

Report No.: 1

Test Time: 01.08.2019 15:19

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 8x18LED 54W 4000K microprisma polesterol 1,5

Lamp Description: LED

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.2 V

Current: 0.240 A

Power: 52.73 W

Power Factor: 0.992

## Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 6383.2 lm

Measurement Flux: 6383.2 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.9, 164.2, 156.1, 155.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 81.6, 81.0, 79.0, 79.8

Luminaire Efficacy Rating (LER): 121.10

Central Intensity: 3048.12 cd

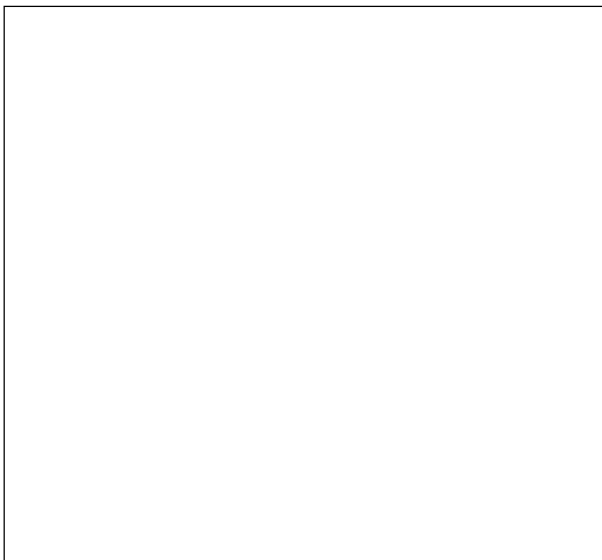
Max. Intensity: 3089.8 cd

Pos of Max. Intensity: H0 V9

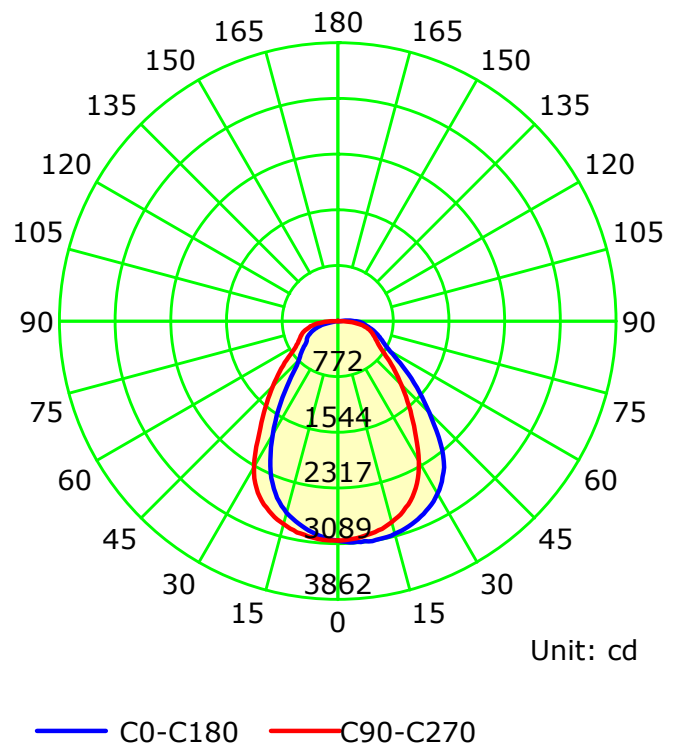
S/MH(C0/C180): 1.13

S/MH(C90/C270): 1.14

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:1.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

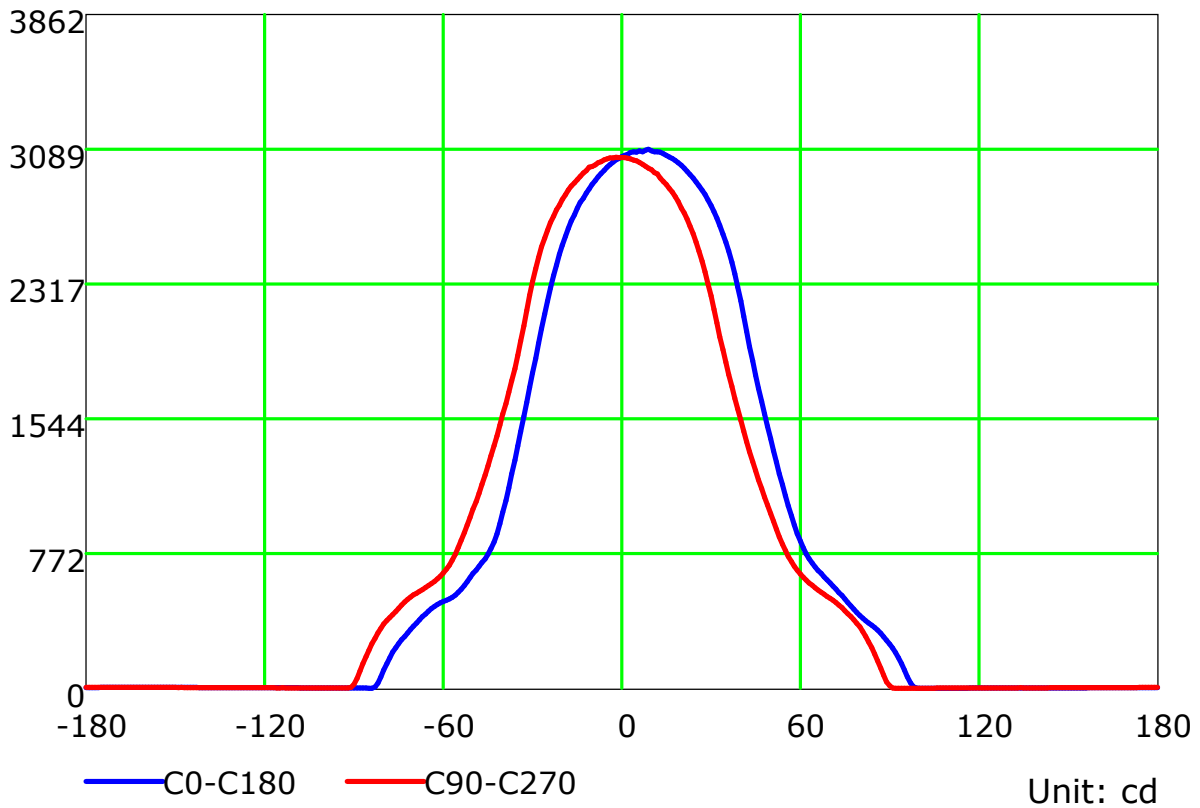
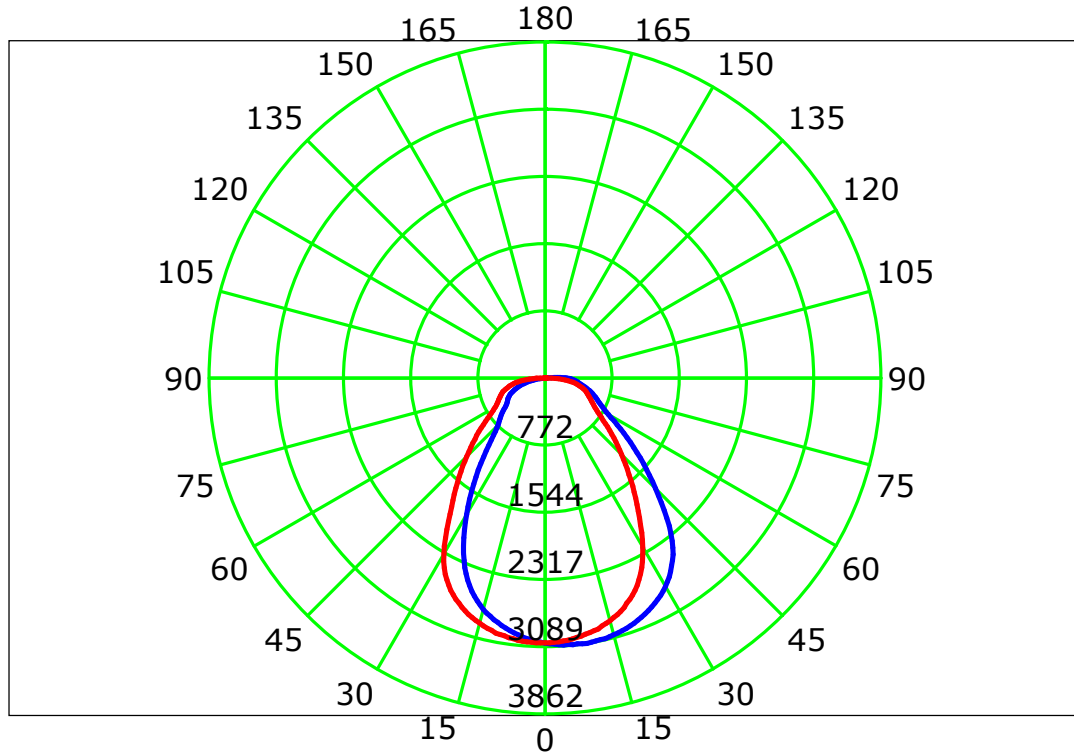
Temperature:

Humidity:

Operator:

Inspector:

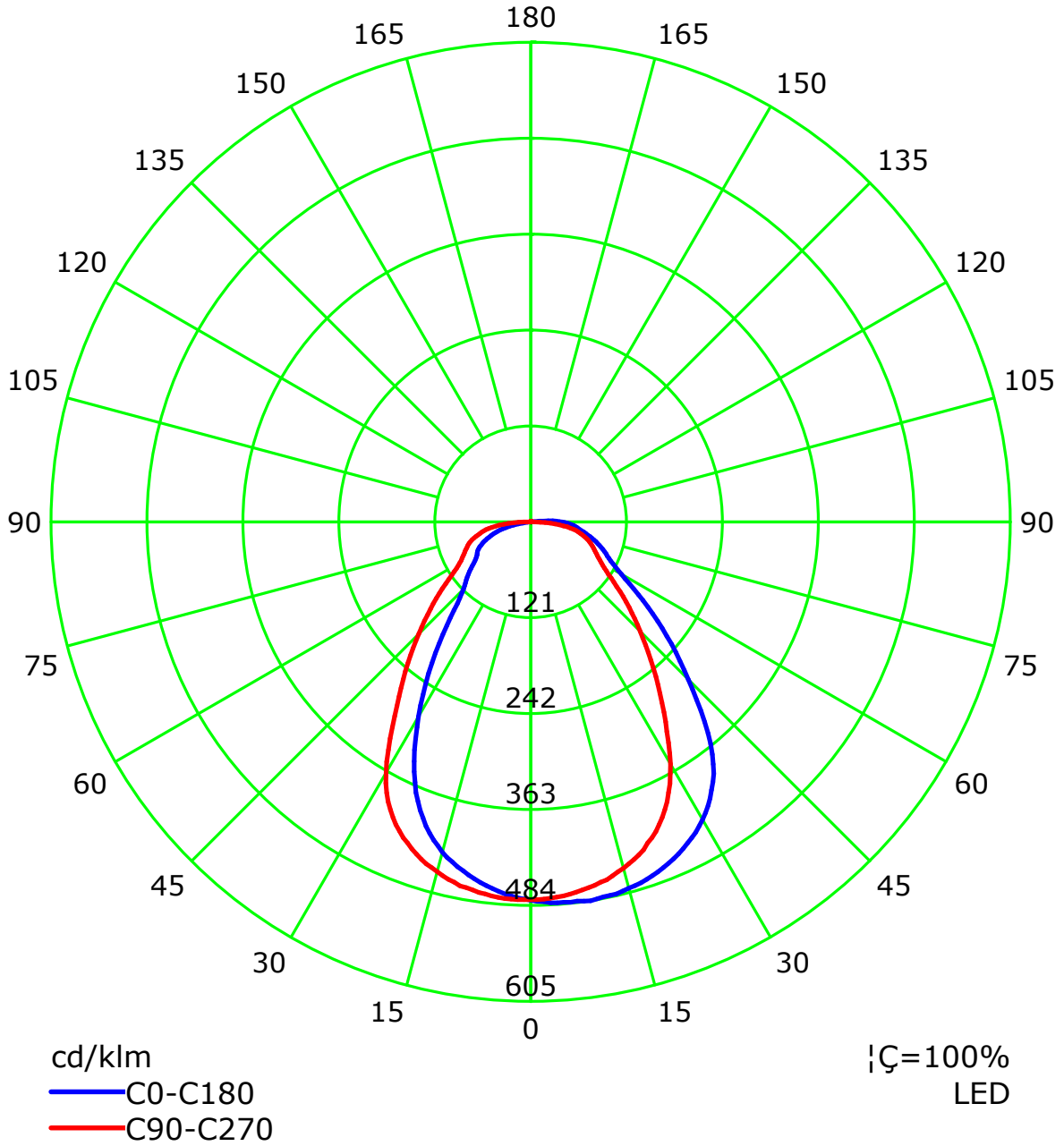
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: LSG-1800B  
 Distance: 12.677 m  
 Humidity:  
 Inspector:

# Luminous Intensity Distribution Curve(cd/klm)



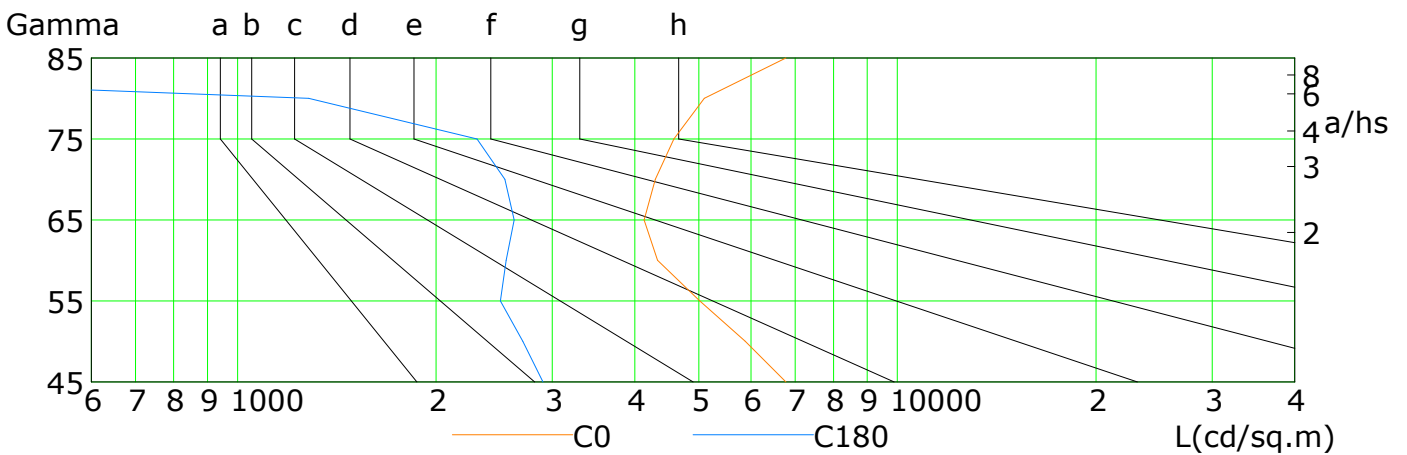
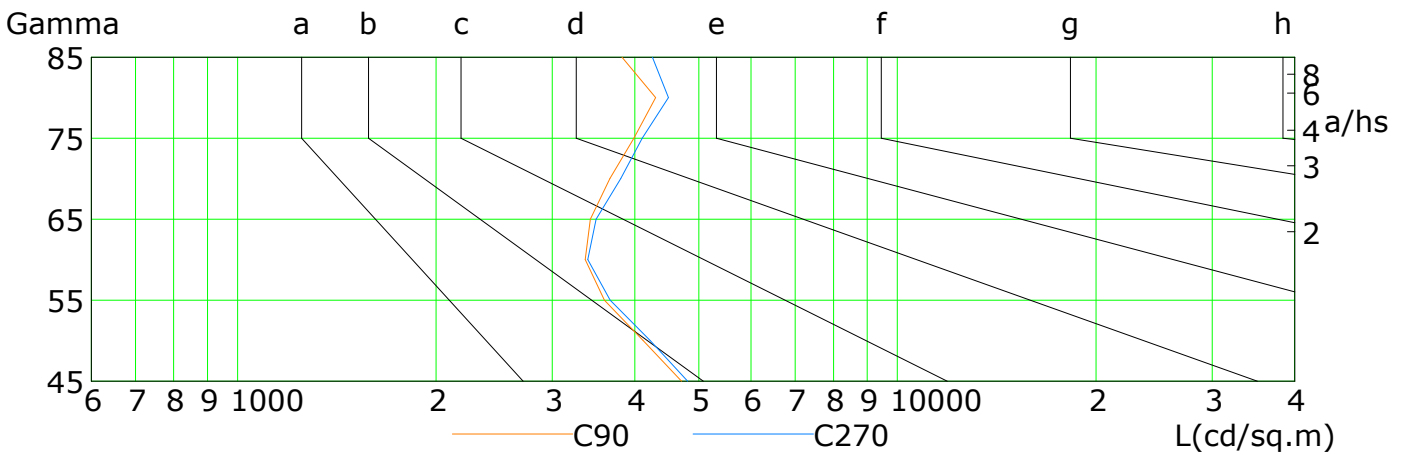
C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: LSG-1800B  
Distance: 12.677 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

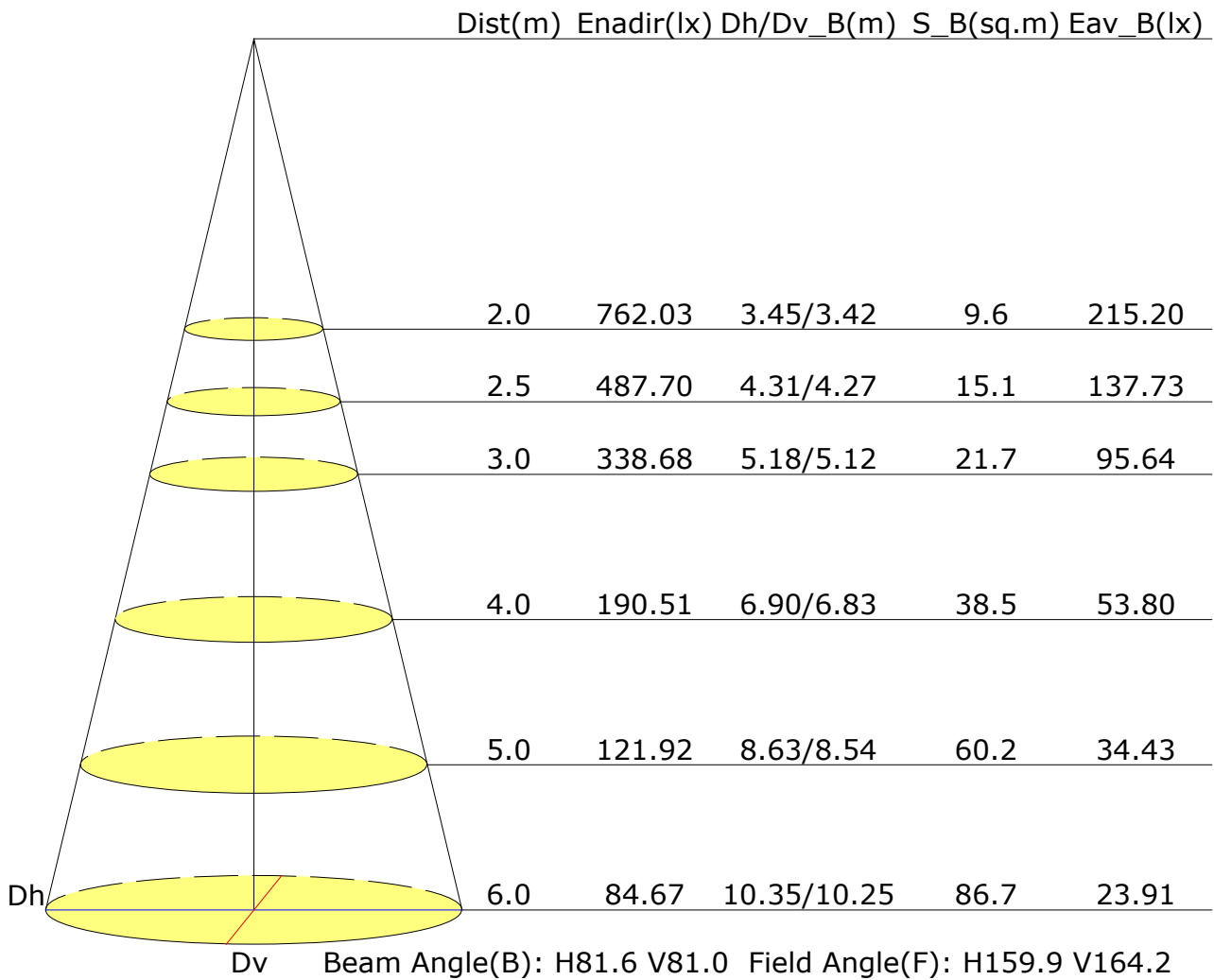


| L(cd/sq.m) | G45  | G50  | G55  | G60  | G65  | G70  | G75  | G80  | G85  |
|------------|------|------|------|------|------|------|------|------|------|
| C0         | 6776 | 5881 | 5021 | 4332 | 4131 | 4296 | 4586 | 5099 | 6776 |
| C90        | 4708 | 4117 | 3596 | 3364 | 3424 | 3668 | 3988 | 4299 | 3825 |
| C180       | 2902 | 2705 | 2502 | 2554 | 2626 | 2541 | 2306 | 1282 | 34   |
| C270       | 4811 | 4222 | 3668 | 3396 | 3496 | 3810 | 4105 | 4499 | 4251 |

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: LSG-1800B  
 Distance: 12.677 m  
 Humidity:  
 Inspector:

## Illuminance at a Distance



C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: LSG-1800B  
 Distance: 12.677 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  | 18.1             | 19.3 | 18.4 | 19.6 | 19.8 | 16.9           | 18.2 | 17.2 | 18.5 | 18.7 |
| 3H   | 19.5             | 20.6 | 19.8 | 20.9 | 21.2 | 18.4           | 19.6 | 18.8 | 19.9 | 20.2 |
| 4H   | 20.3             | 21.4 | 20.6 | 21.7 | 22.0 | 19.3           | 20.4 | 19.7 | 20.7 | 21.0 |
| 6H   | 21.1             | 22.1 | 21.5 | 22.5 | 22.8 | 20.2           | 21.3 | 20.6 | 21.6 | 21.9 |
| 8H   | 21.6             | 22.6 | 21.9 | 22.9 | 23.2 | 20.6           | 21.6 | 21.0 | 21.9 | 22.3 |
| 12H  | 22.0             | 23.0 | 22.4 | 23.3 | 23.7 | 20.9           | 21.9 | 21.3 | 22.2 | 22.6 |
| X=4H Y=2H  | 18.4             | 19.5 | 18.8 | 19.8 | 20.1 | 17.5           | 18.6 | 17.9 | 18.9 | 19.2 |
| 3H   | 20.1             | 21.1 | 20.5 | 21.4 | 21.7 | 19.3           | 20.2 | 19.7 | 20.6 | 20.9 |
| 4H   | 21.1             | 22.0 | 21.5 | 22.3 | 22.7 | 20.4           | 21.2 | 20.8 | 21.6 | 22.0 |
| 6H   | 22.2             | 22.9 | 22.6 | 23.3 | 23.7 | 21.5           | 22.2 | 21.9 | 22.6 | 23.1 |
| 8H   | 22.7             | 23.4 | 23.2 | 23.8 | 24.3 | 22.0           | 22.7 | 22.4 | 23.1 | 23.5 |
| 12H  | 23.3             | 24.0 | 23.8 | 24.4 | 24.9 | 22.4           | 23.0 | 22.8 | 23.5 | 23.9 |
| X=8H Y=4H  | 21.4             | 22.1 | 21.9 | 22.6 | 23.0 | 20.8           | 21.5 | 21.3 | 21.9 | 22.4 |
| 6H   | 22.7             | 23.3 | 23.2 | 23.7 | 24.2 | 22.2           | 22.7 | 22.6 | 23.2 | 23.7 |
| 8H   | 23.4             | 23.9 | 23.9 | 24.4 | 24.9 | 22.8           | 23.3 | 23.3 | 23.8 | 24.3 |
| 12H  | 24.2             | 24.7 | 24.7 | 25.1 | 25.7 | 23.4           | 23.8 | 23.9 | 24.3 | 24.8 |
| X=12H Y=4H   | 21.5             | 22.1 | 22.0 | 22.6 | 23.0 | 20.9           | 21.5 | 21.4 | 22.0 | 22.4 |
| 6H   | 22.8             | 23.3 | 23.3 | 23.8 | 24.3 | 22.3           | 22.8 | 22.8 | 23.3 | 23.8 |
| 8H   | 23.6             | 24.1 | 24.1 | 24.5 | 25.1 | 23.1           | 23.5 | 23.6 | 24.0 | 24.5 |
| Variations with the observer position at spacings: |                  |      |      |      |      |                |      |      |      |      |
| S=1.0H   | +0.3/-0.2        |      |      |      |      | +0.3/-0.3      |      |      |      |      |
| S=1.5H   | +0.4/-0.6        |      |      |      |      | +0.4/-0.7      |      |      |      |      |
| S=2.0H   | +0.7/-1.0        |      |      |      |      | +0.5/-1.0      |      |      |      |      |

Calculate in accordance with CIE Pub.117. The table is revised with 6383lm ( $8\log(F/F_0) = 6.4$ ).

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: LSG-1800B  
 Distance: 12.677 m  
 Humidity:  
 Inspector: