

Report No.: 2

Test Time: 14.03.2018 11:50

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FD 111 245LED 160W 5000K 60 Degrees lense

Lamp Description: LED

Diameter (mm): 325

Luminous Width (mm): 204

Voltage: 231.5 V

Current: 0.708 A

Power: 159.58 W

Power Factor: 0.972

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 18834.5 lm

Measurement Flux: 18834.5 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 104.9, 105.4, 102.4, 103.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 46.7, 46.7, 46.7, 46.5

Luminaire Efficacy Rating (LER): 118.08

Central Intensity: 20000.16 cd

Max. Intensity: 20070.66 cd

Pos of Max. Intensity: H0 V2

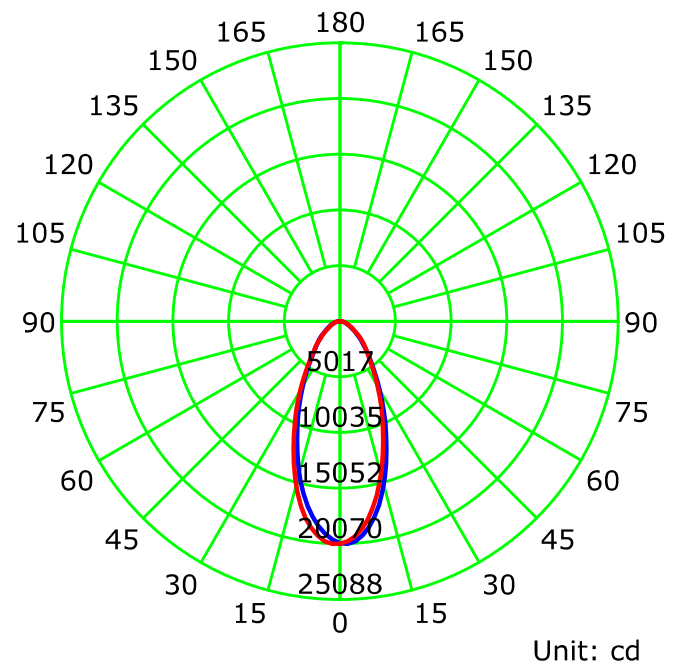
S/MH(C0/C180): 0.72

S/MH(C90/C270): 0.72

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

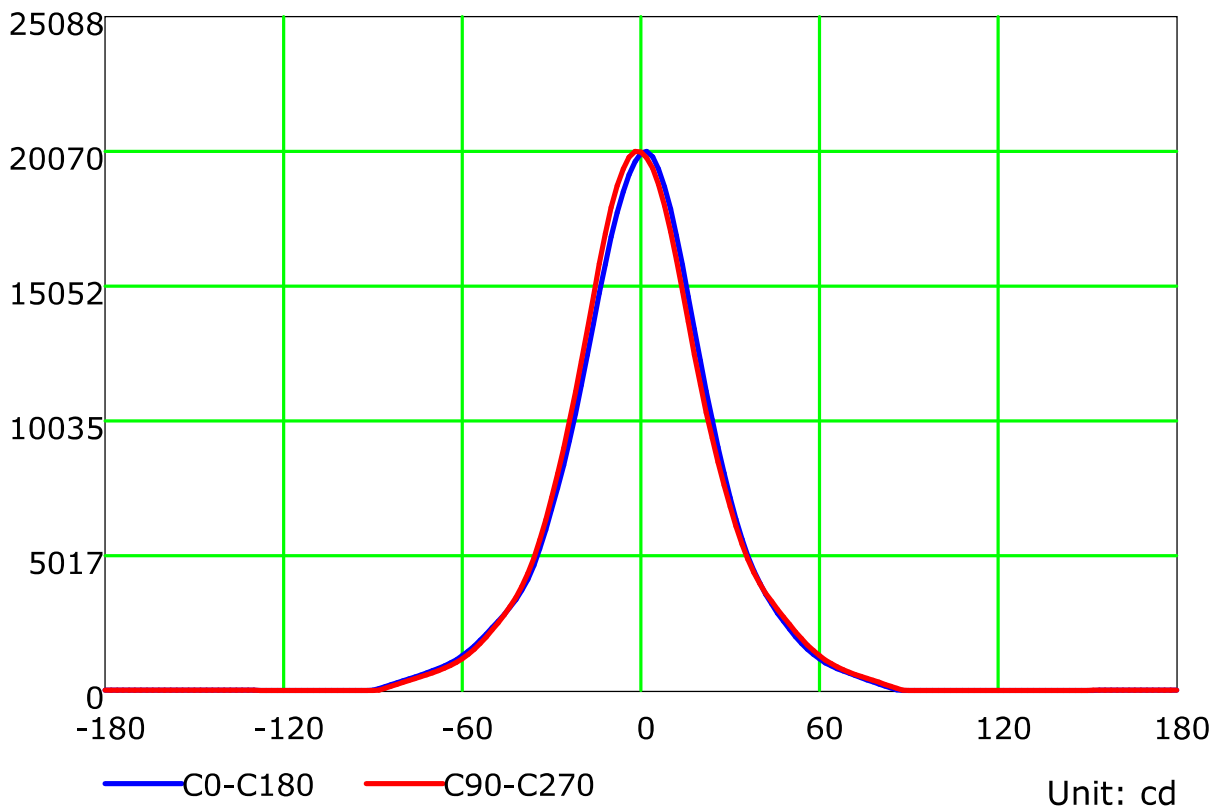
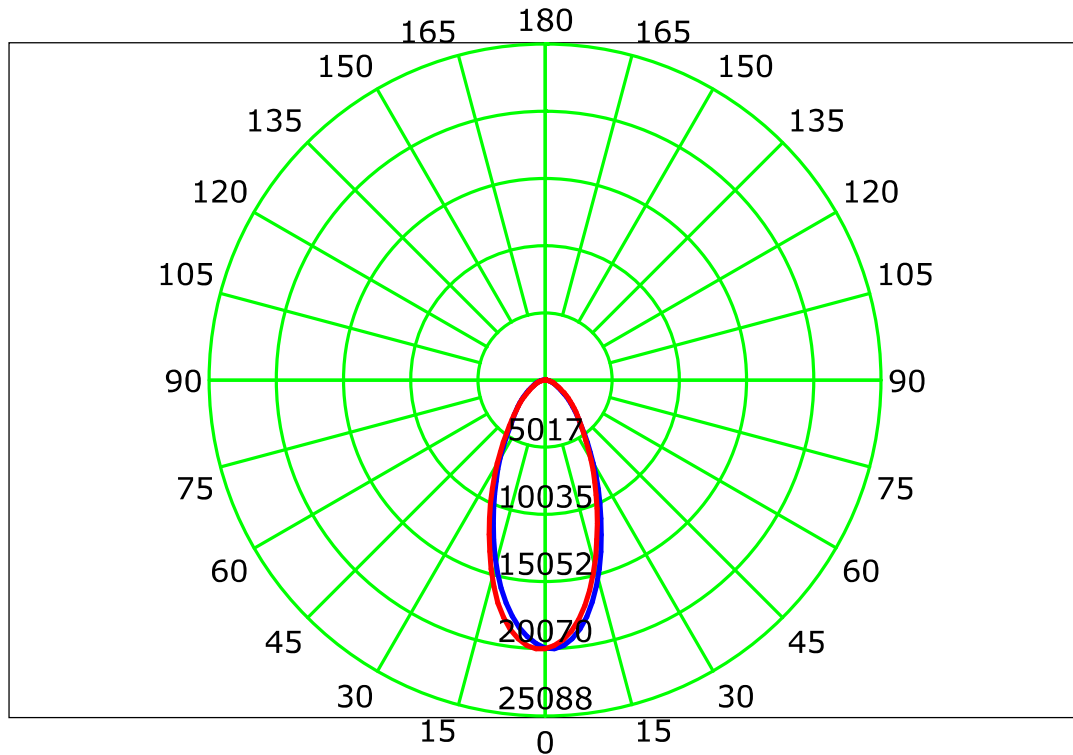
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

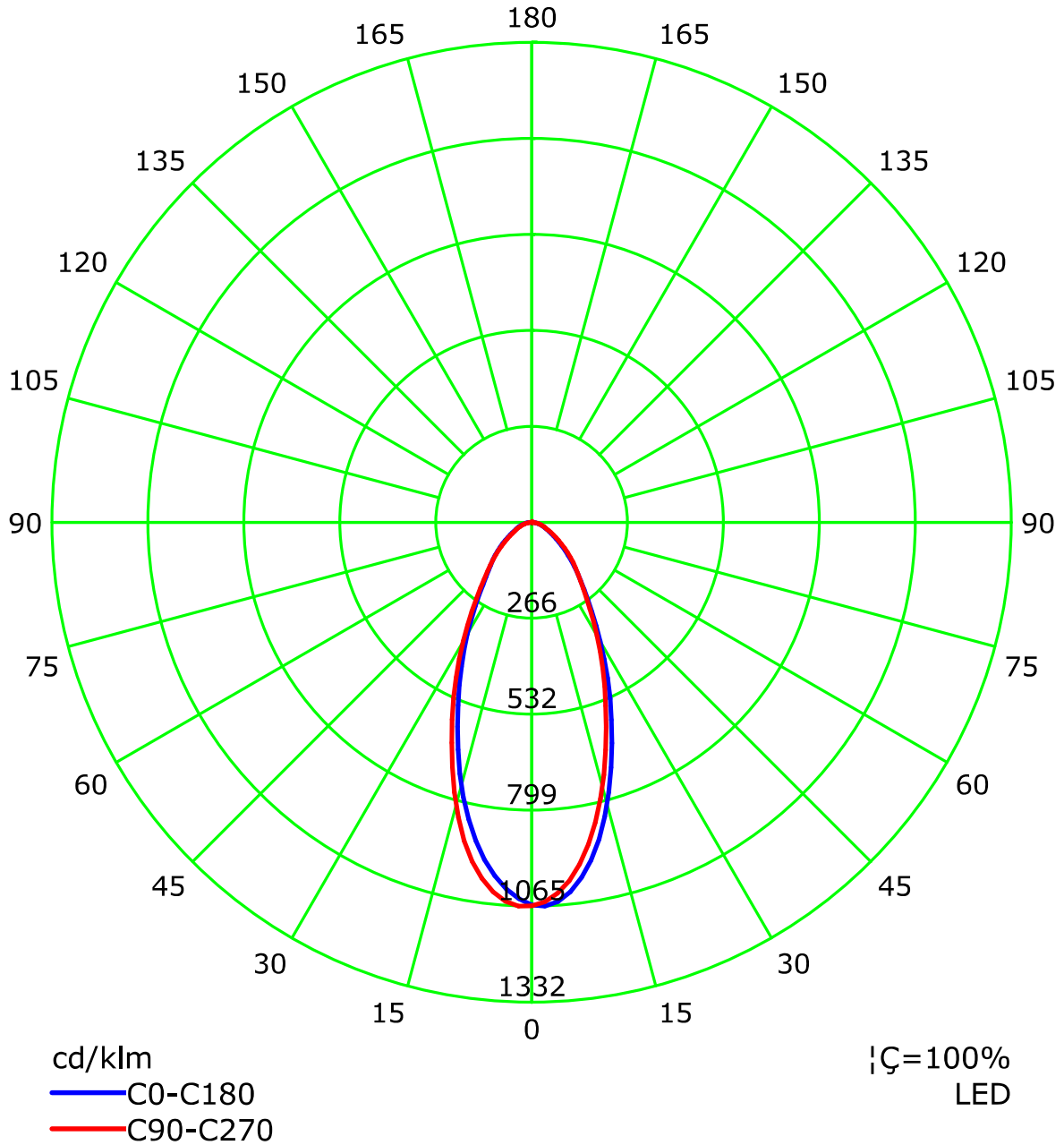
Test Device: LSG-1800B

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

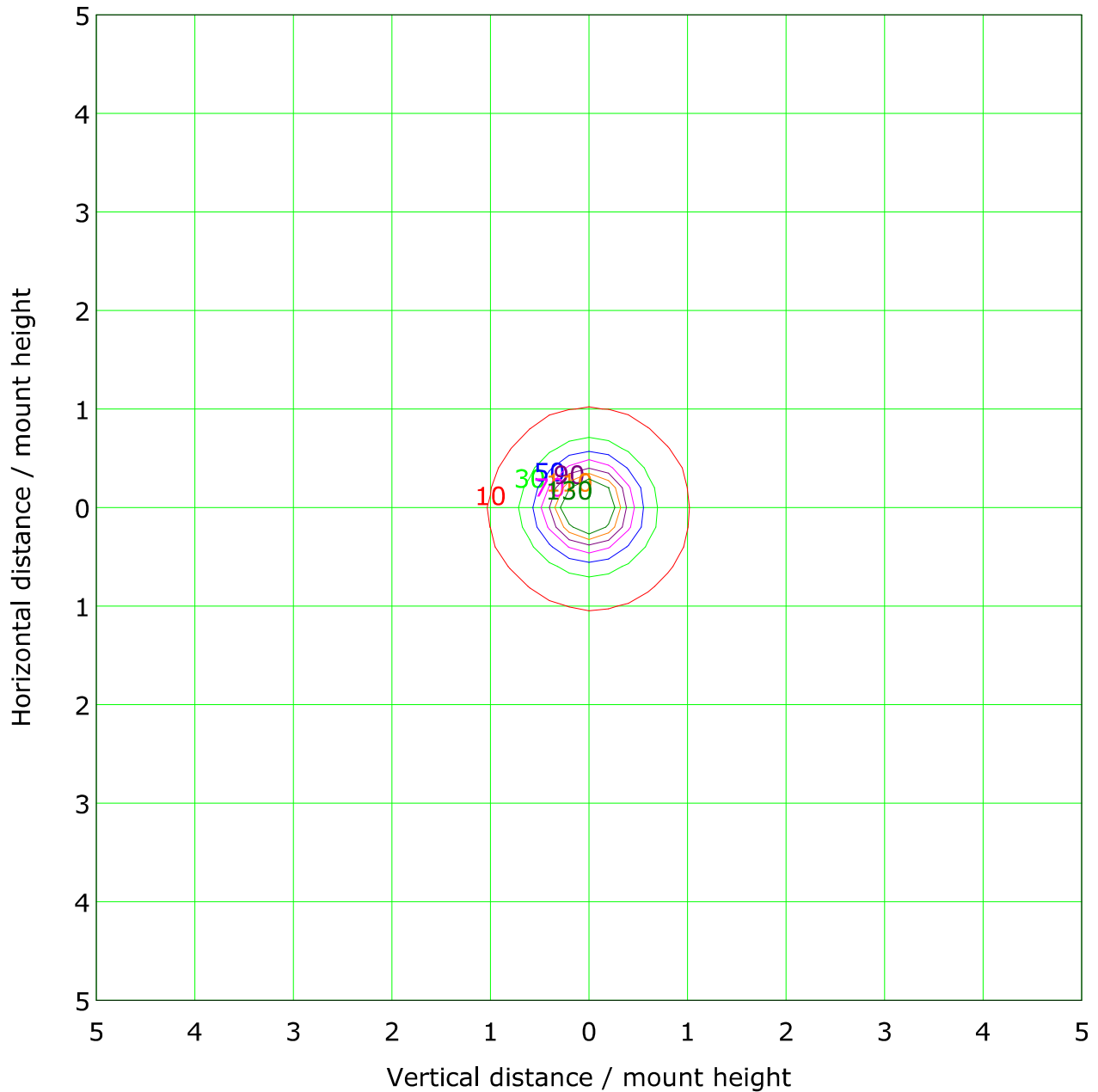
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 200.5 lx

(5%): 10.0 lx	(15%): 30.1 lx
(25%): 50.1 lx	(35%): 70.2 lx
(45%): 90.2 lx	(55%): 110.3 lx
(65%): 130.4 lx	

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Test Lab:

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Temperature:

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Test Device: LSG-1800B

Distance: 12.654 m

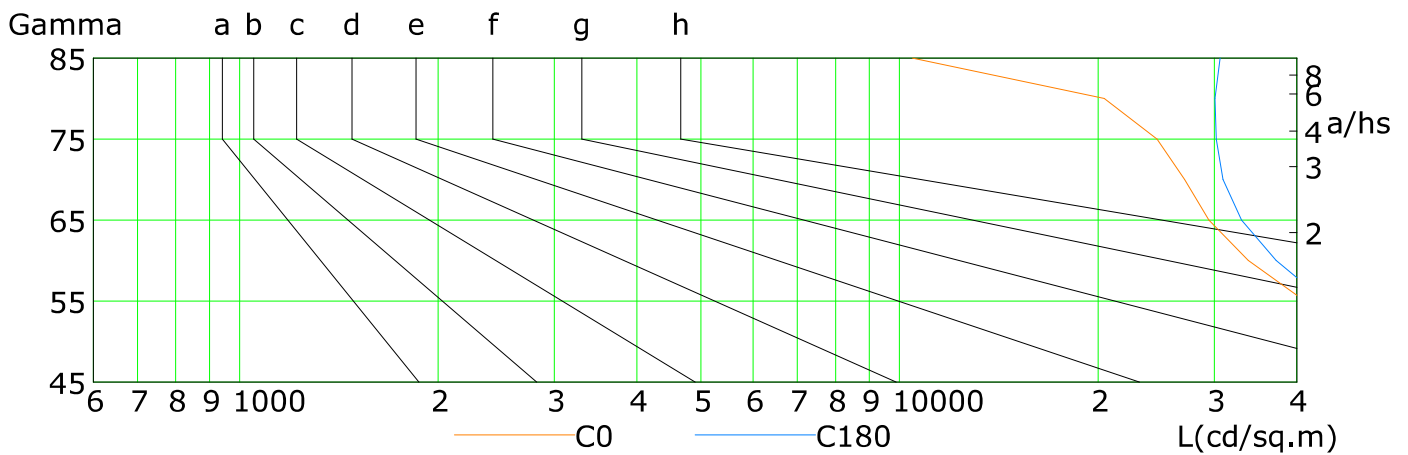
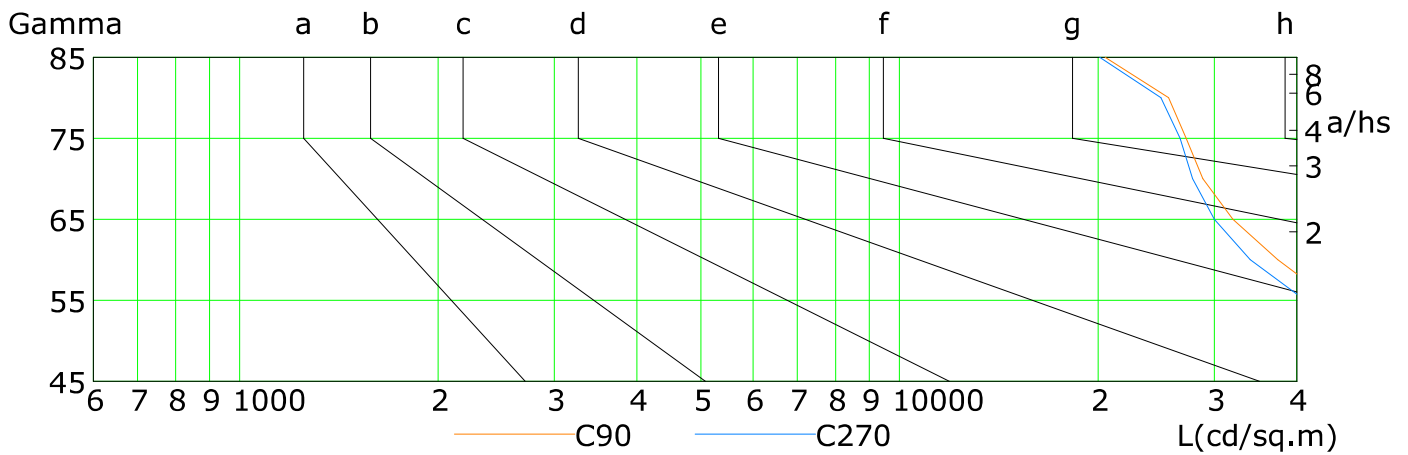
Humidity:

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	61756	50757	41192	33778	29450	27037	24555	20430	10466
C90	64122	54668	45413	37409	31996	28831	27203	25561	20497
C180	60074	52078	44197	37208	32990	30921	30191	30063	30625
C270	60109	50195	41258	34013	30007	27799	26634	24884	20111

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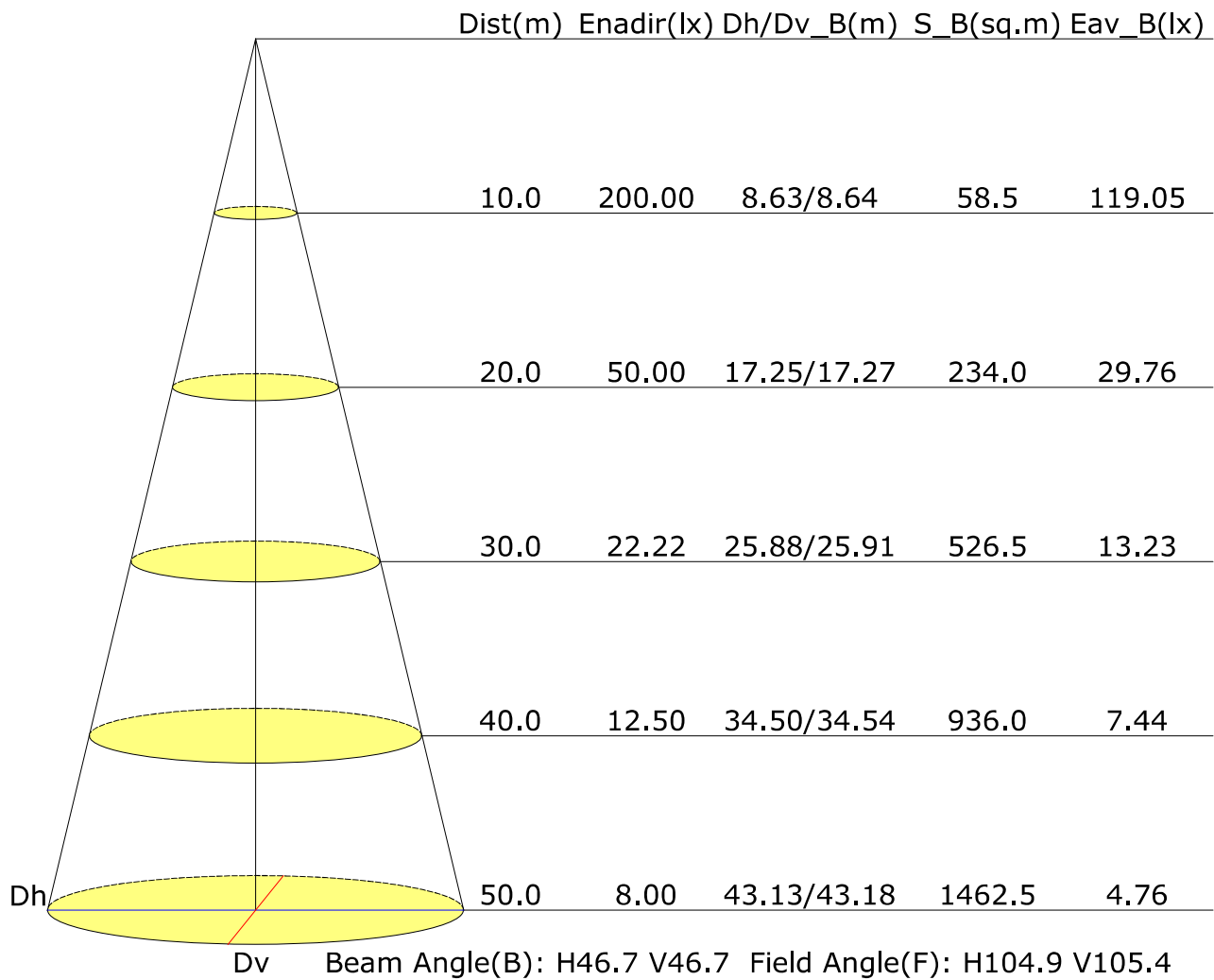
Test Device: LSG-1800B

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: