

Report No.:

Test Time: 2019-10-18 10:10

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 100300KRW

Luminous Width (mm): 555

Current: 0.199 A

Power Factor: 0.972

Luminous Length (mm): 555

Voltage: 219.1 V

Power: 42.35 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4158.6 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 131.1, 138.6, 136.5, 136.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 81.5, 82.0, 82.3, 82.3

Luminaire Efficacy Rating (LER): 98.25

Max. Intensity: 534.18 cd/klm

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 4158.6 lm

Efficiency: 100%

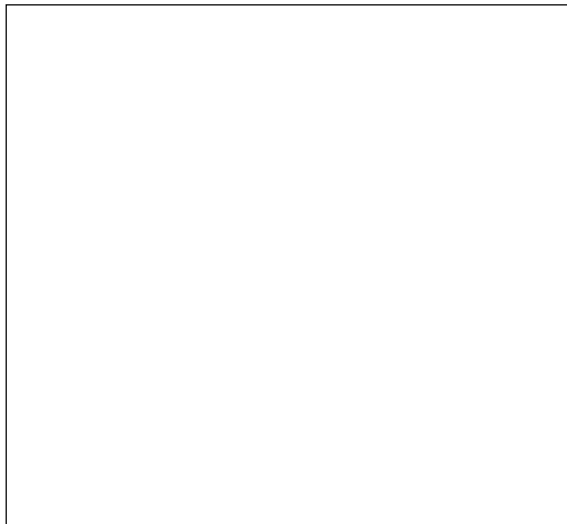
Upward Ratio: 0%

Central Intensity: 517.7 cd/klm

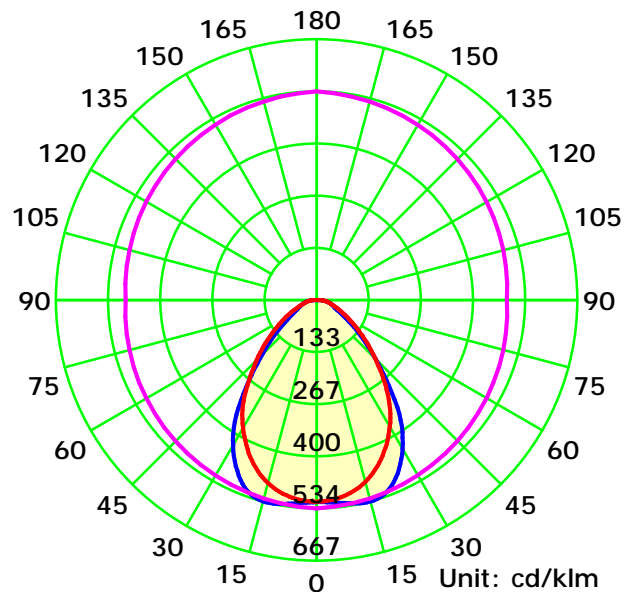
Pos of Max. Intensity: H180 V14

S/MH(C90/C270): 1.11

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G14

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

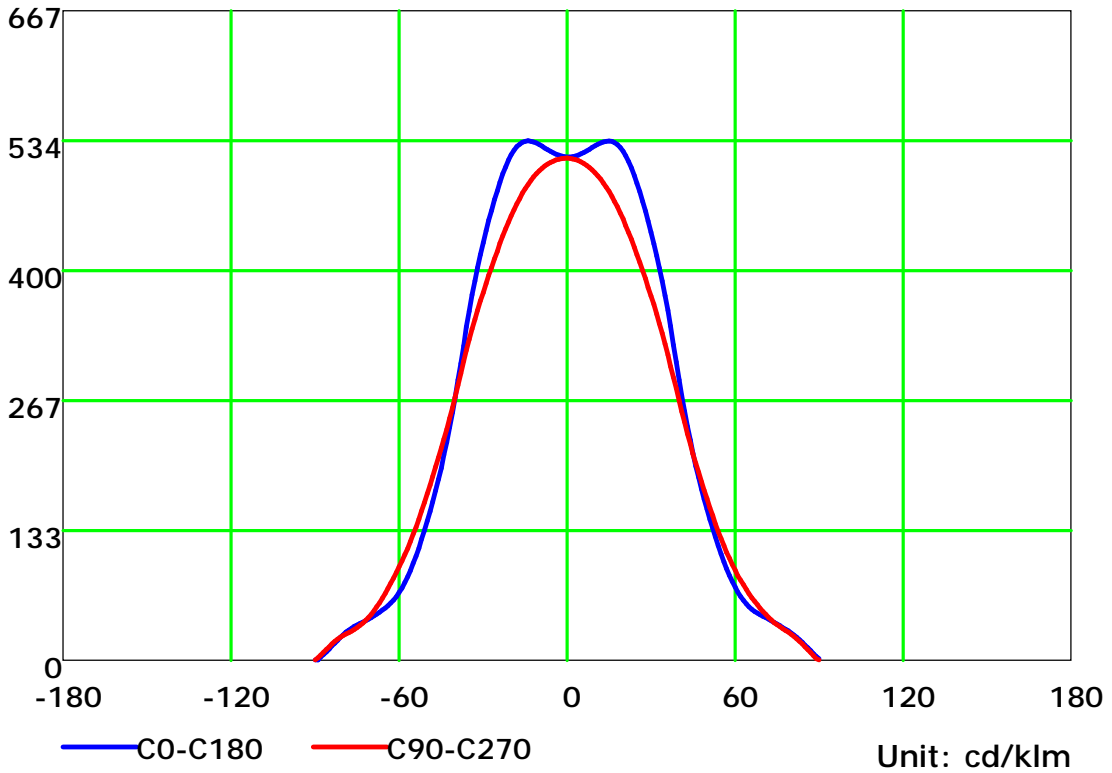
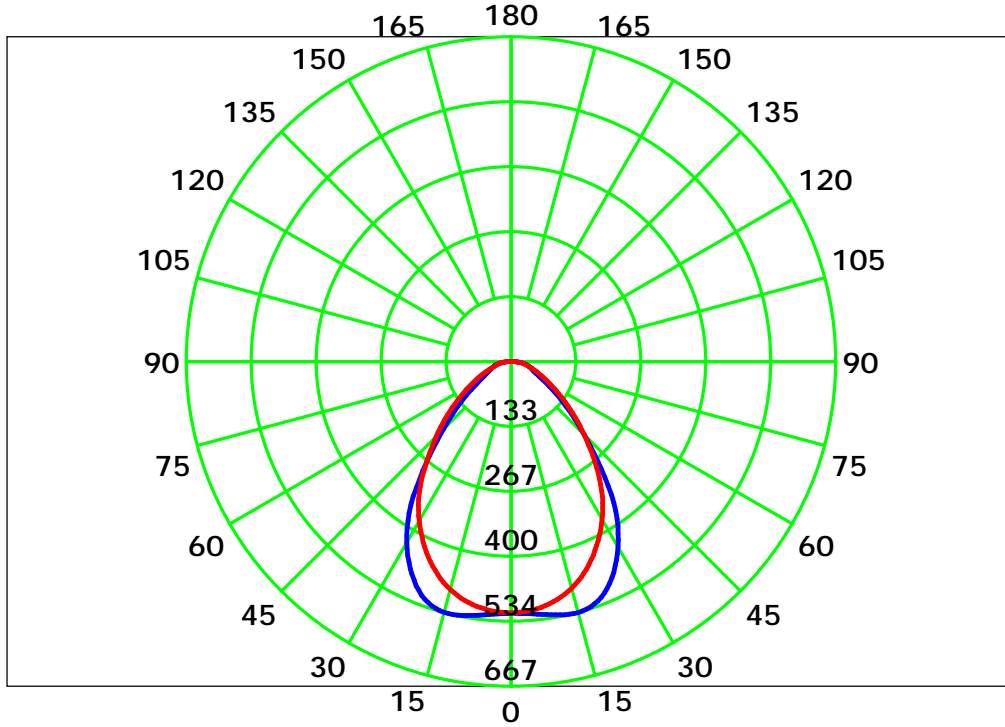
Test Device: GPM-1600L

Distance: 7.688 m

Humidity:

Inspector:

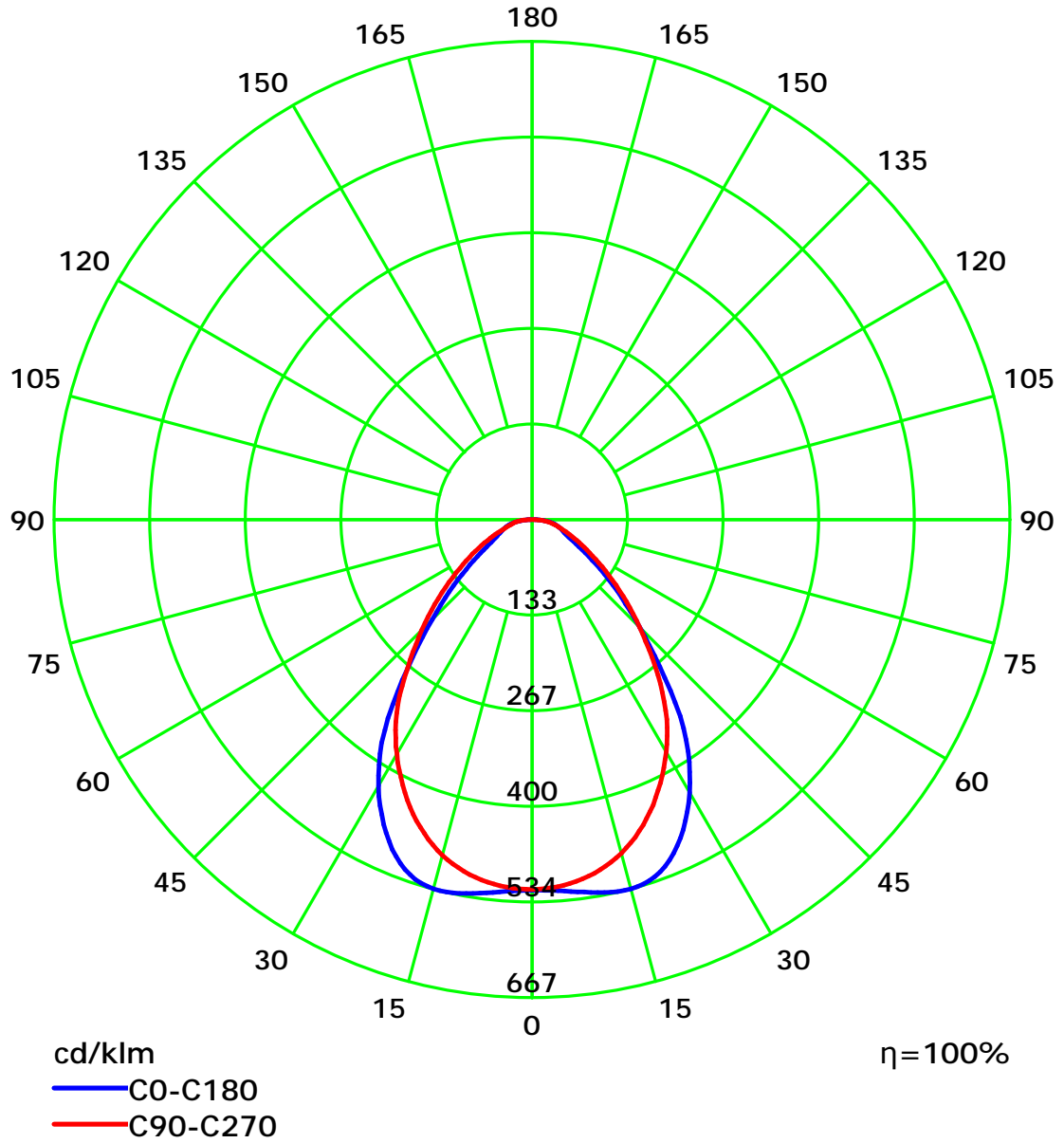
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.688 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



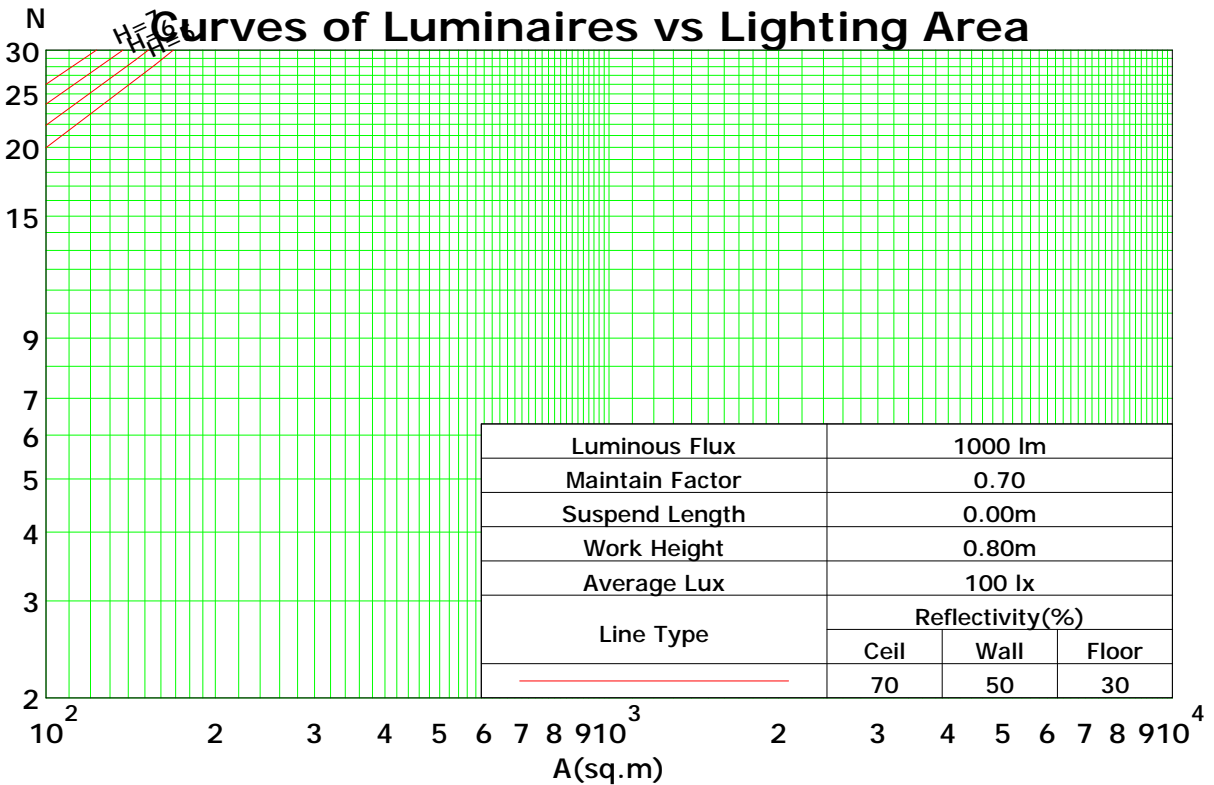
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.688 m
Humidity:
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 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 82 | 87 | 83 | 80 | 84 | 81 | 78 | 76 |
| 3 | 95 | 85 | 78 | 73 | 92 | 84 | 77 | 72 | 81 | 76 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 67 |
| 4 | 88 | 77 | 70 | 64 | 86 | 76 | 69 | 63 | 74 | 67 | 62 | 71 | 66 | 62 | 69 | 65 | 61 | 59 |
| 5 | 82 | 70 | 62 | 56 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 59 | 55 | 63 | 58 | 54 | 53 |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 43 |
| 8 | 67 | 54 | 47 | 41 | 65 | 54 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 40 | 39 |
| 9 | 62 | 50 | 43 | 38 | 61 | 50 | 42 | 38 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 35 |
| 10 | 59 | 47 | 39 | 35 | 58 | 46 | 39 | 35 | 45 | 39 | 34 | 44 | 38 | 34 | 44 | 38 | 34 | 32 |

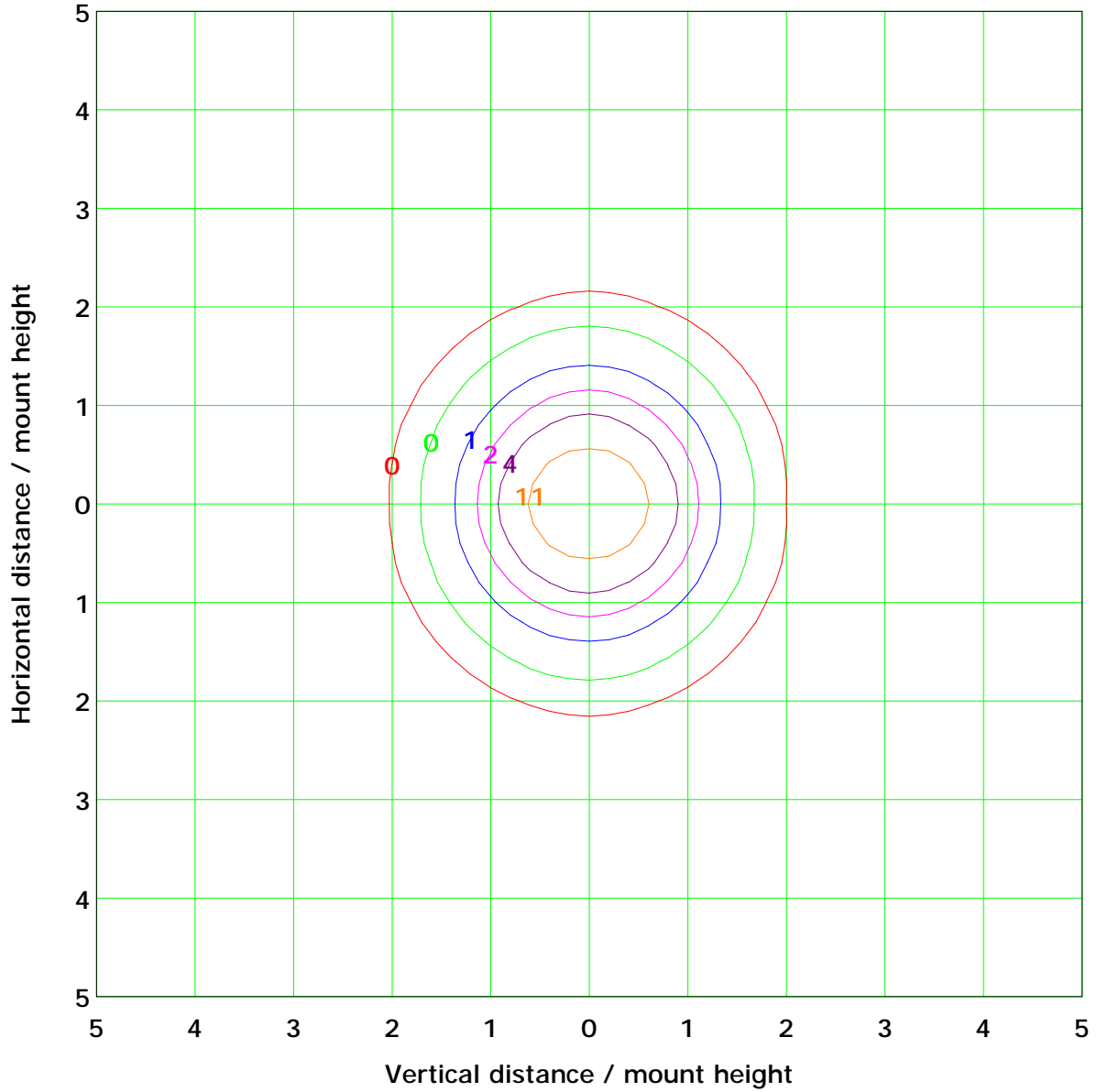
Spacing Criteria (0-180): 1.22
 Spacing Criteria (90-270): 1.11
 Spacing Criteria (Diagonal): 1.17



C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.688 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 21.5 lx

| | |
|-----------------|-----------------|
| (1%): 0.2 lx | (2%): 0.4 lx |
| (5%): 1.1 lx | (10%): 2.2 lx |
| (20%): 4.3 lx | (50%): 10.8 lx |
| (100%): 21.5 lx | |

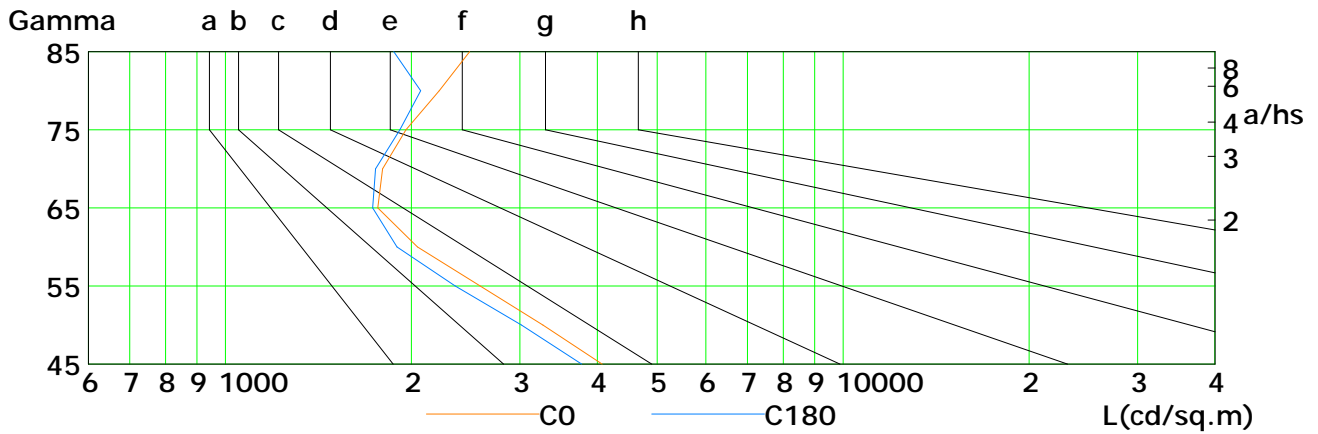
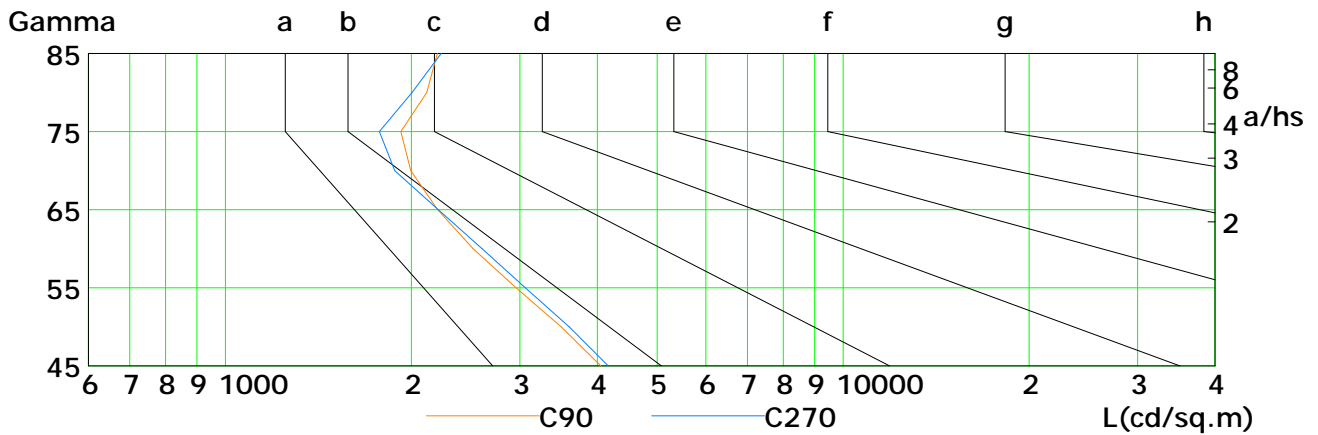
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.688 m
Humidity:
Inspector:

Lum Limit Curve

| Dazzle | Quality | Illuminance (lx) | | | | | | | |
|--------|---------|------------------|------|------|-------|-------|-------|-------|-------|
| | | 2000 | 1000 | 500 | <=300 | | | | |
| 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

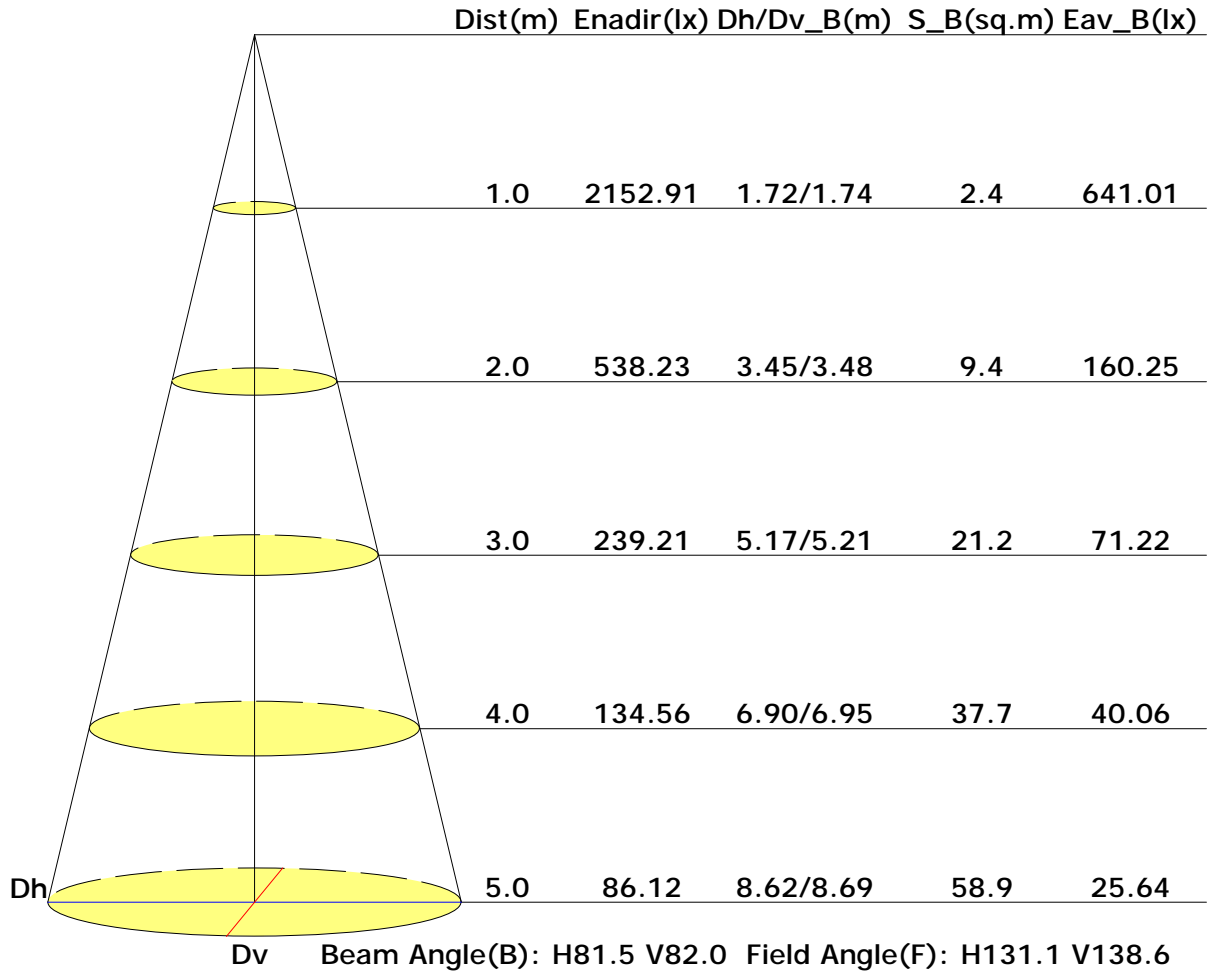


| L(cd/sq.m) | G45 | G50 | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|------------|------|------|------|------|------|------|------|------|------|
| C0 | 4073 | 3268 | 2585 | 2046 | 1765 | 1798 | 1960 | 2221 | 2485 |
| C90 | 4054 | 3497 | 2956 | 2519 | 2206 | 1996 | 1925 | 2120 | 2204 |
| C180 | 3774 | 3016 | 2355 | 1897 | 1731 | 1750 | 1918 | 2071 | 1875 |
| C270 | 4170 | 3603 | 3059 | 2604 | 2211 | 1881 | 1775 | 2006 | 2236 |

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.688 m
 Humidity:
 Inspector:

Illuminance at a Distance



Tel:
Fax:

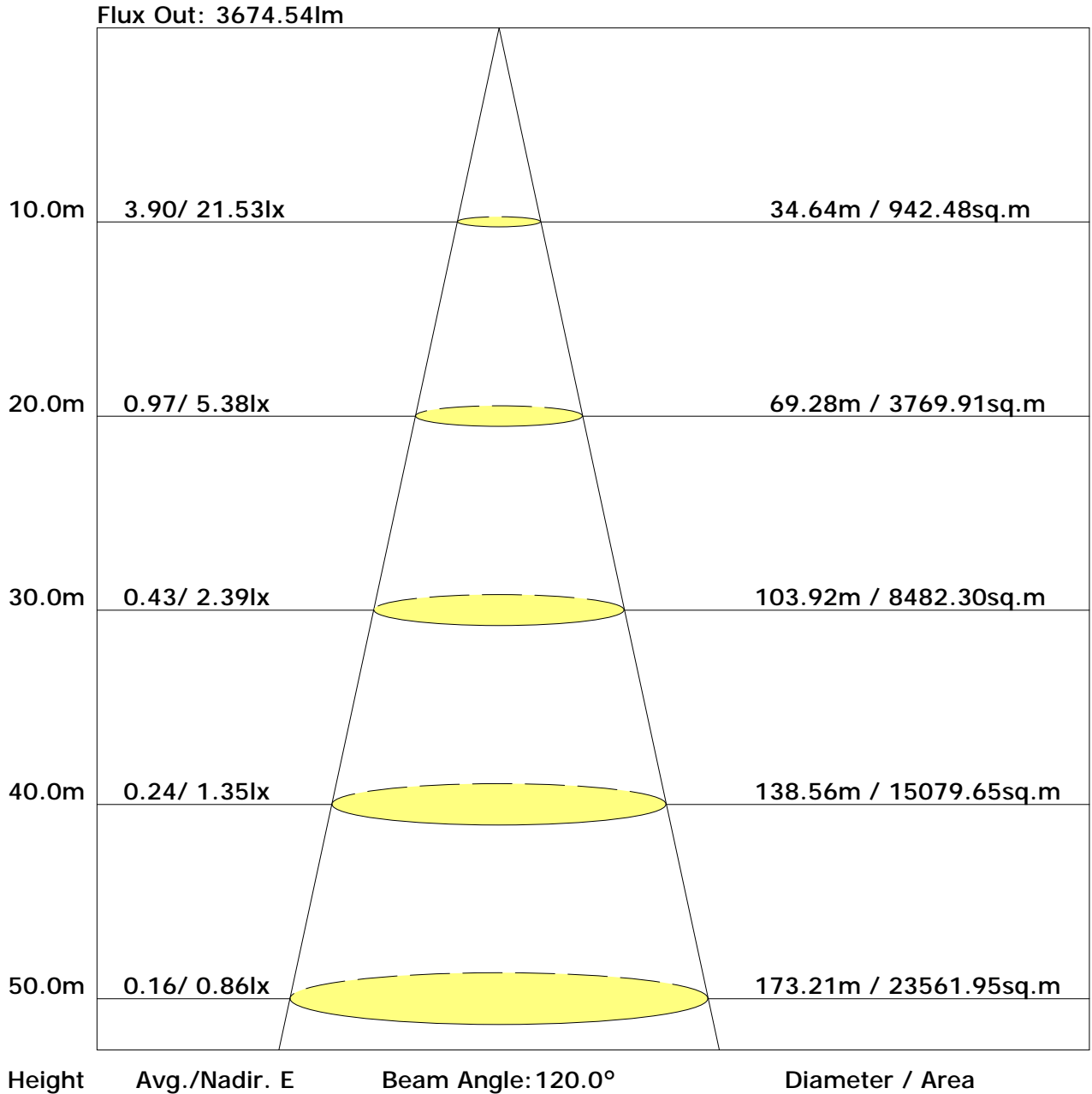
Area Flux Table

Unit: lm/klm

| | | Vertical plane | | | | | | | | | | | | | | | | | | |
|---------|-----|----------------|-----|-----|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|-----|-----|-----|------|
| | | -90 | -80 | -70 | -60 | -50 | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| Flux(E) | -90 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.0 |
| | -80 | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.8 | 0.9 | 1.0 | 1.1 | 1.1 | 1.0 | 0.9 | 0.8 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.0 |
| | -70 | 0.0 | 0.1 | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.9 | 2.1 | 2.1 | 1.9 | 1.5 | 1.2 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.0 |
| | -60 | 0.0 | 0.2 | 0.4 | 0.8 | 1.2 | 1.9 | 2.7 | 3.4 | 3.9 | 3.9 | 3.4 | 2.7 | 2.0 | 1.5 | 1.3 | 1.3 | 1.3 | 1.3 | 0.0 |
| | -50 | 0.0 | 0.2 | 0.5 | 1.0 | 1.8 | 3.0 | 4.4 | 5.7 | 6.5 | 6.5 | 5.8 | 4.5 | 3.4 | 2.7 | 2.2 | 2.0 | 1.9 | 1.9 | 0.0 |
| | -40 | 0.0 | 0.3 | 0.6 | 1.2 | 2.5 | 4.4 | 6.8 | 8.8 | 9.9 | 9.9 | 9.0 | 7.0 | 4.6 | 3.1 | 2.6 | 2.3 | 2.3 | 2.3 | 0.0 |
| | -30 | 0.0 | 0.3 | 0.7 | 1.5 | 3.2 | 6.1 | 9.5 | 11.9 | 12.8 | 12.8 | 12.0 | 9.7 | 6.4 | 4.2 | 3.4 | 3.0 | 3.0 | 3.0 | 0.0 |
| | -20 | 0.0 | 0.3 | 0.7 | 1.7 | 3.9 | 7.7 | 11.6 | 14.1 | 14.8 | 14.8 | 14.1 | 11.8 | 8.0 | 4.2 | 3.4 | 3.0 | 3.0 | 3.0 | 0.0 |
| | -10 | 0.0 | 0.3 | 0.7 | 1.8 | 4.3 | 8.7 | 12.9 | 15.3 | 15.7 | 15.7 | 15.3 | 13.1 | 9.1 | 4.6 | 3.4 | 3.0 | 3.0 | 3.0 | 0.0 |
| | 0 | 0.0 | 0.3 | 0.7 | 1.8 | 4.3 | 8.7 | 12.9 | 15.2 | 15.7 | 15.6 | 15.3 | 13.1 | 9.0 | 4.6 | 3.4 | 3.0 | 3.0 | 3.0 | 0.0 |
| | 10 | 0.0 | 0.3 | 0.7 | 1.7 | 3.9 | 7.7 | 11.6 | 14.0 | 14.7 | 14.8 | 14.1 | 11.8 | 8.0 | 4.1 | 3.4 | 3.0 | 3.0 | 3.0 | 0.0 |
| | 20 | 0.0 | 0.3 | 0.7 | 1.5 | 3.2 | 6.0 | 9.5 | 11.8 | 12.7 | 12.7 | 11.9 | 9.7 | 6.3 | 3.4 | 3.0 | 3.0 | 3.0 | 3.0 | 0.0 |
| | 30 | 0.0 | 0.3 | 0.6 | 1.2 | 2.4 | 4.4 | 6.7 | 8.8 | 9.8 | 9.8 | 8.9 | 6.9 | 4.6 | 2.6 | 2.3 | 2.3 | 2.3 | 2.3 | 0.0 |
| | 40 | 0.0 | 0.2 | 0.5 | 1.0 | 1.7 | 2.9 | 4.3 | 5.6 | 6.4 | 6.4 | 5.7 | 4.5 | 3.0 | 1.8 | 1.6 | 1.6 | 1.6 | 1.6 | 0.0 |
| | 50 | 0.0 | 0.2 | 0.5 | 0.8 | 1.2 | 1.9 | 2.6 | 3.3 | 3.7 | 3.8 | 3.3 | 2.7 | 1.9 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 |
| | 60 | 0.0 | 0.1 | 0.4 | 0.6 | 0.9 | 1.2 | 1.6 | 1.9 | 2.1 | 2.1 | 1.9 | 1.6 | 1.2 | 0.9 | 0.6 | 0.6 | 0.6 | 0.6 | 0.0 |
| | 70 | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.8 | 0.9 | 1.1 | 1.1 | 1.1 | 1.1 | 1.0 | 0.8 | 0.6 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 |
| | 80 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 |
| Flux(T) | 90 | 0.5 | 3.5 | 8.6 | 18.1 | 37.1 | 67.8 | 101.1 | 124.5 | 133.8 | 134.0 | 125.5 | 103.2 | 70.5 | 39.2 | 19.2 | 8.9 | 3.7 | 0.6 | 1000 |
| Flux(E) | -90 | 0.0 | 0.0 | 2.4 | 13.7 | 33.2 | 64.0 | 97.4 | 120.9 | 130.3 | 130.5 | 121.9 | 99.5 | 66.7 | 35.1 | 14.7 | 2.7 | 0.0 | 0.0 | 933 |

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.688 m
Humidity:
Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.688 m
 Humidity:
 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 | 15.2 | 16.4 | 15.5 | 16.6 | 16.8 | 15.5 | 16.7 | 15.8 | 17.0 | 17.2 |
| 3H | 15.9 | 17.0 | 16.2 | 17.3 | 17.5 | 16.4 | 17.5 | 16.7 | 17.7 | 18.0 |
| 4H | 16.4 | 17.4 | 16.7 | 17.7 | 18.0 | 16.7 | 17.8 | 17.1 | 18.1 | 18.3 |
| 6H | 16.9 | 17.9 | 17.3 | 18.2 | 18.5 | 17.2 | 18.1 | 17.5 | 18.4 | 18.7 |
| 8H | 17.2 | 18.1 | 17.6 | 18.4 | 18.8 | 17.4 | 18.3 | 17.7 | 18.6 | 18.9 |
| 12H | 17.4 | 18.3 | 17.8 | 18.6 | 19.0 | 17.5 | 18.4 | 17.9 | 18.8 | 19.1 |
| X=4H Y=2H | 15.5 | 16.5 | 15.9 | 16.8 | 17.1 | 15.8 | 16.8 | 16.2 | 17.1 | 17.4 |
| 3H | 16.5 | 17.4 | 16.9 | 17.7 | 18.0 | 16.9 | 17.7 | 17.2 | 18.1 | 18.4 |
| 4H | 17.1 | 17.9 | 17.5 | 18.3 | 18.7 | 17.4 | 18.2 | 17.8 | 18.5 | 18.9 |
| 6H | 17.9 | 18.6 | 18.3 | 19.0 | 19.4 | 18.0 | 18.7 | 18.4 | 19.1 | 19.5 |
| 8H | 18.2 | 18.9 | 18.7 | 19.3 | 19.7 | 18.3 | 19.0 | 18.7 | 19.4 | 19.8 |
| 12H | 18.5 | 19.1 | 19.0 | 19.5 | 20.0 | 18.6 | 19.1 | 19.0 | 19.6 | 20.0 |
| X=8H Y=4H | 17.4 | 18.1 | 17.9 | 18.5 | 18.9 | 17.7 | 18.3 | 18.1 | 18.7 | 19.1 |
| 6H | 18.4 | 18.9 | 18.8 | 19.3 | 19.8 | 18.5 | 19.0 | 18.9 | 19.4 | 19.9 |
| 8H | 18.8 | 19.3 | 19.3 | 19.8 | 20.2 | 18.9 | 19.3 | 19.4 | 19.8 | 20.3 |
| 12H | 19.3 | 19.7 | 19.8 | 20.1 | 20.6 | 19.3 | 19.6 | 19.7 | 20.1 | 20.6 |
| X=12H Y=4H | 17.5 | 18.0 | 17.9 | 18.5 | 18.9 | 17.7 | 18.3 | 18.1 | 18.7 | 19.1 |
| 6H | 18.5 | 18.9 | 18.9 | 19.4 | 19.9 | 18.6 | 19.0 | 19.0 | 19.5 | 19.9 |
| 8H | 19.0 | 19.4 | 19.5 | 19.9 | 20.4 | 19.0 | 19.4 | 19.5 | 19.9 | 20.4 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S=1.0H | +0.4/-0.5 | | | | | +0.3/-0.4 | | | | |
| S=1.5H | +0.6/-1.1 | | | | | +0.5/-1.0 | | | | |
| S=2.0H | +1.4/-1.7 | | | | | +1.1/-1.5 | | | | |

Calculate in accordance with CIE Pub.117. The table is revised with 4159lm ($8\log(F/F_0) = 5.0$).

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.688 m
 Humidity:
 Inspector: