

Report No.: 1

Test Time: 01.03.2018 14:38

## Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FD 111 245LED 160W 5000K

Diameter: (mm): 325

Voltage: 231.4 V

Power: 159.55 W

Luminous Width (mm): 215

Current: 0.709 A

Power Factor: 0.972

## Photometric Results

CIE Class: Direct

Measurement Flux: 20311.6 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 154.9, 154.8, 154.9, 154.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.3, 114.2, 114.5, 114.2

Luminaire Efficacy Rating (LER): 127.36

Max. Intensity: 7144.38 cd

S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 20311.6 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 7135.87 cd

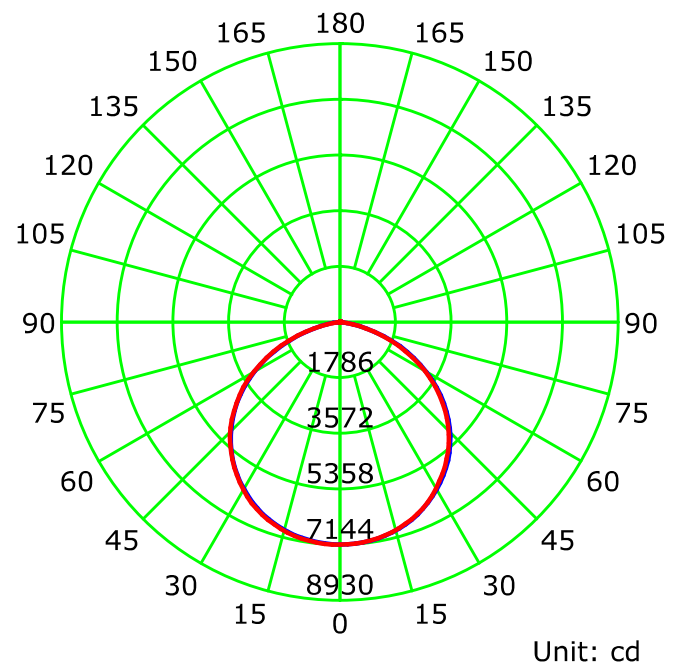
Pos of Max. Intensity: H157.5 V0

S/MH(C90/C270): 1.28

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 (°):0.0-180.0:2.0

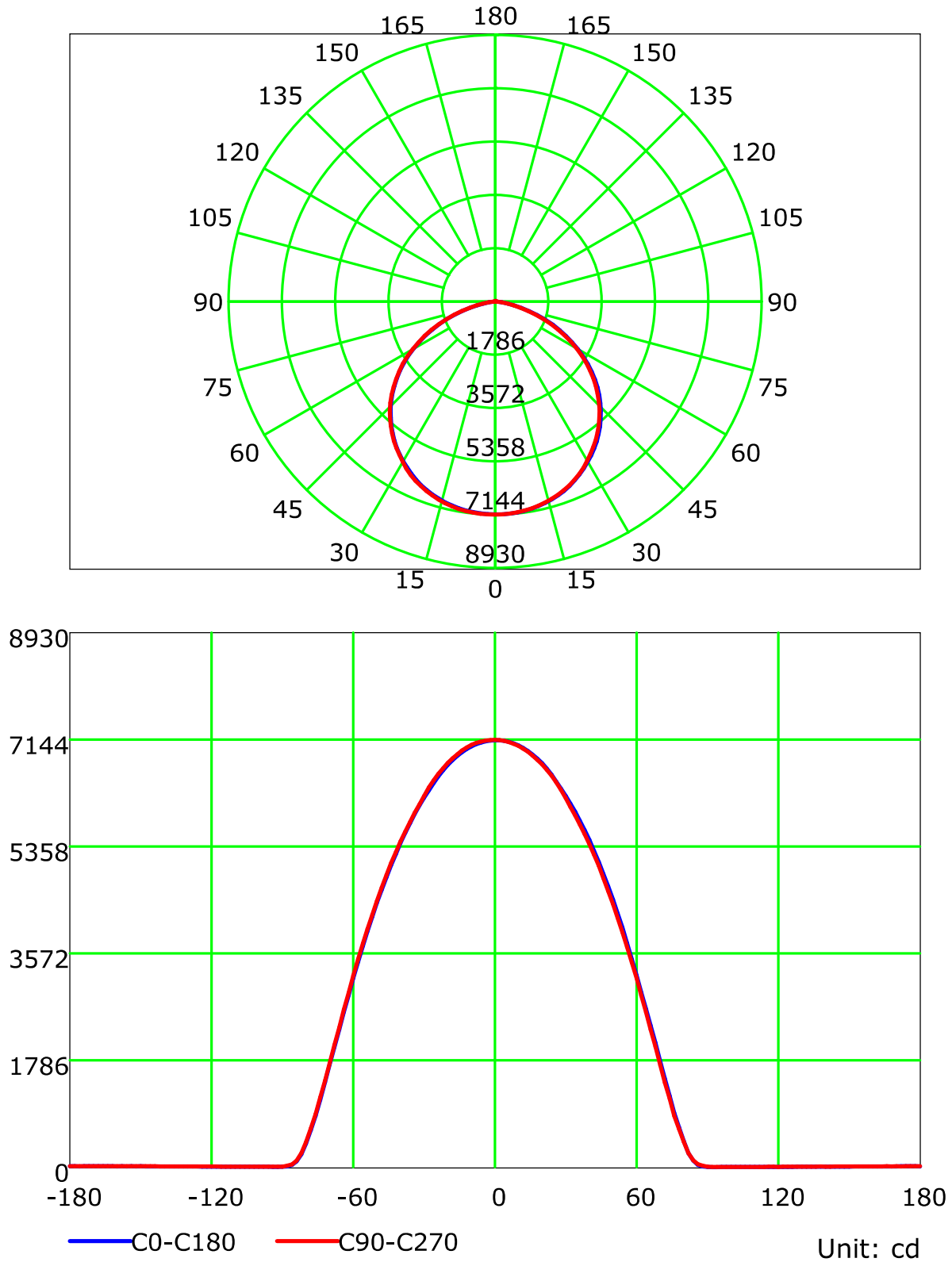
Test Device: LSG-1800B

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

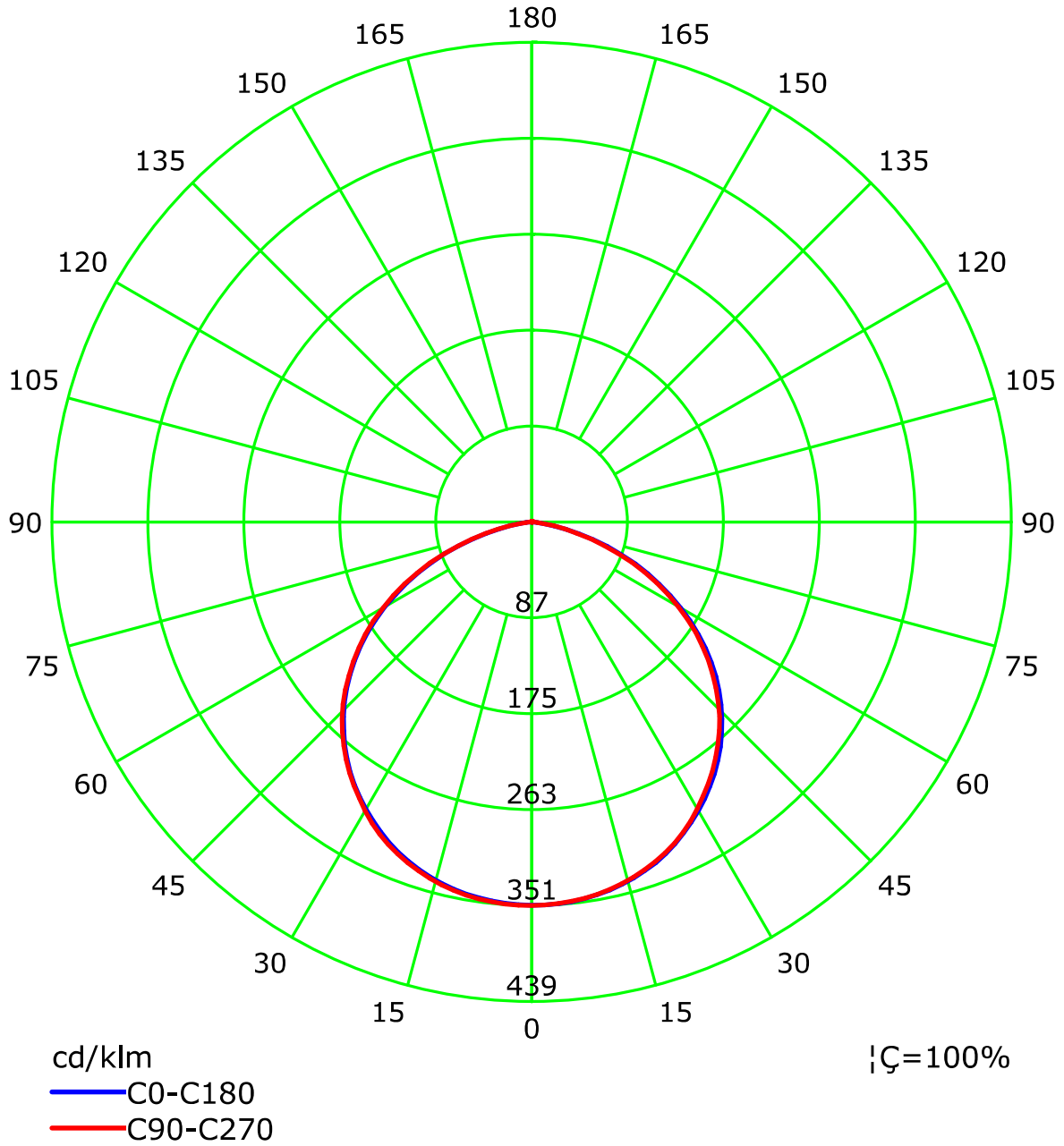
Test Device: LSG-1800B

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

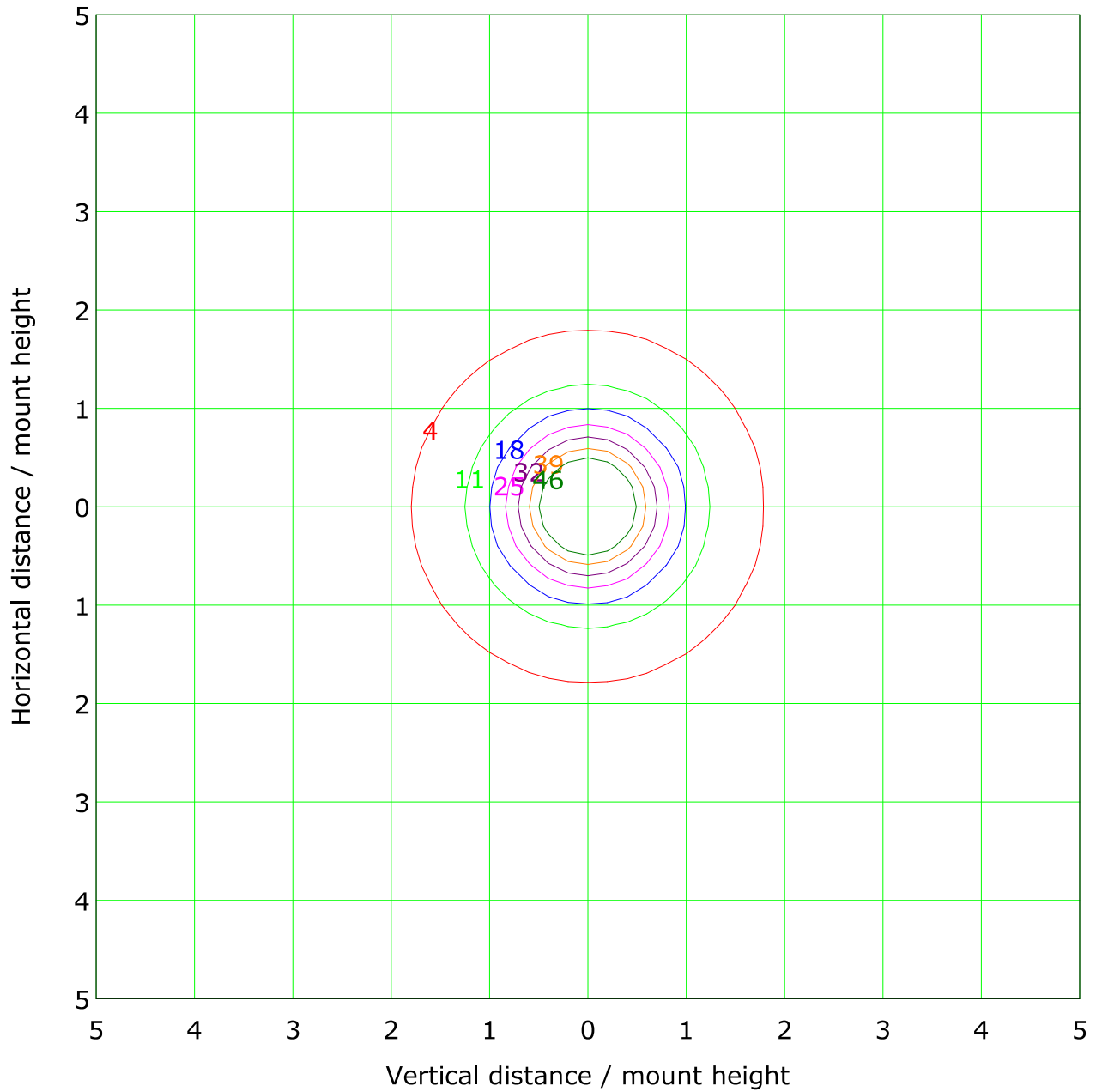
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 71.4 lx	
( 5%): 3.6 lx	( 15%): 10.7 lx
( 25%): 17.9 lx	( 35%): 25.0 lx
( 45%): 32.1 lx	( 55%): 39.3 lx
( 65%): 46.4 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

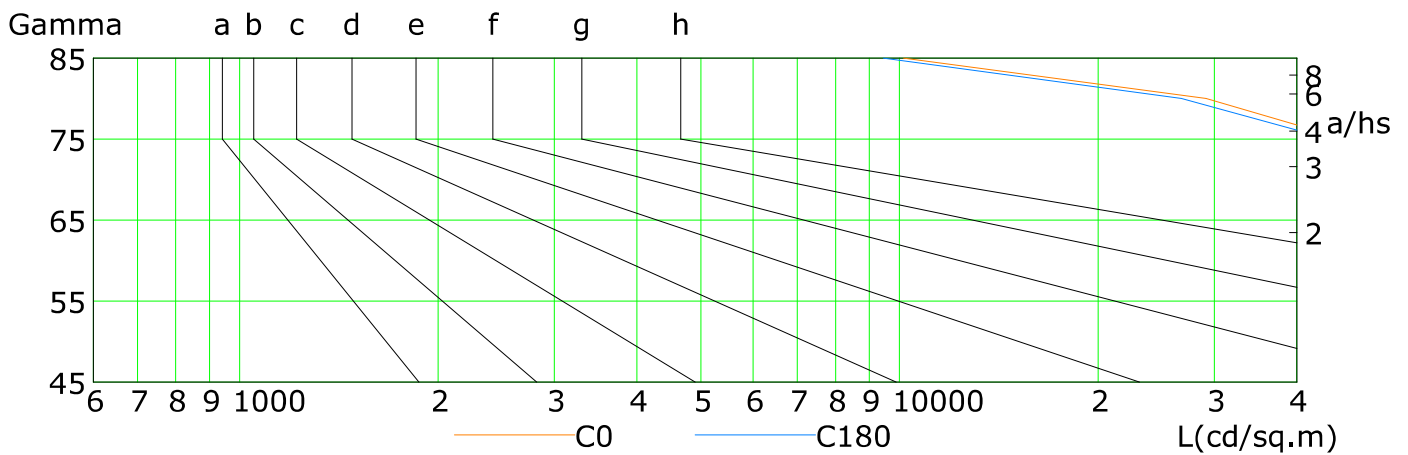
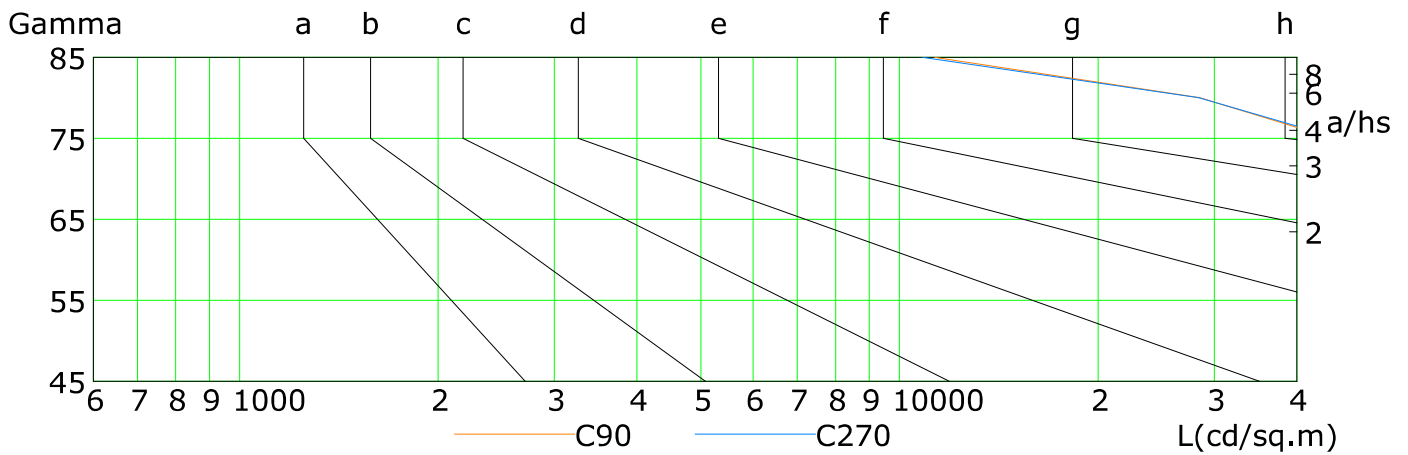
Humidity:

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	82720	81406	79018	74942	69330	60352	47465	29149	10146
C90	81574	79990	77599	73837	67628	58364	45389	28496	11308
C180	81798	80343	77872	73905	67742	58594	44991	26756	9456
C270	82439	80882	78695	74819	68798	59368	46530	28417	10835

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

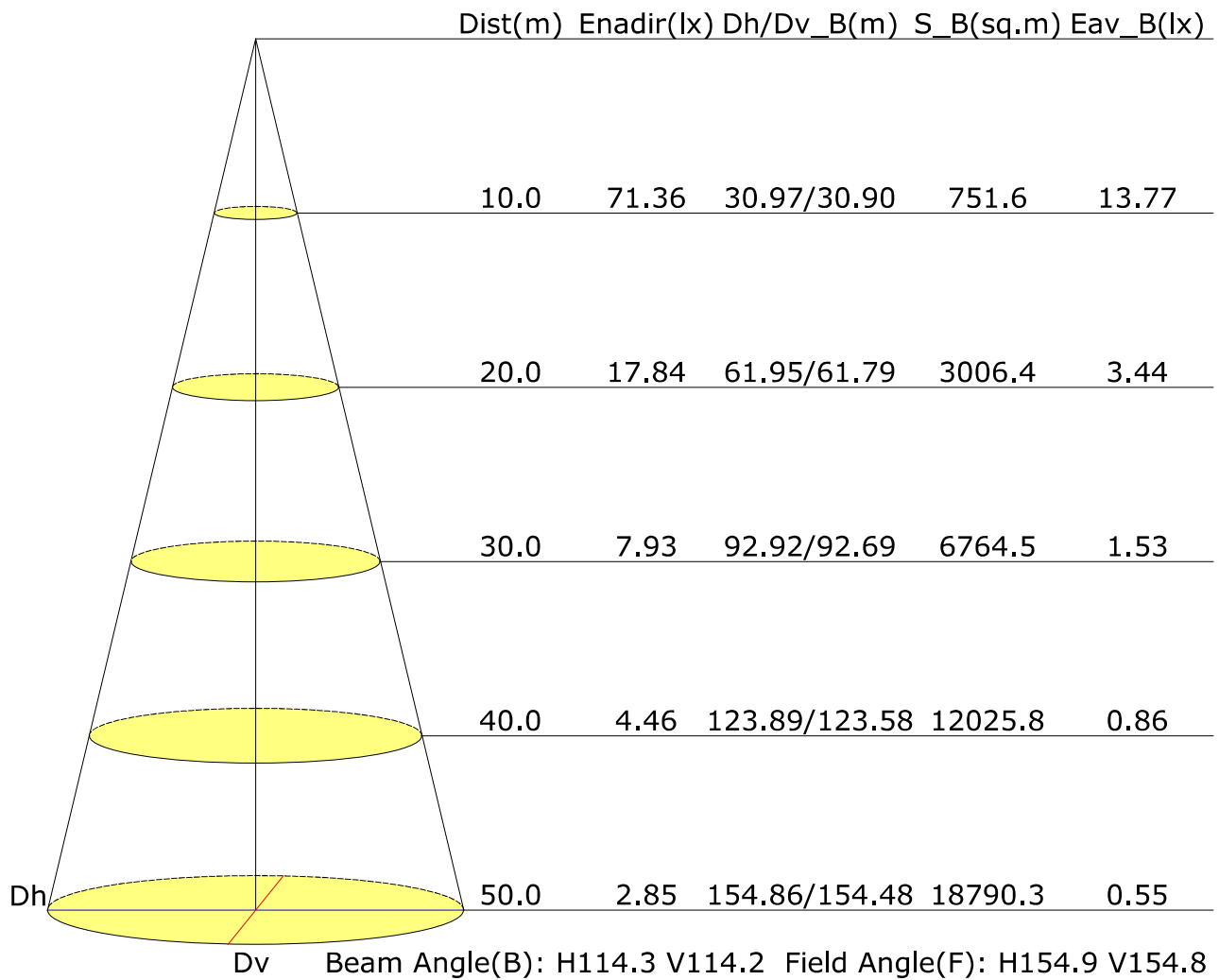
Test Device: LSG-1800B

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: