26 | 1.66 |
| 12.0-13.0 | 0.3 | 0.0 | 0.0 | 0.30 | 1.96 |
| 13.0-14.0 | 0.3 | 0.0 | 0.1 | 0.32 | 2.29 |
| 14.0-15.0 | 0.3 | 0.0 | 0.1 | 0.33 | 2.61 |
| 15.0-16.0 | 0.3 | 0.0 | 0.1 | 0.36 | 2.97 |
| 16.0-17.0 | 0.3 | 0.0 | 0.1 | 0.38 | 3.35 |
| 17.0-18.0 | 0.3 | 0.0 | 0.1 | 0.41 | 3.76 |
| 18.0-19.0 | 0.3 | 0.0 | 0.1 | 0.44 | 4.19 |
| 19.0-20.0 | 0.3 | 0.0 | 0.1 | 0.45 | 4.64 |
| 20.0-21.0 | 0.3 | 0.0 | 0.1 | 0.45 | 5.09 |
| 21.0-22.0 | 0.3 | 0.0 | 0.1 | 0.49 | 5.58 |
| 22.0-23.0 | 0.3 | 0.0 | 0.1 | 0.51 | 6.10 |
| 23.0-24.0 | 0.3 | 0.0 | 0.2 | 0.54 | 6.63 |
| 24.0-25.0 | 0.3 | 0.0 | 0.2 | 0.55 | 7.19 |
| 25.0-26.0 | 0.3 | 0.0 | 0.2 | 0.56 | 7.75 |
| 26.0-27.0 | 0.3 | 0.0 | 0.2 | 0.58 | 8.33 |
| 27.0-28.0 | 0.3 | 0.0 | 0.2 | 0.60 | 8.93 |
| 28.0-29.0 | 0.3 | 0.0 | 0.2 | 0.62 | 9.54 |
| 29.0-30.0 | 0.3 | 0.0 | 0.2 | 0.63 | 10.18 |
| 30.0-31.0 | 0.3 | 0.0 | 0.3 | 0.67 | 10.84 |
| 31.0-32.0 | 0.3 | 0.0 | 0.3 | 0.69 | 11.53 |
| 32.0-33.0 | 0.3 | 0.0 | 0.3 | 0.69 | 12.22 |
| 33.0-34.0 | 0.3 | 0.0 | 0.3 | 0.70 | 12.92 |
| 34.0-35.0 | 0.3 | 0.0 | 0.3 | 0.73 | 13.65 |
| 35.0-36.0 | 0.3 | 0.0 | 0.3 | 0.76 | 14.41 |

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

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 | 0.3 | 0.0 | 0.4 | 0.78 | 15.19 |
| 37.0-38.0 | 0.3 | 0.0 | 0.4 | 0.80 | 15.99 |
| 38.0-39.0 | 0.3 | 0.0 | 0.4 | 0.84 | 16.83 |
| 39.0-40.0 | 0.3 | 0.0 | 0.4 | 0.85 | 17.68 |
| 40.0-41.0 | 0.3 | 0.0 | 0.4 | 0.86 | 18.54 |
| 41.0-42.0 | 0.3 | 0.0 | 0.5 | 0.90 | 19.44 |
| 42.0-43.0 | 0.3 | 0.0 | 0.5 | 0.92 | 20.36 |
| 43.0-44.0 | 0.3 | 0.0 | 0.5 | 0.90 | 21.26 |
| 44.0-45.0 | 0.3 | 0.0 | 0.5 | 0.90 | 22.16 |
| 45.0-46.0 | 0.3 | 0.0 | 0.5 | 0.93 | 23.08 |
| 46.0-47.0 | 0.3 | 0.0 | 0.6 | 0.94 | 24.03 |
| 47.0-48.0 | 0.3 | 0.0 | 0.6 | 0.95 | 24.98 |
| 48.0-49.0 | 0.3 | 0.0 | 0.6 | 0.97 | 25.94 |
| 49.0-50.0 | 0.3 | 0.0 | 0.6 | 0.93 | 26.87 |
| 50.0-51.0 | 0.3 | 0.0 | 0.7 | 0.94 | 27.81 |
| 51.0-52.0 | 0.3 | 0.0 | 0.7 | 0.97 | 28.78 |
| 52.0-53.0 | 0.3 | 0.0 | 0.7 | 1.02 | 29.80 |
| 53.0-54.0 | 0.3 | 0.0 | 0.7 | 1.02 | 30.82 |
| 54.0-55.0 | 0.3 | 0.0 | 0.8 | 0.96 | 31.78 |
| 55.0-56.0 | 0.3 | 0.0 | 0.8 | 1.01 | 32.79 |
| 56.0-57.0 | 0.3 | 0.0 | 0.8 | 1.06 | 33.85 |
| 57.0-58.0 | 0.3 | 0.0 | 0.8 | 1.07 | 34.92 |
| 58.0-59.0 | 0.3 | 0.0 | 0.9 | 1.03 | 35.95 |
| 59.0-60.0 | 0.3 | 0.0 | 0.9 | 1.07 | 37.02 |
| 60.0-61.0 | 0.3 | 0.0 | 0.9 | 1.08 | 38.10 |
| 61.0-62.0 | 0.3 | 0.0 | 0.9 | 1.04 | 39.14 |
| 62.0-63.0 | 0.3 | 0.0 | 1.0 | 1.06 | 40.20 |
| 63.0-64.0 | 0.3 | 0.0 | 1.0 | 1.09 | 41.29 |
| 64.0-65.0 | 0.3 | 0.0 | 1.0 | 1.05 | 42.34 |
| 65.0-66.0 | 0.2 | 0.0 | 1.0 | 1.04 | 43.38 |
| 66.0-67.0 | 0.3 | 0.0 | 1.1 | 1.09 | 44.47 |
| 67.0-68.0 | 0.3 | 0.0 | 1.1 | 1.12 | 45.58 |
| 68.0-69.0 | 0.3 | 0.0 | 1.1 | 1.08 | 46.66 |
| 69.0-70.0 | 0.2 | 0.0 | 1.1 | 1.05 | 47.71 |
| 70.0-71.0 | 0.2 | 0.0 | 1.2 | 1.04 | 48.75 |
| 71.0-72.0 | 0.2 | 0.0 | 1.2 | 1.00 | 49.76 |

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

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 | 0.2 | 0.0 | 1.2 | 0.99 | 50.75 |
| 73.0-74.0 | 0.2 | 0.0 | 1.2 | 1.05 | 51.79 |
| 74.0-75.0 | 0.2 | 0.0 | 1.3 | 1.07 | 52.87 |
| 75.0-76.0 | 0.2 | 0.0 | 1.3 | 1.07 | 53.94 |
| 76.0-77.0 | 0.2 | 0.0 | 1.3 | 1.04 | 54.98 |
| 77.0-78.0 | 0.2 | 0.0 | 1.3 | 1.00 | 55.97 |
| 78.0-79.0 | 0.2 | 0.0 | 1.4 | 0.98 | 56.96 |
| 79.0-80.0 | 0.2 | 0.0 | 1.4 | 1.00 | 57.96 |
| 80.0-81.0 | 0.2 | 0.0 | 1.4 | 1.01 | 58.98 |
| 81.0-82.0 | 0.2 | 0.0 | 1.4 | 1.02 | 60.00 |
| 82.0-83.0 | 0.2 | 0.0 | 1.4 | 1.00 | 61.00 |
| 83.0-84.0 | 0.2 | 0.0 | 1.5 | 0.97 | 61.97 |
| 84.0-85.0 | 0.2 | 0.0 | 1.5 | 0.97 | 62.94 |
| 85.0-86.0 | 0.2 | 0.0 | 1.5 | 0.94 | 63.88 |
| 86.0-87.0 | 0.2 | 0.0 | 1.5 | 0.90 | 64.78 |
| 87.0-88.0 | 0.2 | 0.0 | 1.6 | 0.92 | 65.70 |
| 88.0-89.0 | 0.2 | 0.0 | 1.6 | 0.96 | 66.66 |
| 89.0-90.0 | 0.2 | 0.0 | 1.6 | 0.95 | 67.60 |
| 90.0-91.0 | 0.2 | 0.0 | 1.6 | 0.91 | 68.51 |
| 91.0-92.0 | 0.2 | 0.0 | 1.6 | 0.84 | 69.35 |
| 92.0-93.0 | 0.2 | 0.0 | 1.7 | 0.86 | 70.21 |
| 93.0-94.0 | 0.2 | 0.0 | 1.7 | 0.91 | 71.12 |
| 94.0-95.0 | 0.2 | 0.0 | 1.7 | 0.85 | 71.98 |
| 95.0-96.0 | 0.2 | 0.0 | 1.7 | 0.79 | 72.77 |
| 96.0-97.0 | 0.2 | 0.0 | 1.7 | 0.77 | 73.54 |
| 97.0-98.0 | 0.2 | 0.0 | 1.8 | 0.77 | 74.32 |
| 98.0-99.0 | 0.2 | 0.0 | 1.8 | 0.79 | 75.11 |
| 99.0-100.0 | 0.2 | 0.0 | 1.8 | 0.81 | 75.92 |
| 100.0-101.0 | 0.2 | 0.0 | 1.8 | 0.75 | 76.67 |
| 101.0-102.0 | 0.2 | 0.0 | 1.8 | 0.69 | 77.36 |
| 102.0-103.0 | 0.2 | 0.0 | 1.9 | 0.72 | 78.08 |
| 103.0-104.0 | 0.2 | 0.0 | 1.9 | 0.71 | 78.79 |
| 104.0-105.0 | 0.2 | 0.0 | 1.9 | 0.72 | 79.51 |
| 105.0-106.0 | 0.2 | 0.0 | 1.9 | 0.78 | 80.29 |
| 106.0-107.0 | 0.2 | 0.0 | 1.9 | 0.75 | 81.03 |
| 107.0-108.0 | 0.2 | 0.0 | 1.9 | 0.71 | 81.74 |

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

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 | 2.0 | 0.66 | 82.41 |
| 109.0-110.0 | 0.1 | 0.0 | 2.0 | 0.63 | 83.04 |
| 110.0-111.0 | 0.1 | 0.0 | 2.0 | 0.58 | 83.62 |
| 111.0-112.0 | 0.1 | 0.0 | 2.0 | 0.57 | 84.19 |
| 112.0-113.0 | 0.1 | 0.0 | 2.0 | 0.64 | 84.83 |
| 113.0-114.0 | 0.1 | 0.0 | 2.0 | 0.62 | 85.46 |
| 114.0-115.0 | 0.1 | 0.0 | 2.0 | 0.60 | 86.05 |
| 115.0-116.0 | 0.1 | 0.0 | 2.1 | 0.55 | 86.61 |
| 116.0-117.0 | 0.1 | 0.0 | 2.1 | 0.51 | 87.12 |
| 117.0-118.0 | 0.1 | 0.0 | 2.1 | 0.50 | 87.62 |
| 118.0-119.0 | 0.1 | 0.0 | 2.1 | 0.50 | 88.12 |
| 119.0-120.0 | 0.1 | 0.0 | 2.1 | 0.51 | 88.63 |
| 120.0-121.0 | 0.1 | 0.0 | 2.1 | 0.53 | 89.16 |
| 121.0-122.0 | 0.1 | 0.0 | 2.1 | 0.55 | 89.71 |
| 122.0-123.0 | 0.1 | 0.0 | 2.1 | 0.51 | 90.22 |
| 123.0-124.0 | 0.1 | 0.0 | 2.2 | 0.48 | 90.70 |
| 124.0-125.0 | 0.1 | 0.0 | 2.2 | 0.46 | 91.16 |
| 125.0-126.0 | 0.1 | 0.0 | 2.2 | 0.40 | 91.56 |
| 126.0-127.0 | 0.1 | 0.0 | 2.2 | 0.41 | 91.97 |
| 127.0-128.0 | 0.1 | 0.0 | 2.2 | 0.42 | 92.39 |
| 128.0-129.0 | 0.1 | 0.0 | 2.2 | 0.42 | 92.81 |
| 129.0-130.0 | 0.1 | 0.0 | 2.2 | 0.40 | 93.21 |
| 130.0-131.0 | 0.1 | 0.0 | 2.2 | 0.33 | 93.54 |
| 131.0-132.0 | 0.1 | 0.0 | 2.2 | 0.32 | 93.86 |
| 132.0-133.0 | 0.1 | 0.0 | 2.2 | 0.33 | 94.19 |
| 133.0-134.0 | 0.1 | 0.0 | 2.2 | 0.34 | 94.53 |
| 134.0-135.0 | 0.1 | 0.0 | 2.3 | 0.36 | 94.89 |
| 135.0-136.0 | 0.1 | 0.0 | 2.3 | 0.33 | 95.21 |
| 136.0-137.0 | 0.1 | 0.0 | 2.3 | 0.30 | 95.52 |
| 137.0-138.0 | 0.1 | 0.0 | 2.3 | 0.28 | 95.80 |
| 138.0-139.0 | 0.1 | 0.0 | 2.3 | 0.27 | 96.06 |
| 139.0-140.0 | 0.1 | 0.0 | 2.3 | 0.28 | 96.34 |
| 140.0-141.0 | 0.1 | 0.0 | 2.3 | 0.28 | 96.62 |
| 141.0-142.0 | 0.1 | 0.0 | 2.3 | 0.27 | 96.89 |
| 142.0-143.0 | 0.1 | 0.0 | 2.3 | 0.23 | 97.12 |
| 143.0-144.0 | 0.1 | 0.0 | 2.3 | 0.20 | 97.33 |

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

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 | 0.1 | 0.0 | 2.3 | 0.20 | 97.53 |
| 145.0-146.0 | 0.1 | 0.0 | 2.3 | 0.20 | 97.73 |
| 146.0-147.0 | 0.1 | 0.0 | 2.3 | 0.21 | 97.94 |
| 147.0-148.0 | 0.1 | 0.0 | 2.3 | 0.20 | 98.14 |
| 148.0-149.0 | 0.1 | 0.0 | 2.3 | 0.16 | 98.30 |
| 149.0-150.0 | 0.1 | 0.0 | 2.3 | 0.13 | 98.43 |
| 150.0-151.0 | 0.1 | 0.0 | 2.3 | 0.13 | 98.57 |
| 151.0-152.0 | 0.1 | 0.0 | 2.3 | 0.14 | 98.70 |
| 152.0-153.0 | 0.1 | 0.0 | 2.3 | 0.12 | 98.82 |
| 153.0-154.0 | 0.0 | 0.0 | 2.3 | 0.09 | 98.91 |
| 154.0-155.0 | 0.0 | 0.0 | 2.3 | 0.09 | 99.00 |
| 155.0-156.0 | 0.0 | 0.0 | 2.4 | 0.09 | 99.09 |
| 156.0-157.0 | 0.1 | 0.0 | 2.4 | 0.10 | 99.19 |
| 157.0-158.0 | 0.1 | 0.0 | 2.4 | 0.10 | 99.29 |
| 158.0-159.0 | 0.1 | 0.0 | 2.4 | 0.09 | 99.38 |
| 159.0-160.0 | 0.0 | 0.0 | 2.4 | 0.07 | 99.44 |
| 160.0-161.0 | 0.0 | 0.0 | 2.4 | 0.08 | 99.52 |
| 161.0-162.0 | 0.1 | 0.0 | 2.4 | 0.08 | 99.60 |
| 162.0-163.0 | 0.0 | 0.0 | 2.4 | 0.06 | 99.66 |
| 163.0-164.0 | 0.0 | 0.0 | 2.4 | 0.05 | 99.71 |
| 164.0-165.0 | 0.0 | 0.0 | 2.4 | 0.04 | 99.76 |
| 165.0-166.0 | 0.0 | 0.0 | 2.4 | 0.04 | 99.79 |
| 166.0-167.0 | 0.0 | 0.0 | 2.4 | 0.03 | 99.82 |
| 167.0-168.0 | 0.0 | 0.0 | 2.4 | 0.03 | 99.85 |
| 168.0-169.0 | 0.0 | 0.0 | 2.4 | 0.03 | 99.88 |
| 169.0-170.0 | 0.0 | 0.0 | 2.4 | 0.02 | 99.91 |
| 170.0-171.0 | 0.0 | 0.0 | 2.4 | 0.02 | 99.93 |
| 171.0-172.0 | 0.0 | 0.0 | 2.4 | 0.01 | 99.94 |
| 172.0-173.0 | 0.0 | 0.0 | 2.4 | 0.01 | 99.95 |
| 173.0-174.0 | 0.0 | 0.0 | 2.4 | 0.01 | 99.96 |
| 174.0-175.0 | 0.0 | 0.0 | 2.4 | 0.01 | 99.98 |
| 175.0-176.0 | 0.0 | 0.0 | 2.4 | 0.01 | 99.99 |
| 176.0-177.0 | 0.0 | 0.0 | 2.4 | 0.01 | 99.99 |
| 177.0-178.0 | 0.0 | 0.0 | 2.4 | 0.00 | 100.00 |
| 178.0-179.0 | 0.0 | 0.0 | 2.4 | 0.00 | 100.00 |
| 179.0-180.0 | 0.0 | 0.0 | 2.4 | 0.00 | 100.00 |

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

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