

Report No.: 1

Test Time: 16.07.2019 15:23

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 2x152LED 0,45A 52W 4000K opal

Lamp Description: LED

Luminous Width (mm): 76

Voltage: 221.4 V

Power: 51.36 W

Luminous Length (mm): 1500

Luminous Height (mm): 60

Current: 0.234 A

Power Factor: 0.991

Photometric Results

CIE Class: Direct

Measurement Flux: 6025.9 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 167.1, 164.4, 165.3, 165.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.8, 112.2, 113.7, 113.1

Luminaire Efficacy Rating (LER): 117.38

Max. Intensity: 2041.47 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 6025.9 lm

Efficiency: 100%

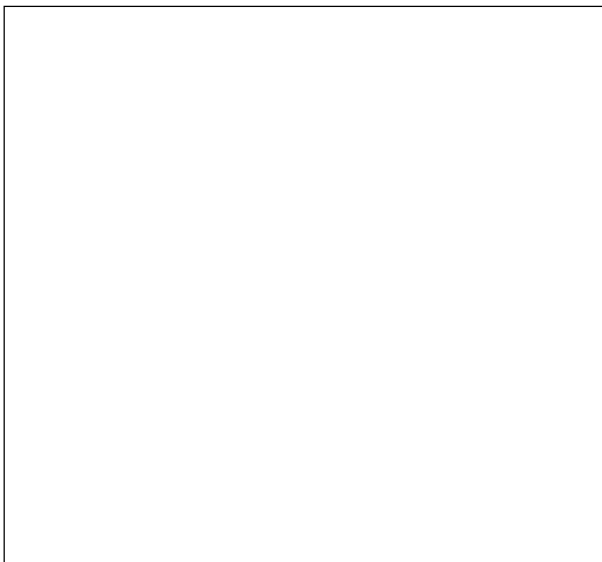
Upward Ratio: 1%

Central Intensity: 2041.47 cd

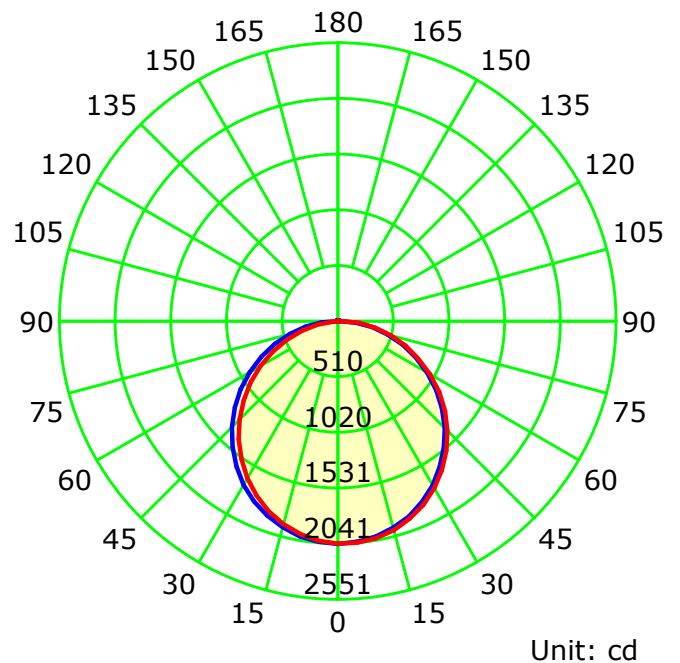
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.25

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

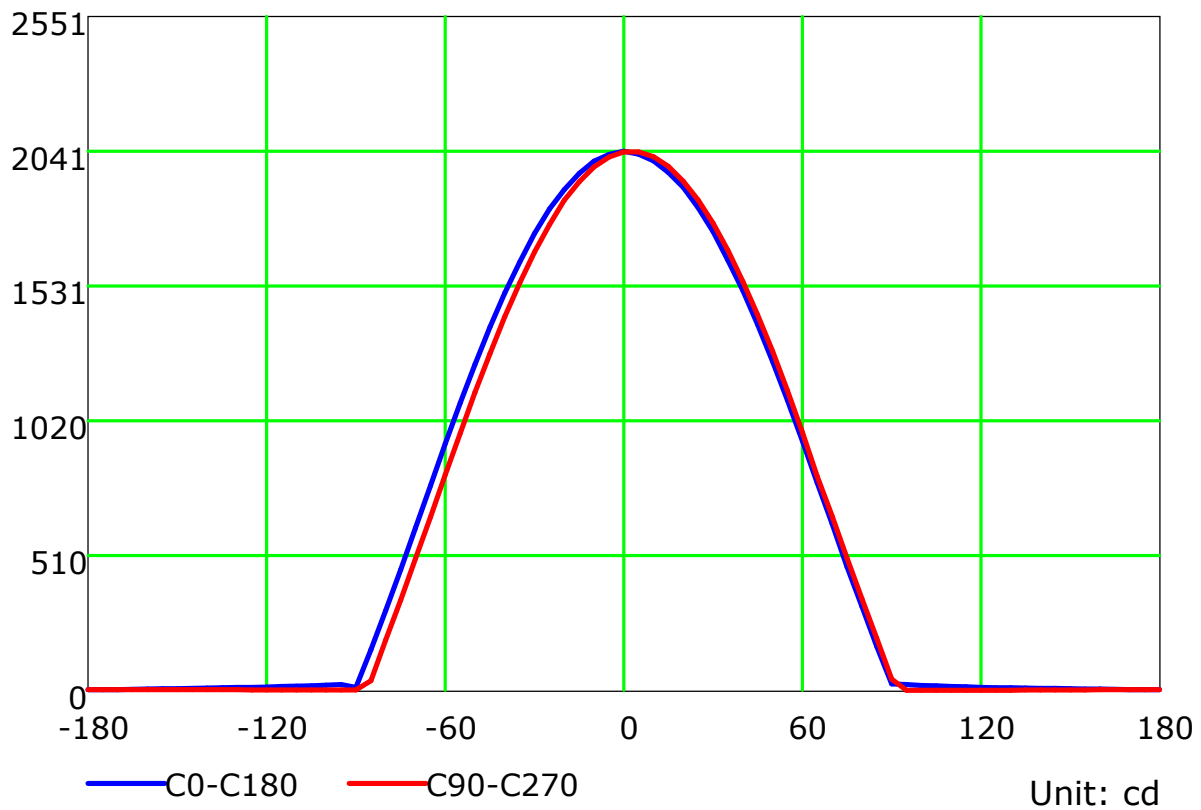
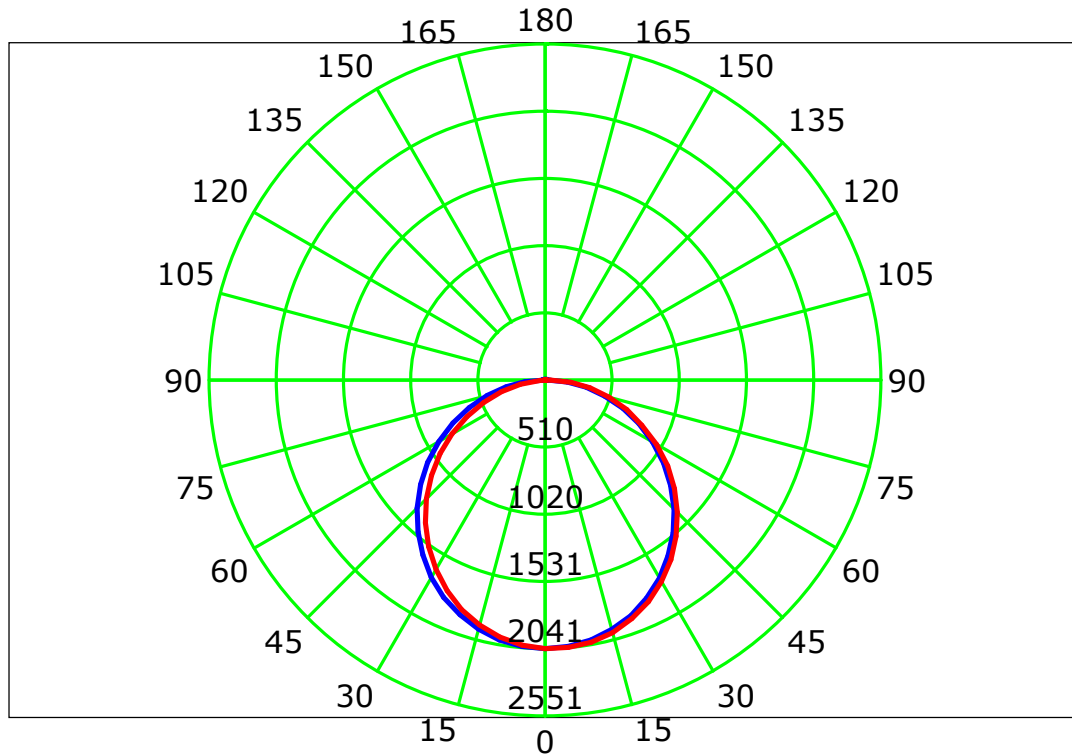
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



Unit: cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

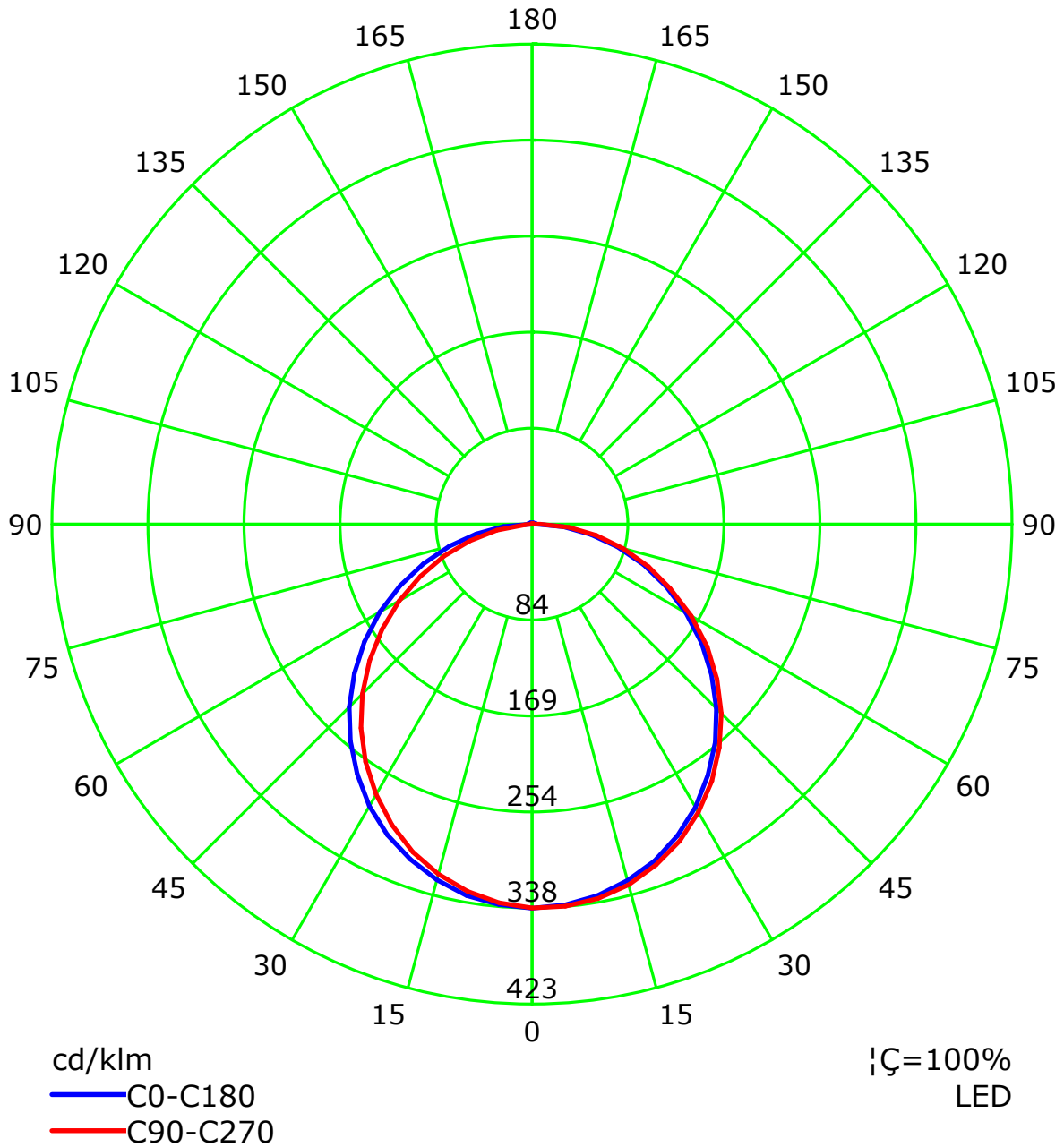
Test Device: LSG-1800B

Distance: 12.654 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 (°):0.0-180.0:5.0

Test Device: LSG-1800B

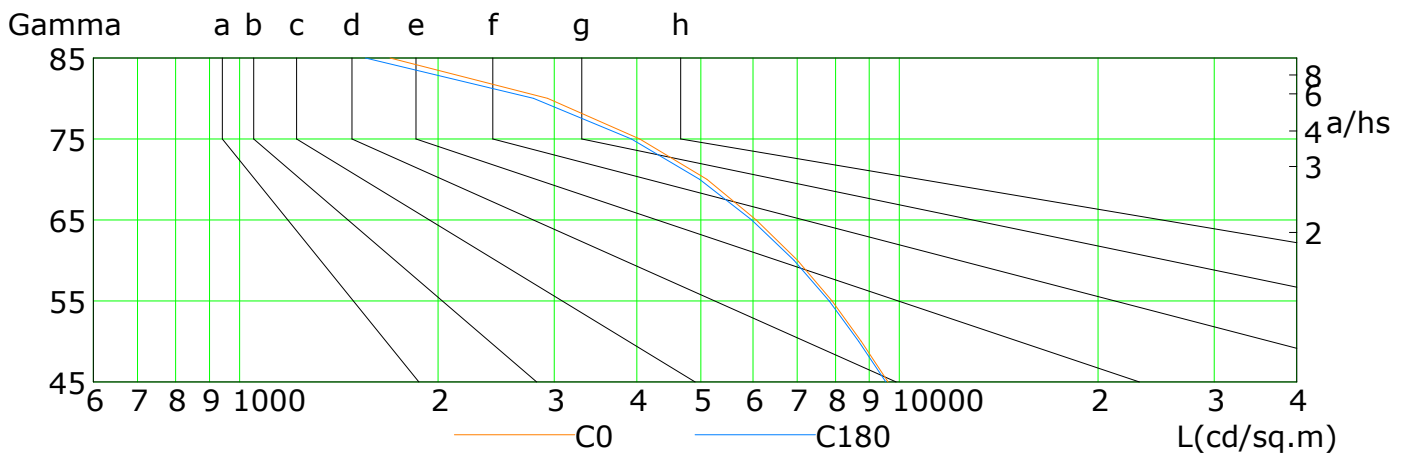
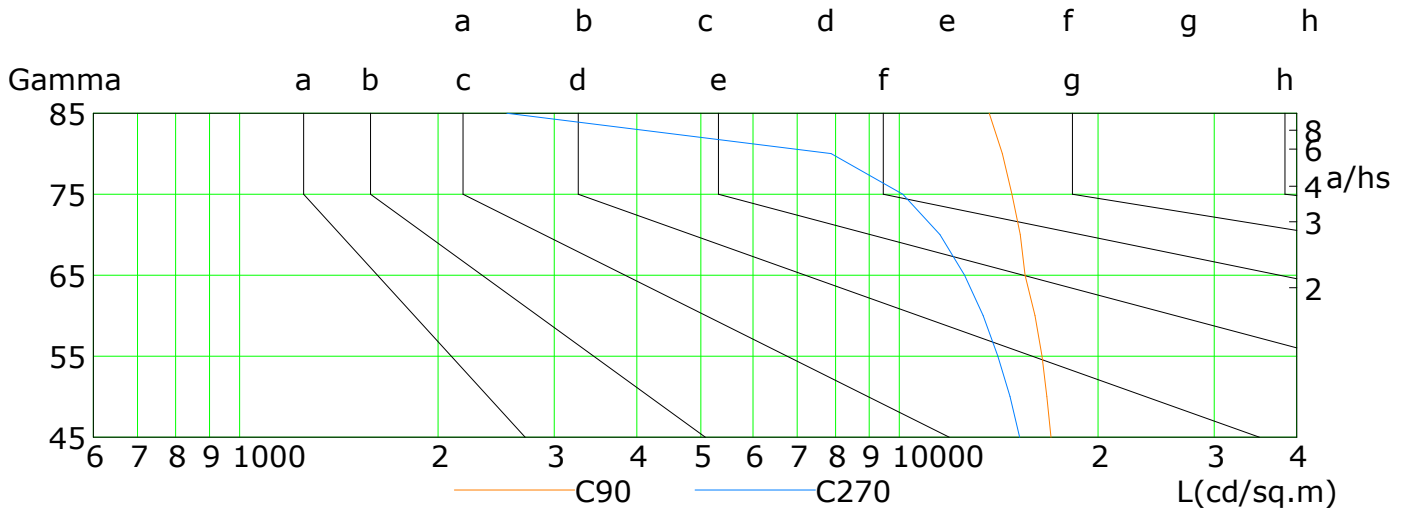
Distance: 12.654 m

Humidity:

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 |



| L(cd/sq.m) | G45 | G50 | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C0 | 9609 | 8754 | 7910 | 7006 | 6065 | 5106 | 4038 | 2930 | 1691 |
| C90 | 16966 | 16731 | 16447 | 16044 | 15508 | 15240 | 14809 | 14319 | 13679 |
| C180 | 9540 | 8678 | 7831 | 6923 | 5972 | 4978 | 3925 | 2788 | 1551 |
| C270 | 15220 | 14706 | 14096 | 13401 | 12556 | 11515 | 10116 | 7881 | 2542 |

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

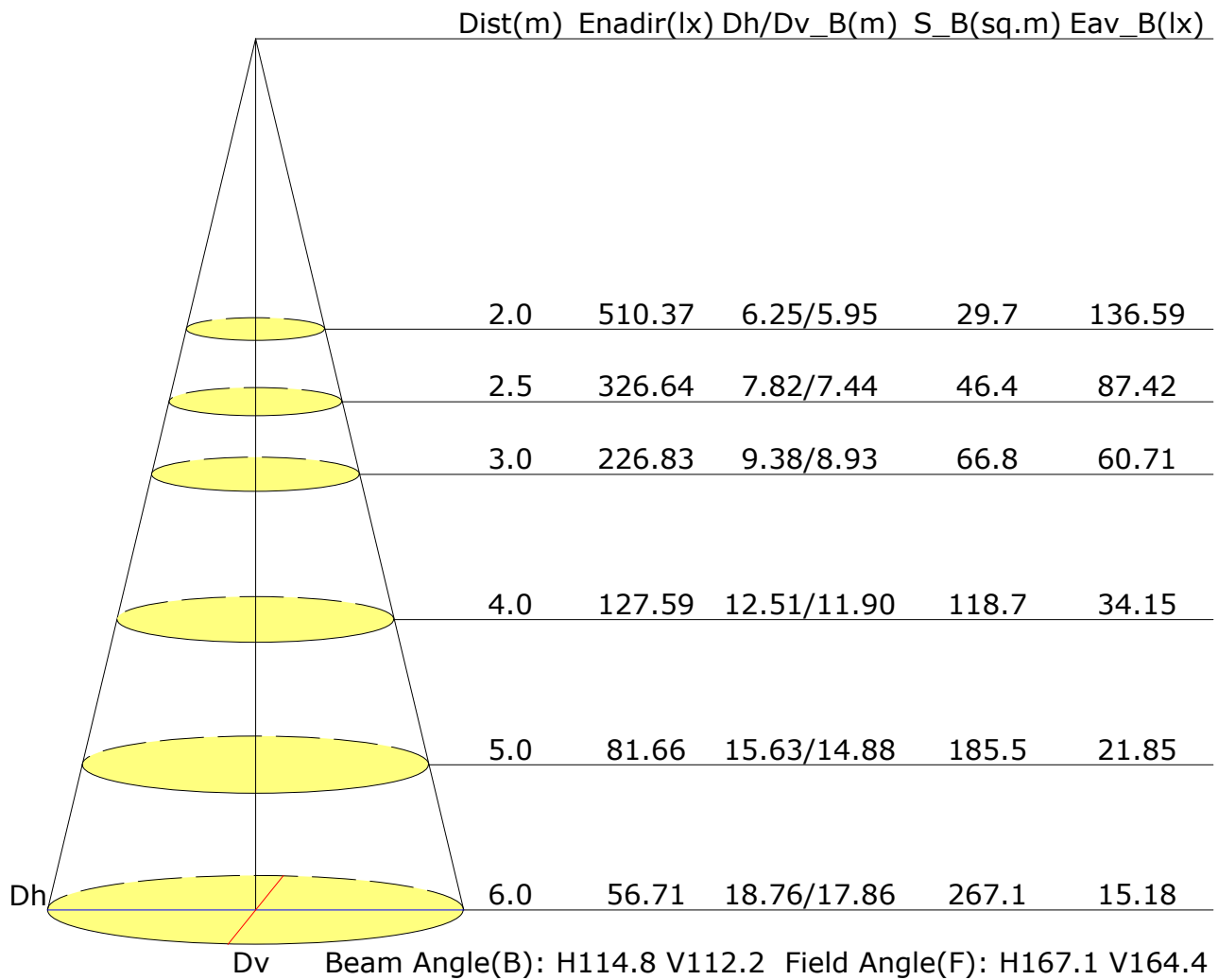
Test Device: LSG-1800B

Distance: 12.654 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 (°):0.0-180.0:5.0

Test Device: LSG-1800B

Distance: 12.654 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 | 19.8 | 21.3 | 20.2 | 21.5 | 21.8 | 21.1 | 22.5 | 21.4 | 22.8 | 23.0 |
| 3H | 21.1 | 22.4 | 21.5 | 22.7 | 23.0 | 22.7 | 24.0 | 23.0 | 24.3 | 24.6 |
| 4H | 21.6 | 22.8 | 22.0 | 23.1 | 23.4 | 23.4 | 24.6 | 23.7 | 24.9 | 25.2 |
| 6H | 21.9 | 23.0 | 22.3 | 23.4 | 23.7 | 23.9 | 25.0 | 24.3 | 25.3 | 25.7 |
| 8H | 22.0 | 23.1 | 22.4 | 23.4 | 23.8 | 24.1 | 25.2 | 24.5 | 25.5 | 25.9 |
| 12H | 22.1 | 23.1 | 22.5 | 23.5 | 23.8 | 24.2 | 25.3 | 24.6 | 25.6 | 26.0 |
| X=4H Y=2H | 20.5 | 21.7 | 20.9 | 22.0 | 22.3 | 21.5 | 22.7 | 21.9 | 23.0 | 23.3 |
| 3H | 21.9 | 23.0 | 22.3 | 23.3 | 23.7 | 23.3 | 24.3 | 23.7 | 24.6 | 25.0 |
| 4H | 22.5 | 23.5 | 23.0 | 23.8 | 24.2 | 24.0 | 25.0 | 24.5 | 25.3 | 25.7 |
| 6H | 23.0 | 23.8 | 23.4 | 24.2 | 24.6 | 24.7 | 25.5 | 25.1 | 25.9 | 26.3 |
| 8H | 23.1 | 23.9 | 23.5 | 24.3 | 24.7 | 24.9 | 25.7 | 25.4 | 26.1 | 26.5 |
| 12H | 23.2 | 23.9 | 23.6 | 24.3 | 24.8 | 25.1 | 25.8 | 25.6 | 26.2 | 26.7 |
| X=8H Y=4H | 22.8 | 23.6 | 23.3 | 24.0 | 24.4 | 24.2 | 24.9 | 24.6 | 25.4 | 25.8 |
| 6H | 23.4 | 24.0 | 23.8 | 24.4 | 24.9 | 24.9 | 25.5 | 25.4 | 26.0 | 26.5 |
| 8H | 23.6 | 24.1 | 24.1 | 24.6 | 25.1 | 25.2 | 25.8 | 25.7 | 26.2 | 26.7 |
| 12H | 23.7 | 24.2 | 24.2 | 24.7 | 25.2 | 25.5 | 25.9 | 26.0 | 26.4 | 26.9 |
| X=12H Y=4H | 22.8 | 23.5 | 23.3 | 24.0 | 24.4 | 24.2 | 24.9 | 24.6 | 25.3 | 25.8 |
| 6H | 23.4 | 24.0 | 23.9 | 24.4 | 24.9 | 24.9 | 25.5 | 25.4 | 26.0 | 26.5 |
| 8H | 23.6 | 24.1 | 24.2 | 24.6 | 25.1 | 25.3 | 25.7 | 25.8 | 26.2 | 26.7 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S=1.0H | +0.2/-0.2 | | | | | +0.2/-0.2 | | | | |
| S=1.5H | +0.3/-0.6 | | | | | +0.4/-0.5 | | | | |
| S=2.0H | +0.6/-1.1 | | | | | +0.6/-0.8 | | | | |

Calculate in accordance with CIE Pub.117. The table is revised with 6026lm ($8\log(F/F_0) = 6.2$).

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