

Report No.:

Test Time: 2021/2/5 17:46

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: FLEXBACKLYTE

Lamp Catalog: 5050 RGBW 4IN1

Luminous Length (mm): 304

Luminous Height (mm): 2

Current: 0.232 A

Power Factor: 1.000

Luminaire Description: FBL242022RGB30-GREEN

Number of Lamps: 144 5050RGBW

Luminous Width (mm): 304

Voltage: 24.0 V

Power: 5.56 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 649.6 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H161.5,H119.6

Vertical Diffuse Angle(10%,50%): V161.7,V120.2

Luminaire Efficacy Rating (LER): 117

Max. Intensity: 210.42 cd

Total Rated Lamp Lumens: 649.6 lm

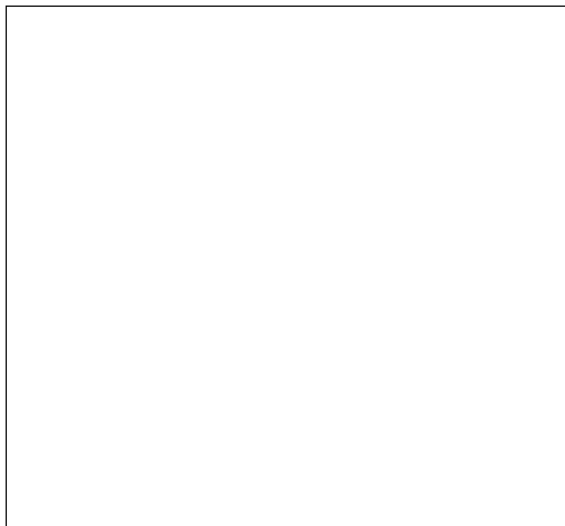
Efficiency: 100%

Upward Ratio: 1%

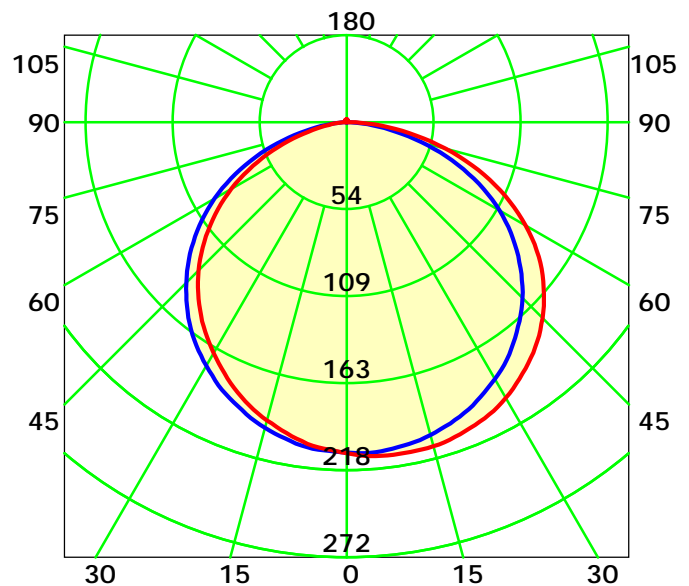
Central Intensity: 206.91 cd

Pos of Max. Intensity: H90 V9

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 119.9° 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

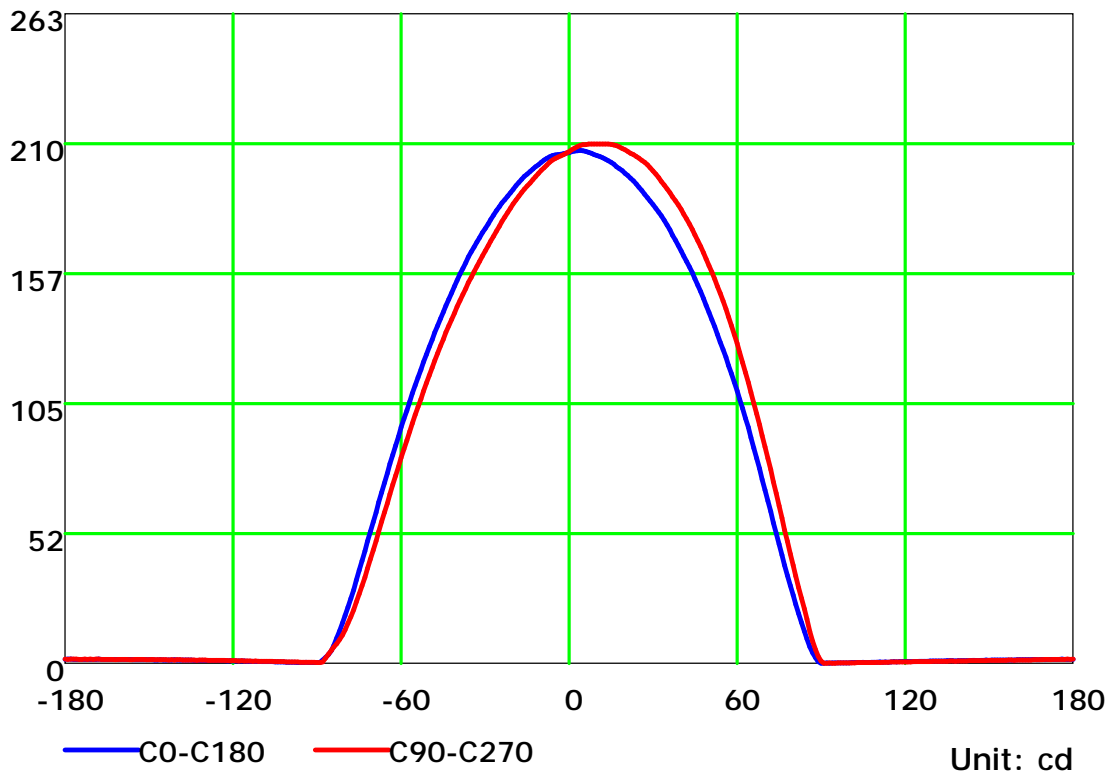
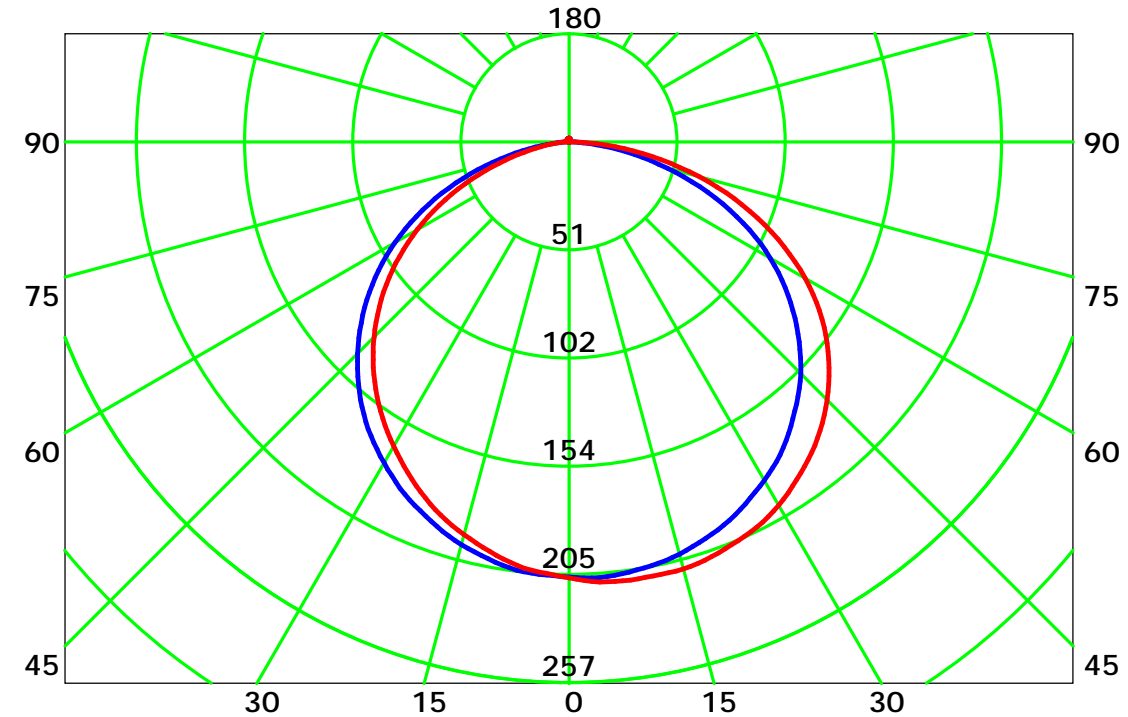
Distance: 9.028 m

Humidity: 60%

Inspector:



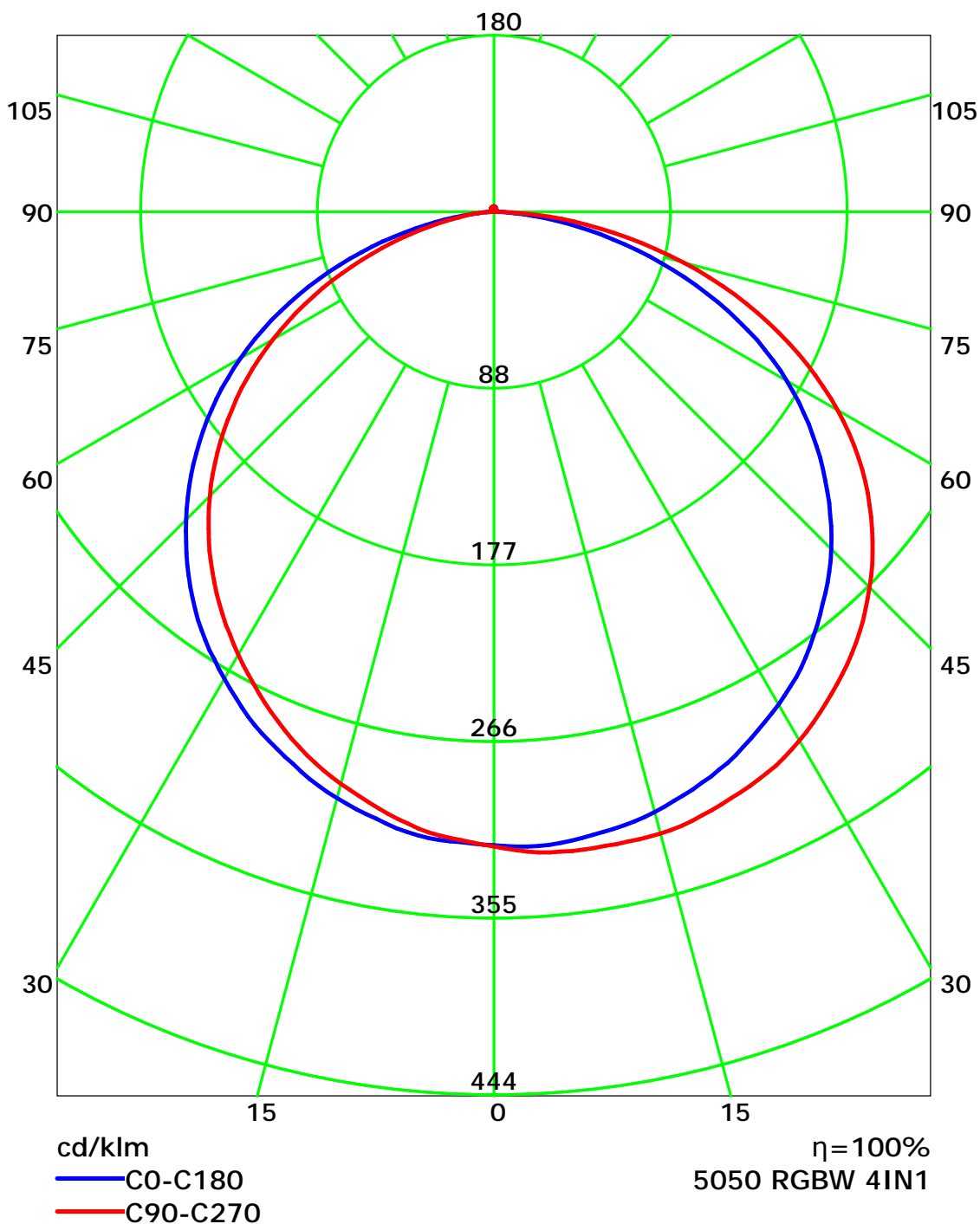
## Luminous Intensity Distribution Curve



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:

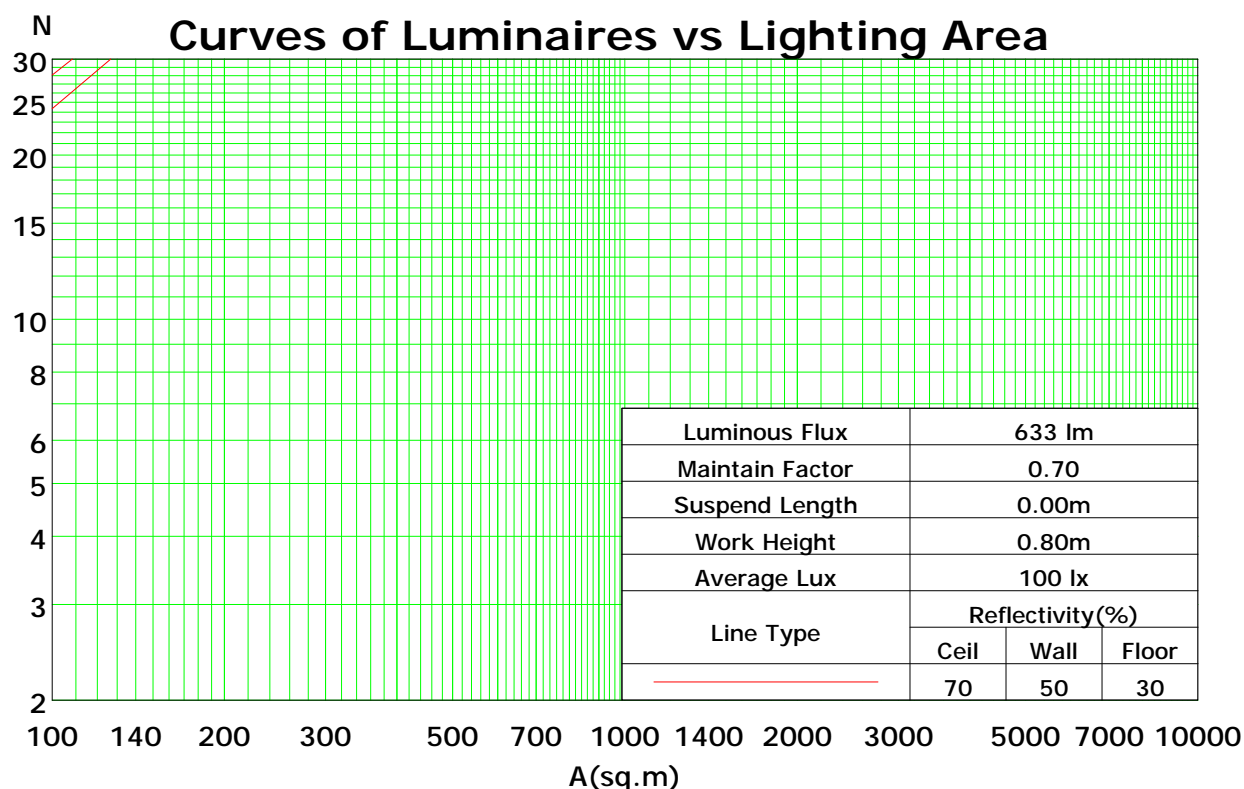
## Coefficients Of Utilization - Zonal Cavity Method

|     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 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   | 108      | 103 | 99  | 95  | 105 | 101 | 97  | 93  | 97  | 93  | 90  | 93  | 90  | 87  | 89  | 87  | 85  | 82 |
| 2   | 98       | 90  | 83  | 77  | 95  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 77  | 74  | 70  | 68 |
| 3   | 89       | 78  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 65  | 60  | 68  | 63  | 59  | 57 |
| 4   | 81       | 69  | 60  | 53  | 79  | 68  | 59  | 53  | 65  | 58  | 52  | 63  | 56  | 51  | 60  | 55  | 50  | 48 |
| 5   | 75       | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 49  | 44  | 54  | 48  | 44  | 41 |
| 6   | 69       | 55  | 46  | 40  | 67  | 54  | 46  | 39  | 52  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 38  | 36 |
| 7   | 64       | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  | 32 |
| 8   | 59       | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 43  | 36  | 31  | 42  | 35  | 30  | 41  | 35  | 30  | 28 |
| 9   | 55       | 42  | 33  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 27  | 39  | 32  | 27  | 38  | 32  | 27  | 25 |
| 10  | 52       | 38  | 30  | 25  | 51  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 25  | 23 |

Spacing Criteria (0-180): 1.30

Spacing Criteria (90-270): 1.31

Spacing Criteria (Diagonal): 1.44



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

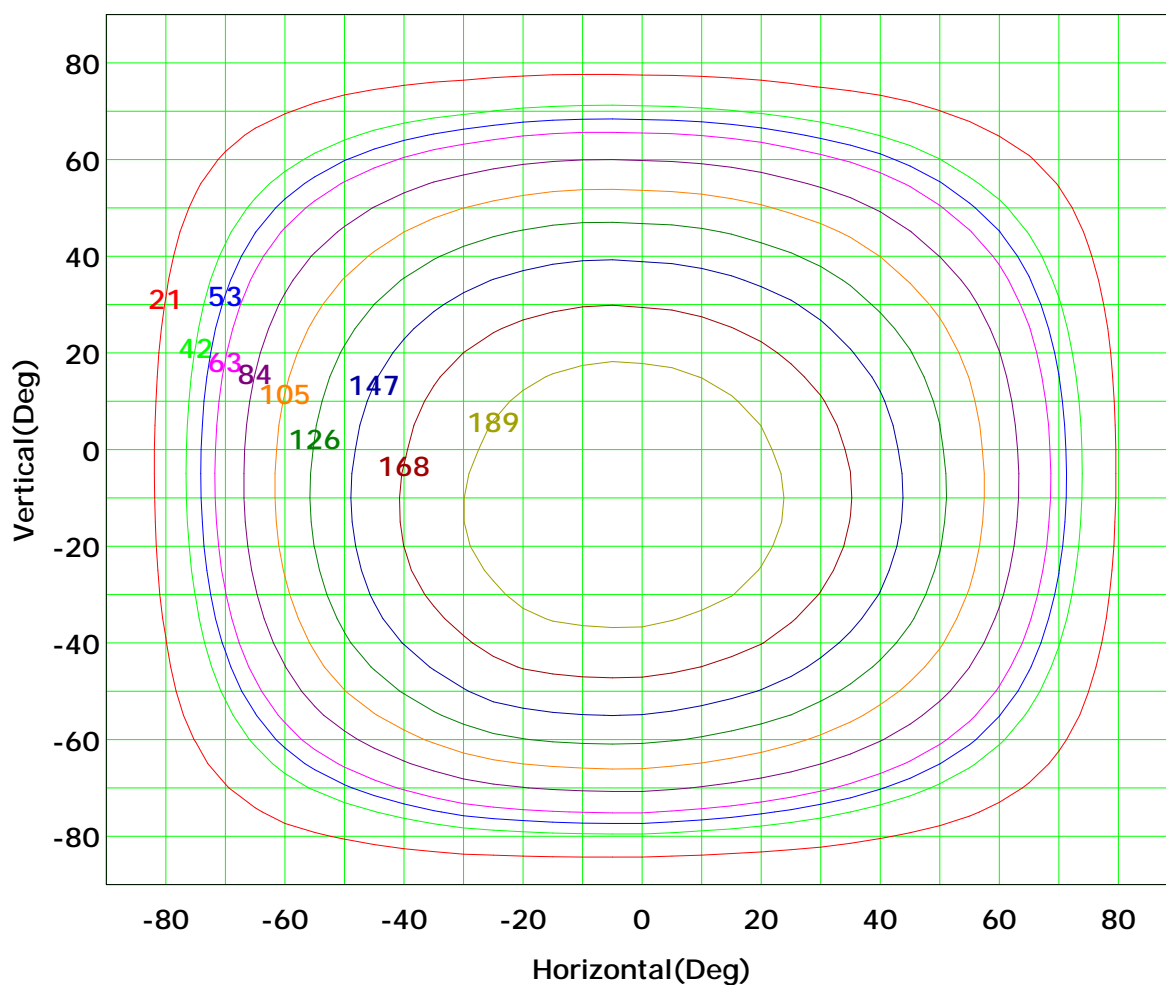
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



Imax (100%): 210 cd

|                |                |
|----------------|----------------|
| ( 10%): 21 cd  | ( 20%): 42 cd  |
| ( 25%): 53 cd  | ( 30%): 63 cd  |
| ( 40%): 84 cd  | ( 50%): 105 cd |
| ( 60%): 126 cd | ( 70%): 147 cd |
| ( 80%): 168 cd | ( 90%): 189 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

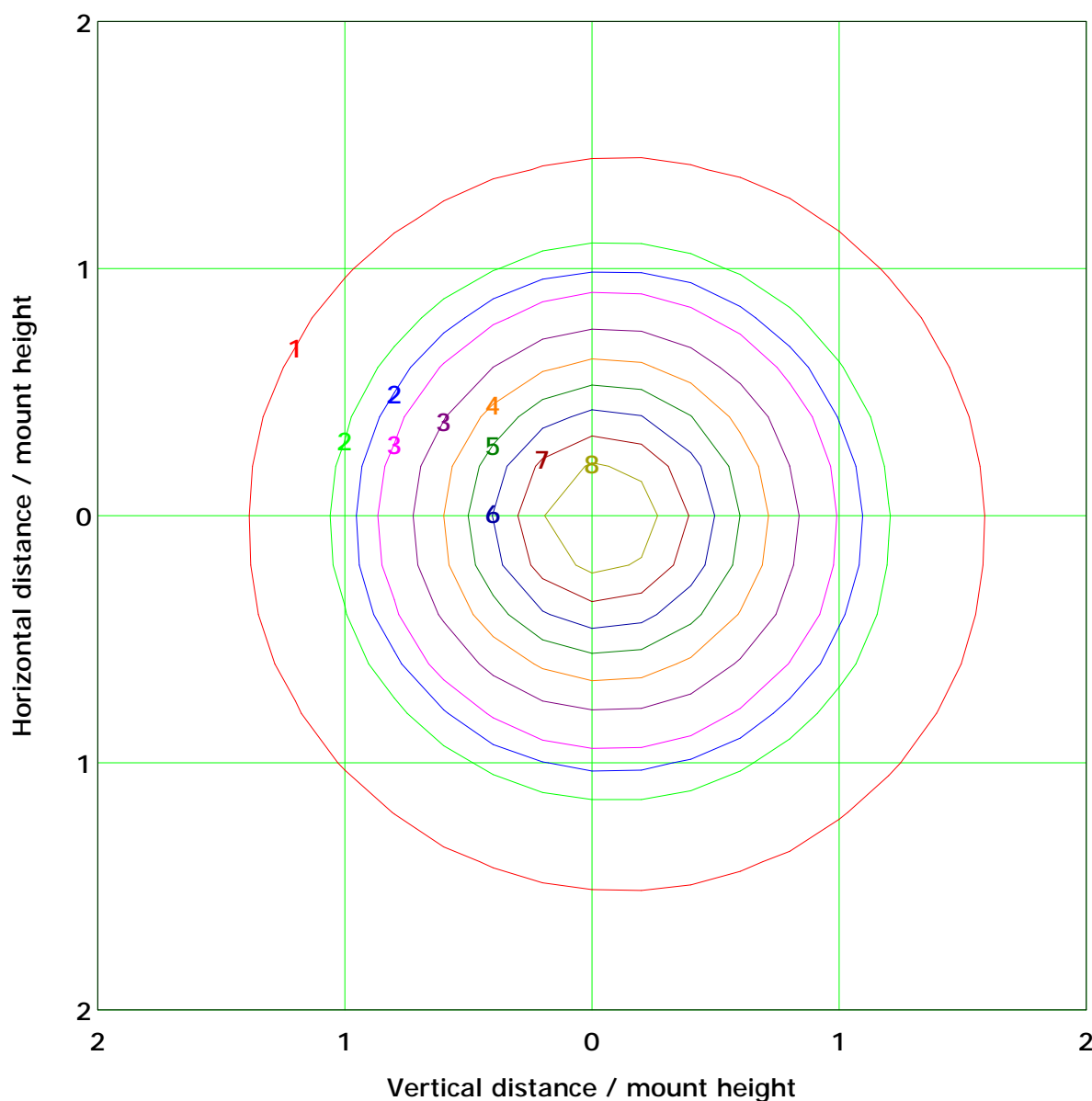
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 8.3 lx

|                |                |
|----------------|----------------|
| ( 10%): 0.8 lx | ( 20%): 1.7 lx |
| ( 25%): 2.1 lx | ( 30%): 2.5 lx |
| ( 40%): 3.3 lx | ( 50%): 4.2 lx |
| ( 60%): 5.0 lx | ( 70%): 5.8 lx |
| ( 80%): 6.7 lx | ( 90%): 7.5 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

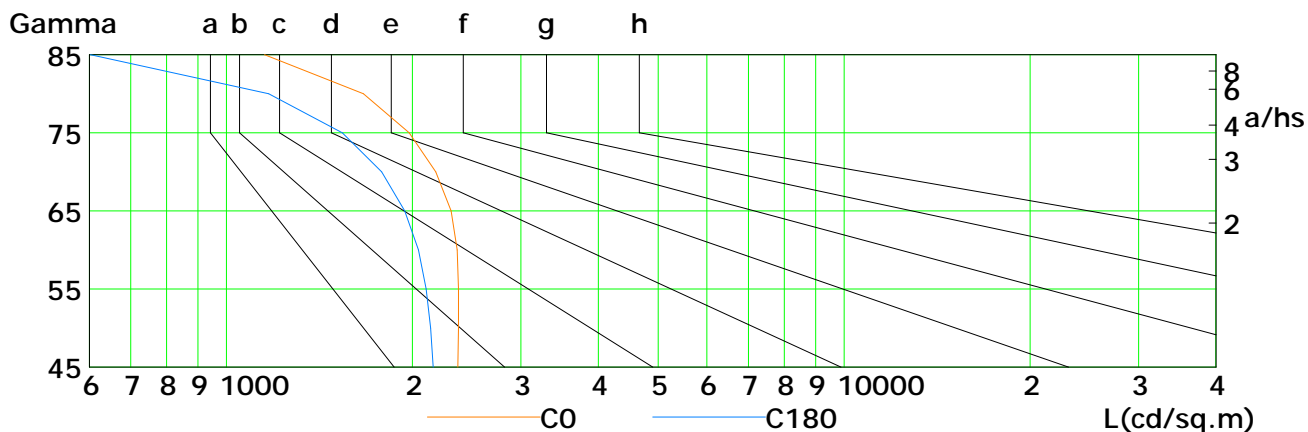
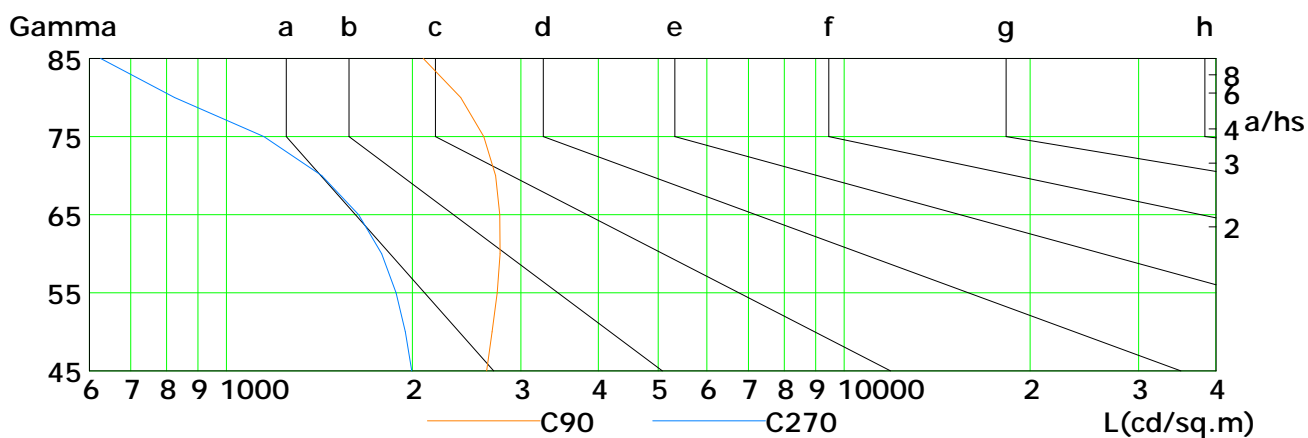
Humidity: 60%

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         | 2369 | 2375 | 2376 | 2365 | 2310 | 2183 | 1977 | 1668 | 1154 |
| C90        | 2638 | 2692 | 2746 | 2774 | 2772 | 2728 | 2610 | 2396 | 2083 |
| C180       | 2163 | 2142 | 2105 | 2047 | 1945 | 1783 | 1540 | 1171 | 603  |
| C270       | 1996 | 1948 | 1882 | 1784 | 1637 | 1427 | 1150 | 825  | 626  |

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

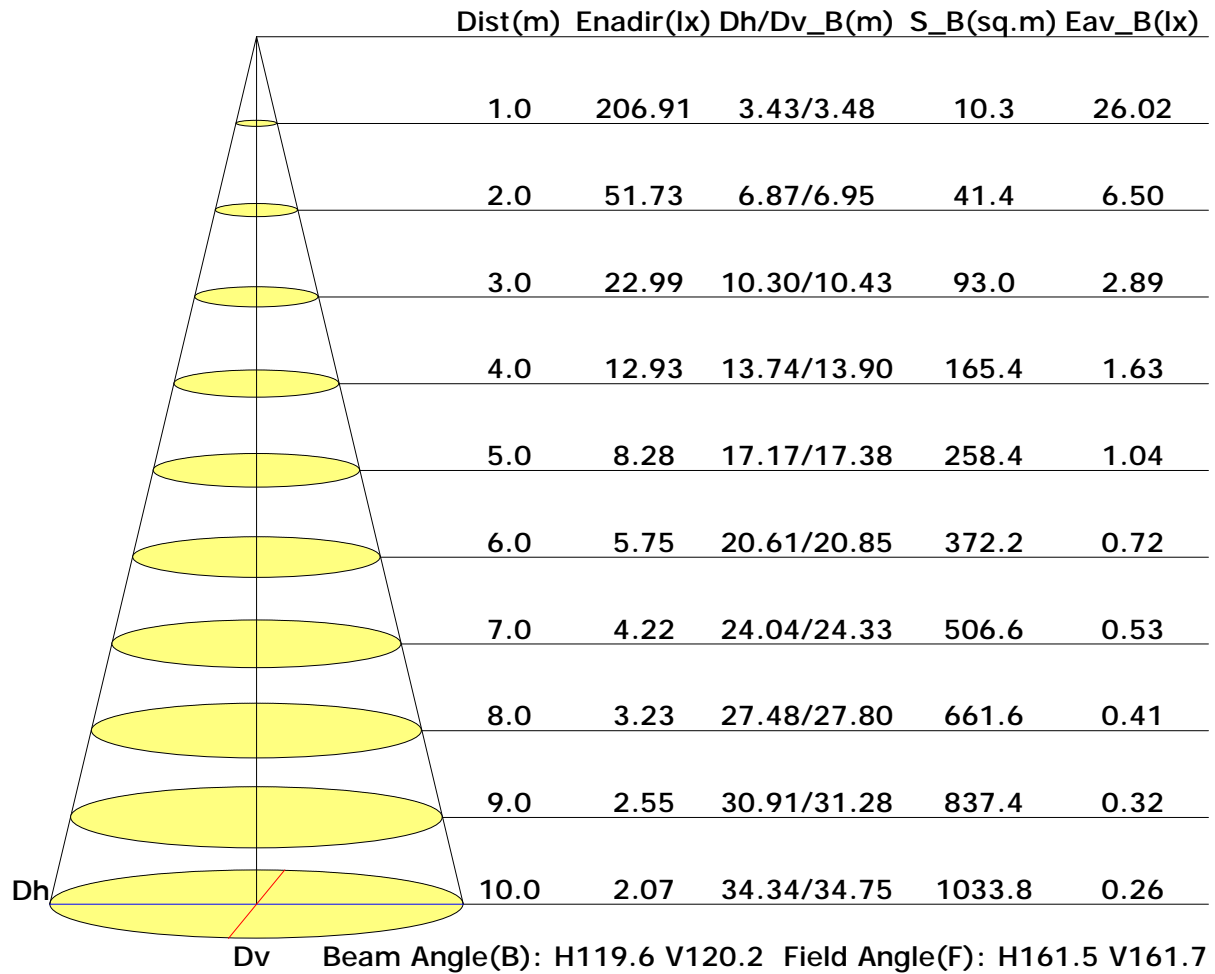
Distance: 9.028 m

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

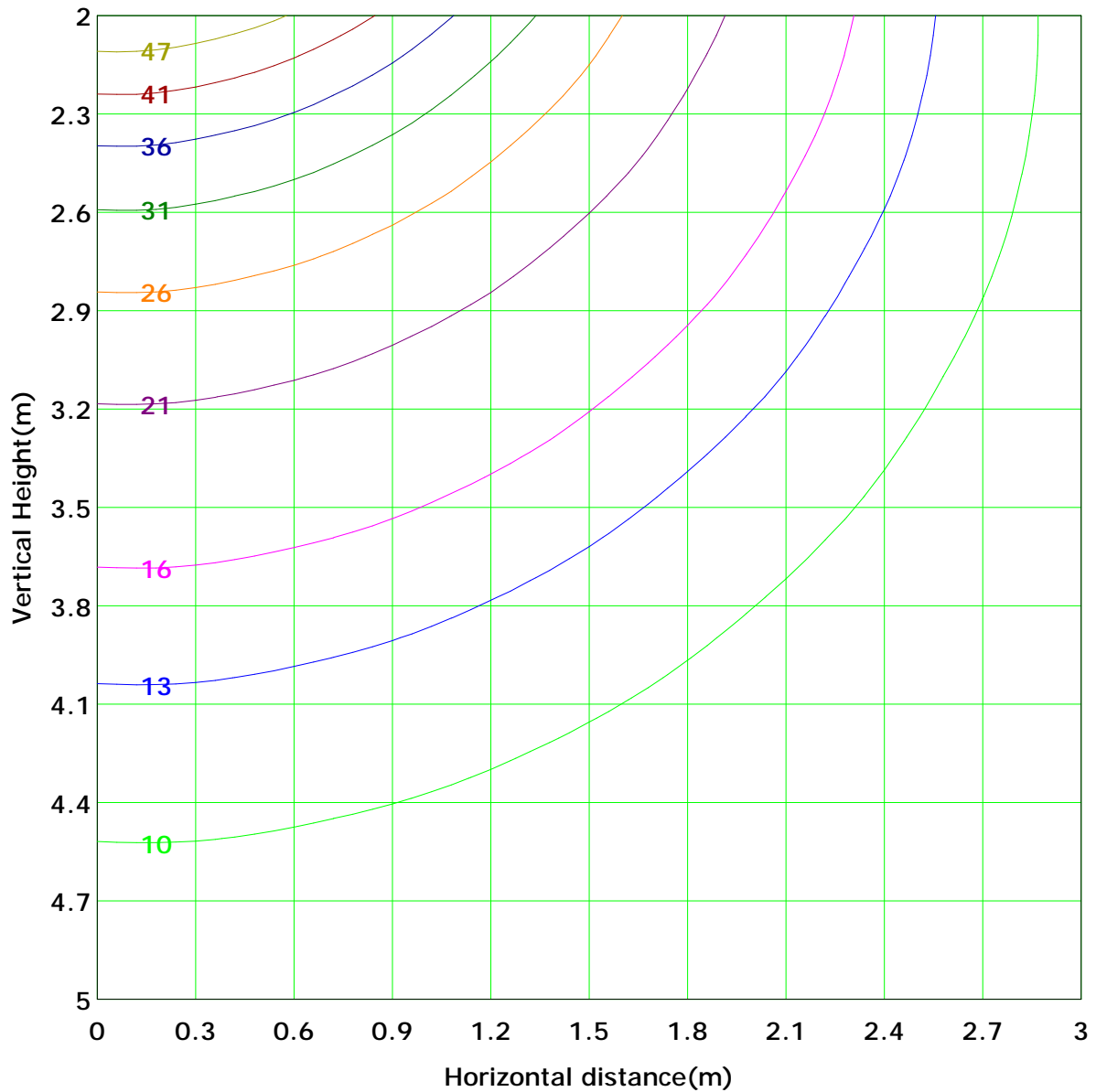
Distance: 9.028 m

Humidity: 60%

Inspector:



## Vertical IsoLux Plot



|                 |                  |                  |
|-----------------|------------------|------------------|
| Lowest(m): 2.0m | Highest(m): 5.0m | Max Lux: 51.8 lx |
| ( 10%): 5.2 lx  | ( 20%): 10.4 lx  |                  |
| ( 25%): 12.9 lx | ( 30%): 15.5 lx  |                  |
| ( 40%): 20.7 lx | ( 50%): 25.9 lx  |                  |
| ( 60%): 31.1 lx | ( 70%): 36.3 lx  |                  |
| ( 80%): 41.4 lx | ( 90%): 46.6 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) |
|----------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|
|                |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3     | 0.0     |
|                |  | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.6 | 0.6 | 0.8 | 0.9 | 0.9 | 0.8 | 0.7 | 0.5 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 3.1     | 2.5     |
|                |  | 0.0 | 0.2 | 0.7 | 1.4 | 2.2 | 3.1 | 3.8 | 4.3 | 5.0 | 5.3 | 5.4 | 4.8 | 4.5 | 4.1 | 3.4 | 2.8 | 2.1 | 1.5 | 0.9 | 10.2    | 9.7     |
|                |  | 0.0 | 0.3 | 0.8 | 1.7 | 2.6 | 3.5 | 4.3 | 5.0 | 5.3 | 5.4 | 5.1 | 4.6 | 4.1 | 3.4 | 2.8 | 2.1 | 1.5 | 0.9 | 0.1 | 20.9    | 20.4    |
|                |  | 0.0 | 0.3 | 0.9 | 1.8 | 2.9 | 3.9 | 4.7 | 5.4 | 5.8 | 5.9 | 5.6 | 5.0 | 4.6 | 4.1 | 3.4 | 2.8 | 2.1 | 1.5 | 0.0 | 33.5    | 33.0    |
|                |  | 0.0 | 0.3 | 1.0 | 1.9 | 3.0 | 4.1 | 5.0 | 5.7 | 6.1 | 6.2 | 6.0 | 5.4 | 5.0 | 4.5 | 3.9 | 3.2 | 2.5 | 1.8 | 0.0 | 46.2    | 45.7    |
|                |  | 0.0 | 0.3 | 1.0 | 2.0 | 3.1 | 4.2 | 5.1 | 5.9 | 6.3 | 6.3 | 6.0 | 5.4 | 5.0 | 4.5 | 3.9 | 3.2 | 2.5 | 1.8 | 0.0 | 57.6    | 57.1    |
|                |  | 0.0 | 0.3 | 0.9 | 1.9 | 3.0 | 4.1 | 5.0 | 5.7 | 6.1 | 6.2 | 6.0 | 5.4 | 5.0 | 4.5 | 3.9 | 3.2 | 2.5 | 1.8 | 0.0 | 66.4    | 65.9    |
|                |  | 0.0 | 0.3 | 0.8 | 1.7 | 2.8 | 3.8 | 4.7 | 5.4 | 5.7 | 5.8 | 5.6 | 5.0 | 4.6 | 4.1 | 3.4 | 2.8 | 2.1 | 1.5 | 0.0 | 71.6    | 71.1    |
|                |  | 0.0 | 0.3 | 0.7 | 1.5 | 2.4 | 3.3 | 4.2 | 4.8 | 5.2 | 5.3 | 5.0 | 4.5 | 4.1 | 3.6 | 3.0 | 2.4 | 1.8 | 1.2 | 0.0 | 72.5    | 72.0    |
|                |  | 0.0 | 0.2 | 0.7 | 1.5 | 2.4 | 3.3 | 4.2 | 4.8 | 5.2 | 5.3 | 5.0 | 4.5 | 4.1 | 3.6 | 3.0 | 2.4 | 1.8 | 1.2 | 0.0 | 69.1    | 68.6    |
|                |  | 0.0 | 0.2 | 0.5 | 1.2 | 1.9 | 2.7 | 3.5 | 4.0 | 4.4 | 4.4 | 4.3 | 3.8 | 3.1 | 2.2 | 1.4 | 0.7 | 0.2 | 0.0 | 0.0 | 61.6    | 61.2    |
|                |  | 0.0 | 0.1 | 0.3 | 0.8 | 1.3 | 1.9 | 2.5 | 3.0 | 3.2 | 3.3 | 3.2 | 2.8 | 2.2 | 1.6 | 1.0 | 0.5 | 0.1 | 0.0 | 0.0 | 50.7    | 50.3    |
|                |  | 0.0 | 0.0 | 0.2 | 0.4 | 0.7 | 1.1 | 1.4 | 1.7 | 1.9 | 1.9 | 1.8 | 1.6 | 1.3 | 0.9 | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 | 37.8    | 37.4    |
|                |  | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.5 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 24.5    | 24.1    |
|                |  | 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 | 12.6    | 12.2    |
|                |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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     | 3.7     |
|                |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4     | 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 | 643     | 635     |

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

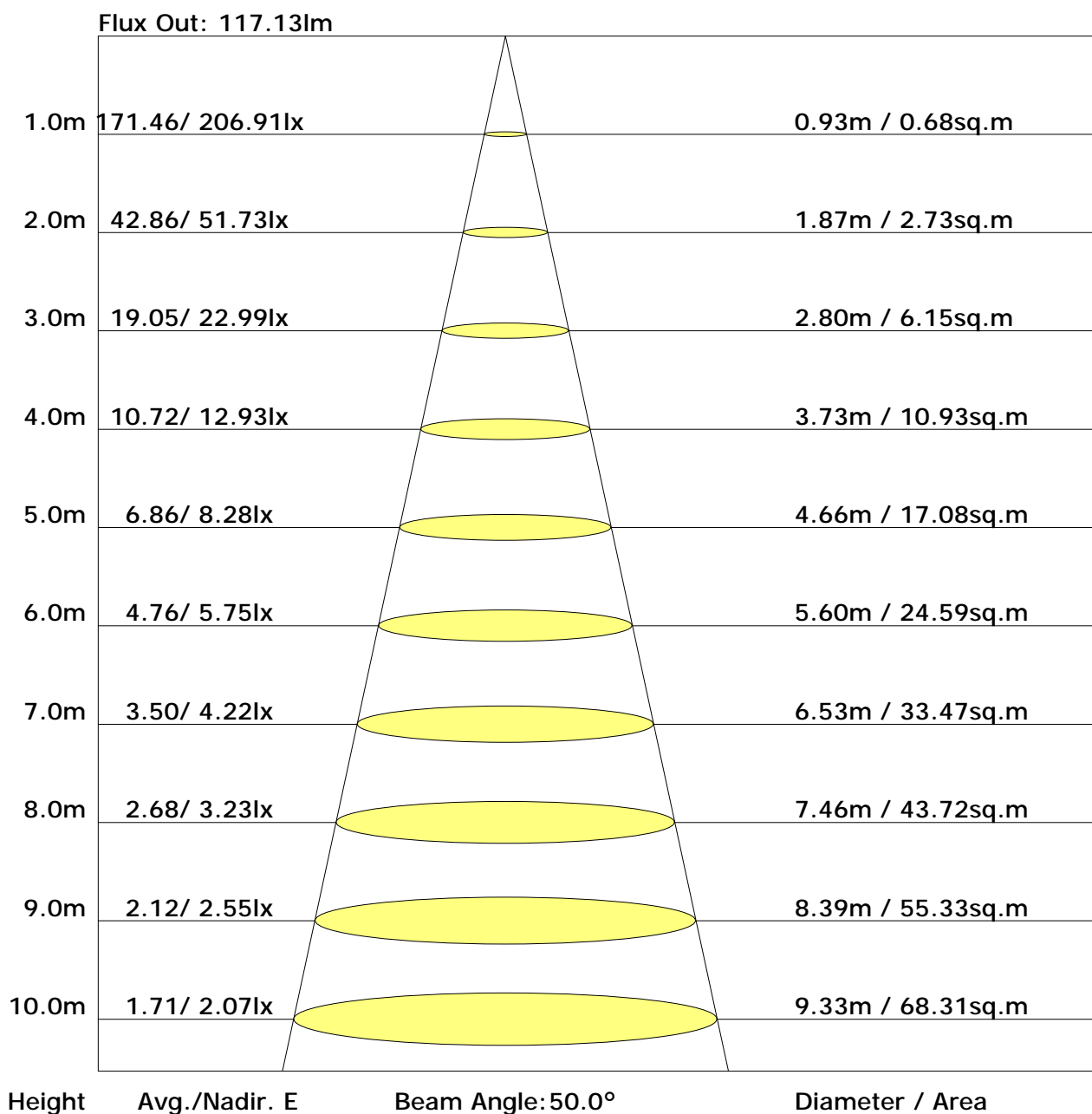
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## The Average Illuminance Effective Figure



## 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        | 17.0             | 18.7 | 17.4 | 19.0 | 19.4 | 18.0           | 19.6 | 18.3 | 19.9 | 20.3 |
| 3H               | 18.9             | 20.4 | 19.3 | 20.8 | 21.1 | 20.0           | 21.5 | 20.4 | 21.9 | 22.2 |
| 4H               | 19.6             | 21.0 | 20.0 | 21.4 | 21.8 | 20.8           | 22.2 | 21.2 | 22.6 | 23.0 |
| 6H               | 20.1             | 21.4 | 20.5 | 21.7 | 22.2 | 21.4           | 22.7 | 21.9 | 23.1 | 23.5 |
| 8H               | 20.2             | 21.4 | 20.6 | 21.8 | 22.3 | 21.6           | 22.9 | 22.1 | 23.3 | 23.7 |
| 12H              | 20.3             | 21.4 | 20.7 | 21.8 | 22.3 | 21.8           | 23.0 | 22.2 | 23.4 | 23.8 |
| X=4H Y=2H        | 17.7             | 19.1 | 18.2 | 19.5 | 19.9 | 18.6           | 20.0 | 19.0 | 20.4 | 20.8 |
| 3H               | 19.9             | 21.0 | 20.3 | 21.4 | 21.9 | 20.9           | 22.1 | 21.3 | 22.5 | 22.9 |
| 4H               | 20.6             | 21.7 | 21.1 | 22.1 | 22.6 | 21.8           | 22.9 | 22.3 | 23.3 | 23.8 |
| 6H               | 21.2             | 22.2 | 21.7 | 22.6 | 23.1 | 22.6           | 23.5 | 23.1 | 24.0 | 24.5 |
| 8H               | 21.4             | 22.3 | 21.9 | 22.7 | 23.2 | 22.8           | 23.7 | 23.3 | 24.2 | 24.7 |
| 12H              | 21.5             | 22.3 | 22.0 | 22.8 | 23.3 | 23.0           | 23.8 | 23.5 | 24.3 | 24.8 |
| X=8H Y=4H        | 21.0             | 21.9 | 21.5 | 22.3 | 22.8 | 22.1           | 23.0 | 22.6 | 23.5 | 24.0 |
| 6H               | 21.7             | 22.4 | 22.2 | 22.9 | 23.4 | 23.0           | 23.7 | 23.5 | 24.2 | 24.7 |
| 8H               | 21.9             | 22.6 | 22.4 | 23.1 | 23.6 | 23.4           | 24.0 | 23.9 | 24.5 | 25.0 |
| 12H              | 22.1             | 22.6 | 22.6 | 23.1 | 23.7 | 23.6           | 24.2 | 24.1 | 24.7 | 25.3 |
| X=12H Y=4H       | 21.0             | 21.8 | 21.5 | 22.3 | 22.8 | 22.2           | 23.0 | 22.7 | 23.4 | 23.9 |
| 6H               | 21.8             | 22.4 | 22.3 | 22.9 | 23.4 | 23.1           | 23.7 | 23.6 | 24.2 | 24.8 |
| 8H               | 22.0             | 22.6 | 22.6 | 23.1 | 23.7 | 23.5           | 24.0 | 24.0 | 24.5 | 25.1 |

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 = 1.50 |      |      |      |      |      |      |      |      |
|---|------|-------|----------------|------|------|------|------|------|------|------|------|
| Room Reflectance  |      |       | Room Index(RI) |      |      |      |      |      |      |      |      |
| Ceiling   | Wall | Floor | 0.75           | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70  | 0.50 | 0.20  | 0.58           | 0.67 | 0.74 | 0.80 | 0.87 | 0.92 | 0.96 | 1.00 | 1.03 |
|   | 0.30 |       | 0.51           | 0.59 | 0.67 | 0.73 | 0.81 | 0.87 | 0.91 | 0.96 | 1.00 |
|   | 0.20 |       | 0.45           | 0.53 | 0.61 | 0.67 | 0.76 | 0.82 | 0.86 | 0.92 | 0.97 |
| 0.50  | 0.50 | 0.20  | 0.57           | 0.65 | 0.72 | 0.77 | 0.84 | 0.88 | 0.92 | 0.96 | 0.99 |
|   | 0.30 |       | 0.50           | 0.58 | 0.65 | 0.71 | 0.79 | 0.84 | 0.88 | 0.93 | 0.96 |
|   | 0.20 |       | 0.45           | 0.53 | 0.60 | 0.66 | 0.74 | 0.80 | 0.84 | 0.90 | 0.93 |
| 0.30  | 0.50 | 0.20  | 0.55           | 0.63 | 0.70 | 0.74 | 0.81 | 0.85 | 0.88 | 0.92 | 0.95 |
|   | 0.30 |       | 0.49           | 0.57 | 0.64 | 0.69 | 0.76 | 0.81 | 0.85 | 0.89 | 0.92 |
|   | 0.20 |       | 0.44           | 0.52 | 0.60 | 0.65 | 0.73 | 0.78 | 0.82 | 0.87 | 0.90 |
| 0.00  | 0.00 | 0.00  | 0.42           | 0.49 | 0.57 | 0.62 | 0.69 | 0.74 | 0.78 | 0.82 | 0.85 |
| Rating: 6W 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 = 1.50 |      |      |      |      |      |      |      |      |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|
| Room Reflectance   |      |       | Room Index(RI) |      |      |      |      |      |      |      |      |
| Ceiling  | Wall | Floor | 0.75           | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70   | 0.50 | 0.20  | 0.97           | 0.83 | 0.70 | 0.61 | 0.48 | 0.40 | 0.34 | 0.27 | 0.22 |
|  | 0.30 |       | 0.81           | 0.71 | 0.61 | 0.54 | 0.44 | 0.37 | 0.32 | 0.25 | 0.21 |
|  | 0.20 |       | 0.69           | 0.62 | 0.54 | 0.48 | 0.40 | 0.34 | 0.30 | 0.24 | 0.20 |
| 0.50   | 0.50 | 0.20  | 0.94           | 0.79 | 0.67 | 0.58 | 0.46 | 0.42 | 0.33 | 0.25 | 0.21 |
|  | 0.30 |       | 0.79           | 0.69 | 0.59 | 0.52 | 0.42 | 0.35 | 0.31 | 0.24 | 0.20 |
|  | 0.20 |       | 0.69           | 0.61 | 0.53 | 0.47 | 0.39 | 0.33 | 0.29 | 0.23 | 0.19 |
| 0.30   | 0.50 | 0.20  | 0.91           | 0.76 | 0.64 | 0.56 | 0.44 | 0.37 | 0.31 | 0.24 | 0.20 |
|  | 0.30 |       | 0.77           | 0.67 | 0.57 | 0.50 | 0.41 | 0.34 | 0.29 | 0.23 | 0.19 |
|  | 0.20 |       | 0.68           | 0.60 | 0.52 | 0.46 | 0.38 | 0.32 | 0.28 | 0.22 | 0.18 |
| 0.00   | 0.00 | 0.00  | 0.57           | 0.50 | 0.43 | 0.37 | 0.30 | 0.25 | 0.22 | 0.17 | 0.14 |
| <p>Rating: 6W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p> |      |       |                |      |      |      |      |      |      |      |      |

## Utilisation Factor Table(Ceiling cavity)

| Utilisation Factors UF(C)   |      |       | SHR NOM = 1.50 |      |      |      |      |      |      |      |      |
|---|------|-------|----------------|------|------|------|------|------|------|------|------|
| Room Reflectance  |      |       | Room Index(RI) |      |      |      |      |      |      |      |      |
| Ceiling   | Wall | Floor | 0.75           | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70  | 0.50 | 0.20  | 0.17           | 0.19 | 0.19 | 0.20 | 0.21 | 0.21 | 0.22 | 0.22 | 0.23 |
|   | 0.30 |       | 0.10           | 0.12 | 0.13 | 0.14 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 |
|   | 0.20 |       | 0.06           | 0.07 | 0.09 | 0.10 | 0.12 | 0.14 | 0.15 | 0.17 | 0.18 |
| 0.50  | 0.50 | 0.20  | 0.16           | 0.18 | 0.19 | 0.19 | 0.20 | 0.21 | 0.21 | 0.21 | 0.22 |
|   | 0.30 |       | 0.10           | 0.12 | 0.13 | 0.14 | 0.16 | 0.17 | 0.17 | 0.19 | 0.19 |
|   | 0.20 |       | 0.06           | 0.07 | 0.09 | 0.10 | 0.12 | 0.13 | 0.14 | 0.16 | 0.17 |
| 0.30  | 0.50 | 0.20  | 0.16           | 0.17 | 0.18 | 0.18 | 0.19 | 0.20 | 0.20 | 0.21 | 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 | 0.08 | 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: 6W 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      | 207.3                     | 0.2                | 0.2                    | 0.03                  | 0.03                      |
| 1.0-2.0      | 207.3                     | 0.6                | 0.8                    | 0.09                  | 0.12                      |
| 2.0-3.0      | 207.3                     | 1.0                | 1.8                    | 0.15                  | 0.27                      |
| 3.0-4.0      | 207.3                     | 1.4                | 3.2                    | 0.21                  | 0.49                      |
| 4.0-5.0      | 207.3                     | 1.8                | 5.0                    | 0.27                  | 0.76                      |
| 5.0-6.0      | 207.0                     | 2.2                | 7.1                    | 0.34                  | 1.10                      |
| 6.0-7.0      | 206.7                     | 2.6                | 9.7                    | 0.40                  | 1.49                      |
| 7.0-8.0      | 206.3                     | 3.0                | 12.7                   | 0.45                  | 1.95                      |
| 8.0-9.0      | 205.7                     | 3.3                | 16.0                   | 0.51                  | 2.46                      |
| 9.0-10.0     | 205.1                     | 3.7                | 19.7                   | 0.57                  | 3.03                      |
| 10.0-11.0    | 204.5                     | 4.1                | 23.8                   | 0.63                  | 3.66                      |
| 11.0-12.0    | 203.9                     | 4.5                | 28.2                   | 0.69                  | 4.35                      |
| 12.0-13.0    | 203.2                     | 4.8                | 33.1                   | 0.74                  | 5.09                      |
| 13.0-14.0    | 202.5                     | 5.2                | 38.2                   | 0.80                  | 5.89                      |
| 14.0-15.0    | 201.7                     | 5.5                | 43.8                   | 0.85                  | 6.74                      |
| 15.0-16.0    | 200.9                     | 5.9                | 49.7                   | 0.91                  | 7.65                      |
| 16.0-17.0    | 200.1                     | 6.2                | 55.9                   | 0.96                  | 8.61                      |
| 17.0-18.0    | 199.1                     | 6.6                | 62.5                   | 1.01                  | 9.62                      |
| 18.0-19.0    | 198.1                     | 6.9                | 69.4                   | 1.06                  | 10.68                     |
| 19.0-20.0    | 197.0                     | 7.2                | 76.6                   | 1.11                  | 11.79                     |
| 20.0-21.0    | 195.9                     | 7.5                | 84.1                   | 1.16                  | 12.95                     |
| 21.0-22.0    | 194.7                     | 7.8                | 91.9                   | 1.20                  | 14.15                     |
| 22.0-23.0    | 193.5                     | 8.1                | 100.0                  | 1.25                  | 15.40                     |
| 23.0-24.0    | 192.2                     | 8.4                | 108.4                  | 1.29                  | 16.70                     |
| 24.0-25.0    | 190.8                     | 8.7                | 117.1                  | 1.34                  | 18.03                     |
| 25.0-26.0    | 189.5                     | 8.9                | 126.1                  | 1.38                  | 19.41                     |
| 26.0-27.0    | 188.0                     | 9.2                | 135.3                  | 1.42                  | 20.82                     |
| 27.0-28.0    | 186.5                     | 9.4                | 144.7                  | 1.45                  | 22.28                     |
| 28.0-29.0    | 185.0                     | 9.7                | 154.4                  | 1.49                  | 23.77                     |
| 29.0-30.0    | 183.4                     | 9.9                | 164.3                  | 1.53                  | 25.29                     |
| 30.0-31.0    | 181.8                     | 10.1               | 174.4                  | 1.56                  | 26.85                     |
| 31.0-32.0    | 180.1                     | 10.3               | 184.7                  | 1.59                  | 28.44                     |
| 32.0-33.0    | 178.4                     | 10.5               | 195.3                  | 1.62                  | 30.06                     |
| 33.0-34.0    | 176.6                     | 10.7               | 205.9                  | 1.65                  | 31.71                     |
| 34.0-35.0    | 174.7                     | 10.9               | 216.8                  | 1.67                  | 33.38                     |
| 35.0-36.0    | 172.8                     | 11.0               | 227.8                  | 1.69                  | 35.07                     |

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    | 170.8                     | 11.1               | 238.9                  | 1.72                  | 36.79                     |
| 37.0-38.0    | 168.8                     | 11.3               | 250.2                  | 1.73                  | 38.52                     |
| 38.0-39.0    | 166.6                     | 11.4               | 261.6                  | 1.75                  | 40.27                     |
| 39.0-40.0    | 164.5                     | 11.5               | 273.1                  | 1.77                  | 42.04                     |
| 40.0-41.0    | 162.3                     | 11.6               | 284.6                  | 1.78                  | 43.82                     |
| 41.0-42.0    | 160.0                     | 11.6               | 296.2                  | 1.79                  | 45.61                     |
| 42.0-43.0    | 157.7                     | 11.7               | 307.9                  | 1.80                  | 47.40                     |
| 43.0-44.0    | 155.3                     | 11.7               | 319.6                  | 1.80                  | 49.21                     |
| 44.0-45.0    | 152.8                     | 11.7               | 331.4                  | 1.81                  | 51.02                     |
| 45.0-46.0    | 150.3                     | 11.8               | 343.1                  | 1.81                  | 52.83                     |
| 46.0-47.0    | 147.7                     | 11.7               | 354.9                  | 1.81                  | 54.63                     |
| 47.0-48.0    | 145.0                     | 11.7               | 366.6                  | 1.80                  | 56.44                     |
| 48.0-49.0    | 142.2                     | 11.7               | 378.3                  | 1.80                  | 58.24                     |
| 49.0-50.0    | 139.4                     | 11.6               | 389.9                  | 1.79                  | 60.03                     |
| 50.0-51.0    | 136.6                     | 11.6               | 401.5                  | 1.78                  | 61.81                     |
| 51.0-52.0    | 133.6                     | 11.5               | 412.9                  | 1.77                  | 63.57                     |
| 52.0-53.0    | 130.6                     | 11.4               | 424.3                  | 1.75                  | 65.32                     |
| 53.0-54.0    | 127.5                     | 11.2               | 435.5                  | 1.73                  | 67.05                     |
| 54.0-55.0    | 124.4                     | 11.1               | 446.7                  | 1.71                  | 68.76                     |
| 55.0-56.0    | 121.1                     | 10.9               | 457.6                  | 1.68                  | 70.45                     |
| 56.0-57.0    | 117.8                     | 10.8               | 468.4                  | 1.66                  | 72.10                     |
| 57.0-58.0    | 114.3                     | 10.6               | 478.9                  | 1.63                  | 73.73                     |
| 58.0-59.0    | 110.8                     | 10.4               | 489.3                  | 1.60                  | 75.33                     |
| 59.0-60.0    | 107.2                     | 10.1               | 499.4                  | 1.56                  | 76.89                     |
| 60.0-61.0    | 103.6                     | 9.9                | 509.3                  | 1.52                  | 78.41                     |
| 61.0-62.0    | 99.9                      | 9.6                | 518.9                  | 1.48                  | 79.89                     |
| 62.0-63.0    | 96.0                      | 9.3                | 528.3                  | 1.44                  | 81.33                     |
| 63.0-64.0    | 92.1                      | 9.0                | 537.3                  | 1.39                  | 82.72                     |
| 64.0-65.0    | 88.2                      | 8.7                | 546.1                  | 1.34                  | 84.07                     |
| 65.0-66.0    | 84.1                      | 8.4                | 554.5                  | 1.29                  | 85.36                     |
| 66.0-67.0    | 80.0                      | 8.0                | 562.5                  | 1.24                  | 86.60                     |
| 67.0-68.0    | 75.9                      | 7.7                | 570.2                  | 1.18                  | 87.78                     |
| 68.0-69.0    | 71.7                      | 7.3                | 577.5                  | 1.13                  | 88.91                     |
| 69.0-70.0    | 67.5                      | 6.9                | 584.4                  | 1.07                  | 89.98                     |
| 70.0-71.0    | 63.4                      | 6.5                | 591.0                  | 1.01                  | 90.98                     |
| 71.0-72.0    | 59.2                      | 6.2                | 597.2                  | 0.95                  | 91.93                     |

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    | 55.0                      | 5.7                | 602.9                  | 0.89                  | 92.82                     |
| 73.0-74.0    | 50.7                      | 5.3                | 608.2                  | 0.82                  | 93.64                     |
| 74.0-75.0    | 46.6                      | 4.9                | 613.2                  | 0.76                  | 94.40                     |
| 75.0-76.0    | 42.5                      | 4.5                | 617.7                  | 0.69                  | 95.09                     |
| 76.0-77.0    | 38.4                      | 4.1                | 621.8                  | 0.63                  | 95.72                     |
| 77.0-78.0    | 34.6                      | 3.7                | 625.5                  | 0.57                  | 96.29                     |
| 78.0-79.0    | 30.8                      | 3.3                | 628.8                  | 0.51                  | 96.80                     |
| 79.0-80.0    | 27.1                      | 2.9                | 631.7                  | 0.45                  | 97.25                     |
| 80.0-81.0    | 23.6                      | 2.5                | 634.2                  | 0.39                  | 97.64                     |
| 81.0-82.0    | 20.2                      | 2.2                | 636.4                  | 0.34                  | 97.98                     |
| 82.0-83.0    | 17.0                      | 1.8                | 638.3                  | 0.28                  | 98.26                     |
| 83.0-84.0    | 14.0                      | 1.5                | 639.8                  | 0.23                  | 98.50                     |
| 84.0-85.0    | 11.2                      | 1.2                | 641.0                  | 0.19                  | 98.69                     |
| 85.0-86.0    | 8.6                       | 0.9                | 642.0                  | 0.14                  | 98.83                     |
| 86.0-87.0    | 6.0                       | 0.7                | 642.6                  | 0.10                  | 98.93                     |
| 87.0-88.0    | 3.8                       | 0.4                | 643.0                  | 0.06                  | 99.00                     |
| 88.0-89.0    | 2.0                       | 0.2                | 643.3                  | 0.03                  | 99.03                     |
| 89.0-90.0    | 0.9                       | 0.1                | 643.4                  | 0.02                  | 99.04                     |
| 90.0-91.0    | 0.5                       | 0.1                | 643.4                  | 0.01                  | 99.05                     |
| 91.0-92.0    | 0.4                       | 0.0                | 643.4                  | 0.01                  | 99.06                     |
| 92.0-93.0    | 0.4                       | 0.0                | 643.5                  | 0.01                  | 99.06                     |
| 93.0-94.0    | 0.4                       | 0.0                | 643.5                  | 0.01                  | 99.07                     |
| 94.0-95.0    | 0.4                       | 0.0                | 643.6                  | 0.01                  | 99.08                     |
| 95.0-96.0    | 0.4                       | 0.0                | 643.6                  | 0.01                  | 99.09                     |
| 96.0-97.0    | 0.5                       | 0.0                | 643.7                  | 0.01                  | 99.09                     |
| 97.0-98.0    | 0.5                       | 0.1                | 643.7                  | 0.01                  | 99.10                     |
| 98.0-99.0    | 0.5                       | 0.1                | 643.8                  | 0.01                  | 99.11                     |
| 99.0-100.0   | 0.5                       | 0.1                | 643.8                  | 0.01                  | 99.12                     |
| 100.0-101.0  | 0.5                       | 0.1                | 643.9                  | 0.01                  | 99.13                     |
| 101.0-102.0  | 0.6                       | 0.1                | 643.9                  | 0.01                  | 99.14                     |
| 102.0-103.0  | 0.6                       | 0.1                | 644.0                  | 0.01                  | 99.14                     |
| 103.0-104.0  | 0.6                       | 0.1                | 644.1                  | 0.01                  | 99.15                     |
| 104.0-105.0  | 0.6                       | 0.1                | 644.1                  | 0.01                  | 99.16                     |
| 105.0-106.0  | 0.6                       | 0.1                | 644.2                  | 0.01                  | 99.18                     |
| 106.0-107.0  | 0.7                       | 0.1                | 644.3                  | 0.01                  | 99.19                     |
| 107.0-108.0  | 0.7                       | 0.1                | 644.3                  | 0.01                  | 99.20                     |

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  | 0.7                       | 0.1                | 644.4                  | 0.01                  | 99.21                     |
| 109.0-110.0  | 0.7                       | 0.1                | 644.5                  | 0.01                  | 99.22                     |
| 110.0-111.0  | 0.8                       | 0.1                | 644.6                  | 0.01                  | 99.23                     |
| 111.0-112.0  | 0.8                       | 0.1                | 644.7                  | 0.01                  | 99.24                     |
| 112.0-113.0  | 0.8                       | 0.1                | 644.7                  | 0.01                  | 99.26                     |
| 113.0-114.0  | 0.8                       | 0.1                | 644.8                  | 0.01                  | 99.27                     |
| 114.0-115.0  | 0.8                       | 0.1                | 644.9                  | 0.01                  | 99.28                     |
| 115.0-116.0  | 0.9                       | 0.1                | 645.0                  | 0.01                  | 99.30                     |
| 116.0-117.0  | 0.9                       | 0.1                | 645.1                  | 0.01                  | 99.31                     |
| 117.0-118.0  | 0.9                       | 0.1                | 645.2                  | 0.01                  | 99.32                     |
| 118.0-119.0  | 0.9                       | 0.1                | 645.3                  | 0.01                  | 99.34                     |
| 119.0-120.0  | 1.0                       | 0.1                | 645.3                  | 0.01                  | 99.35                     |
| 120.0-121.0  | 1.0                       | 0.1                | 645.4                  | 0.01                  | 99.37                     |
| 121.0-122.0  | 1.0                       | 0.1                | 645.5                  | 0.01                  | 99.38                     |
| 122.0-123.0  | 1.0                       | 0.1                | 645.6                  | 0.01                  | 99.39                     |
| 123.0-124.0  | 1.0                       | 0.1                | 645.7                  | 0.01                  | 99.41                     |
| 124.0-125.0  | 1.1                       | 0.1                | 645.8                  | 0.01                  | 99.42                     |
| 125.0-126.0  | 1.1                       | 0.1                | 645.9                  | 0.01                  | 99.44                     |
| 126.0-127.0  | 1.1                       | 0.1                | 646.0                  | 0.02                  | 99.45                     |
| 127.0-128.0  | 1.1                       | 0.1                | 646.1                  | 0.02                  | 99.47                     |
| 128.0-129.0  | 1.2                       | 0.1                | 646.2                  | 0.02                  | 99.48                     |
| 129.0-130.0  | 1.2                       | 0.1                | 646.3                  | 0.02                  | 99.50                     |
| 130.0-131.0  | 1.2                       | 0.1                | 646.4                  | 0.02                  | 99.52                     |
| 131.0-132.0  | 1.2                       | 0.1                | 646.5                  | 0.02                  | 99.53                     |
| 132.0-133.0  | 1.2                       | 0.1                | 646.6                  | 0.02                  | 99.55                     |
| 133.0-134.0  | 1.2                       | 0.1                | 646.7                  | 0.02                  | 99.56                     |
| 134.0-135.0  | 1.3                       | 0.1                | 646.8                  | 0.02                  | 99.58                     |
| 135.0-136.0  | 1.3                       | 0.1                | 646.9                  | 0.02                  | 99.59                     |
| 136.0-137.0  | 1.3                       | 0.1                | 647.0                  | 0.02                  | 99.61                     |
| 137.0-138.0  | 1.3                       | 0.1                | 647.1                  | 0.01                  | 99.62                     |
| 138.0-139.0  | 1.3                       | 0.1                | 647.2                  | 0.01                  | 99.64                     |
| 139.0-140.0  | 1.3                       | 0.1                | 647.3                  | 0.01                  | 99.65                     |
| 140.0-141.0  | 1.4                       | 0.1                | 647.4                  | 0.01                  | 99.66                     |
| 141.0-142.0  | 1.4                       | 0.1                | 647.5                  | 0.01                  | 99.68                     |
| 142.0-143.0  | 1.4                       | 0.1                | 647.6                  | 0.01                  | 99.69                     |
| 143.0-144.0  | 1.4                       | 0.1                | 647.7                  | 0.01                  | 99.71                     |

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  | 1.4                       | 0.1                | 647.8                  | 0.01                  | 99.72                     |
| 145.0-146.0  | 1.4                       | 0.1                | 647.8                  | 0.01                  | 99.74                     |
| 146.0-147.0  | 1.4                       | 0.1                | 647.9                  | 0.01                  | 99.75                     |
| 147.0-148.0  | 1.5                       | 0.1                | 648.0                  | 0.01                  | 99.76                     |
| 148.0-149.0  | 1.5                       | 0.1                | 648.1                  | 0.01                  | 99.78                     |
| 149.0-150.0  | 1.5                       | 0.1                | 648.2                  | 0.01                  | 99.79                     |
| 150.0-151.0  | 1.5                       | 0.1                | 648.3                  | 0.01                  | 99.80                     |
| 151.0-152.0  | 1.5                       | 0.1                | 648.4                  | 0.01                  | 99.81                     |
| 152.0-153.0  | 1.5                       | 0.1                | 648.4                  | 0.01                  | 99.83                     |
| 153.0-154.0  | 1.6                       | 0.1                | 648.5                  | 0.01                  | 99.84                     |
| 154.0-155.0  | 1.6                       | 0.1                | 648.6                  | 0.01                  | 99.85                     |
| 155.0-156.0  | 1.6                       | 0.1                | 648.7                  | 0.01                  | 99.86                     |
| 156.0-157.0  | 1.6                       | 0.1                | 648.7                  | 0.01                  | 99.87                     |
| 157.0-158.0  | 1.6                       | 0.1                | 648.8                  | 0.01                  | 99.88                     |
| 158.0-159.0  | 1.6                       | 0.1                | 648.9                  | 0.01                  | 99.89                     |
| 159.0-160.0  | 1.6                       | 0.1                | 648.9                  | 0.01                  | 99.90                     |
| 160.0-161.0  | 1.6                       | 0.1                | 649.0                  | 0.01                  | 99.91                     |
| 161.0-162.0  | 1.6                       | 0.1                | 649.0                  | 0.01                  | 99.92                     |
| 162.0-163.0  | 1.7                       | 0.1                | 649.1                  | 0.01                  | 99.93                     |
| 163.0-164.0  | 1.7                       | 0.1                | 649.1                  | 0.01                  | 99.93                     |
| 164.0-165.0  | 1.7                       | 0.0                | 649.2                  | 0.01                  | 99.94                     |
| 165.0-166.0  | 1.7                       | 0.0                | 649.2                  | 0.01                  | 99.95                     |
| 166.0-167.0  | 1.7                       | 0.0                | 649.3                  | 0.01                  | 99.96                     |
| 167.0-168.0  | 1.7                       | 0.0                | 649.3                  | 0.01                  | 99.96                     |
| 168.0-169.0  | 1.7                       | 0.0                | 649.4                  | 0.01                  | 99.97                     |
| 169.0-170.0  | 1.7                       | 0.0                | 649.4                  | 0.01                  | 99.97                     |
| 170.0-171.0  | 1.8                       | 0.0                | 649.4                  | 0.00                  | 99.98                     |
| 171.0-172.0  | 1.8                       | 0.0                | 649.5                  | 0.00                  | 99.98                     |
| 172.0-173.0  | 1.8                       | 0.0                | 649.5                  | 0.00                  | 99.99                     |
| 173.0-174.0  | 1.8                       | 0.0                | 649.5                  | 0.00                  | 99.99                     |
| 174.0-175.0  | 1.8                       | 0.0                | 649.5                  | 0.00                  | 99.99                     |
| 175.0-176.0  | 1.8                       | 0.0                | 649.5                  | 0.00                  | 100.00                    |
| 176.0-177.0  | 1.8                       | 0.0                | 649.5                  | 0.00                  | 100.00                    |
| 177.0-178.0  | 1.8                       | 0.0                | 649.6                  | 0.00                  | 100.00                    |
| 178.0-179.0  | 1.8                       | 0.0                | 649.6                  | 0.00                  | 100.00                    |
| 179.0-180.0  | 1.8                       | 0.0                | 649.6                  | 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: