

Report No.:

Test Time: 2023/11/1 10:01

## Luminaire Property

Luminaire Manufacturer: Acolyte

Luminaire Category: Scroll pendants

Luminaire Description: Scroll pendants C35 RGBW SO 28W

Lamp Catalog: ALL ON

Luminous Width (mm): 35

Voltage: 24.0 V

Power: 8.64 W

Luminous Length (mm): 300

Luminous Height (mm): 40

Current: 0.360 A

Power Factor: 1.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 139.1 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H155.6,H90.7

Vertical Diffuse Angle(10%,50%): V155.5,V98.4

Luminaire Efficacy Rating (LER): 16

Max. Intensity: 59.07 cd

Total Rated Lamp Lumens: 139.1 lm

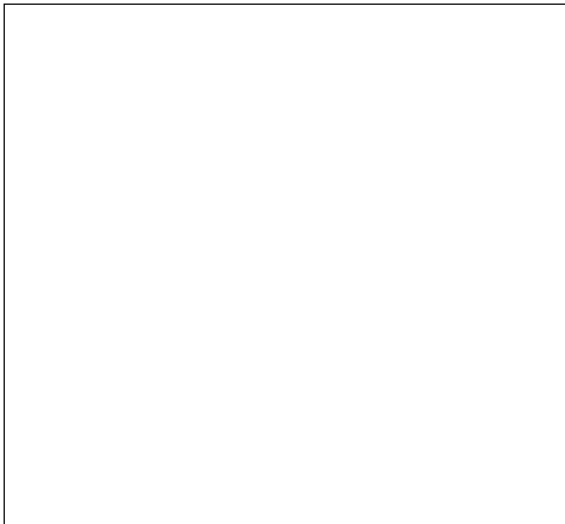
Efficiency: 100%

Upward Ratio: 1%

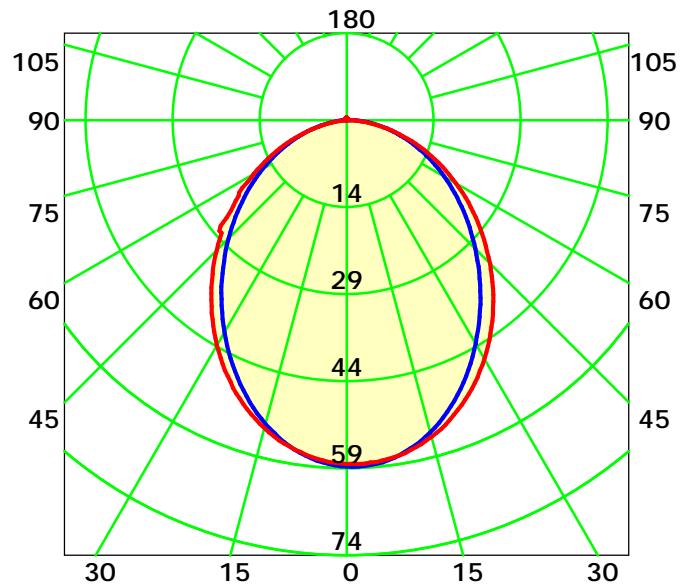
Central Intensity: 59.02 cd

Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 94.5° 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

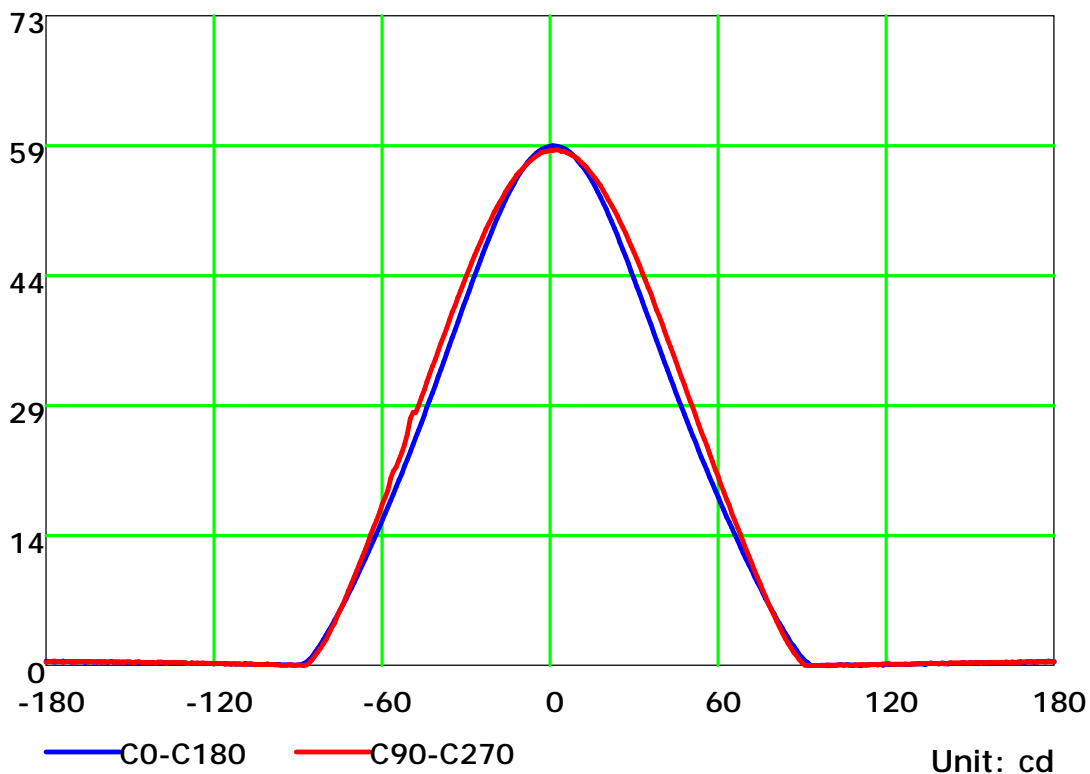
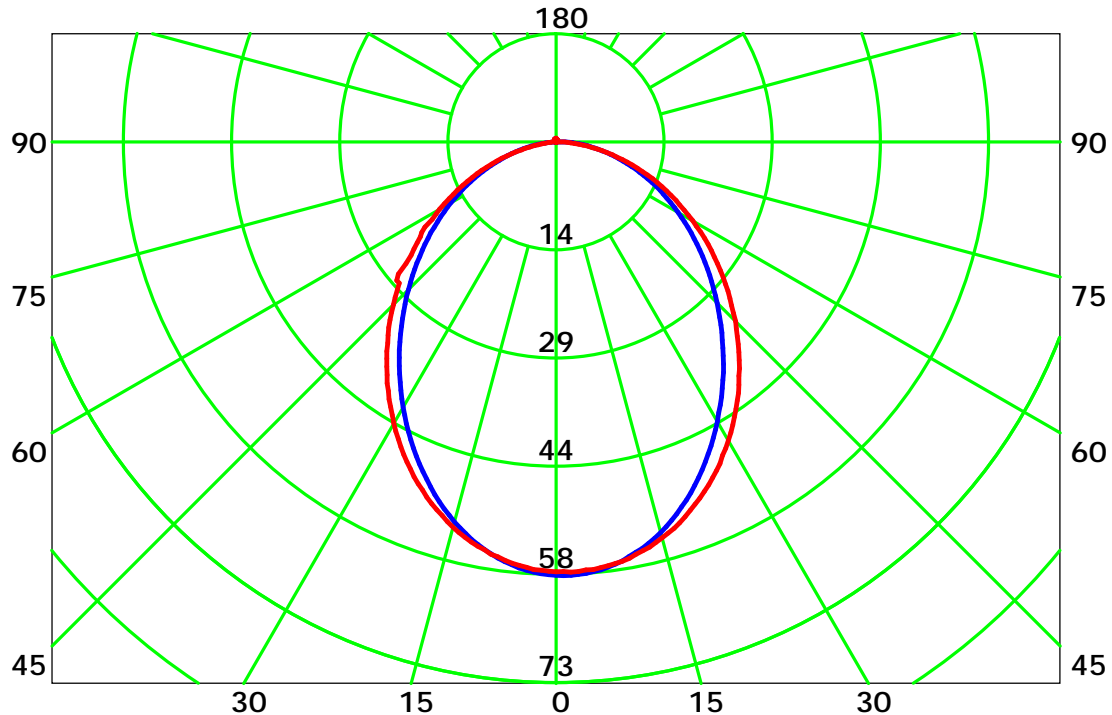
Distance: 9.028 m

Humidity: 60%

Inspector:



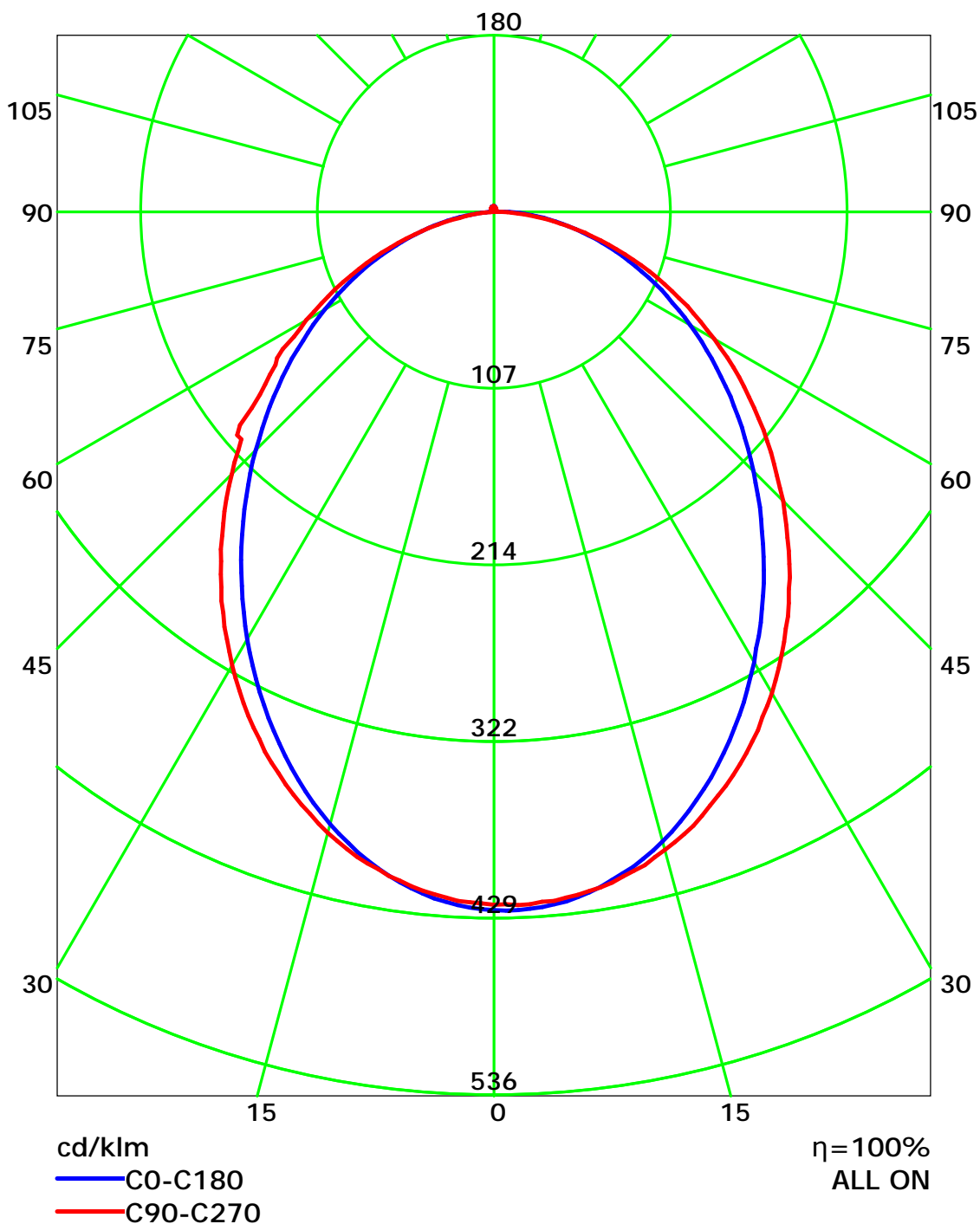
## Luminous Intensity Distribution Curve



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:

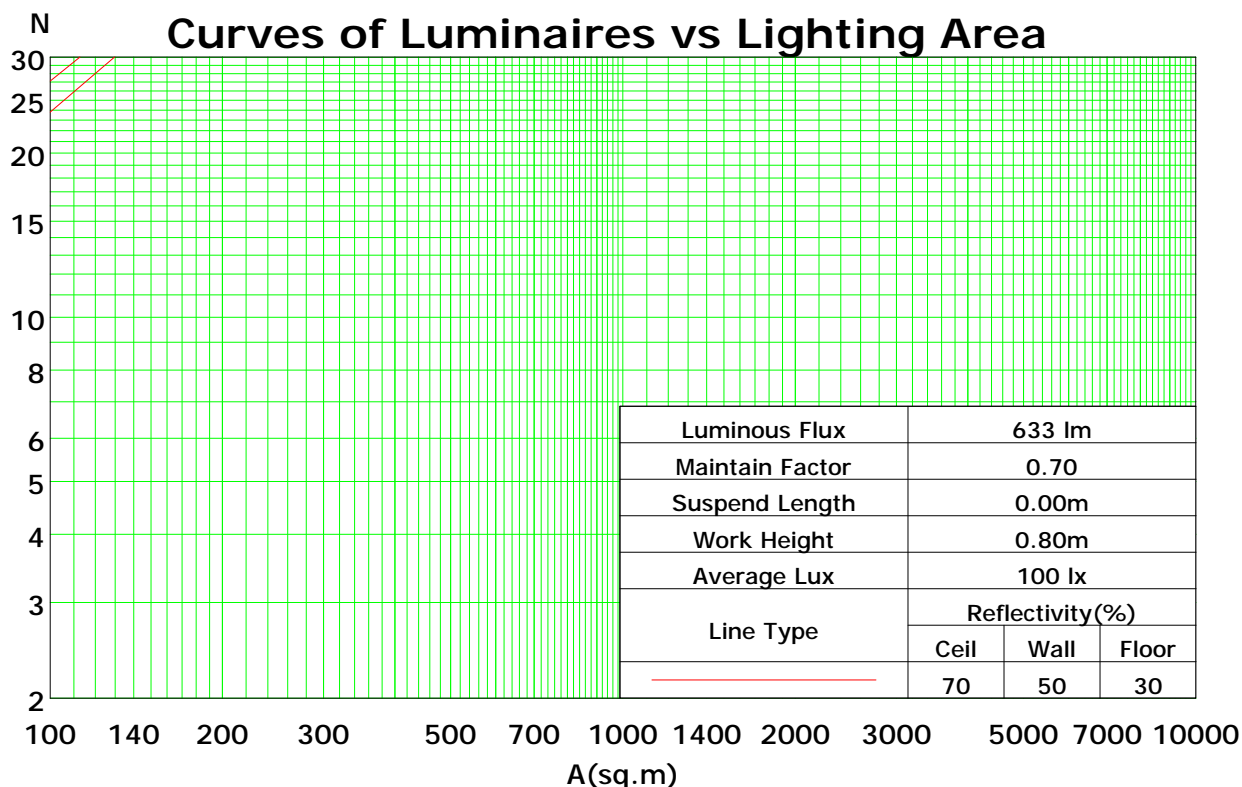
## Coefficients Of Utilization - Zonal Cavity Method

|     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 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   | 119      | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 101 | 101 | 101 | 99 |
| 1   | 109      | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84 |
| 2   | 100      | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 78  | 75  | 80  | 76  | 73  | 71 |
| 3   | 91       | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 66  | 63  | 60 |
| 4   | 84       | 72  | 64  | 57  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 52 |
| 5   | 77       | 65  | 56  | 50  | 75  | 64  | 56  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 45 |
| 6   | 72       | 59  | 50  | 44  | 70  | 58  | 49  | 43  | 56  | 48  | 43  | 54  | 48  | 43  | 52  | 47  | 42  | 40 |
| 7   | 67       | 53  | 45  | 39  | 65  | 53  | 44  | 39  | 51  | 44  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 36 |
| 8   | 62       | 49  | 41  | 35  | 60  | 48  | 40  | 35  | 47  | 40  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32 |
| 9   | 58       | 45  | 37  | 32  | 57  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29 |
| 10  | 55       | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26 |

Spacing Criteria (0-180): 1.10

Spacing Criteria (90-270): 1.17

Spacing Criteria (Diagonal): 1.24



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

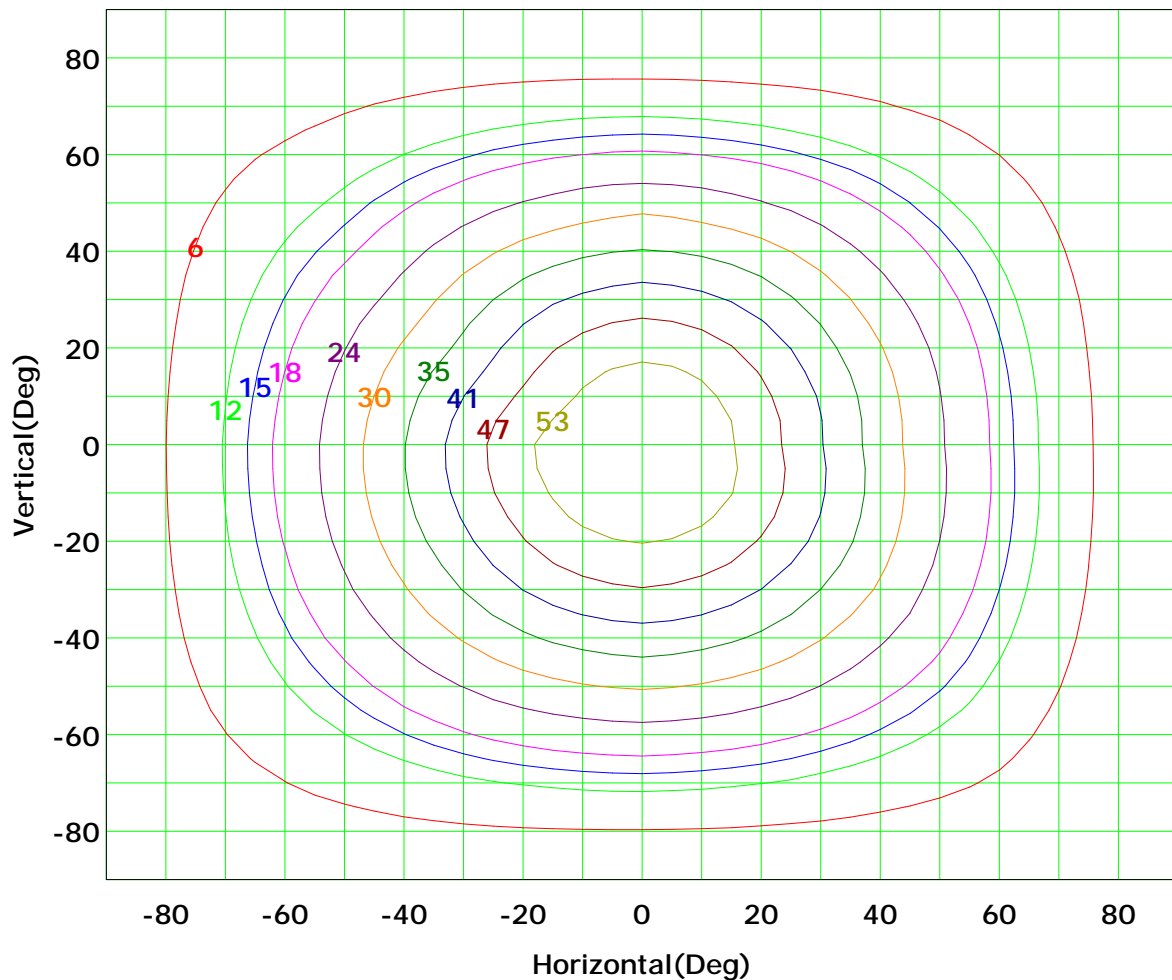
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



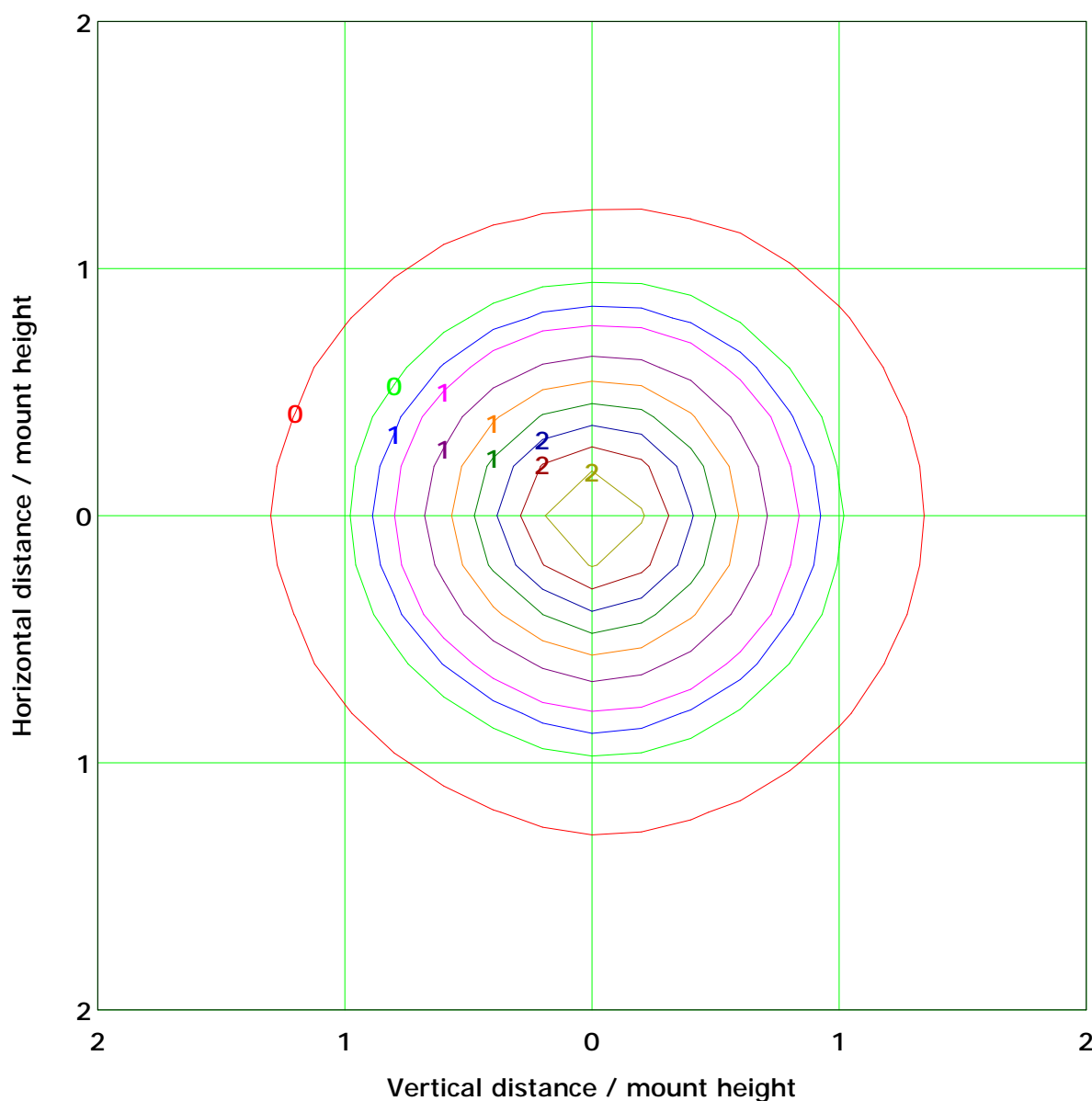
Imax (100%): 59 cd

|         |       |         |       |
|---------|-------|---------|-------|
| ( 10%): | 6 cd  | ( 20%): | 12 cd |
| ( 25%): | 15 cd | ( 30%): | 18 cd |
| ( 40%): | 24 cd | ( 50%): | 30 cd |
| ( 60%): | 35 cd | ( 70%): | 41 cd |
| ( 80%): | 47 cd | ( 90%): | 53 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%): 2.4 lx

|                |                |
|----------------|----------------|
| ( 10%): 0.2 lx | ( 20%): 0.5 lx |
| ( 25%): 0.6 lx | ( 30%): 0.7 lx |
| ( 40%): 0.9 lx | ( 50%): 1.2 lx |
| ( 60%): 1.4 lx | ( 70%): 1.7 lx |
| ( 80%): 1.9 lx | ( 90%): 2.1 lx |

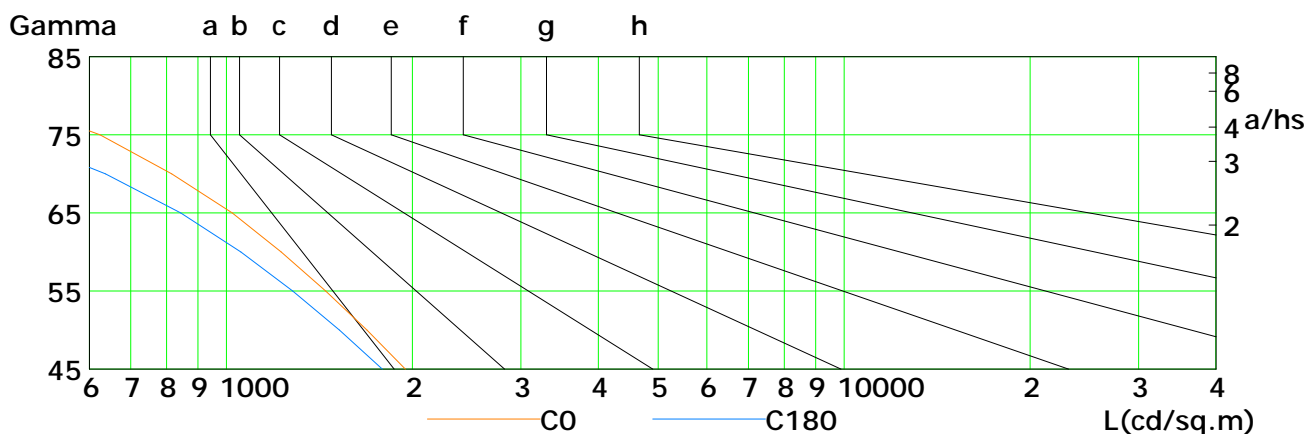
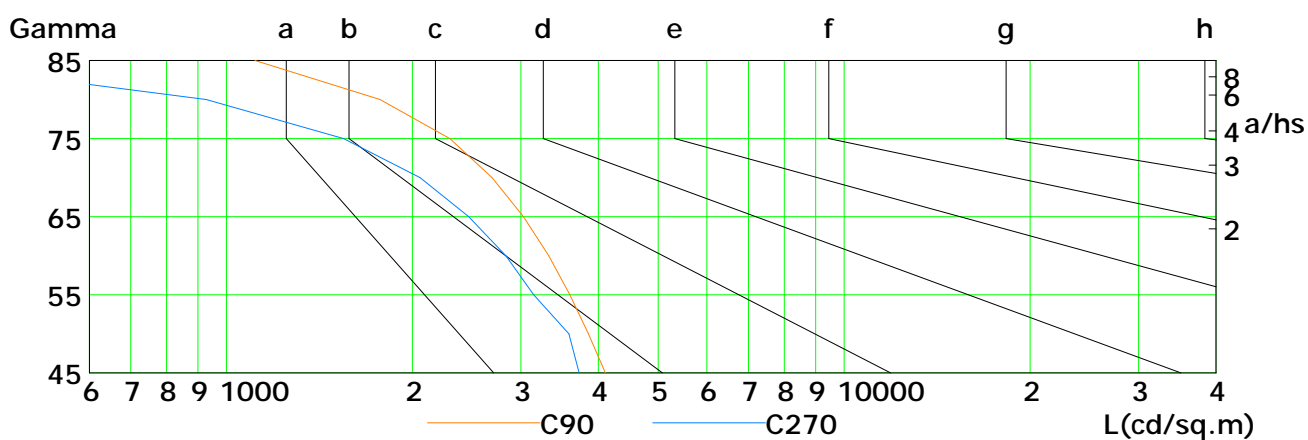
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

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

## 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

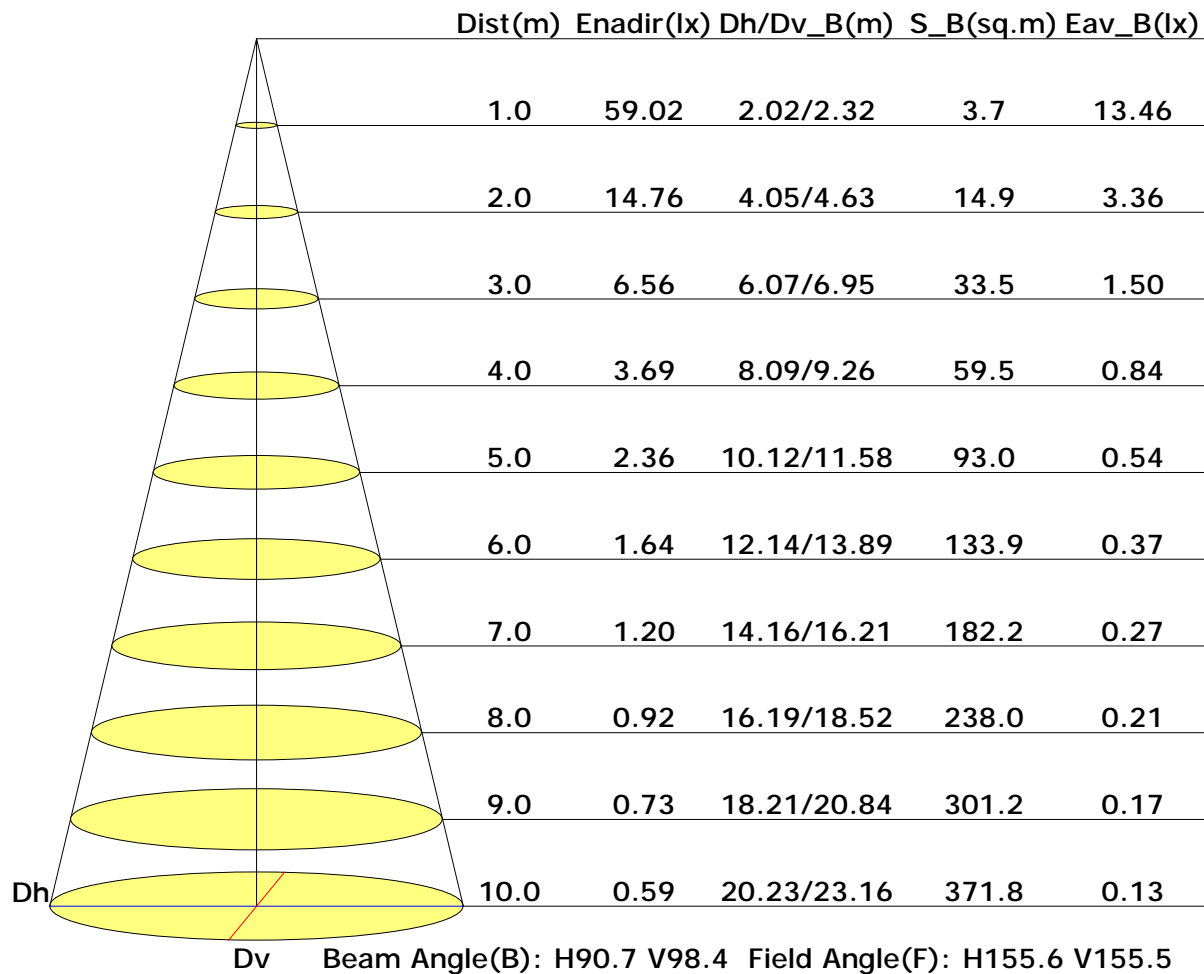


| L(cd/sq.m) | G45  | G50  | G55  | G60  | G65  | G70  | G75  | G80  | G85  |
|------------|------|------|------|------|------|------|------|------|------|
| C0         | 1950 | 1689 | 1449 | 1226 | 1023 | 816  | 624  | 430  | 251  |
| C90        | 4110 | 3855 | 3600 | 3327 | 3026 | 2694 | 2300 | 1774 | 1113 |
| C180       | 1789 | 1524 | 1281 | 1055 | 844  | 637  | 443  | 254  | 82   |
| C270       | 3724 | 3586 | 3147 | 2835 | 2467 | 2058 | 1548 | 928  | 303  |

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

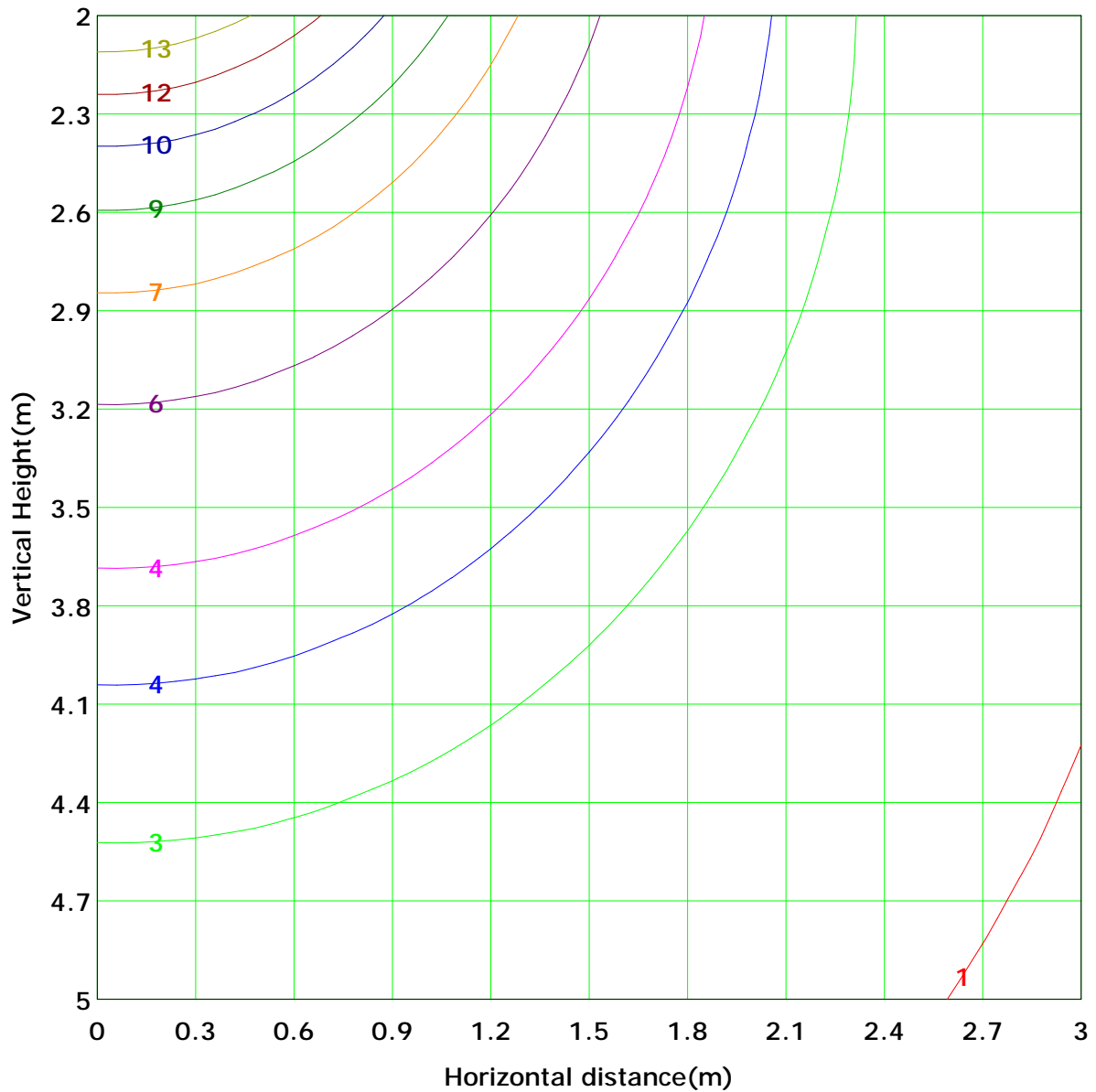


C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

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



## Vertical IsoLux Plot



|                 |                  |                  |
|-----------------|------------------|------------------|
| Lowest(m): 2.0m | Highest(m): 5.0m | Max Lux: 14.8 lx |
| ( 10%): 1.5 lx  | ( 20%): 3.0 lx   | ( 30%): 4.4 lx   |
| ( 25%): 3.7 lx  | ( 40%): 5.9 lx   | ( 50%): 7.4 lx   |
| ( 60%): 8.9 lx  | ( 70%): 10.3 lx  | ( 80%): 11.8 lx  |
| ( 90%): 13.3 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

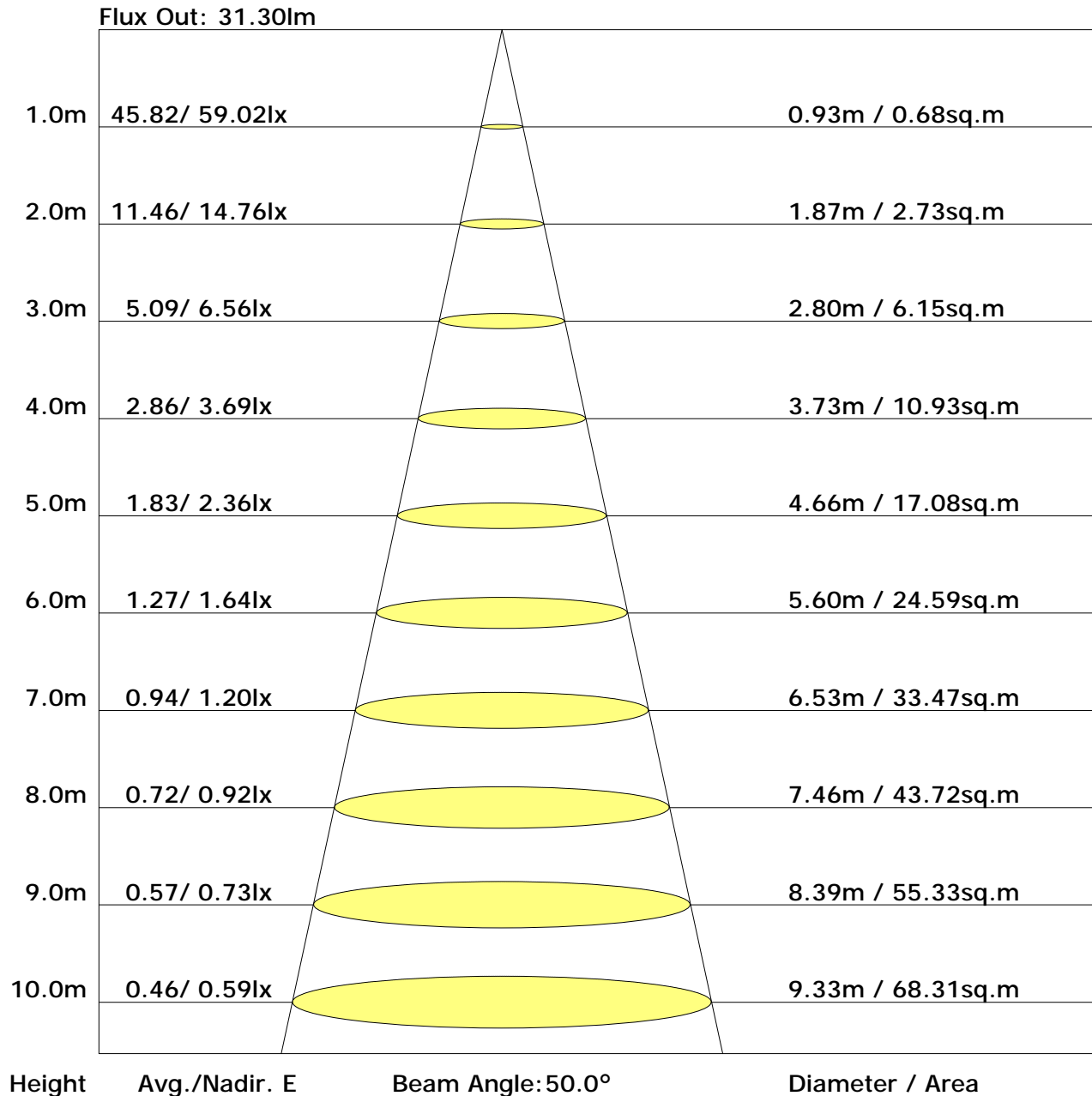
| Vertical plane   |         | -90 | -80 | -70 | -60 | -50 | -40 | -30  | -20  | -10  | 0    | 10   | 20   | 30  | 40  | 50  | 60  | 70  | 80  | 90  | Flux(T) | Flux(E) |
|------------------|---------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|---------|---------|
| Horizontal plane | Flux(E) | 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 | 0.1     | 0.0     |
|                  |         | 0.3 | 0.3 | 1.6 | 3.6 | 6.3 | 9.5 | 12.7 | 15.4 | 17.0 | 17.0 | 15.4 | 12.8 | 9.7 | 6.6 | 4.0 | 1.9 | 0.6 | 0.0 | 0.0 | 0.6     | 0.0     |
| -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 | 0.0 | 0.0 | 0.1     | 0.0     |
| -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 | 0.0 | 0.0 | 0.6     | 0.0     |
| -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 | 0.0 | 0.0 | 1.8     | 0.0     |
| -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 | 0.0 | 0.0 | 3.8     | 0.0     |
| -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 | 0.0 | 0.0 | 6.5     | 0.0     |
| -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 | 0.0 | 0.0 | 9.7     | 0.0     |
| -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 | 0.0 | 0.0 | 12.9    | 0.0     |
| -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 | 0.0 | 0.0 | 15.6    | 0.0     |
| -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 | 0.0 | 0.0 | 17.1    | 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 | 0.0 | 0.0 | 0.0 | 17.1    | 0.0     |
| 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 | 0.0 | 0.0 | 15.6    | 0.0     |
| 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 | 0.0 | 0.0 | 13.0    | 0.0     |
| 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 | 0.0 | 0.0 | 9.9     | 0.0     |
| 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 | 0.0 | 0.0 | 6.8     | 0.0     |
| 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 | 0.0 | 0.0 | 4.2     | 0.0     |
| 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 | 0.0 | 0.0 | 2.2     | 0.0     |
| 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 | 0.0 | 0.0 | 0.8     | 0.0     |
| 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 | 0.0 | 0.0 | 0.1     | 0.0     |
| 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 | 0.0 | 0.0 | 138     | 0.0     |
| Flux(T)Flux(E)   |         |     |     |     |     |     |     |      |      |      |      |      |      |     |     |     |     |     |     |     | 138     | 134     |

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        | 21.2             | 22.8 | 21.6 | 23.1 | 23.4 | 20.5           | 22.0 | 20.8 | 22.3 | 22.7 |
| 3H               | 22.9             | 24.3 | 23.3 | 24.7 | 25.0 | 21.8           | 23.2 | 22.2 | 23.5 | 23.9 |
| 4H               | 23.6             | 24.9 | 24.0 | 25.2 | 25.6 | 22.2           | 23.5 | 22.6 | 23.9 | 24.3 |
| 6H               | 24.1             | 25.3 | 24.5 | 25.7 | 26.1 | 22.4           | 23.7 | 22.9 | 24.0 | 24.5 |
| 8H               | 24.2             | 25.4 | 24.7 | 25.8 | 26.2 | 22.5           | 23.7 | 22.9 | 24.1 | 24.5 |
| 12H              | 24.4             | 25.5 | 24.8 | 25.9 | 26.3 | 22.5           | 23.6 | 23.0 | 24.0 | 24.5 |
| X=4H Y=2H        | 21.5             | 22.8 | 21.9 | 23.2 | 23.6 | 21.0           | 22.3 | 21.4 | 22.7 | 23.1 |
| 3H               | 23.4             | 24.5 | 23.8 | 24.9 | 25.3 | 22.5           | 23.6 | 22.9 | 24.0 | 24.4 |
| 4H               | 24.1             | 25.1 | 24.5 | 25.5 | 26.0 | 23.0           | 24.0 | 23.4 | 24.4 | 24.9 |
| 6H               | 24.7             | 25.5 | 25.1 | 26.0 | 26.5 | 23.3           | 24.2 | 23.8 | 24.7 | 25.1 |
| 8H               | 24.9             | 25.7 | 25.4 | 26.2 | 26.6 | 23.4           | 24.2 | 23.9 | 24.7 | 25.2 |
| 12H              | 25.1             | 25.8 | 25.6 | 26.3 | 26.8 | 23.4           | 24.2 | 23.9 | 24.7 | 25.2 |
| X=8H Y=4H        | 24.2             | 25.0 | 24.6 | 25.4 | 25.9 | 23.2           | 24.0 | 23.7 | 24.5 | 25.0 |
| 6H               | 24.8             | 25.5 | 25.3 | 26.0 | 26.5 | 23.6           | 24.3 | 24.1 | 24.8 | 25.3 |
| 8H               | 25.1             | 25.7 | 25.6 | 26.2 | 26.7 | 23.7           | 24.4 | 24.3 | 24.9 | 25.4 |
| 12H              | 25.3             | 25.8 | 25.8 | 26.3 | 26.9 | 23.8           | 24.4 | 24.3 | 24.9 | 25.4 |
| X=12H Y=4H       | 24.2             | 24.9 | 24.7 | 25.4 | 25.9 | 23.2           | 24.0 | 23.7 | 24.5 | 25.0 |
| 6H               | 24.8             | 25.4 | 25.3 | 25.9 | 26.5 | 23.7           | 24.3 | 24.2 | 24.8 | 25.3 |
| 8H               | 25.1             | 25.6 | 25.6 | 26.1 | 26.7 | 23.8           | 24.3 | 24.3 | 24.9 | 25.4 |

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 = 1.25 |      |      |      |      |      |      |      |      |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|
| 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  | 0.60           | 0.70 | 0.77 | 0.82 | 0.89 | 0.94 | 0.97 | 1.01 | 1.04 |
|  | 0.30 |       | 0.52           | 0.62 | 0.70 | 0.75 | 0.83 | 0.88 | 0.92 | 0.97 | 1.01 |
|  | 0.20 |       | 0.47           | 0.57 | 0.64 | 0.70 | 0.78 | 0.84 | 0.88 | 0.94 | 0.98 |
| 0.50   | 0.50 | 0.20  | 0.58           | 0.68 | 0.74 | 0.79 | 0.86 | 0.90 | 0.93 | 0.97 | 1.00 |
|  | 0.30 |       | 0.51           | 0.61 | 0.68 | 0.73 | 0.81 | 0.86 | 0.89 | 0.94 | 0.97 |
|  | 0.20 |       | 0.46           | 0.56 | 0.63 | 0.69 | 0.76 | 0.82 | 0.86 | 0.91 | 0.94 |
| 0.30   | 0.50 | 0.20  | 0.57           | 0.66 | 0.72 | 0.76 | 0.83 | 0.87 | 0.89 | 0.93 | 0.96 |
|  | 0.30 |       | 0.51           | 0.60 | 0.67 | 0.72 | 0.78 | 0.83 | 0.86 | 0.91 | 0.93 |
|  | 0.20 |       | 0.46           | 0.56 | 0.62 | 0.68 | 0.75 | 0.80 | 0.83 | 0.88 | 0.91 |
| 0.00   | 0.00 | 0.00  | 0.44           | 0.53 | 0.60 | 0.64 | 0.71 | 0.76 | 0.79 | 0.84 | 0.86 |
| Rating:9W Photometrically tested without ceiling board.<br>Multiply UF values by service correction factors<br>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  | 0.95           | 0.78 | 0.66 | 0.58 | 0.46 | 0.38 | 0.33 | 0.25 | 0.21 |  |
|   | 0.30 |       | 0.79           | 0.67 | 0.58 | 0.51 | 0.42 | 0.35 | 0.30 | 0.24 | 0.20 |  |
|   | 0.20 |       | 0.68           | 0.58 | 0.51 | 0.46 | 0.38 | 0.32 | 0.28 | 0.22 | 0.19 |  |
| 0.50  | 0.50 | 0.20  | 0.91           | 0.75 | 0.63 | 0.55 | 0.44 | 0.40 | 0.31 | 0.24 | 0.19 |  |
|   | 0.30 |       | 0.77           | 0.65 | 0.56 | 0.49 | 0.40 | 0.33 | 0.29 | 0.23 | 0.19 |  |
|   | 0.20 |       | 0.67           | 0.57 | 0.50 | 0.45 | 0.37 | 0.31 | 0.27 | 0.21 | 0.18 |  |
| 0.30  | 0.50 | 0.20  | 0.88           | 0.72 | 0.61 | 0.53 | 0.42 | 0.34 | 0.29 | 0.23 | 0.19 |  |
|   | 0.30 |       | 0.75           | 0.63 | 0.54 | 0.48 | 0.38 | 0.32 | 0.28 | 0.22 | 0.18 |  |
|   | 0.20 |       | 0.66           | 0.56 | 0.49 | 0.44 | 0.36 | 0.30 | 0.26 | 0.21 | 0.17 |  |
| 0.00  | 0.00 | 0.00  | 0.55           | 0.46 | 0.40 | 0.35 | 0.28 | 0.23 | 0.20 | 0.16 | 0.13 |  |
| Rating: 9W Photometrically tested without ceiling board.<br>Multiply UF values by service correction factors<br>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  | 0.17           | 0.18 | 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 |       | 0.06           | 0.07 | 0.09 | 0.10 | 0.12 | 0.14 | 0.15 | 0.17 | 0.18 |
| 0.50   | 0.50 | 0.20  | 0.16           | 0.17 | 0.18 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 |
|  | 0.30 |       | 0.10           | 0.12 | 0.13 | 0.14 | 0.15 | 0.17 | 0.17 | 0.19 | 0.19 |
|  | 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           | 0.17 | 0.18 | 0.18 | 0.19 | 0.20 | 0.20 | 0.20 | 0.21 |
|  | 0.30 |       | 0.10           | 0.11 | 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:9W Photometrically tested without ceiling board.<br>Multiply UF values by service correction factors<br>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980 |      |       |                |      |      |      |      |      |      |      |      |

## Zonal Lumen

| Gamma<br>[°] | I <sub>mean</sub><br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 0.0-1.0      | 58.6                      | 0.1                | 0.1                    | 0.04                  | 0.04                      |
| 1.0-2.0      | 58.6                      | 0.2                | 0.2                    | 0.12                  | 0.16                      |
| 2.0-3.0      | 58.5                      | 0.3                | 0.5                    | 0.20                  | 0.36                      |
| 3.0-4.0      | 58.4                      | 0.4                | 0.9                    | 0.28                  | 0.64                      |
| 4.0-5.0      | 58.2                      | 0.5                | 1.4                    | 0.36                  | 1.00                      |
| 5.0-6.0      | 58.1                      | 0.6                | 2.0                    | 0.44                  | 1.44                      |
| 6.0-7.0      | 57.8                      | 0.7                | 2.7                    | 0.52                  | 1.96                      |
| 7.0-8.0      | 57.6                      | 0.8                | 3.5                    | 0.59                  | 2.55                      |
| 8.0-9.0      | 57.3                      | 0.9                | 4.5                    | 0.67                  | 3.22                      |
| 9.0-10.0     | 56.9                      | 1.0                | 5.5                    | 0.74                  | 3.96                      |
| 10.0-11.0    | 56.6                      | 1.1                | 6.6                    | 0.81                  | 4.77                      |
| 11.0-12.0    | 56.2                      | 1.2                | 7.9                    | 0.88                  | 5.66                      |
| 12.0-13.0    | 55.8                      | 1.3                | 9.2                    | 0.95                  | 6.61                      |
| 13.0-14.0    | 55.3                      | 1.4                | 10.6                   | 1.02                  | 7.63                      |
| 14.0-15.0    | 54.8                      | 1.5                | 12.1                   | 1.08                  | 8.71                      |
| 15.0-16.0    | 54.3                      | 1.6                | 13.7                   | 1.14                  | 9.85                      |
| 16.0-17.0    | 53.7                      | 1.7                | 15.4                   | 1.20                  | 11.06                     |
| 17.0-18.0    | 53.2                      | 1.8                | 17.1                   | 1.26                  | 12.32                     |
| 18.0-19.0    | 52.5                      | 1.8                | 19.0                   | 1.31                  | 13.63                     |
| 19.0-20.0    | 51.9                      | 1.9                | 20.9                   | 1.37                  | 15.00                     |
| 20.0-21.0    | 51.3                      | 2.0                | 22.8                   | 1.42                  | 16.41                     |
| 21.0-22.0    | 50.6                      | 2.0                | 24.9                   | 1.46                  | 17.88                     |
| 22.0-23.0    | 49.9                      | 2.1                | 27.0                   | 1.51                  | 19.38                     |
| 23.0-24.0    | 49.2                      | 2.1                | 29.1                   | 1.55                  | 20.93                     |
| 24.0-25.0    | 48.4                      | 2.2                | 31.3                   | 1.58                  | 22.51                     |
| 25.0-26.0    | 47.7                      | 2.3                | 33.6                   | 1.62                  | 24.13                     |
| 26.0-27.0    | 46.9                      | 2.3                | 35.8                   | 1.65                  | 25.78                     |
| 27.0-28.0    | 46.1                      | 2.3                | 38.2                   | 1.68                  | 27.46                     |
| 28.0-29.0    | 45.3                      | 2.4                | 40.6                   | 1.71                  | 29.16                     |
| 29.0-30.0    | 44.5                      | 2.4                | 43.0                   | 1.73                  | 30.89                     |
| 30.0-31.0    | 43.7                      | 2.4                | 45.4                   | 1.75                  | 32.64                     |
| 31.0-32.0    | 42.9                      | 2.5                | 47.8                   | 1.77                  | 34.41                     |
| 32.0-33.0    | 42.0                      | 2.5                | 50.3                   | 1.78                  | 36.19                     |
| 33.0-34.0    | 41.2                      | 2.5                | 52.8                   | 1.79                  | 37.98                     |
| 34.0-35.0    | 40.3                      | 2.5                | 55.3                   | 1.80                  | 39.78                     |
| 35.0-36.0    | 39.5                      | 2.5                | 57.8                   | 1.81                  | 41.59                     |

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<br>[°] | I <sub>mean</sub><br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 36.0-37.0    | 38.6                      | 2.5                | 60.4                   | 1.81                  | 43.40                     |
| 37.0-38.0    | 37.7                      | 2.5                | 62.9                   | 1.81                  | 45.21                     |
| 38.0-39.0    | 36.9                      | 2.5                | 65.4                   | 1.81                  | 47.02                     |
| 39.0-40.0    | 36.0                      | 2.5                | 67.9                   | 1.81                  | 48.83                     |
| 40.0-41.0    | 35.1                      | 2.5                | 70.4                   | 1.80                  | 50.63                     |
| 41.0-42.0    | 34.3                      | 2.5                | 72.9                   | 1.79                  | 52.42                     |
| 42.0-43.0    | 33.4                      | 2.5                | 75.4                   | 1.78                  | 54.20                     |
| 43.0-44.0    | 32.6                      | 2.5                | 77.8                   | 1.77                  | 55.97                     |
| 44.0-45.0    | 31.7                      | 2.4                | 80.3                   | 1.75                  | 57.72                     |
| 45.0-46.0    | 30.8                      | 2.4                | 82.7                   | 1.73                  | 59.46                     |
| 46.0-47.0    | 30.0                      | 2.4                | 85.1                   | 1.71                  | 61.17                     |
| 47.0-48.0    | 29.1                      | 2.4                | 87.4                   | 1.69                  | 62.86                     |
| 48.0-49.0    | 28.3                      | 2.3                | 89.7                   | 1.67                  | 64.53                     |
| 49.0-50.0    | 27.5                      | 2.3                | 92.0                   | 1.65                  | 66.18                     |
| 50.0-51.0    | 26.6                      | 2.3                | 94.3                   | 1.62                  | 67.80                     |
| 51.0-52.0    | 25.7                      | 2.2                | 96.5                   | 1.59                  | 69.39                     |
| 52.0-53.0    | 24.9                      | 2.2                | 98.7                   | 1.56                  | 70.95                     |
| 53.0-54.0    | 24.1                      | 2.1                | 100.8                  | 1.53                  | 72.47                     |
| 54.0-55.0    | 23.2                      | 2.1                | 102.9                  | 1.49                  | 73.97                     |
| 55.0-56.0    | 22.4                      | 2.0                | 104.9                  | 1.46                  | 75.43                     |
| 56.0-57.0    | 21.7                      | 2.0                | 106.9                  | 1.42                  | 76.85                     |
| 57.0-58.0    | 20.8                      | 1.9                | 108.8                  | 1.39                  | 78.23                     |
| 58.0-59.0    | 20.0                      | 1.9                | 110.7                  | 1.34                  | 79.58                     |
| 59.0-60.0    | 19.2                      | 1.8                | 112.5                  | 1.30                  | 80.88                     |
| 60.0-61.0    | 18.4                      | 1.8                | 114.2                  | 1.26                  | 82.15                     |
| 61.0-62.0    | 17.6                      | 1.7                | 115.9                  | 1.22                  | 83.37                     |
| 62.0-63.0    | 16.8                      | 1.6                | 117.6                  | 1.18                  | 84.55                     |
| 63.0-64.0    | 16.1                      | 1.6                | 119.1                  | 1.13                  | 85.68                     |
| 64.0-65.0    | 15.3                      | 1.5                | 120.7                  | 1.09                  | 86.77                     |
| 65.0-66.0    | 14.5                      | 1.5                | 122.1                  | 1.04                  | 87.81                     |
| 66.0-67.0    | 13.8                      | 1.4                | 123.5                  | 1.00                  | 88.81                     |
| 67.0-68.0    | 13.0                      | 1.3                | 124.8                  | 0.95                  | 89.76                     |
| 68.0-69.0    | 12.3                      | 1.3                | 126.1                  | 0.90                  | 90.66                     |
| 69.0-70.0    | 11.6                      | 1.2                | 127.3                  | 0.86                  | 91.52                     |
| 70.0-71.0    | 10.8                      | 1.1                | 128.4                  | 0.81                  | 92.33                     |
| 71.0-72.0    | 10.1                      | 1.1                | 129.4                  | 0.76                  | 93.08                     |

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<br>[°] | I <sub>mean</sub><br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 72.0-73.0    | 9.4                       | 1.0                | 130.4                  | 0.71                  | 93.79                     |
| 73.0-74.0    | 8.7                       | 0.9                | 131.3                  | 0.66                  | 94.45                     |
| 74.0-75.0    | 8.0                       | 0.9                | 132.2                  | 0.61                  | 95.07                     |
| 75.0-76.0    | 7.4                       | 0.8                | 133.0                  | 0.56                  | 95.63                     |
| 76.0-77.0    | 6.7                       | 0.7                | 133.7                  | 0.52                  | 96.14                     |
| 77.0-78.0    | 6.1                       | 0.7                | 134.3                  | 0.47                  | 96.61                     |
| 78.0-79.0    | 5.5                       | 0.6                | 134.9                  | 0.42                  | 97.03                     |
| 79.0-80.0    | 4.9                       | 0.5                | 135.5                  | 0.38                  | 97.41                     |
| 80.0-81.0    | 4.3                       | 0.5                | 135.9                  | 0.33                  | 97.74                     |
| 81.0-82.0    | 3.7                       | 0.4                | 136.3                  | 0.29                  | 98.03                     |
| 82.0-83.0    | 3.2                       | 0.3                | 136.7                  | 0.25                  | 98.28                     |
| 83.0-84.0    | 2.6                       | 0.3                | 136.9                  | 0.21                  | 98.49                     |
| 84.0-85.0    | 2.1                       | 0.2                | 137.2                  | 0.17                  | 98.65                     |
| 85.0-86.0    | 1.7                       | 0.2                | 137.4                  | 0.13                  | 98.79                     |
| 86.0-87.0    | 1.3                       | 0.1                | 137.5                  | 0.10                  | 98.89                     |
| 87.0-88.0    | 0.9                       | 0.1                | 137.6                  | 0.07                  | 98.96                     |
| 88.0-89.0    | 0.6                       | 0.1                | 137.7                  | 0.05                  | 99.01                     |
| 89.0-90.0    | 0.4                       | 0.0                | 137.7                  | 0.03                  | 99.04                     |
| 90.0-91.0    | 0.3                       | 0.0                | 137.8                  | 0.02                  | 99.06                     |
| 91.0-92.0    | 0.1                       | 0.0                | 137.8                  | 0.01                  | 99.08                     |
| 92.0-93.0    | 0.1                       | 0.0                | 137.8                  | 0.01                  | 99.08                     |
| 93.0-94.0    | 0.1                       | 0.0                | 137.8                  | 0.01                  | 99.09                     |
| 94.0-95.0    | 0.1                       | 0.0                | 137.8                  | 0.00                  | 99.09                     |
| 95.0-96.0    | 0.1                       | 0.0                | 137.8                  | 0.00                  | 99.10                     |
| 96.0-97.0    | 0.1                       | 0.0                | 137.8                  | 0.01                  | 99.10                     |
| 97.0-98.0    | 0.1                       | 0.0                | 137.8                  | 0.01                  | 99.11                     |
| 98.0-99.0    | 0.1                       | 0.0                | 137.8                  | 0.00                  | 99.11                     |
| 99.0-100.0   | 0.1                       | 0.0                | 137.8                  | 0.01                  | 99.12                     |
| 100.0-101.0  | 0.1                       | 0.0                | 137.8                  | 0.01                  | 99.12                     |
| 101.0-102.0  | 0.1                       | 0.0                | 137.8                  | 0.01                  | 99.13                     |
| 102.0-103.0  | 0.1                       | 0.0                | 137.9                  | 0.01                  | 99.14                     |
| 103.0-104.0  | 0.1                       | 0.0                | 137.9                  | 0.01                  | 99.15                     |
| 104.0-105.0  | 0.1                       | 0.0                | 137.9                  | 0.01                  | 99.15                     |
| 105.0-106.0  | 0.1                       | 0.0                | 137.9                  | 0.01                  | 99.16                     |
| 106.0-107.0  | 0.1                       | 0.0                | 137.9                  | 0.01                  | 99.17                     |
| 107.0-108.0  | 0.1                       | 0.0                | 137.9                  | 0.01                  | 99.18                     |

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<br>[°] | I <sub>mean</sub><br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 108.0-109.0  | 0.1                       | 0.0                | 137.9                  | 0.01                  | 99.19                     |
| 109.0-110.0  | 0.1                       | 0.0                | 137.9                  | 0.01                  | 99.20                     |
| 110.0-111.0  | 0.1                       | 0.0                | 138.0                  | 0.01                  | 99.21                     |
| 111.0-112.0  | 0.1                       | 0.0                | 138.0                  | 0.01                  | 99.22                     |
| 112.0-113.0  | 0.1                       | 0.0                | 138.0                  | 0.01                  | 99.23                     |
| 113.0-114.0  | 0.1                       | 0.0                | 138.0                  | 0.01                  | 99.24                     |
| 114.0-115.0  | 0.2                       | 0.0                | 138.0                  | 0.01                  | 99.25                     |
| 115.0-116.0  | 0.2                       | 0.0                | 138.0                  | 0.01                  | 99.26                     |
| 116.0-117.0  | 0.2                       | 0.0                | 138.0                  | 0.01                  | 99.27                     |
| 117.0-118.0  | 0.2                       | 0.0                | 138.1                  | 0.01                  | 99.29                     |
| 118.0-119.0  | 0.2                       | 0.0                | 138.1                  | 0.01                  | 99.30                     |
| 119.0-120.0  | 0.2                       | 0.0                | 138.1                  | 0.01                  | 99.31                     |
| 120.0-121.0  | 0.2                       | 0.0                | 138.1                  | 0.01                  | 99.33                     |
| 121.0-122.0  | 0.2                       | 0.0                | 138.1                  | 0.01                  | 99.34                     |
| 122.0-123.0  | 0.2                       | 0.0                | 138.2                  | 0.01                  | 99.36                     |
| 123.0-124.0  | 0.2                       | 0.0                | 138.2                  | 0.01                  | 99.37                     |
| 124.0-125.0  | 0.2                       | 0.0                | 138.2                  | 0.01                  | 99.38                     |
| 125.0-126.0  | 0.2                       | 0.0                | 138.2                  | 0.01                  | 99.40                     |
| 126.0-127.0  | 0.2                       | 0.0                | 138.2                  | 0.01                  | 99.41                     |
| 127.0-128.0  | 0.2                       | 0.0                | 138.3                  | 0.02                  | 99.43                     |
| 128.0-129.0  | 0.2                       | 0.0                | 138.3                  | 0.01                  | 99.44                     |
| 129.0-130.0  | 0.2                       | 0.0                | 138.3                  | 0.01                  | 99.46                     |
| 130.0-131.0  | 0.3                       | 0.0                | 138.3                  | 0.02                  | 99.47                     |
| 131.0-132.0  | 0.3                       | 0.0                | 138.3                  | 0.02                  | 99.49                     |
| 132.0-133.0  | 0.3                       | 0.0                | 138.4                  | 0.02                  | 99.50                     |
| 133.0-134.0  | 0.3                       | 0.0                | 138.4                  | 0.02                  | 99.52                     |
| 134.0-135.0  | 0.3                       | 0.0                | 138.4                  | 0.02                  | 99.54                     |
| 135.0-136.0  | 0.3                       | 0.0                | 138.4                  | 0.02                  | 99.55                     |
| 136.0-137.0  | 0.3                       | 0.0                | 138.5                  | 0.01                  | 99.57                     |
| 137.0-138.0  | 0.3                       | 0.0                | 138.5                  | 0.02                  | 99.58                     |
| 138.0-139.0  | 0.3                       | 0.0                | 138.5                  | 0.01                  | 99.60                     |
| 139.0-140.0  | 0.3                       | 0.0                | 138.5                  | 0.02                  | 99.61                     |
| 140.0-141.0  | 0.3                       | 0.0                | 138.5                  | 0.02                  | 99.63                     |
| 141.0-142.0  | 0.3                       | 0.0                | 138.6                  | 0.02                  | 99.64                     |
| 142.0-143.0  | 0.3                       | 0.0                | 138.6                  | 0.02                  | 99.66                     |
| 143.0-144.0  | 0.3                       | 0.0                | 138.6                  | 0.02                  | 99.67                     |

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<br>[°] | I <sub>mean</sub><br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 144.0-145.0  | 0.3                       | 0.0                | 138.6                  | 0.02                  | 99.69                     |
| 145.0-146.0  | 0.3                       | 0.0                | 138.6                  | 0.01                  | 99.70                     |
| 146.0-147.0  | 0.3                       | 0.0                | 138.7                  | 0.01                  | 99.72                     |
| 147.0-148.0  | 0.3                       | 0.0                | 138.7                  | 0.01                  | 99.73                     |
| 148.0-149.0  | 0.3                       | 0.0                | 138.7                  | 0.01                  | 99.75                     |
| 149.0-150.0  | 0.3                       | 0.0                | 138.7                  | 0.01                  | 99.76                     |
| 150.0-151.0  | 0.4                       | 0.0                | 138.7                  | 0.01                  | 99.77                     |
| 151.0-152.0  | 0.4                       | 0.0                | 138.8                  | 0.01                  | 99.79                     |
| 152.0-153.0  | 0.4                       | 0.0                | 138.8                  | 0.01                  | 99.80                     |
| 153.0-154.0  | 0.4                       | 0.0                | 138.8                  | 0.01                  | 99.81                     |
| 154.0-155.0  | 0.4                       | 0.0                | 138.8                  | 0.01                  | 99.83                     |
| 155.0-156.0  | 0.4                       | 0.0                | 138.8                  | 0.01                  | 99.84                     |
| 156.0-157.0  | 0.4                       | 0.0                | 138.8                  | 0.01                  | 99.85                     |
| 157.0-158.0  | 0.4                       | 0.0                | 138.9                  | 0.01                  | 99.86                     |
| 158.0-159.0  | 0.4                       | 0.0                | 138.9                  | 0.01                  | 99.87                     |
| 159.0-160.0  | 0.4                       | 0.0                | 138.9                  | 0.01                  | 99.88                     |
| 160.0-161.0  | 0.4                       | 0.0                | 138.9                  | 0.01                  | 99.90                     |
| 161.0-162.0  | 0.4                       | 0.0                | 138.9                  | 0.01                  | 99.91                     |
| 162.0-163.0  | 0.4                       | 0.0                | 138.9                  | 0.01                  | 99.91                     |
| 163.0-164.0  | 0.4                       | 0.0                | 138.9                  | 0.01                  | 99.92                     |
| 164.0-165.0  | 0.4                       | 0.0                | 139.0                  | 0.01                  | 99.93                     |
| 165.0-166.0  | 0.4                       | 0.0                | 139.0                  | 0.01                  | 99.94                     |
| 166.0-167.0  | 0.4                       | 0.0                | 139.0                  | 0.01                  | 99.95                     |
| 167.0-168.0  | 0.4                       | 0.0                | 139.0                  | 0.01                  | 99.96                     |
| 168.0-169.0  | 0.4                       | 0.0                | 139.0                  | 0.01                  | 99.96                     |
| 169.0-170.0  | 0.4                       | 0.0                | 139.0                  | 0.01                  | 99.97                     |
| 170.0-171.0  | 0.4                       | 0.0                | 139.0                  | 0.01                  | 99.98                     |
| 171.0-172.0  | 0.4                       | 0.0                | 139.0                  | 0.01                  | 99.98                     |
| 172.0-173.0  | 0.4                       | 0.0                | 139.0                  | 0.00                  | 99.98                     |
| 173.0-174.0  | 0.4                       | 0.0                | 139.0                  | 0.00                  | 99.99                     |
| 174.0-175.0  | 0.5                       | 0.0                | 139.0                  | 0.00                  | 99.99                     |
| 175.0-176.0  | 0.5                       | 0.0                | 139.0                  | 0.00                  | 99.99                     |
| 176.0-177.0  | 0.5                       | 0.0                | 139.1                  | 0.00                  | 100.00                    |
| 177.0-178.0  | 0.5                       | 0.0                | 139.1                  | 0.00                  | 100.00                    |
| 178.0-179.0  | 0.5                       | 0.0                | 139.1                  | 0.00                  | 100.00                    |
| 179.0-180.0  | 0.5                       | 0.0                | 139.1                  | 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: