Report No.: 6 Test Time: 2017/7/20 09:16

# Luminaire Property

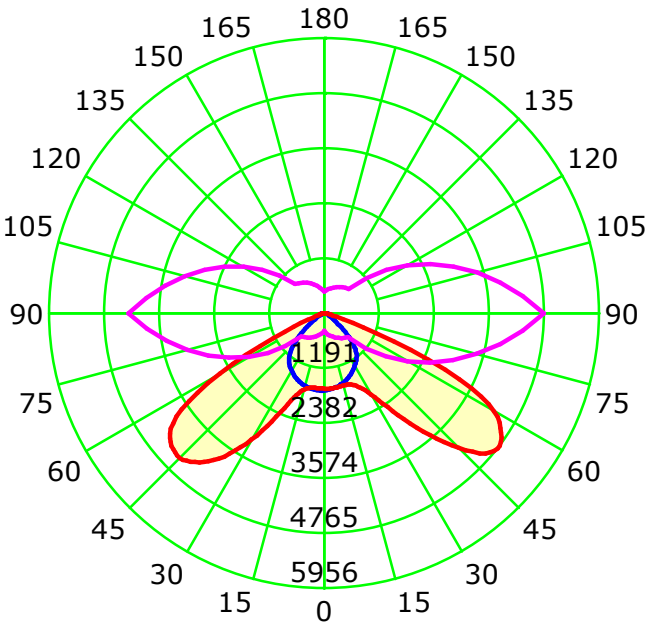
Luminaire Manufacturer:
Luminaire Description: 50W-1
Voltage: 220 V
Current: 0.237 A
Power: 50.8 W
Power Factor: 0.975

# Photometric Results

CIE Class: Direct
Total Rated Lamp Lumens: 5967.0 lm
Measurement Flux: 5967 lm
Efficiency: 100%
Downward Ratio: 99%
Upward Ratio: 1%
Horizontal Diffuse Angle(50%): H91.1
Vertical Diffuse Angle(50%): V127.3
Luminaire Efficacy Rating (LER): 117.51
Central Intensity: 1674.96 cd
Max. Intensity: 4765.46 cd
Pos of Max. Intensity: H90 V52
S/MH(C0/C180): 1.23
S/MH(C90/C270): 2.85

Picture Of Luminaire

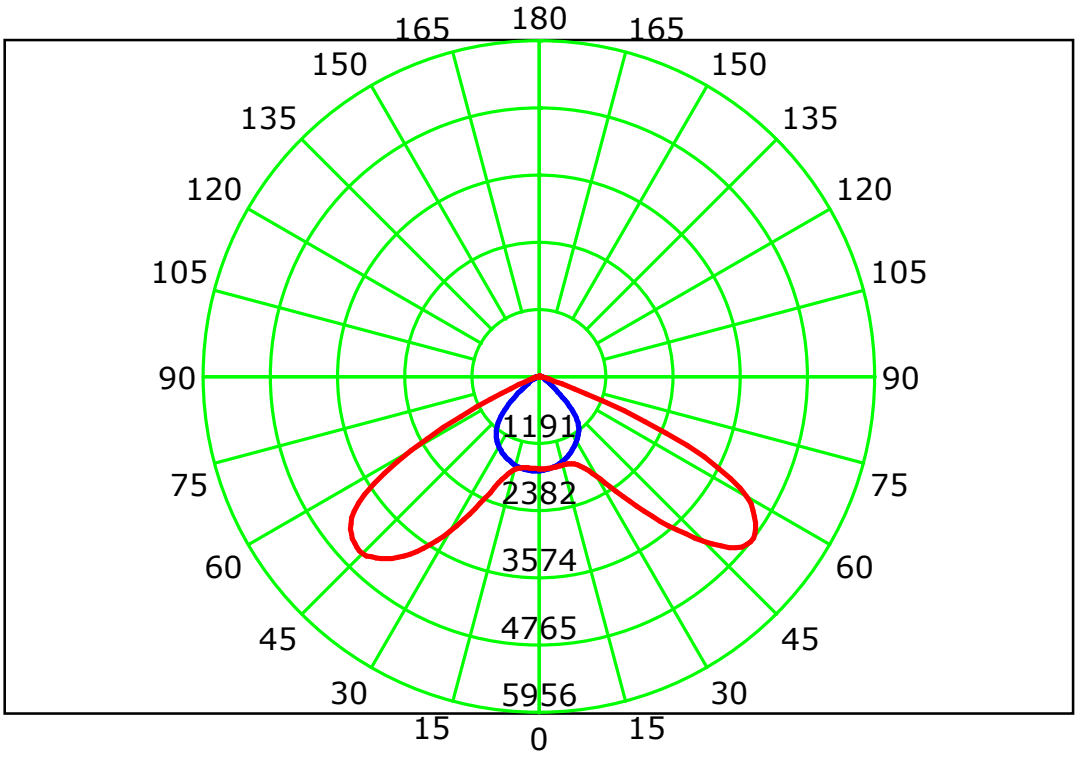
Luminous Intensity Distribution Curve

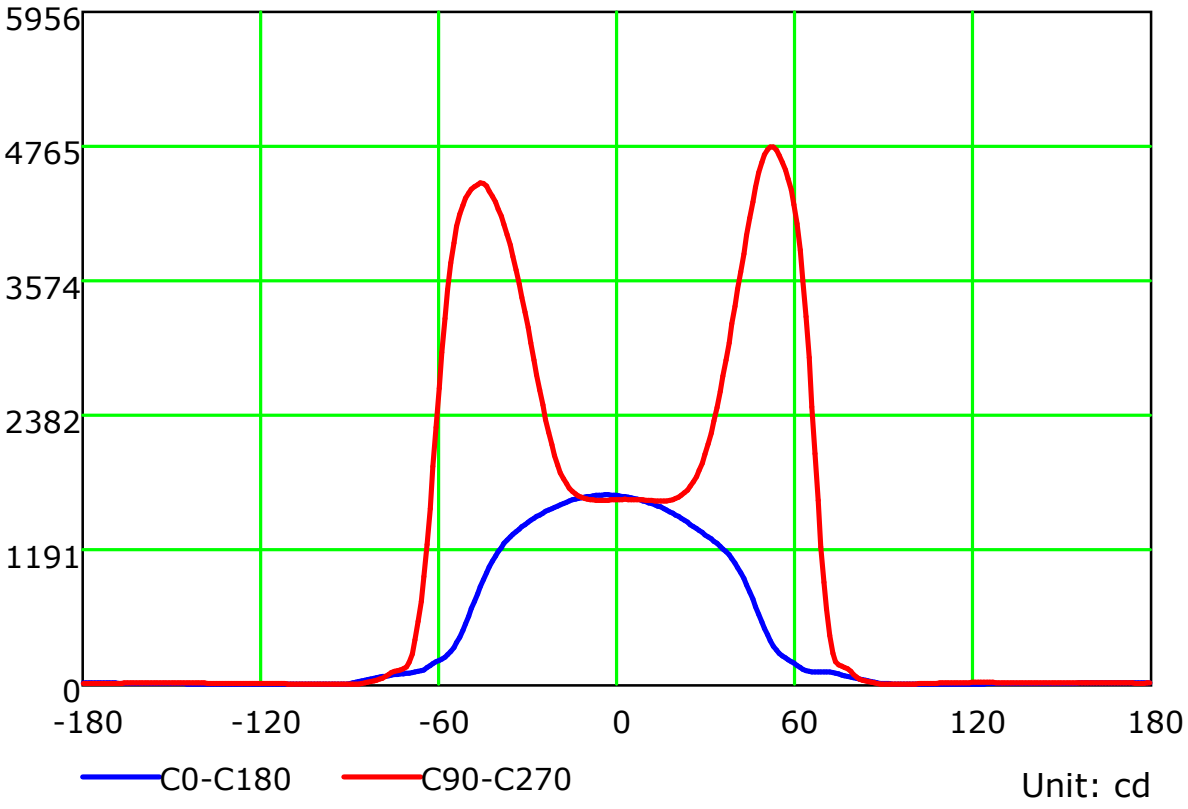



Unit: cd
Average Diffuse Angle(50%): 109.0°
C0-C180 C90-C270 G52

C Plane (°):0.0-360.0: 45.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab: Inventfine instrument
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 7.992 m
Temperature: 28
Humidity: 58
Operator: Jacky tang
Inspector:

# Luminous Intensity Distribution Curve

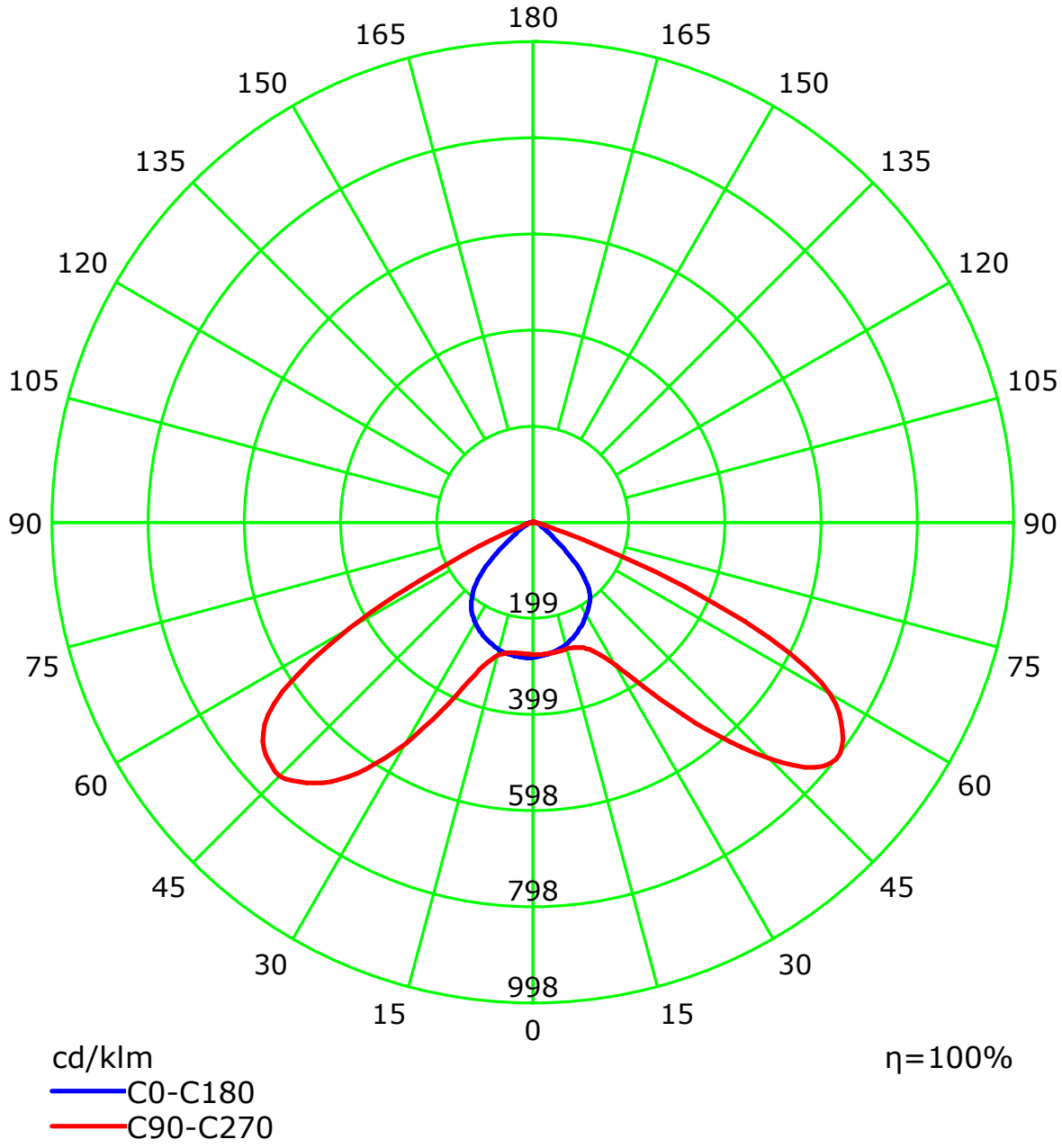



C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.992 m
Humidity: 58
Inspector:

# Luminous Intensity Distribution Curve(cd/klm)




C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator: Jacky tang

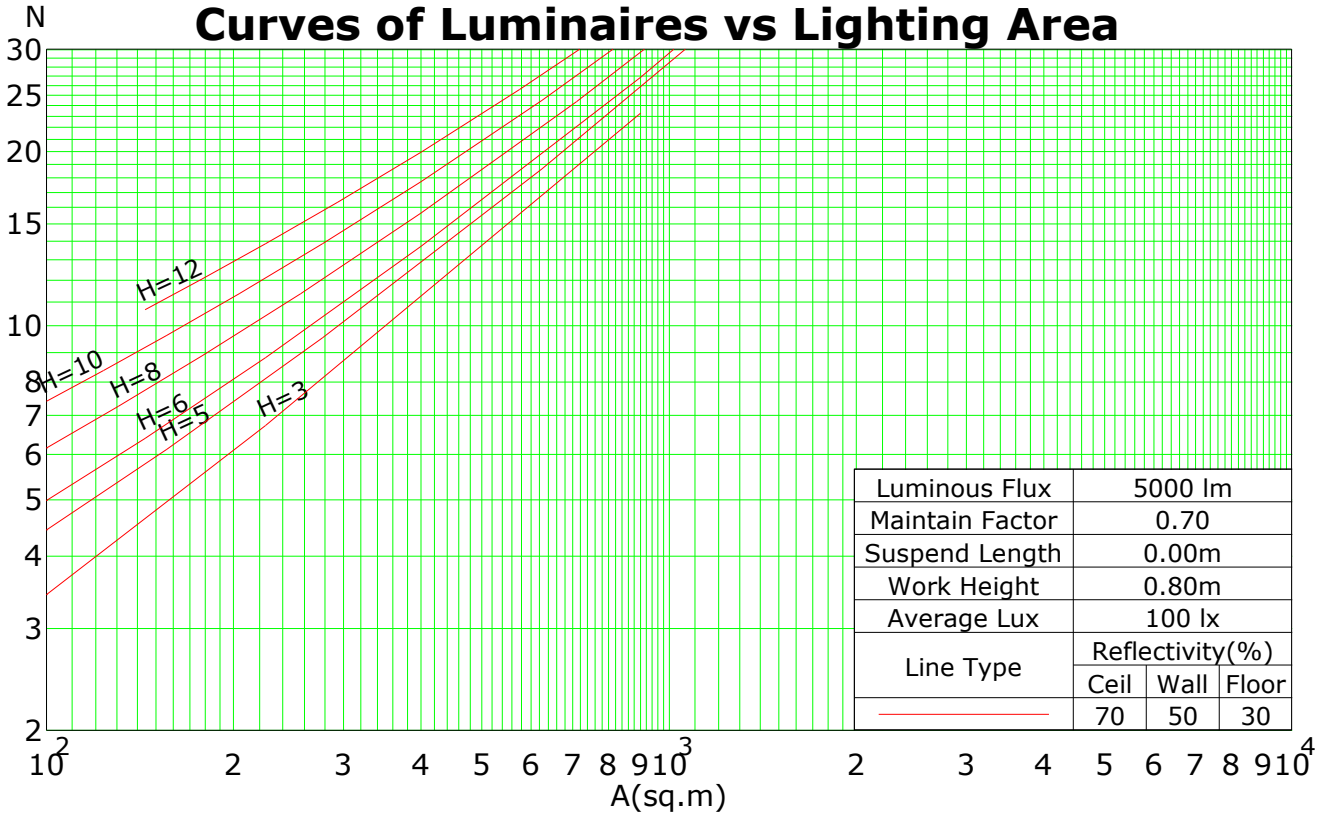
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.992 m
Humidity: 58
Inspector:

# 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 | 110 | 105 | 102 | 98 | 107 | 103 | 100 | 96 | 99 | 96 | 93 | 95 | 93 | 90 | 91 | 89 | 88 | 86 |
| 2 | 100 | 92 | 86 | 81 | 98 | 90 | 85 | 80 | 87 | 82 | 78 | 84 | 79 | 76 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 76 | 63 | 54 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 44 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 50 | 44 | 40 | 38 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 43 | 36 | 31 | 41 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 23 |

Spacing Criteria (0-180): 1.23
Spacing Criteria (90-270): 2.85
Spacing Criteria (Diagonal): 1.39

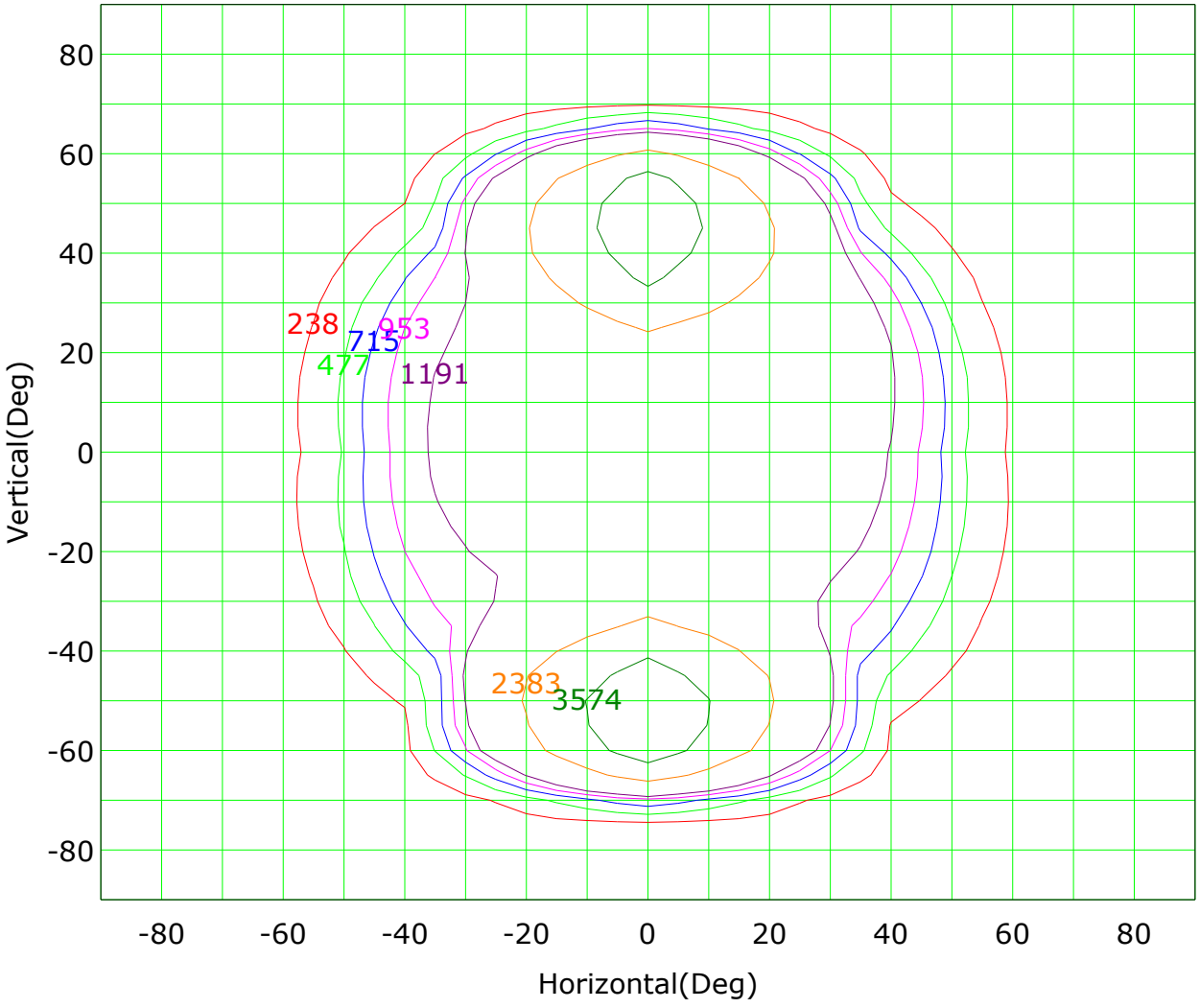
## Curves of Luminaires vs Lighting Area




C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.992 m
Humidity: 58
Inspector:

# Isocandela (rectangle)



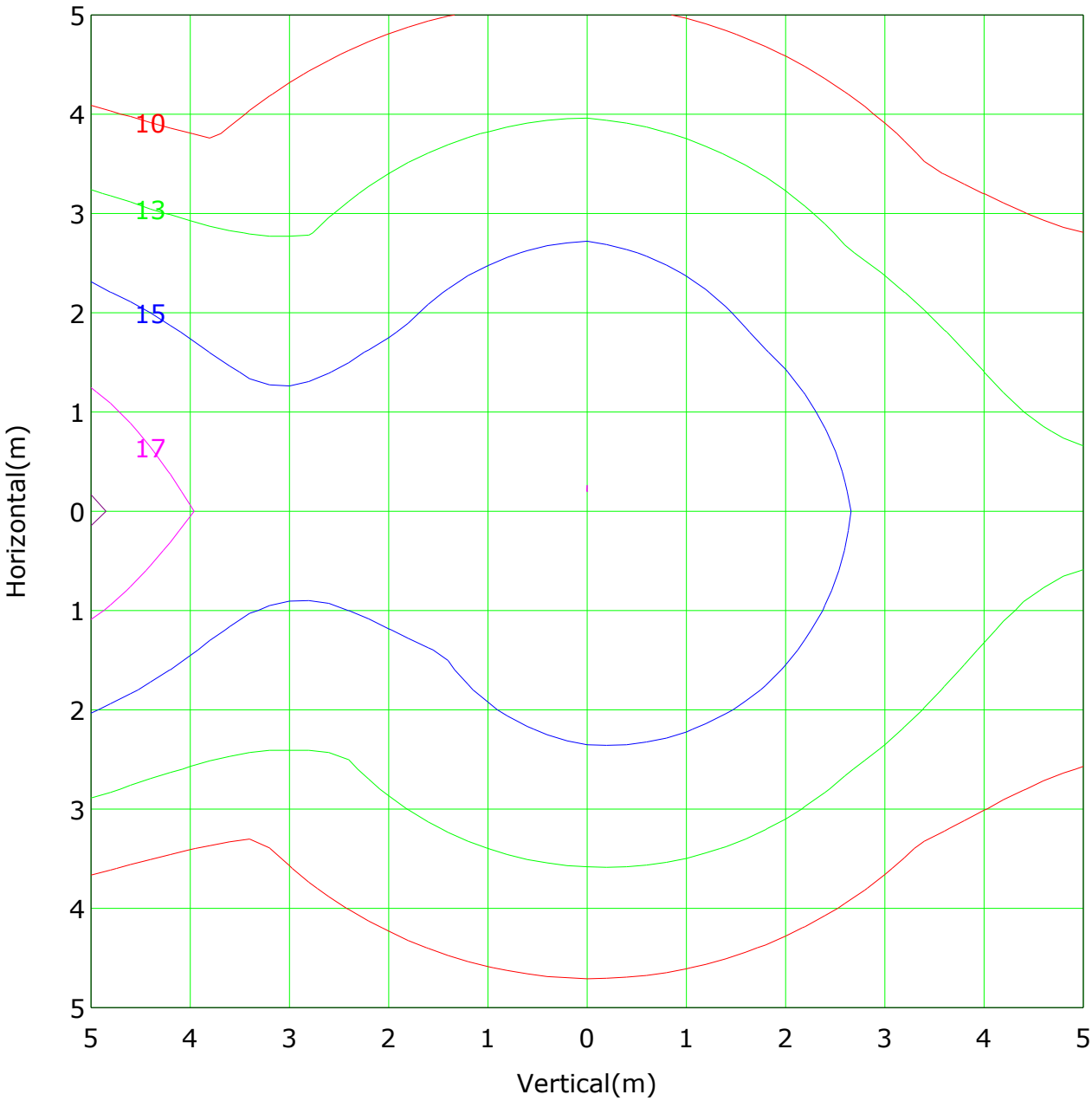

Imax (100%): 4765 cd

| | |
|---|---|
| ( 5%): 238 cd | ( 10%): 477 cd |
| ( 15%): 715 cd | ( 20%): 953 cd |
| ( 25%): 1191 cd | ( 50%): 2383 cd |
| ( 75%): 3574 cd | (100%): 4765 cd |

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.992 m
Humidity: 58
Inspector:

# IsoLux Plot



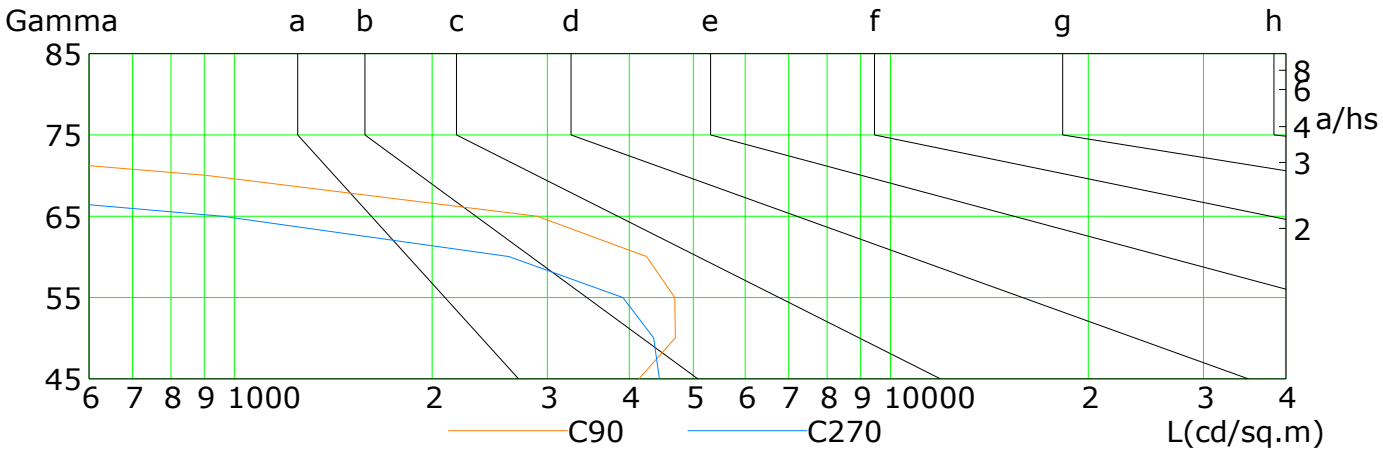

Mounting Height: 10.0m  Max Lux(100%): 20.9 lx

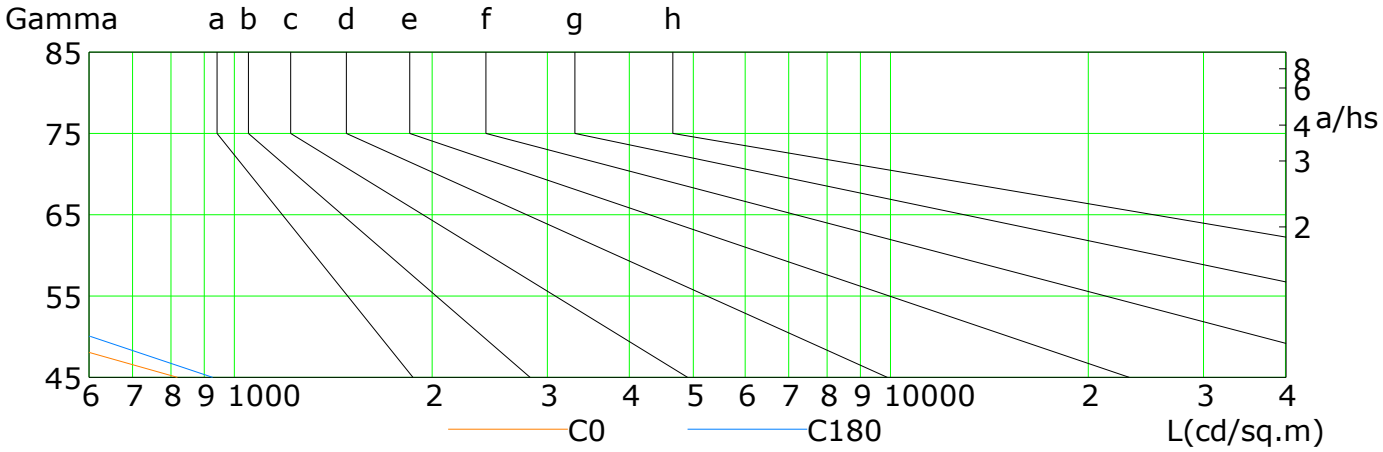
( 50%): 10.5 lx
( 60%): 12.6 lx
( 70%): 14.7 lx
( 80%): 16.8 lx
( 90%): 18.9 lx
(100%): 20.9 lx

C Plane (°):0.0-360.0: 45.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab: Inventfine instrument
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 7.992 m
Temperature: 28
Humidity: 58
Operator: Jacky tang
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 |



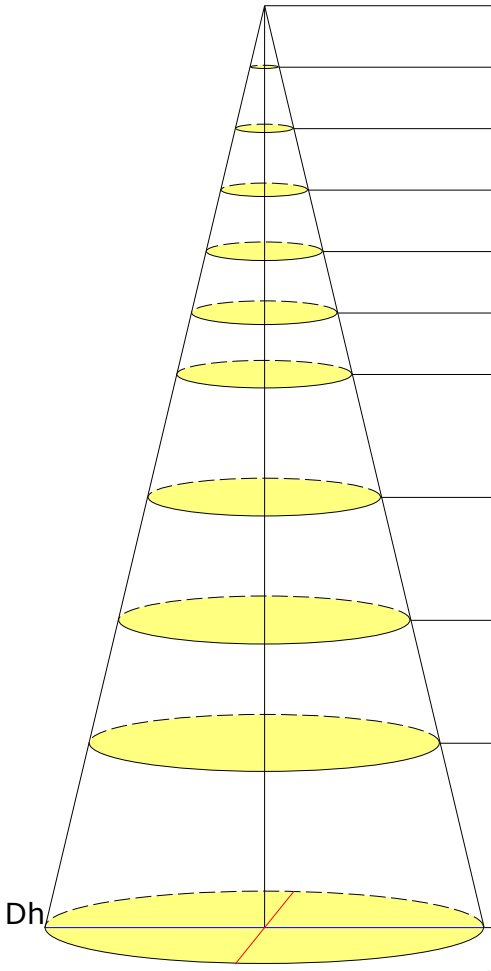




| L(cd/sq.m) | G45 | G50 | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|---|---|---|---|---|---|---|---|---|---|
| C0 | 820 | 494 | 273 | 187 | 117 | 113 | 93 | 59 | 30 |
| C90 | 4131 | 4697 | 4689 | 4253 | 2896 | 903 | 175 | 88 | 24 |
| C180 | 926 | 604 | 327 | 213 | 130 | 101 | 86 | 64 | 36 |
| C270 | 4442 | 4352 | 3912 | 2622 | 959 | 196 | 114 | 46 | 13 |

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.992 m
Humidity: 58
Inspector:

# Illuminance at a Distance



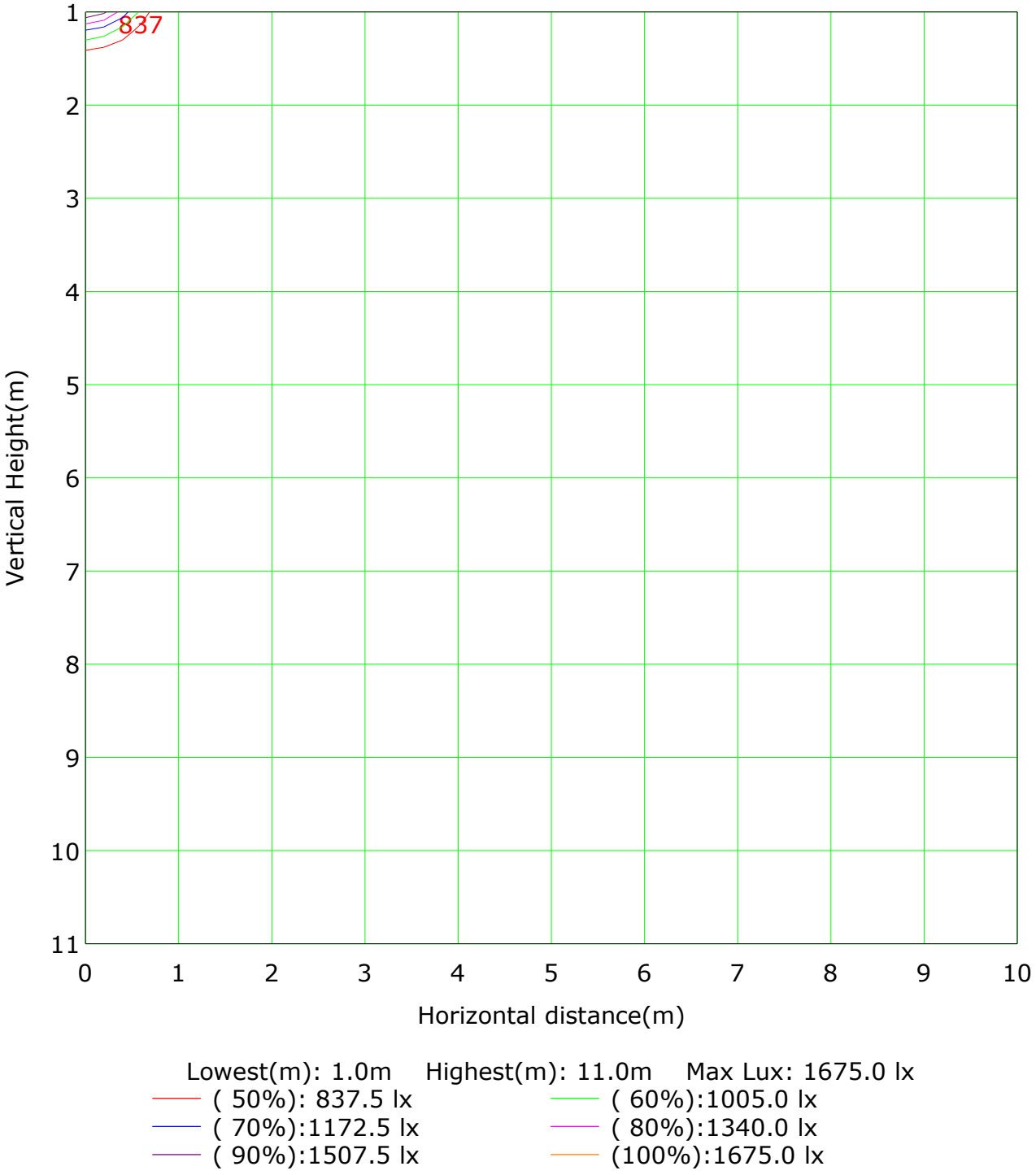

| Dist(m) | Enadir(lx) | Dh/Dv_B(m) | S_B(sq.m) | Eav_B(lx) |
|---|---|---|---|---|
| 1.0 | 1674.96 | 2.04/4.00 | 6.3 | 444.76 |
| 2.0 | 418.74 | 4.08/8.00 | 25.1 | 111.19 |
| 3.0 | 186.11 | 6.11/12.00 | 56.4 | 49.42 |
| 4.0 | 104.68 | 8.15/16.00 | 100.3 | 27.80 |
| 5.0 | 67.00 | 10.19/20.01 | 156.7 | 17.79 |
| 6.0 | 46.53 | 12.23/24.01 | 225.7 | 12.35 |
| 8.0 | 26.17 | 16.30/32.01 | 401.2 | 6.95 |
| 10.0 | 16.75 | 20.38/40.01 | 626.8 | 4.45 |
| 12.0 | 11.63 | 24.45/48.01 | 902.6 | 3.09 |
| 15.0 | 7.44 | 30.57/60.02 | 1410.3 | 1.98 |

Beam Angle(B): H91.1 V126.9  Field Angle(F): H124.0 V139.3

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.992 m
Humidity: 58
Inspector:

# Vertical IsoLux Plot




Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1675.0 lx

( 50%): 837.5 lx
( 60%):1005.0 lx
( 70%):1172.5 lx
( 80%):1340.0 lx
( 90%):1507.5 lx
(100%):1675.0 lx

C Plane (°):0.0-360.0: 45.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab: Inventfine instrument
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 7.992 m
Temperature: 28
Humidity: 58
Operator: Jacky tang
Inspector:

# Area Flux Table

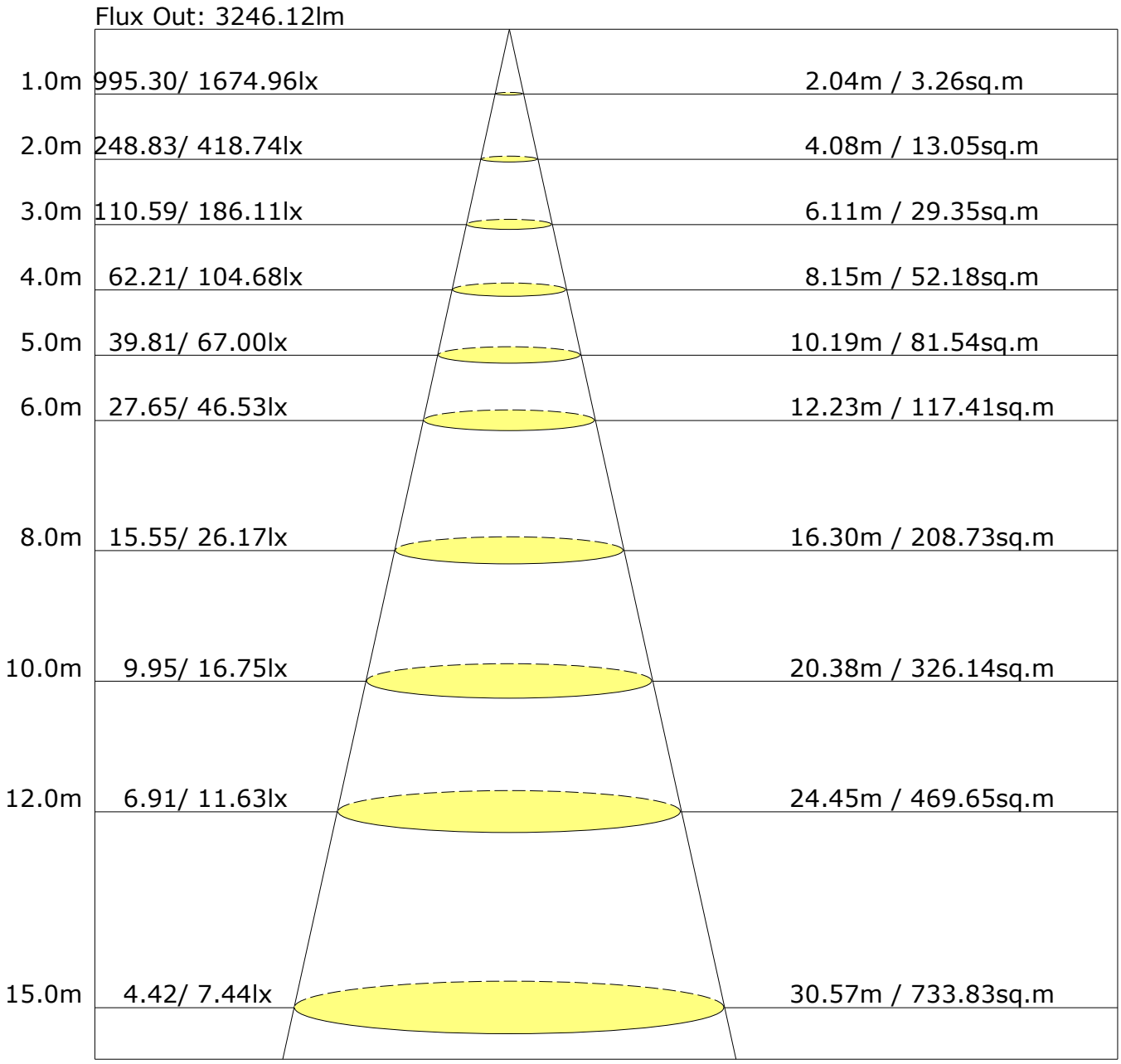
Unit: lm

| 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 | | | | | | | | | | | | | | | | | | | | | |
| -90 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 1.5 | 0.0 |
| -80 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 8.5 | 0.0 |
| -70 | 0.2 | 0.5 | 0.8 | 0.9 | 1.1 | 1.4 | 1.8 | 2.4 | 2.9 | 3.2 | 3.2 | 2.8 | 2.3 | 1.8 | 1.2 | 0.8 | 0.4 | 0.2 | 0.1 | 22.0 | 0.0 |
| -60 | 0.3 | 0.8 | 1.5 | 2.0 | 2.7 | 3.8 | 4.9 | 6.0 | 6.9 | 7.4 | 7.4 | 6.9 | 6.0 | 4.9 | 3.8 | 2.7 | 1.7 | 1.0 | 0.4 | 60.2 | 9.1 |
| -50 | 0.4 | 1.1 | 2.3 | 3.6 | 6.4 | 12.4 | 18.0 | 20.6 | 20.6 | 19.8 | 18.4 | 15.6 | 11.6 | 7.1 | 4.1 | 2.6 | 1.6 | 1.0 | 0.5 | 166.8 | 132.1 |
| -40 | 0.5 | 1.8 | 4.1 | 10.7 | 19.5 | 29.0 | 33.2 | 33.9 | 33.5 | 32.6 | 30.7 | 27.3 | 22.7 | 18.9 | 16.1 | 7.9 | 2.4 | 0.7 | 0.2 | 325.4 | 300.6 |
| -30 | 0.5 | 2.4 | 9.2 | 34.8 | 52.1 | 50.5 | 42.4 | 41.2 | 41.7 | 41.2 | 38.9 | 36.0 | 40.0 | 50.0 | 48.2 | 23.7 | 3.6 | 0.8 | 0.2 | 557.2 | 542.3 |
| -20 | 0.5 | 2.9 | 18.9 | 67.8 | 86.6 | 76.9 | 57.0 | 46.9 | 47.4 | 47.1 | 44.9 | 45.9 | 59.1 | 81.9 | 86.0 | 47.7 | 5.6 | 0.9 | 0.2 | 824.1 | 810.9 |
| -10 | 0.5 | 3.2 | 30.0 | 100.2 | 118.4 | 101.7 | 69.9 | 51.6 | 50.1 | 49.6 | 48.7 | 52.0 | 73.0 | 110.5 | 123.3 | 73.0 | 7.7 | 0.9 | 0.2 | 1064.4 | 1052.1 |
| 0 | 0.5 | 3.2 | 29.9 | 99.7 | 117.2 | 100.3 | 68.8 | 50.6 | 48.7 | 49.7 | 48.9 | 51.7 | 72.4 | 110.4 | 123.0 | 72.9 | 7.7 | 0.9 | 0.2 | 1056.4 | 1044.3 |
| 10 | 0.5 | 2.8 | 18.7 | 66.7 | 83.3 | 72.7 | 53.3 | 44.1 | 45.3 | 46.0 | 44.5 | 44.5 | 57.7 | 81.5 | 85.3 | 47.4 | 5.5 | 0.8 | 0.2 | 800.7 | 787.7 |
| 20 | 0.4 | 2.3 | 8.9 | 33.7 | 47.8 | 44.1 | 36.3 | 37.0 | 38.7 | 38.8 | 36.7 | 33.5 | 38.6 | 49.5 | 47.0 | 23.3 | 3.5 | 0.7 | 0.2 | 521.2 | 506.1 |
| 30 | 0.4 | 1.8 | 3.9 | 10.1 | 16.5 | 23.4 | 27.8 | 29.6 | 30.4 | 30.0 | 28.3 | 25.5 | 21.9 | 17.6 | 15.0 | 7.5 | 2.3 | 0.6 | 0.2 | 292.3 | 265.7 |
| 40 | 0.3 | 1.2 | 2.2 | 3.2 | 5.5 | 10.1 | 14.6 | 17.2 | 17.9 | 17.6 | 16.7 | 14.3 | 10.4 | 5.9 | 3.5 | 2.4 | 1.5 | 0.5 | 0.2 | 145.0 | 108.1 |
| 50 | 0.2 | 0.8 | 1.4 | 2.0 | 2.4 | 3.3 | 4.5 | 5.4 | 5.5 | 5.5 | 5.5 | 4.6 | 3.5 | 2.6 | 2.1 | 1.6 | 1.0 | 0.3 | 0.2 | 52.2 | 2.4 |
| 60 | 0.1 | 0.4 | 0.7 | 1.1 | 1.3 | 1.5 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.5 | 1.4 | 1.1 | 0.9 | 0.5 | 0.2 | 0.1 | 20.7 | 0.0 |
| 70 | 0.0 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 | 0.0 | 8.4 | 0.0 |
| 80 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 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 | 5928 | |
| Flux(T) | 1.5 | 8.5 | 22.0 | 60.2 | 166.8 | 325.4 | 557.2 | 824.1 | 1064.4 | 1056.4 | 800.7 | 521.2 | 292.3 | 145.0 | 52.2 | 20.7 | 8.4 | 1.3 | 5928 | | 5562 |
| Flux(E) | 0.0 | 0.0 | 0.0 | 9.1 | 132.1 | 300.6 | 542.3 | 810.9 | 1052.1 | 1044.3 | 787.7 | 506.1 | 265.7 | 108.1 | 2.4 | 0.0 | 0.0 | 0.0 | | | |

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.992 m
Humidity: 58
Inspector:

# The Average Illuminance Effective Figure

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Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.992 m
Humidity: 58
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 | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| 3H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| 4H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| 6H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| 8H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| 12H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| X=4H Y=2H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| 3H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| 4H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| 6H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| 8H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| 12H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| X=8H Y=4H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| 6H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| 8H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| 12H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| X=12H Y=4H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| 6H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| 8H | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ | -1.$ |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S=1.0H | -1.$/-1.$ | | | | | -1.$/-1.$ | | | | |
| S=1.5H | -1.$/-1.$ | | | | | -1.$/-1.$ | | | | |
| S=2.0H | -1.$/-1.$ | | | | | -1.$/-1.$ | | | | |

Calculate in accordance with CIE Pub.117. The table is revised with 5967lm (8log(F/F0) = 6.2).

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.992 m
Humidity: 58
Inspector:

# Utilisation Factor Table(Floor cavity)

| Utilisation Factors UF(F) | | | SHR NOM = 1.75 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Room Reflectance | | | Room Index(RI) | | | | | | | | |
| Ceiling | Wall | Floor | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70 | 0.50 | 0.20 | NA | 0.71 | 0.79 | 0.85 | 0.92 | 0.96 | 0.99 | 1.03 | 1.06 |
| | 0.30 | | NA | 0.64 | 0.72 | 0.78 | 0.86 | 0.92 | 0.95 | 1.00 | 1.03 |
| | 0.20 | | NA | 0.59 | 0.67 | 0.74 | 0.82 | 0.88 | 0.91 | 0.97 | 1.00 |
| 0.50 | 0.50 | 0.20 | NA | 0.69 | 0.77 | 0.82 | 0.89 | 0.93 | 0.96 | 0.99 | 1.01 |
| | 0.30 | | NA | 0.63 | 0.71 | 0.77 | 0.84 | 0.89 | 0.92 | 0.96 | 0.99 |
| | 0.20 | | NA | 0.58 | 0.66 | 0.72 | 0.80 | 0.85 | 0.89 | 0.94 | 0.97 |
| 0.30 | 0.50 | 0.20 | NA | 0.67 | 0.74 | 0.79 | 0.86 | 0.90 | 0.92 | 0.96 | 0.98 |
| | 0.30 | | NA | 0.62 | 0.69 | 0.75 | 0.82 | 0.86 | 0.89 | 0.93 | 0.96 |
| | 0.20 | | NA | 0.58 | 0.65 | 0.71 | 0.79 | 0.83 | 0.87 | 0.91 | 0.94 |
| 0.00 | 0.00 | 0.00 | NA | 0.55 | 0.63 | 0.68 | 0.75 | 0.80 | 0.83 | 0.87 | 0.89 |

Rating:52W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.992 m
Humidity: 58
Inspector:

# Utilisation Factor Table(Wall)

| Utilisation Factors UF(W) | | | | | | | SHR NOM = 1.75 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Room Reflectance | | | Room Index(RI) | | | | | | | | |
| Ceiling | Wall | Floor | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70 | 0.50 | 0.20 | NA | 0.76 | 0.63 | 0.54 | 0.42 | 0.34 | 0.29 | 0.22 | 0.18 |
| | 0.30 | | NA | 0.65 | 0.55 | 0.47 | 0.38 | 0.31 | 0.27 | 0.21 | 0.17 |
| | 0.20 | | NA | 0.56 | 0.49 | 0.43 | 0.34 | 0.29 | 0.25 | 0.20 | 0.16 |
| 0.50 | 0.50 | 0.20 | NA | 0.72 | 0.60 | 0.51 | 0.39 | 0.36 | 0.27 | 0.21 | 0.17 |
| | 0.30 | | NA | 0.63 | 0.53 | 0.46 | 0.36 | 0.30 | 0.26 | 0.20 | 0.16 |
| | 0.20 | | NA | 0.55 | 0.48 | 0.41 | 0.33 | 0.28 | 0.24 | 0.19 | 0.16 |
| 0.30 | 0.50 | 0.20 | NA | 0.69 | 0.58 | 0.49 | 0.37 | 0.31 | 0.26 | 0.20 | 0.16 |
| | 0.30 | | NA | 0.61 | 0.52 | 0.44 | 0.35 | 0.29 | 0.24 | 0.19 | 0.15 |
| | 0.20 | | NA | 0.55 | 0.47 | 0.40 | 0.32 | 0.27 | 0.23 | 0.18 | 0.15 |
| 0.00 | 0.00 | 0.00 | 1.00 | 0.44 | 0.37 | 0.31 | 0.24 | 0.20 | 0.17 | 0.13 | 0.11 |

Rating:52W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.992 m
Humidity: 58
Inspector:

# Utilisation Factor Table(Ceiling cavity)

| Utilisation Factors UF(C) | | | SHR NOM = 1.75 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Room Reflectance | | | Room Index(RI) | | | | | | | | |
| Ceiling | Wall | Floor | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70 | 0.50 | 0.20 | NA | 0.18 | 0.18 | 0.19 | 0.20 | 0.21 | 0.21 | 0.22 | 0.22 |
| | 0.30 | | NA | 0.12 | 0.13 | 0.14 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 |
| | 0.20 | | NA | 0.07 | 0.09 | 0.10 | 0.12 | 0.14 | 0.15 | 0.17 | 0.18 |
| 0.50 | 0.50 | 0.20 | NA | 0.17 | 0.18 | 0.18 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 |
| | 0.30 | | NA | 0.11 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 |
| | 0.20 | | NA | 0.07 | 0.09 | 0.10 | 0.12 | 0.14 | 0.15 | 0.16 | 0.17 |
| 0.30 | 0.50 | 0.20 | NA | 0.16 | 0.17 | 0.18 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 |
| | 0.30 | | NA | 0.11 | 0.12 | 0.13 | 0.15 | 0.16 | 0.17 | 0.18 | 0.18 |
| | 0.20 | | NA | 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:52W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.992 m
Humidity: 58
Inspector: