

Report No.: 1

Test Time: 16.03.2018 14:45

## Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FD 111 154LED 100W 5000K 60 Degrees lense

Lamp Description: LED

Luminous Diameter(mm): 260

Luminous High (mm): 178

Voltage: 231.4 V

Current: 0.439 A

Power: 100.18 W

Power Factor: 0.984

## Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 11567.4 lm

Measurement Flux: 11567.4 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 106.0, 106.1, 109.8, 109.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 44.8, 44.7, 45.0, 44.6

Luminaire Efficacy Rating (LER): 115.52

Central Intensity: 11935.01 cd

Max. Intensity: 12031.06 cd

Pos of Max. Intensity: H135 V4

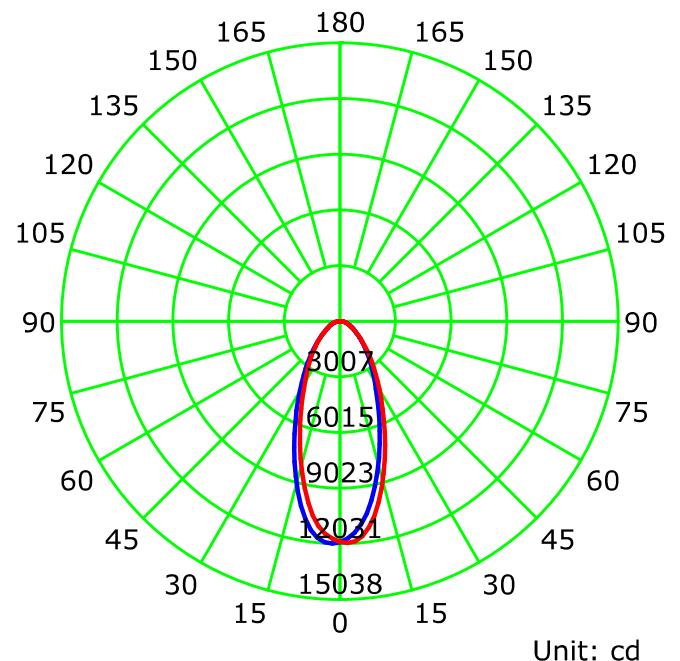
S/MH(C0/C180): 0.69

S/MH(C90/C270): 0.69

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180    — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.654 m

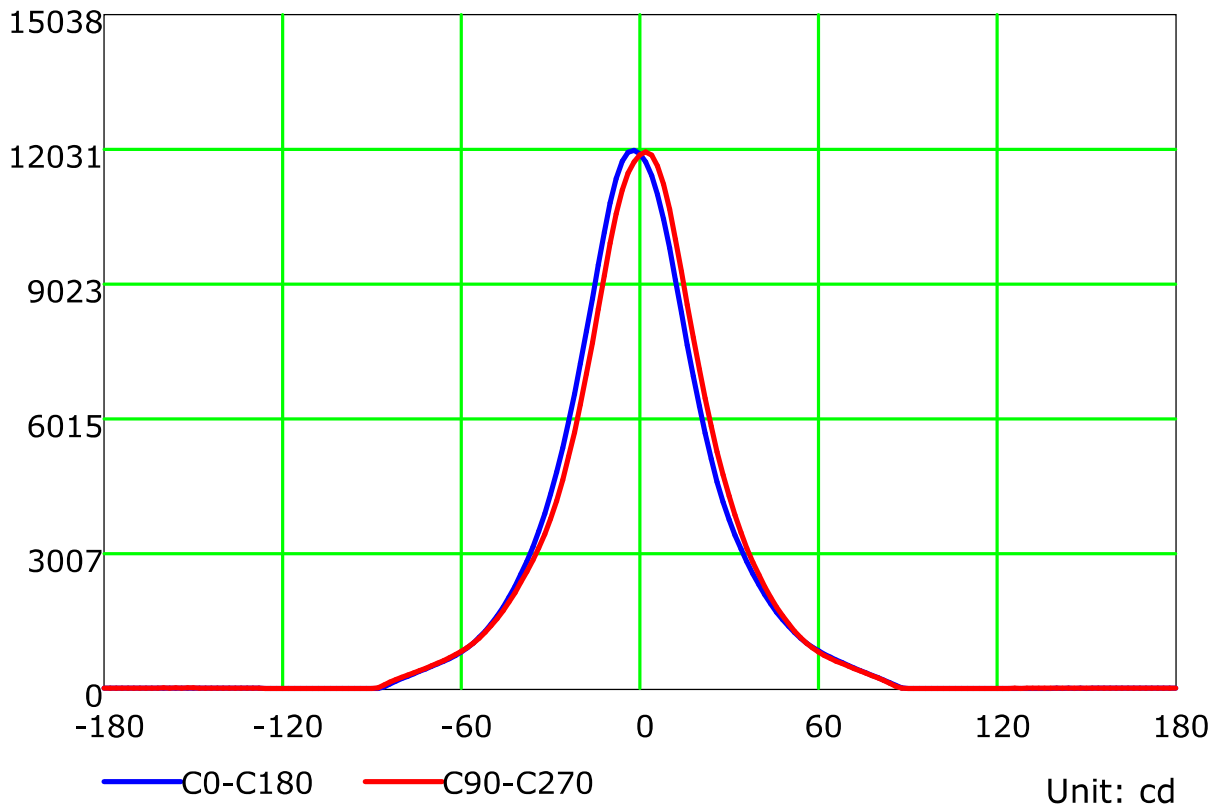
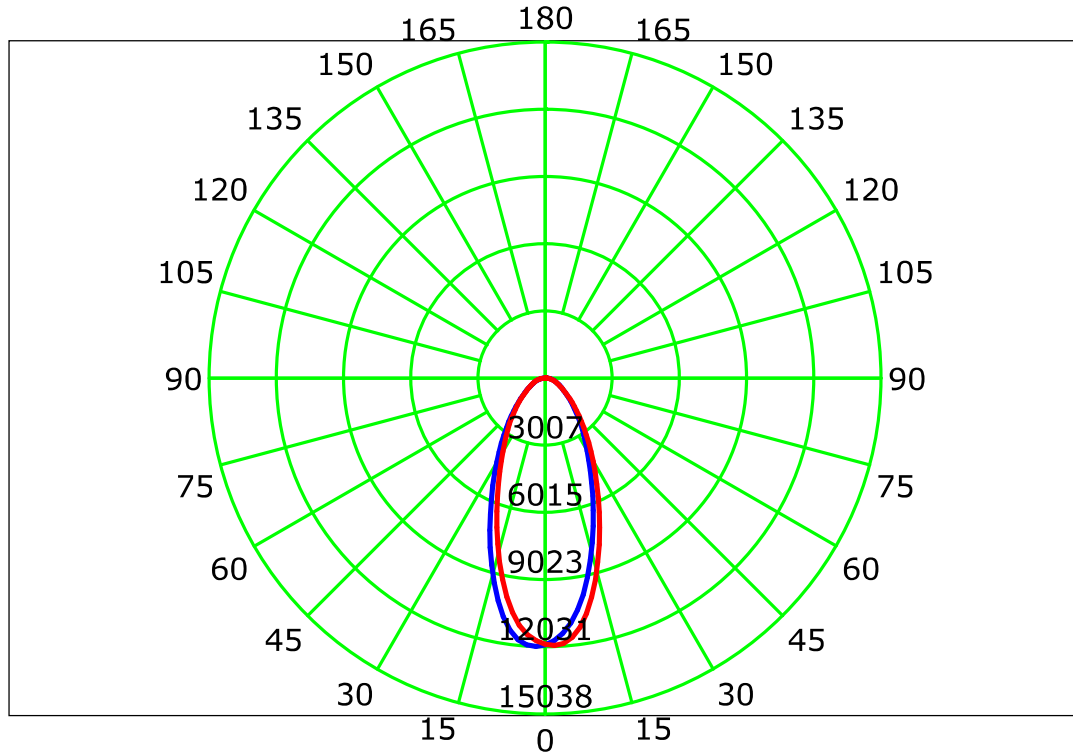
Temperature:

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 (°):0.0-180.0:2.0

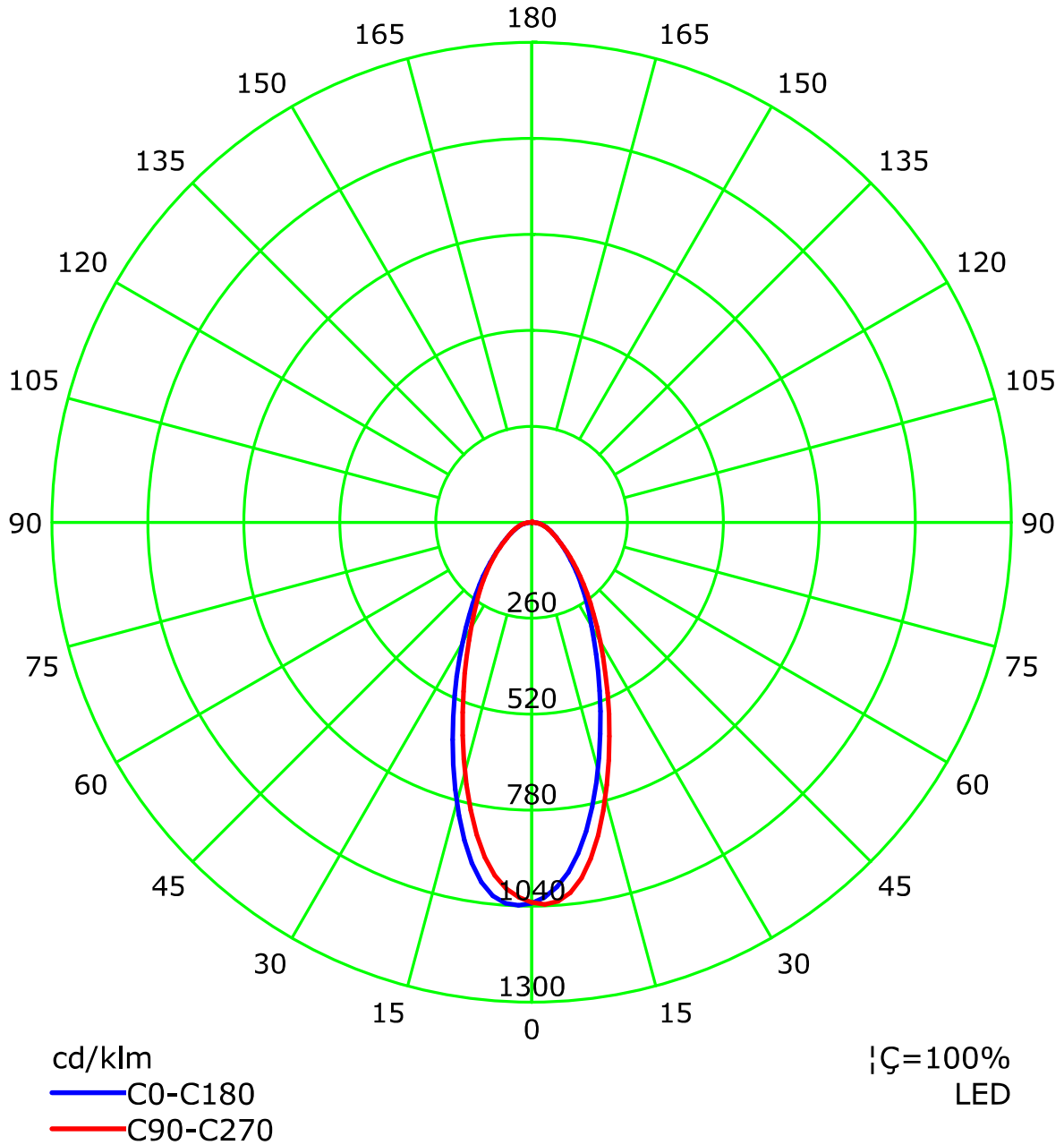
Test Device: LSG-1800B

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

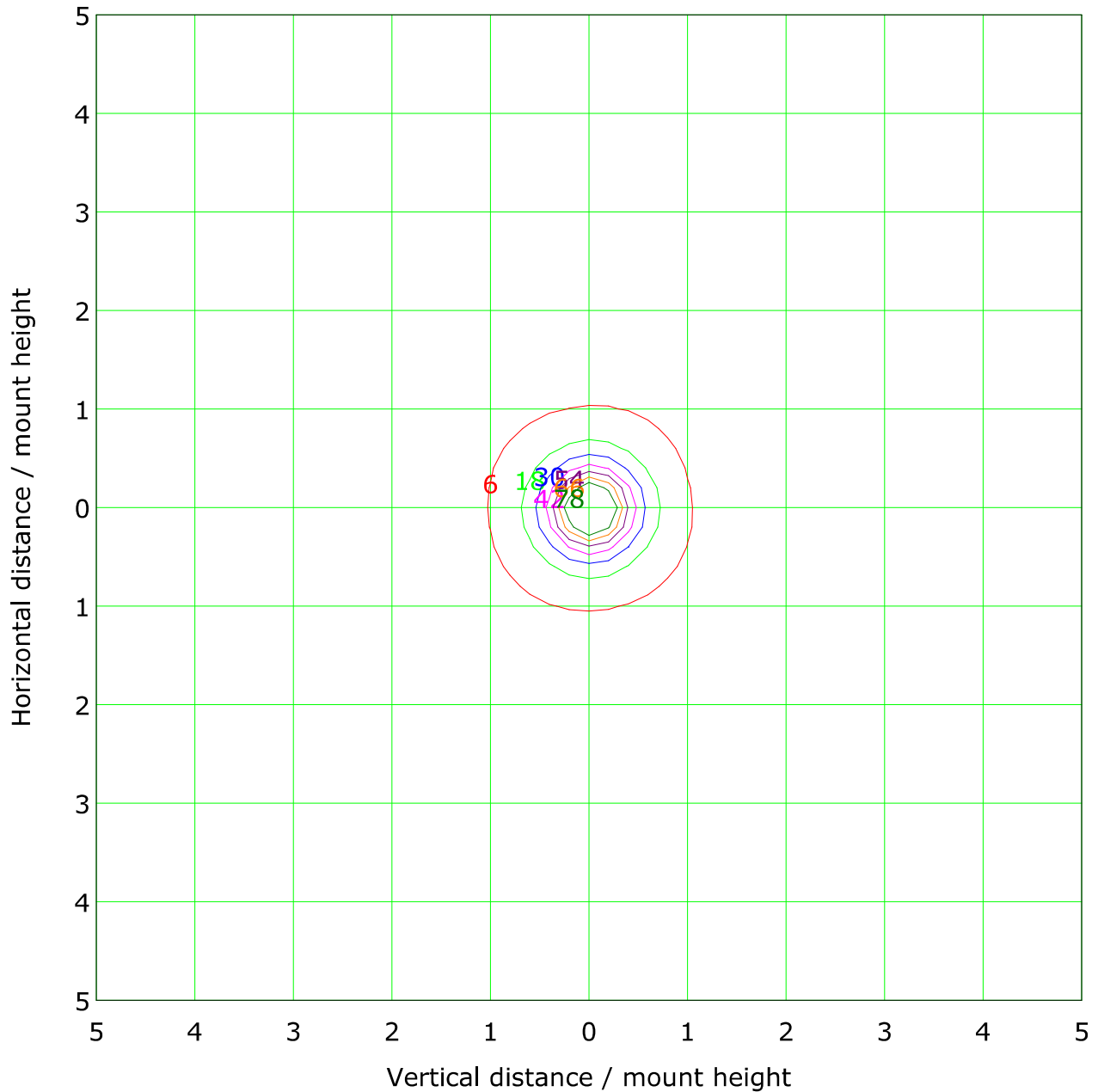
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 120.1 lx	
— ( 5%):	6.0 lx	— ( 15%):	18.0 lx
— ( 25%):	30.0 lx	— ( 35%):	42.0 lx
— ( 45%):	54.0 lx	— ( 55%):	66.0 lx
— ( 65%):	78.1 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

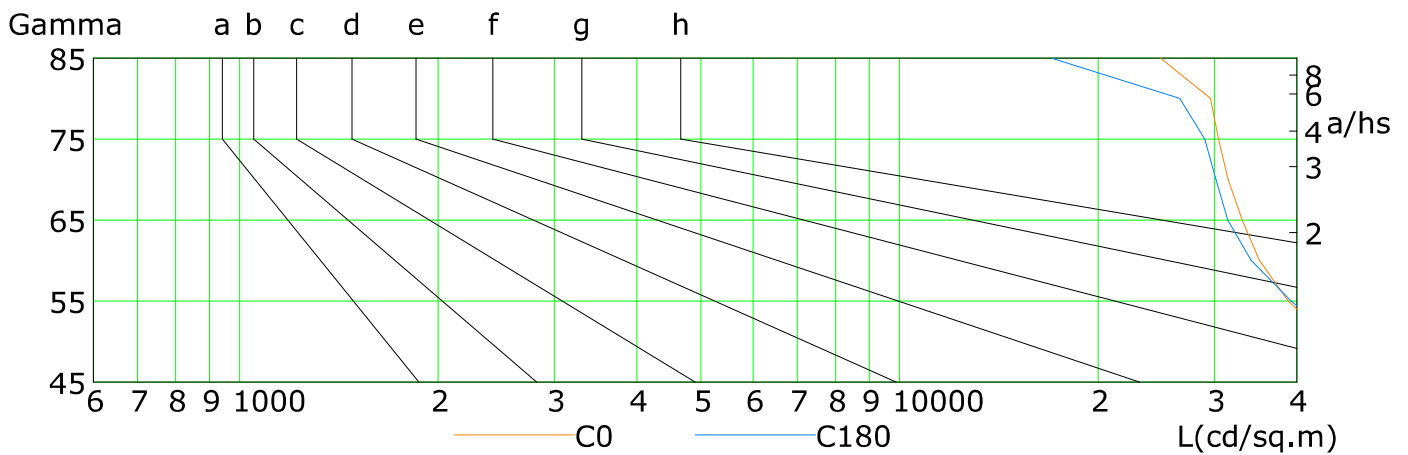
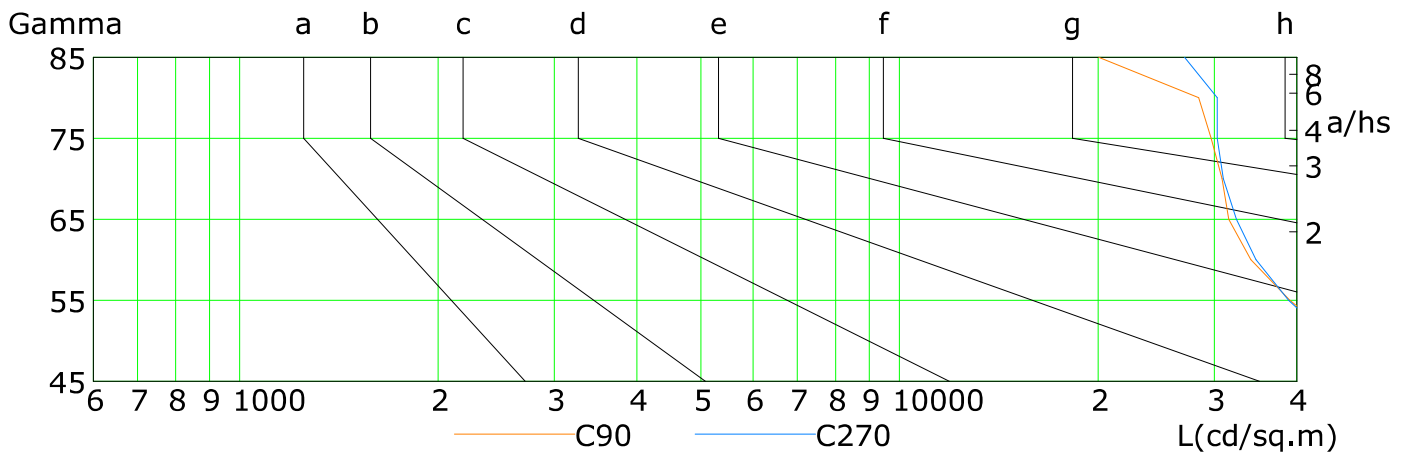
Humidity:

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	52909	44980	38841	35123	33065	31493	30458	29608	24871
C90	56648	46747	39043	34060	31555	30815	29667	28412	20037
C180	56713	46671	39240	34121	31454	30154	29019	26584	16990
C270	53989	45493	38857	34707	32393	30939	30293	30311	27043

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

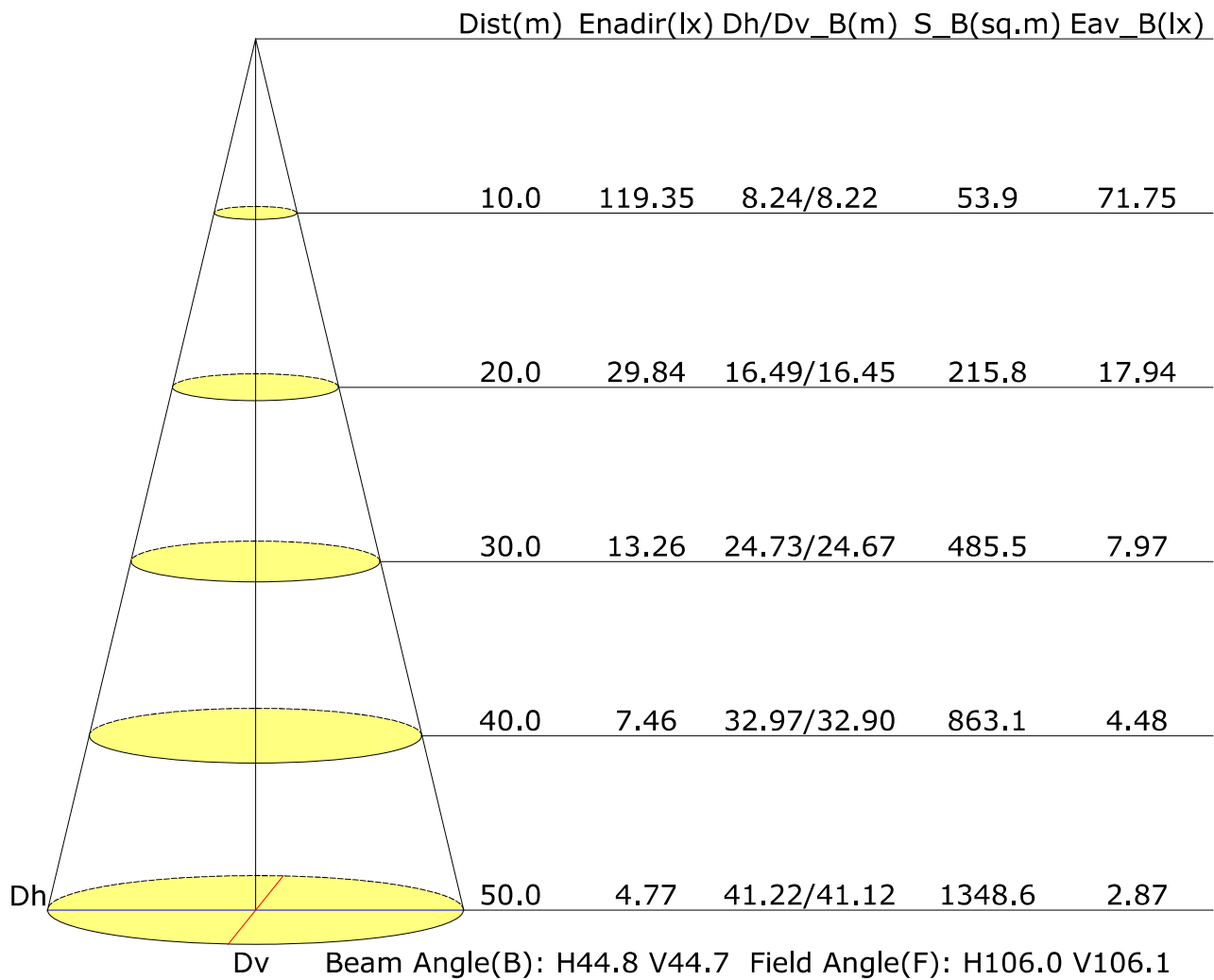
Test Device: LSG-1800B

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: