

Report No.: 2

Test Time: 14.03.2018 15:03

## Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FD 111 245LED 160W 5000K 90 Degrees lense

Lamp Description: LED

Diameter (mm): 325

Luminous Width (mm): 204

Voltage: 231.5 V

Current: 0.708 A

Power: 159.50 W

Power Factor: 0.972

## Photometric Results

CIE Class: Direct

Measurement Flux: 19222.7 lm

Total Rated Lamp Lumens: 19222.7 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 136.5, 136.8, 128.7, 127.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 84.4, 84.5, 84.8, 83.9

Luminaire Efficacy Rating (LER): 120.57

Central Intensity: 8081.3 cd

Max. Intensity: 10060.3 cd

Pos of Max. Intensity: H157.5 V28

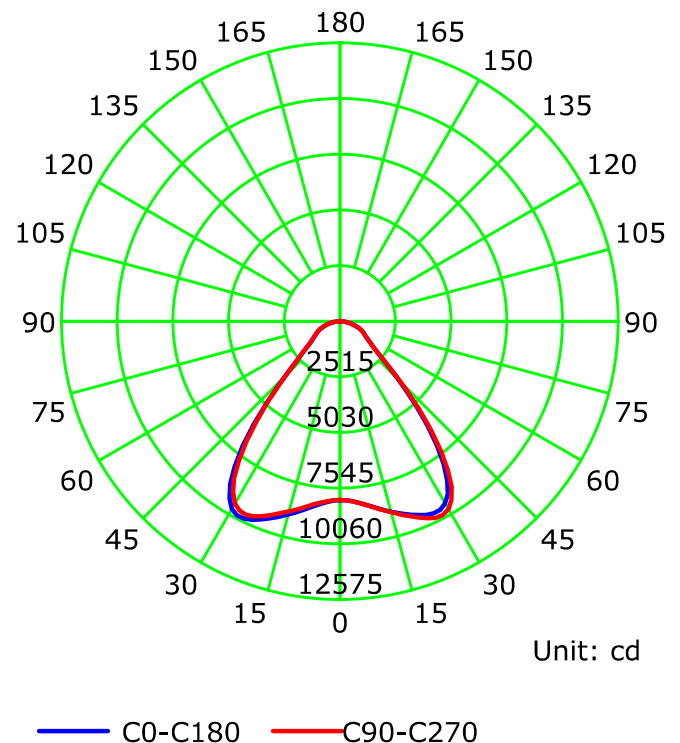
S/MH(C0/C180): 1.48

S/MH(C90/C270): 1.48

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

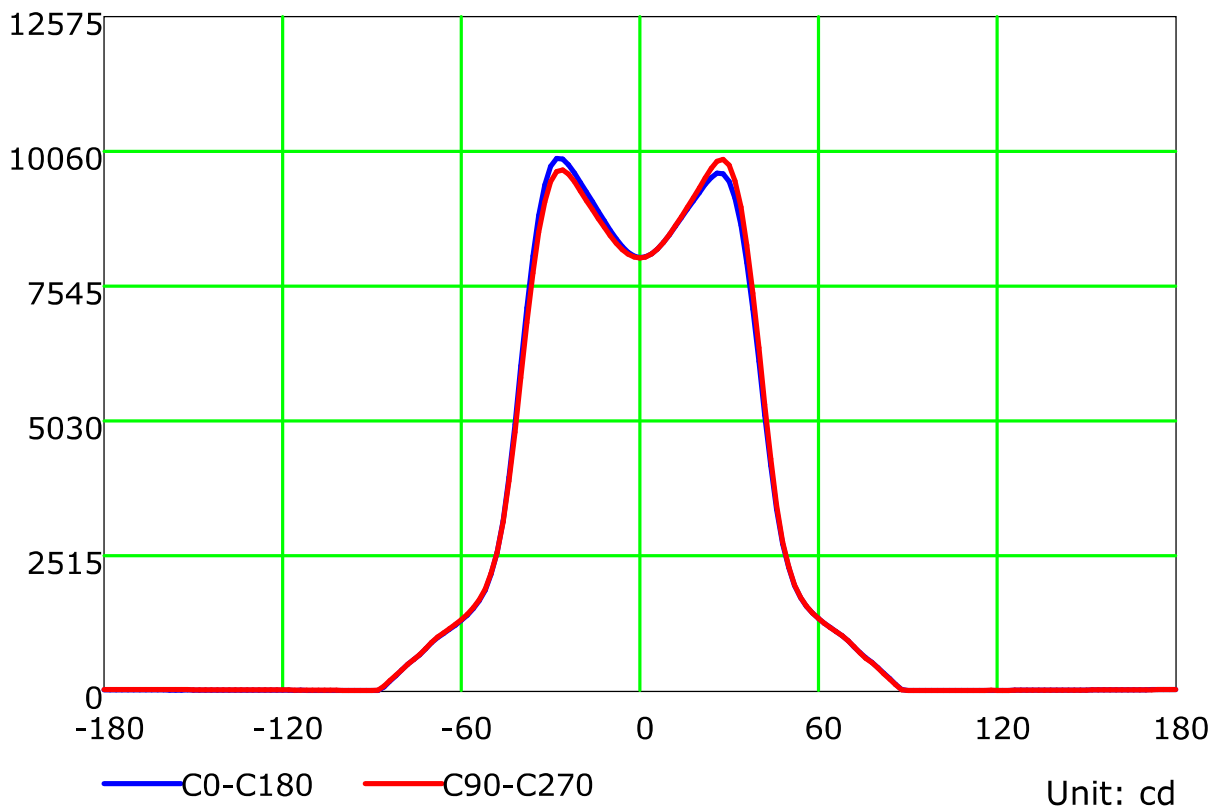
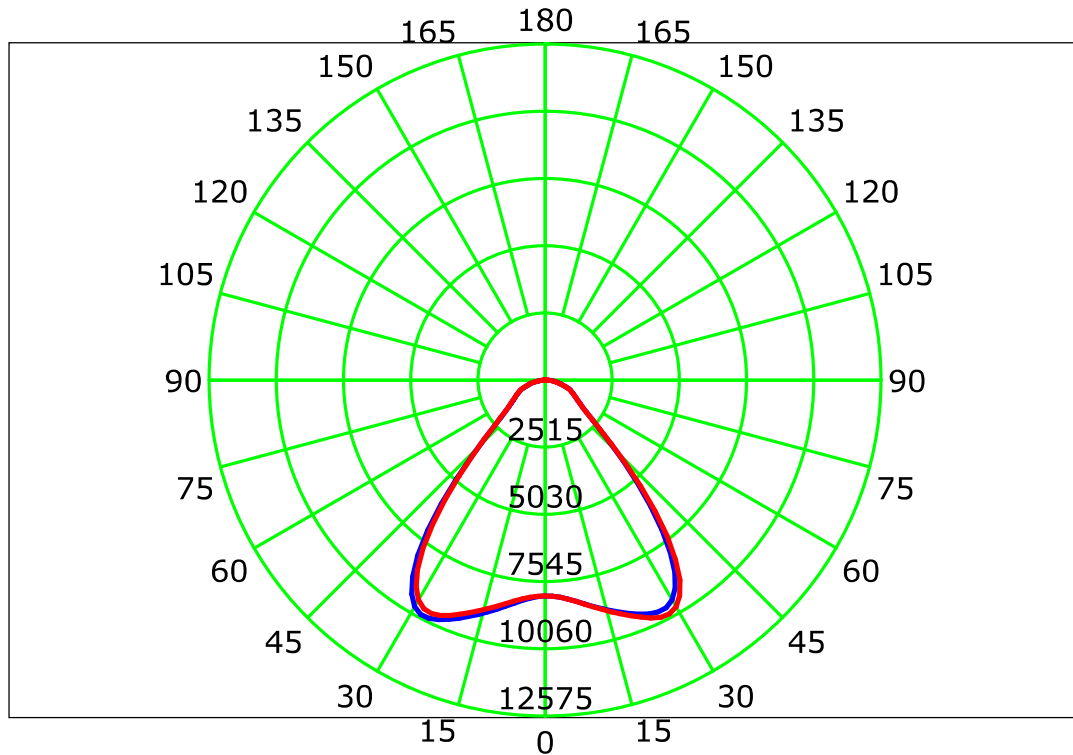
Test Device: LSG-1800B

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

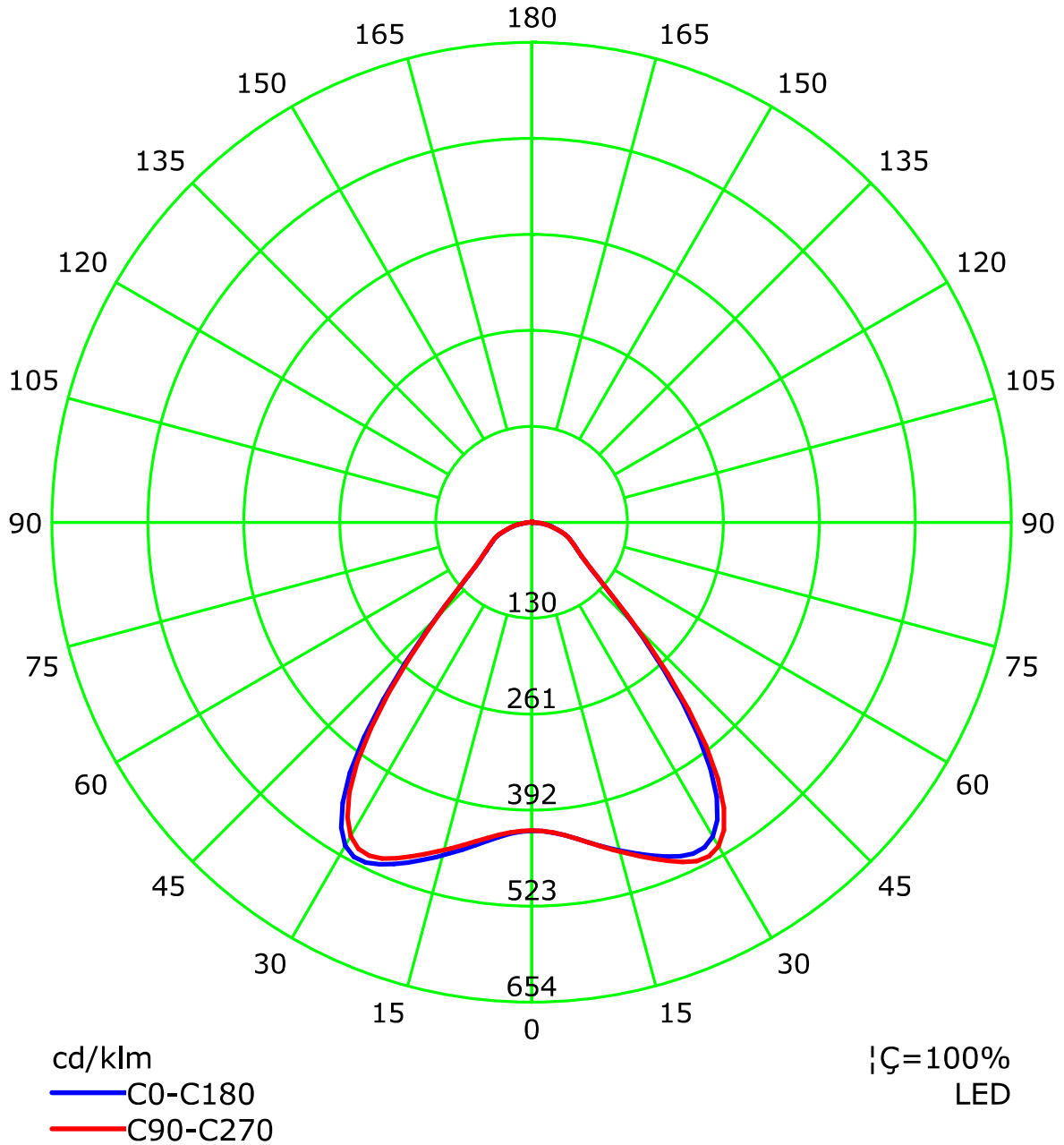
Test Device: LSG-1800B

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

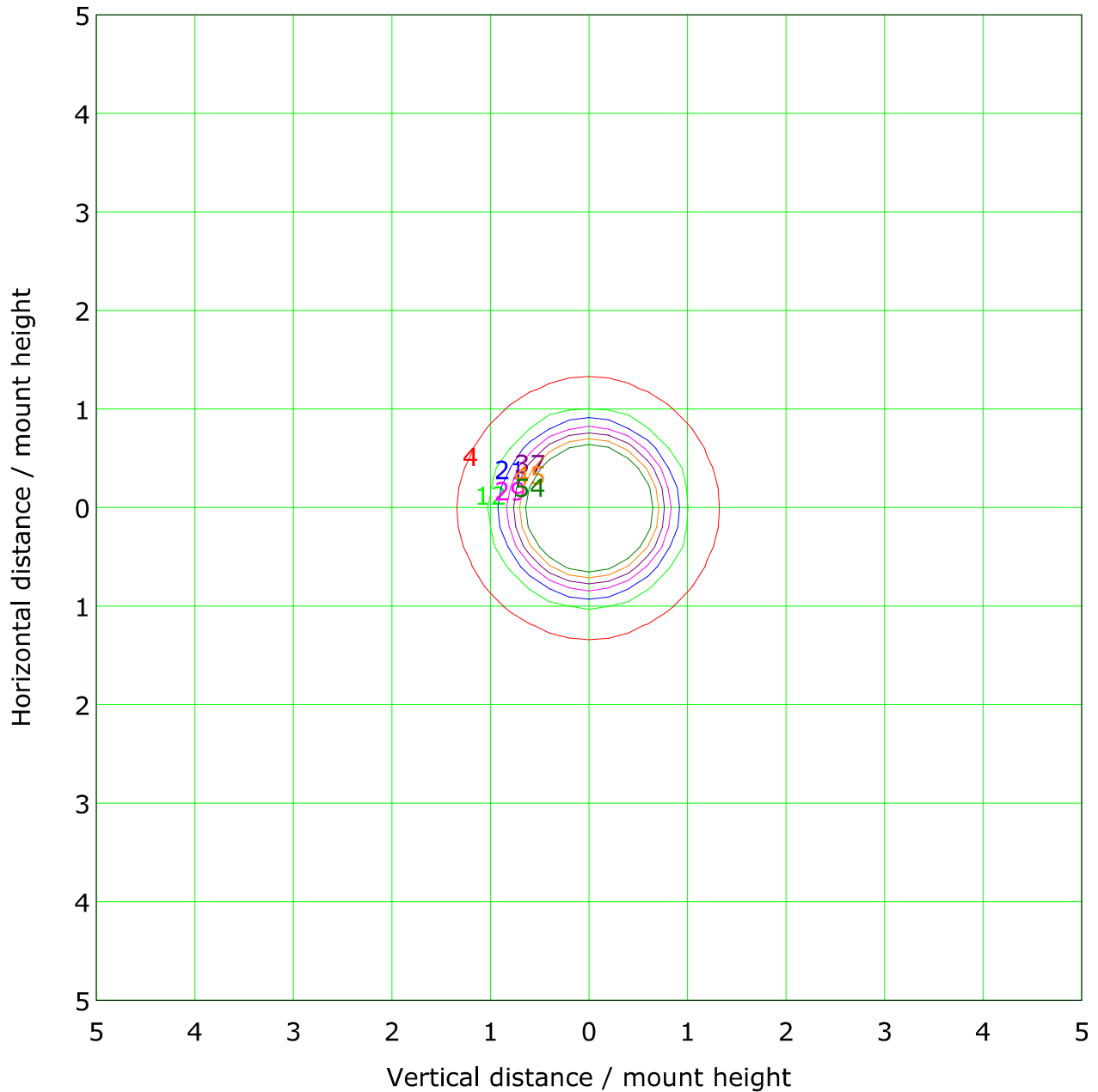
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## IsoLux Plot



|                                                  |                 |
|--------------------------------------------------|-----------------|
| Mounting Height: 10.0m    Max Lux(100%): 82.4 lx |                 |
| ( 5%): 4.1 lx                                    | ( 15%): 12.4 lx |
| ( 25%): 20.6 lx                                  | ( 35%): 28.8 lx |
| ( 45%): 37.1 lx                                  | ( 55%): 45.3 lx |
| ( 65%): 53.6 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

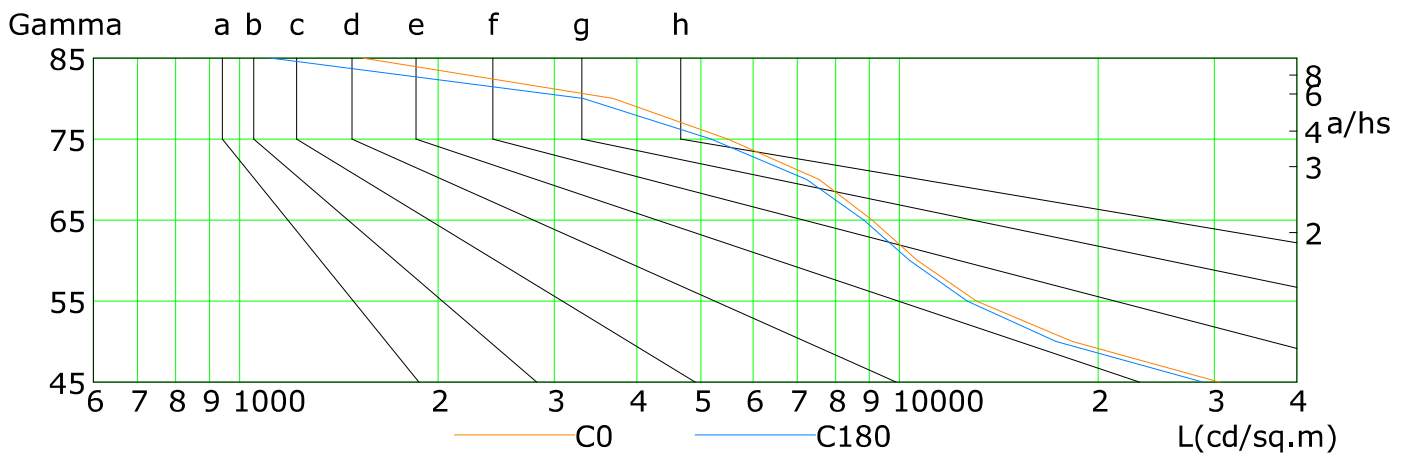
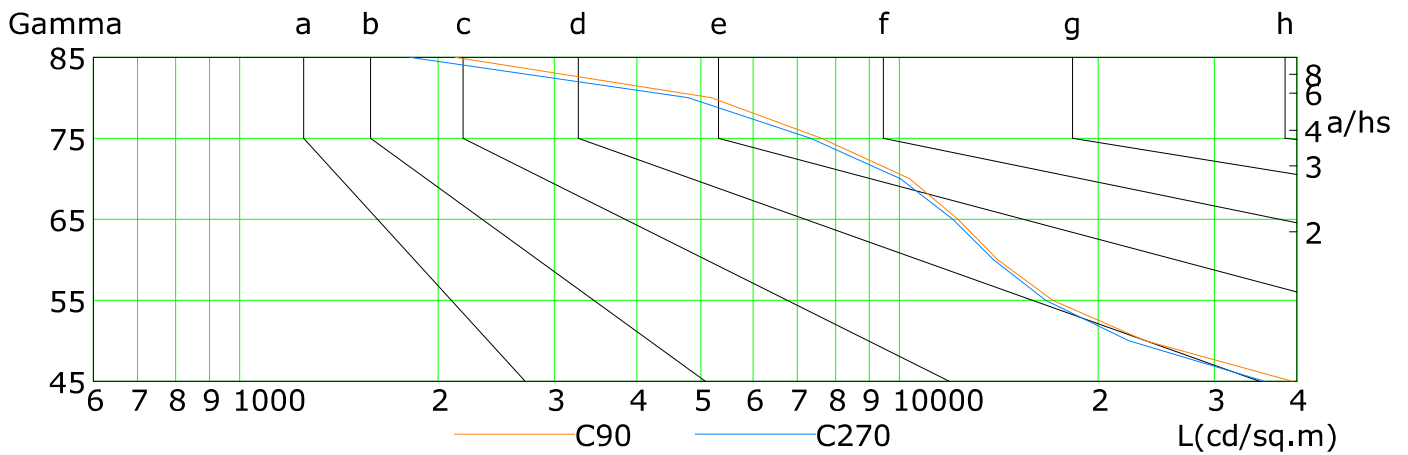
Humidity:

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         | 30537 | 18270 | 13077 | 10639 | 9094  | 7555  | 5492 | 3684 | 1538 |
| C90        | 39419 | 23537 | 17062 | 14090 | 12259 | 10356 | 7622 | 5185 | 2122 |
| C180       | 28835 | 17266 | 12670 | 10355 | 8828  | 7231  | 5185 | 3315 | 1115 |
| C270       | 35733 | 22239 | 16655 | 13884 | 12049 | 10025 | 7334 | 4782 | 1812 |

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

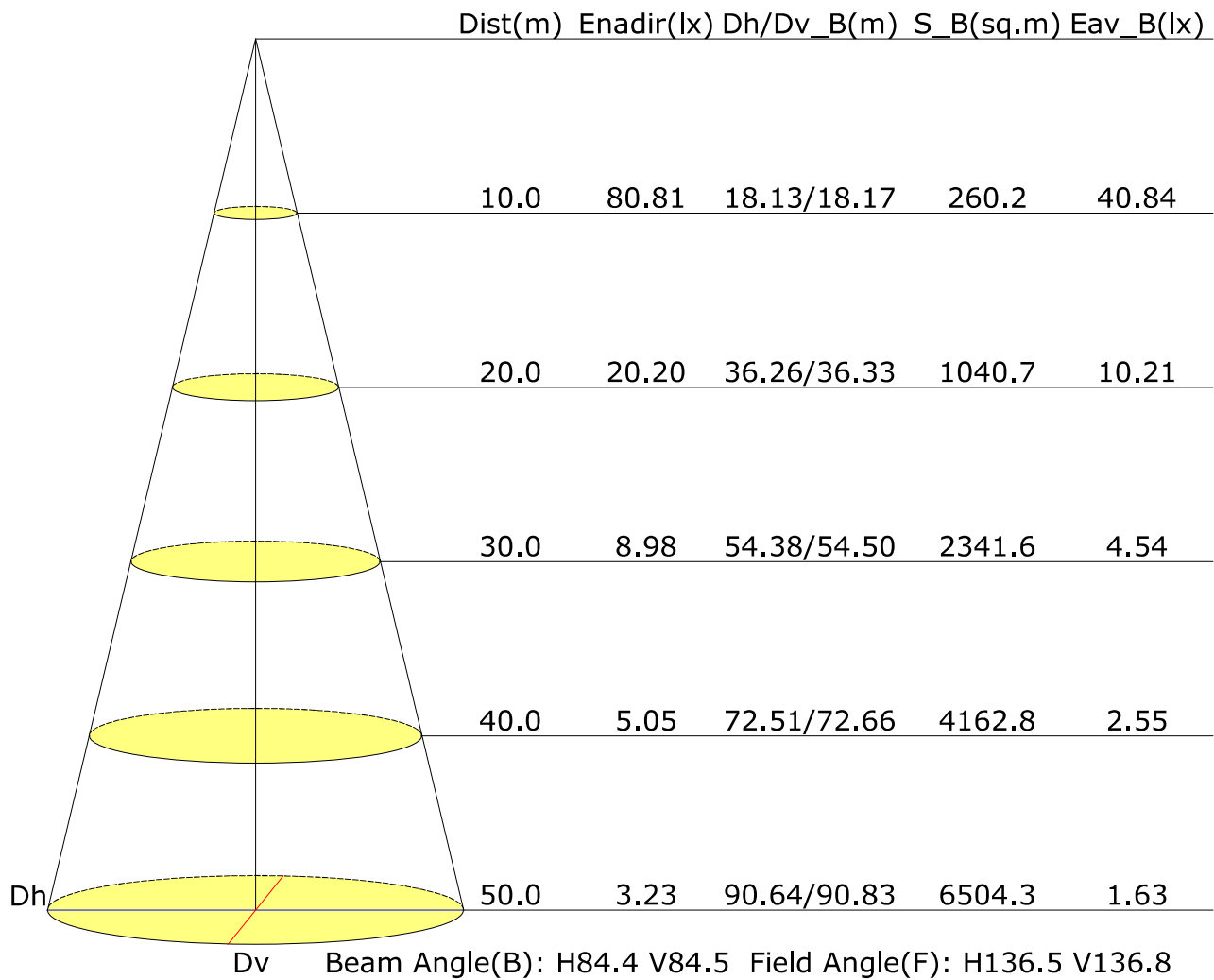
Test Device: LSG-1800B

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: