

Report No.: 1

Test Time: 08.05.2018 15:08

## Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 595 4x40LED 0,35A 44W Refond 32-34,5Lm 5000K

Lamp Description: LED

Luminous Width (mm): 595

Voltage: 231.1 V

Power: 43.5 W

Luminous Length (mm): 595

Luminous Height (mm): 35

Current: 0.194 A

Power Factor: 0.980

## Photometric Results

CIE Class: Direct

Measurement Flux: 5909 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.4, 163.3, 155.6, 155.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 80.2, 81.3, 79.2, 78.3

Luminaire Efficacy Rating (LER): 135.89

Max. Intensity: 2890.69 cd

S/MH(C0/C180): 1.15

Total Rated Lamp Lumens: 5909.0 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 2890.69 cd

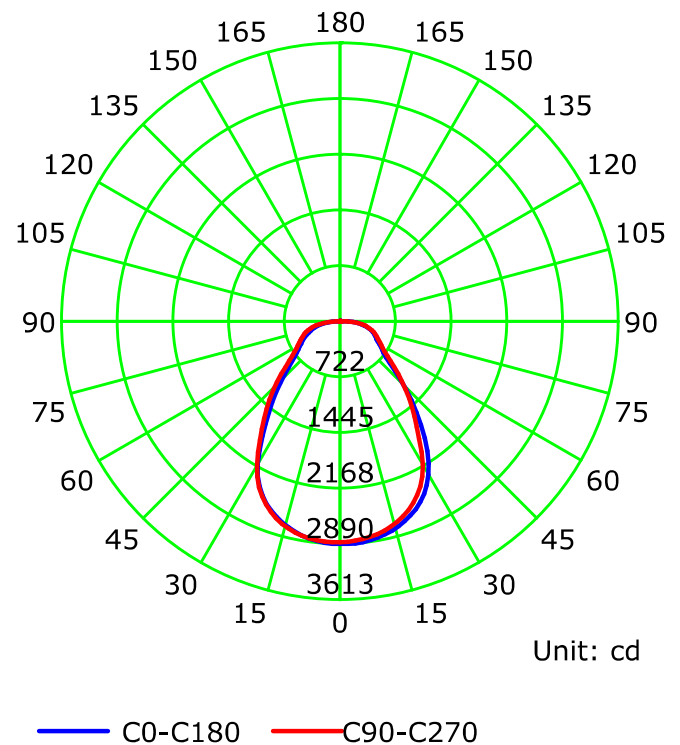
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.14

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

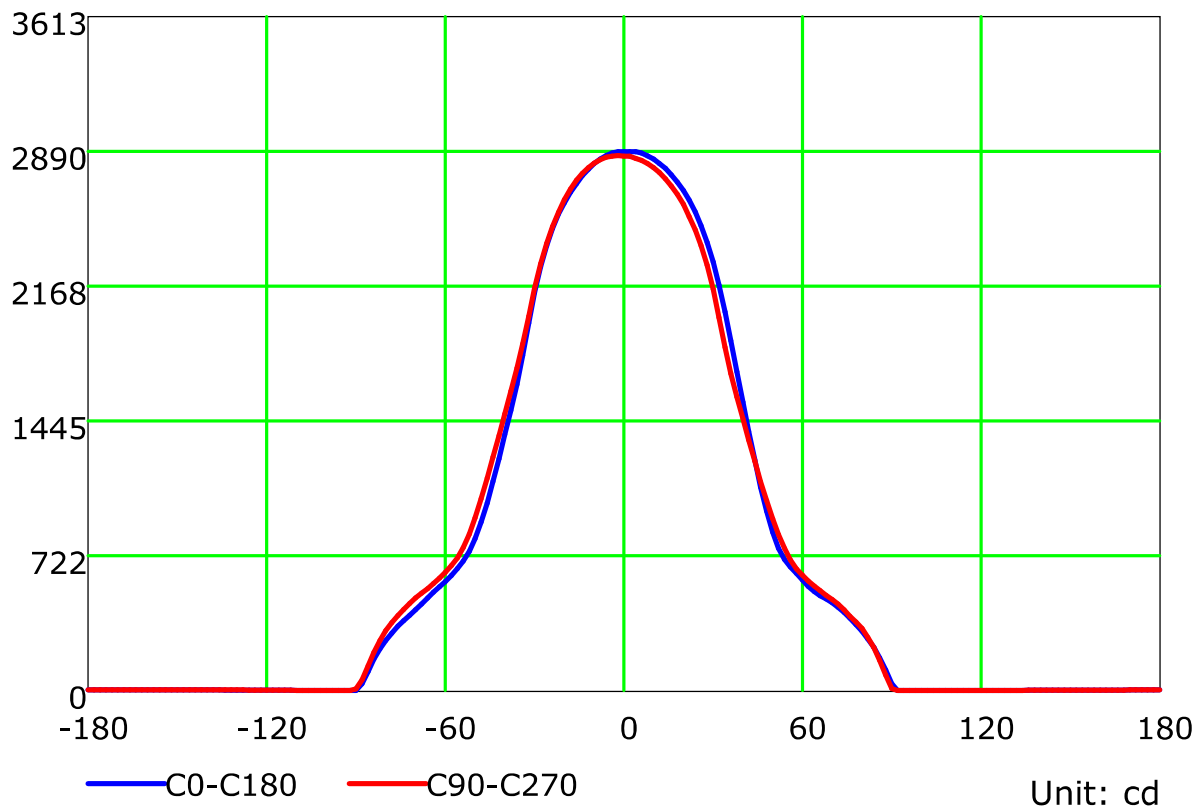
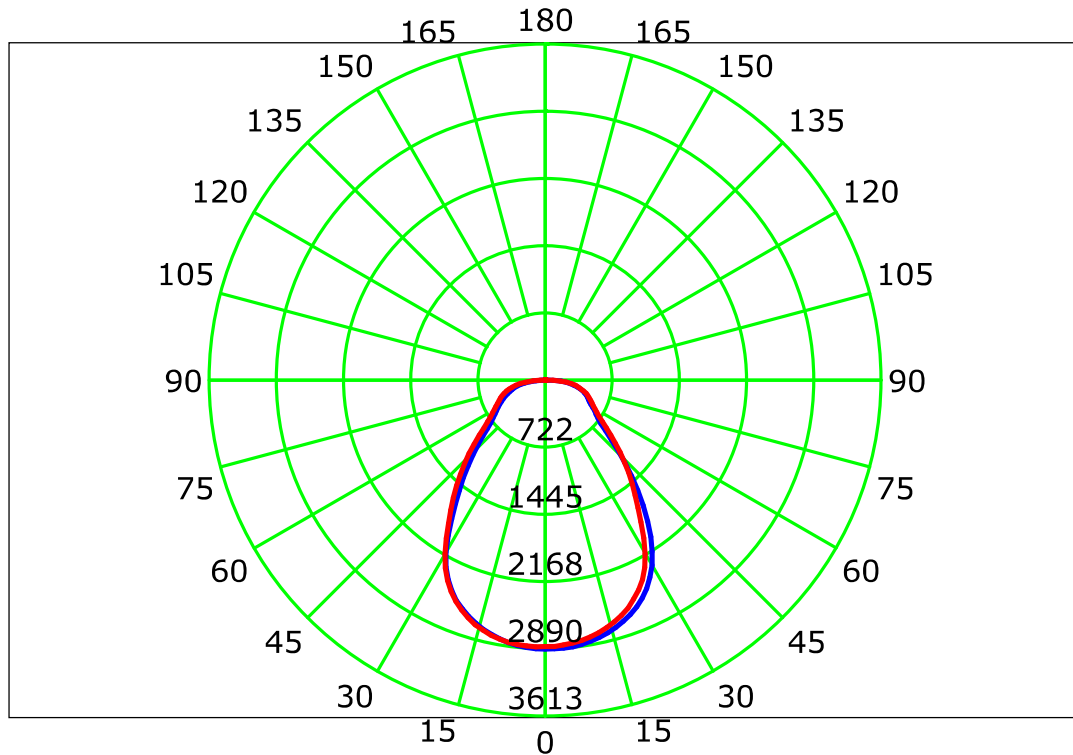
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

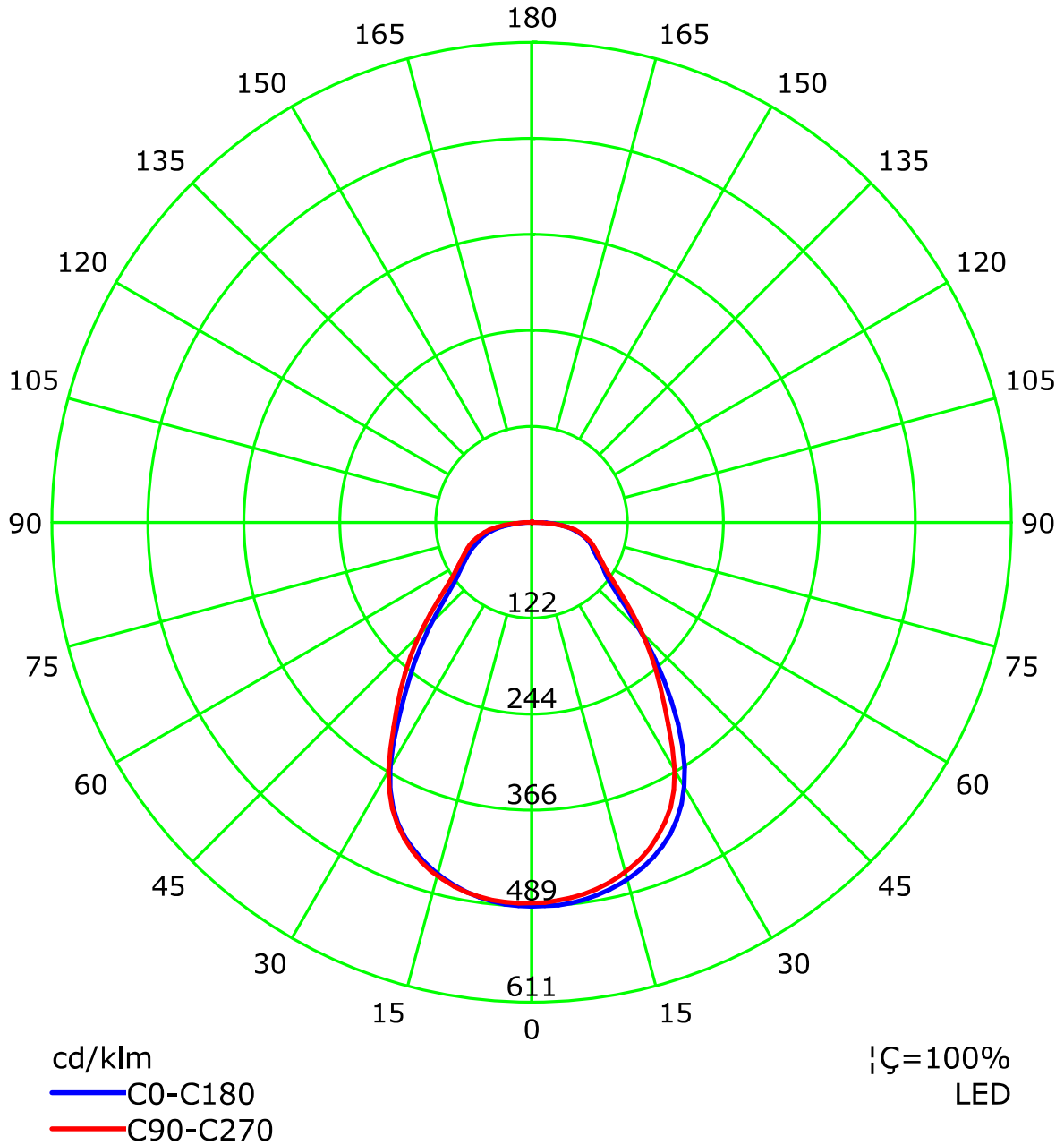
Test Device: LSG-1800B

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 (°):0.0-180.0:2.0

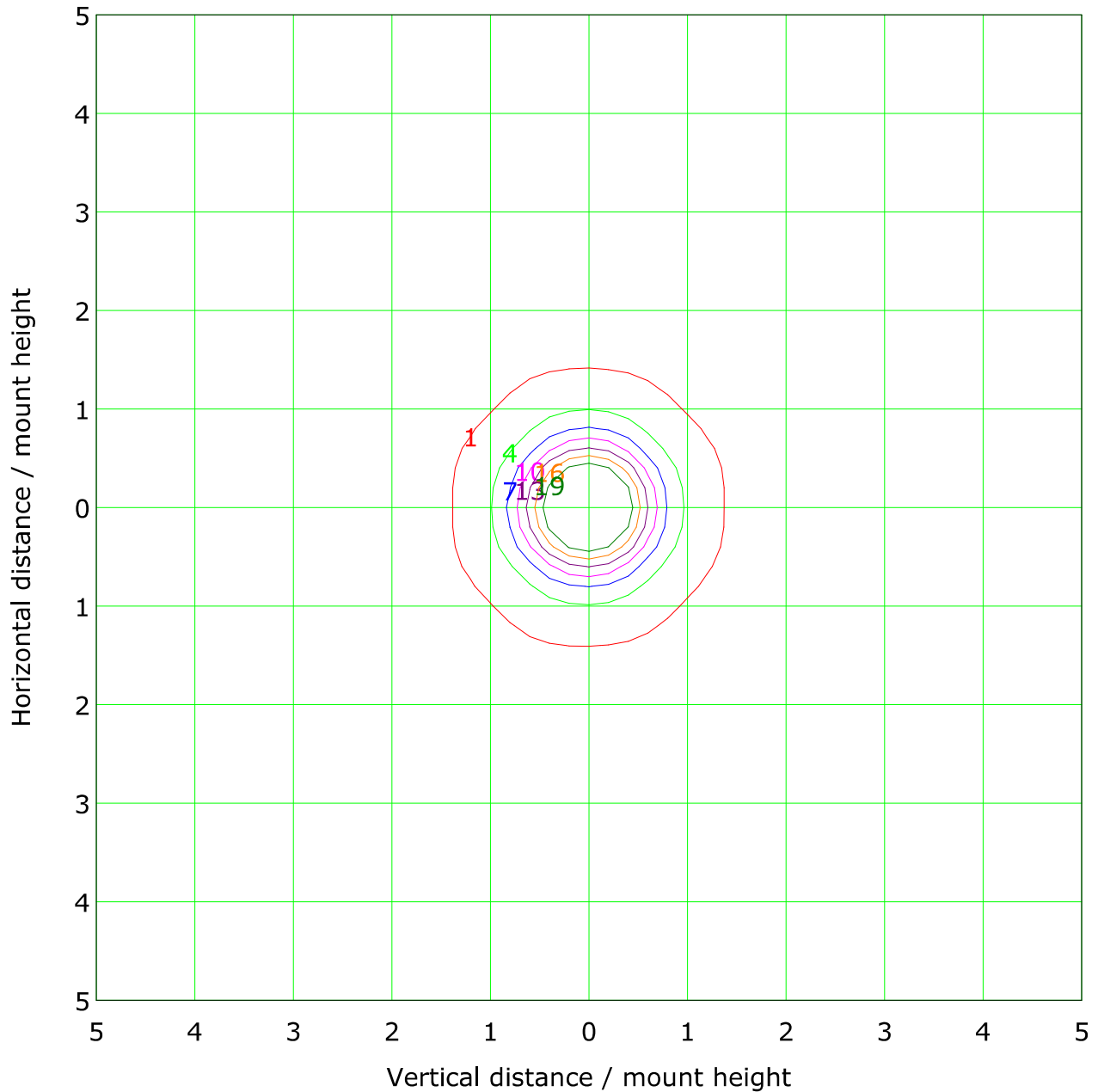
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## IsoLux Plot



|                        |         |                        |         |
|------------------------|---------|------------------------|---------|
| Mounting Height: 10.0m |         | Max Lux(100%): 28.9 lx |         |
| ( 5%):                 | 1.4 lx  | ( 15%):                | 4.3 lx  |
| ( 25%):                | 7.2 lx  | ( 35%):                | 10.1 lx |
| ( 45%):                | 13.0 lx | ( 55%):                | 15.9 lx |
| ( 65%):                | 18.8 lx |                        |         |

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.654 m

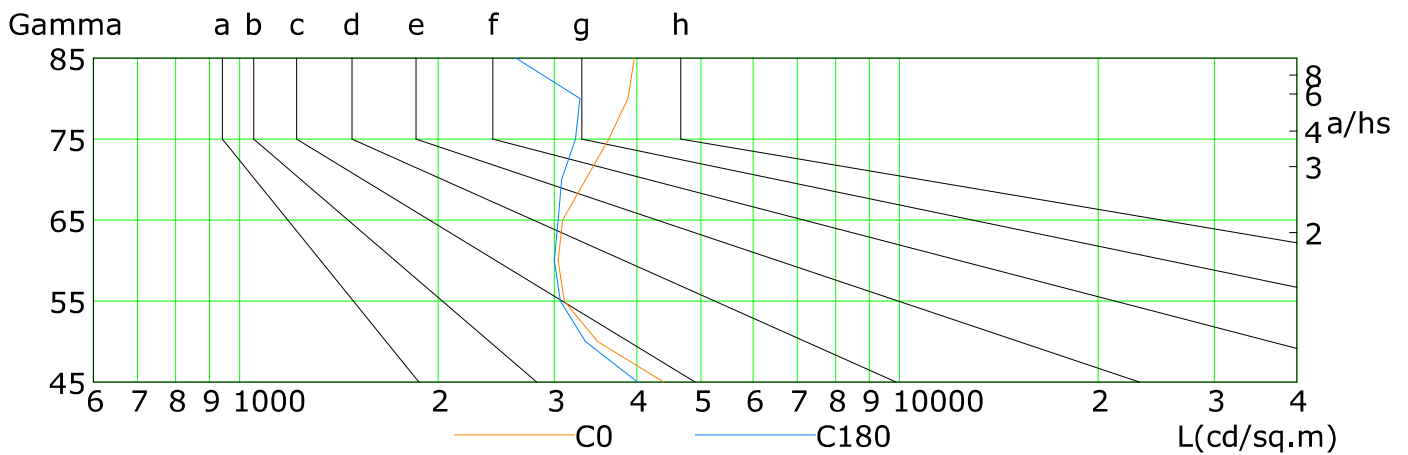
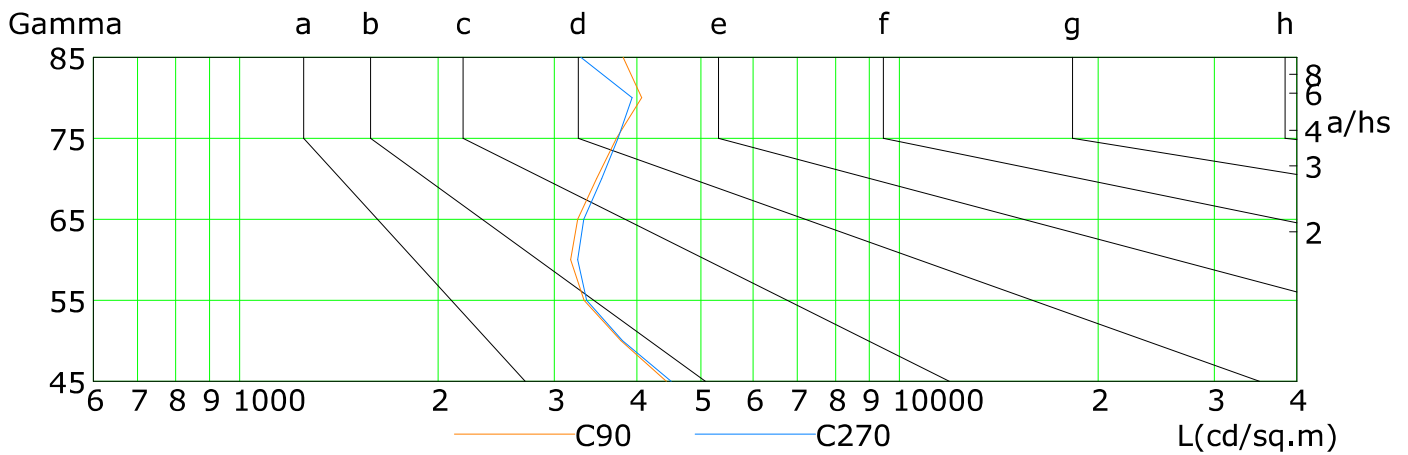
Humidity:

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 |

a b c d e f g h



| L(cd/sq.m) | G45  | G50  | G55  | G60  | G65  | G70  | G75  | G80  | G85  |
|------------|------|------|------|------|------|------|------|------|------|
| C0         | 4394 | 3487 | 3103 | 3040 | 3087 | 3347 | 3624 | 3875 | 3962 |
| C90        | 4434 | 3782 | 3327 | 3174 | 3254 | 3474 | 3725 | 4069 | 3811 |
| C180       | 4011 | 3343 | 3064 | 2998 | 3040 | 3078 | 3226 | 3279 | 2623 |
| C270       | 4509 | 3802 | 3356 | 3253 | 3322 | 3538 | 3745 | 3934 | 3290 |

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

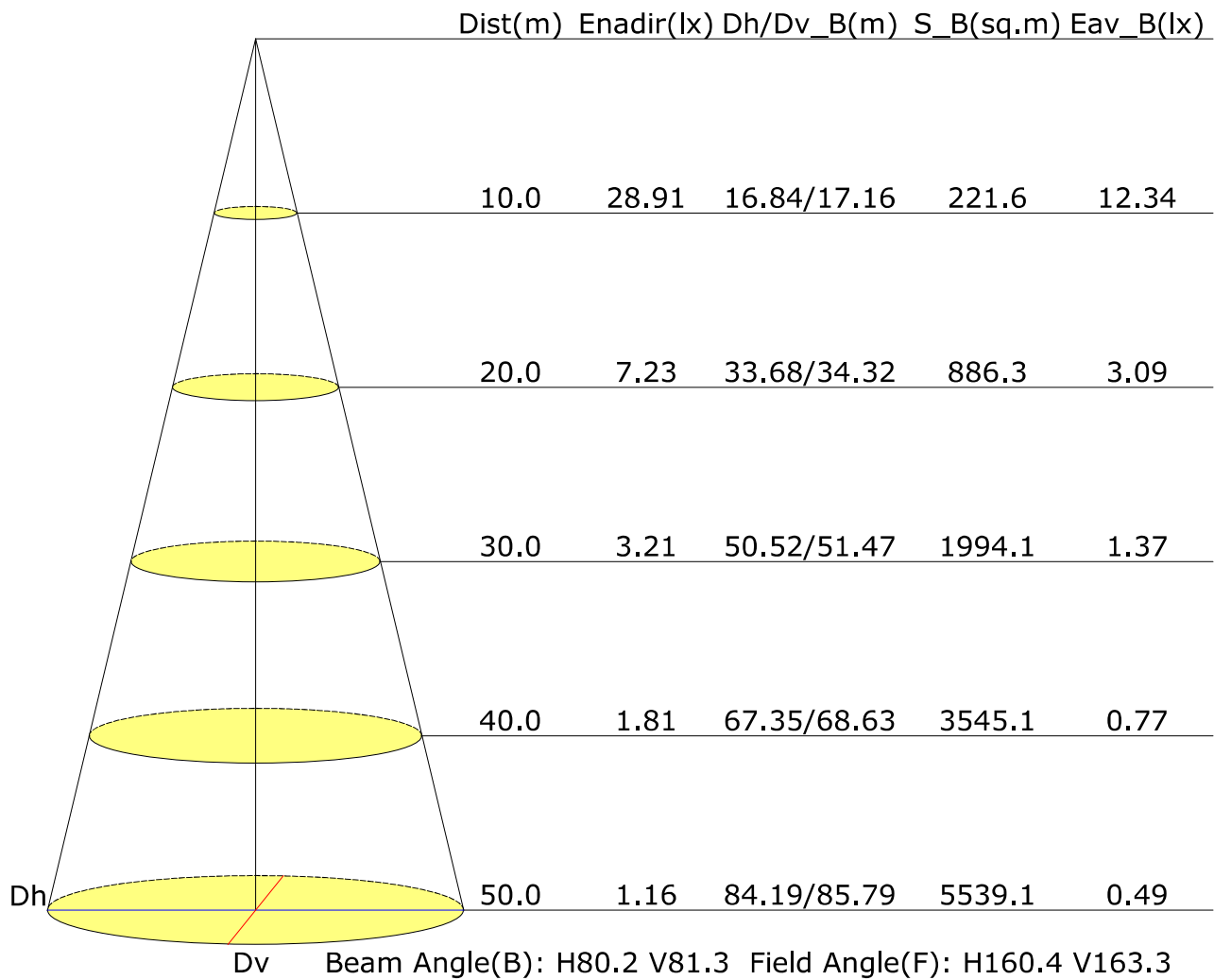
Test Device: LSG-1800B

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 (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector: