

Report No.: 34

Test Time: 17.11.2017 10:39

Luminaire Property

Luminaire Manufacturer: FAROS

Lamp Description: FG 50 25x4LED 0,45A 55W 4000K

Luminous Length (mm): 1245

Voltage: 231.2 V

Power: 53.57 W

Luminous Width (mm): 55

Current: 0.234 A

Power Factor: 0.988

Photometric Results

CIE Class: Direct

Measurement Flux: 4417.8 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.8, 160.5, 161.8, 161.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.0, 110.1, 111.1, 111.2

Luminaire Efficacy Rating (LER): 82.52

Max. Intensity: 1617.69 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 4417.8 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 1532.73 cd

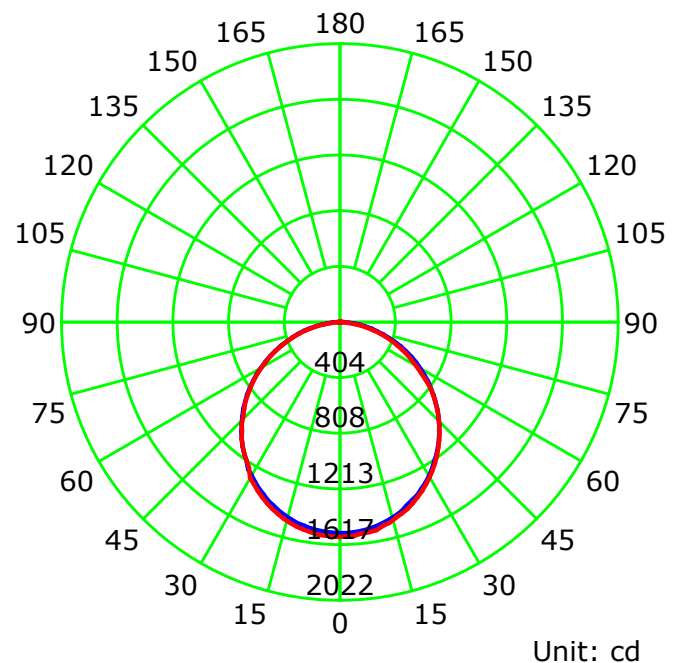
Pos of Max. Intensity: H112.5 V0

S/MH(C90/C270): 1.24

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

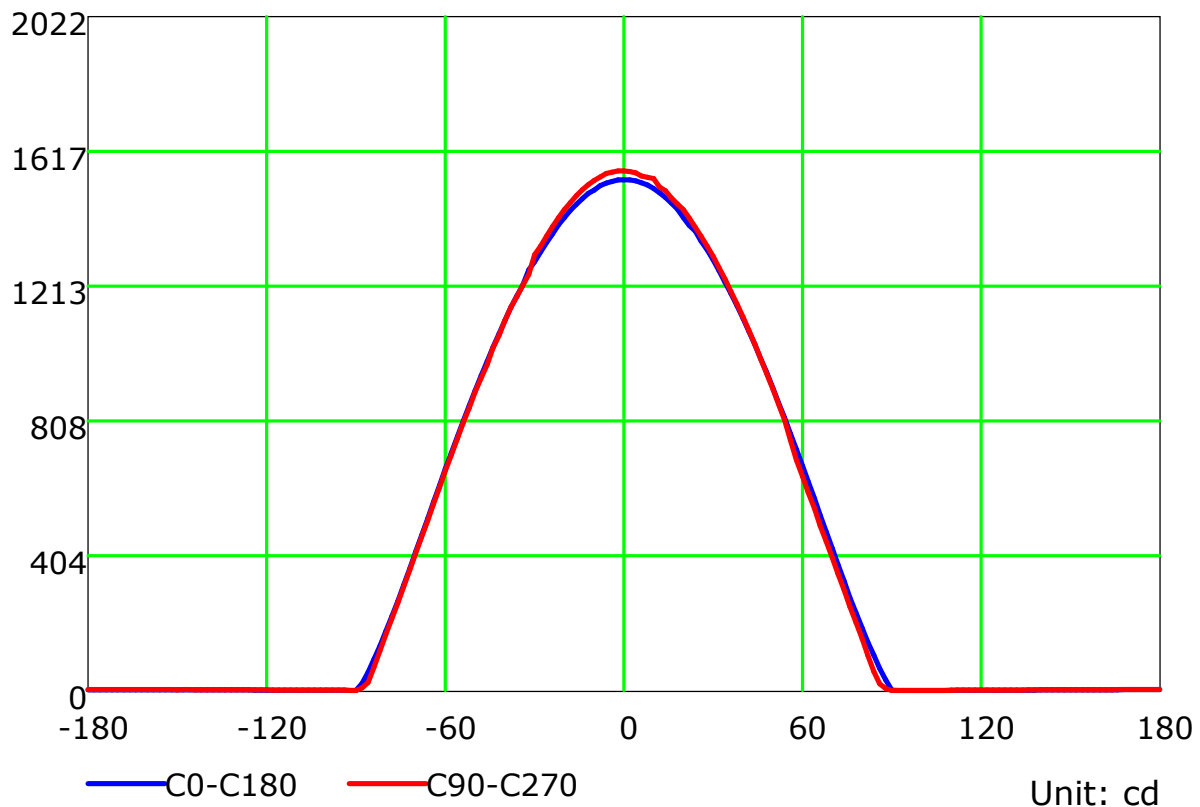
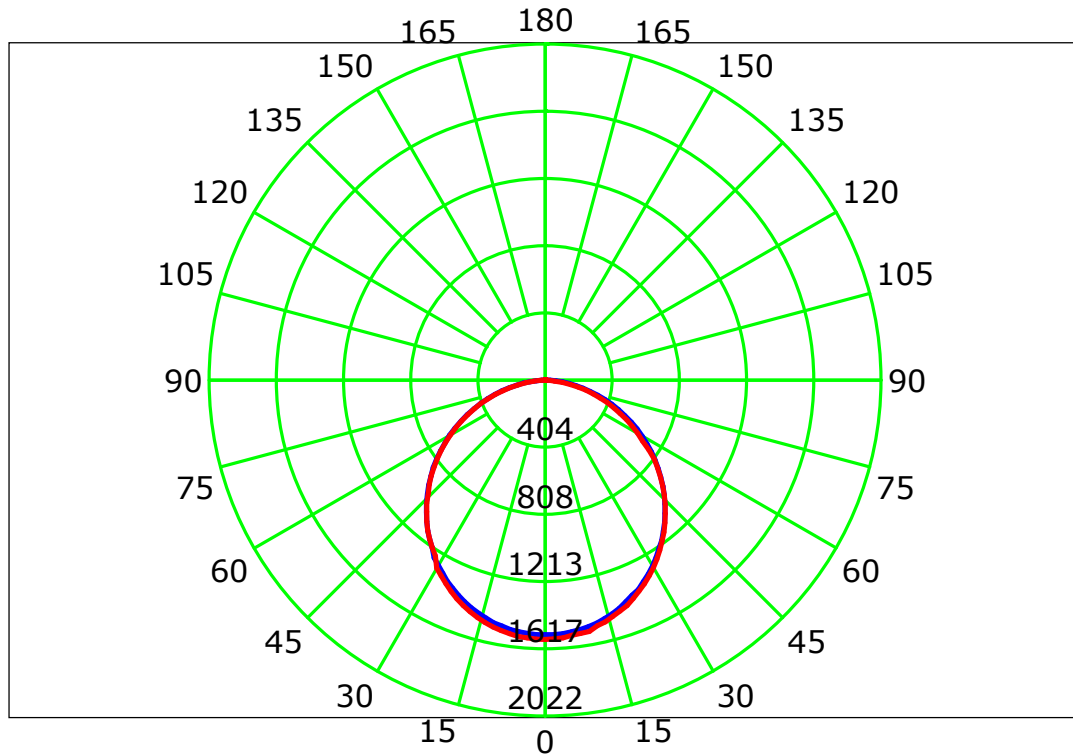
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

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

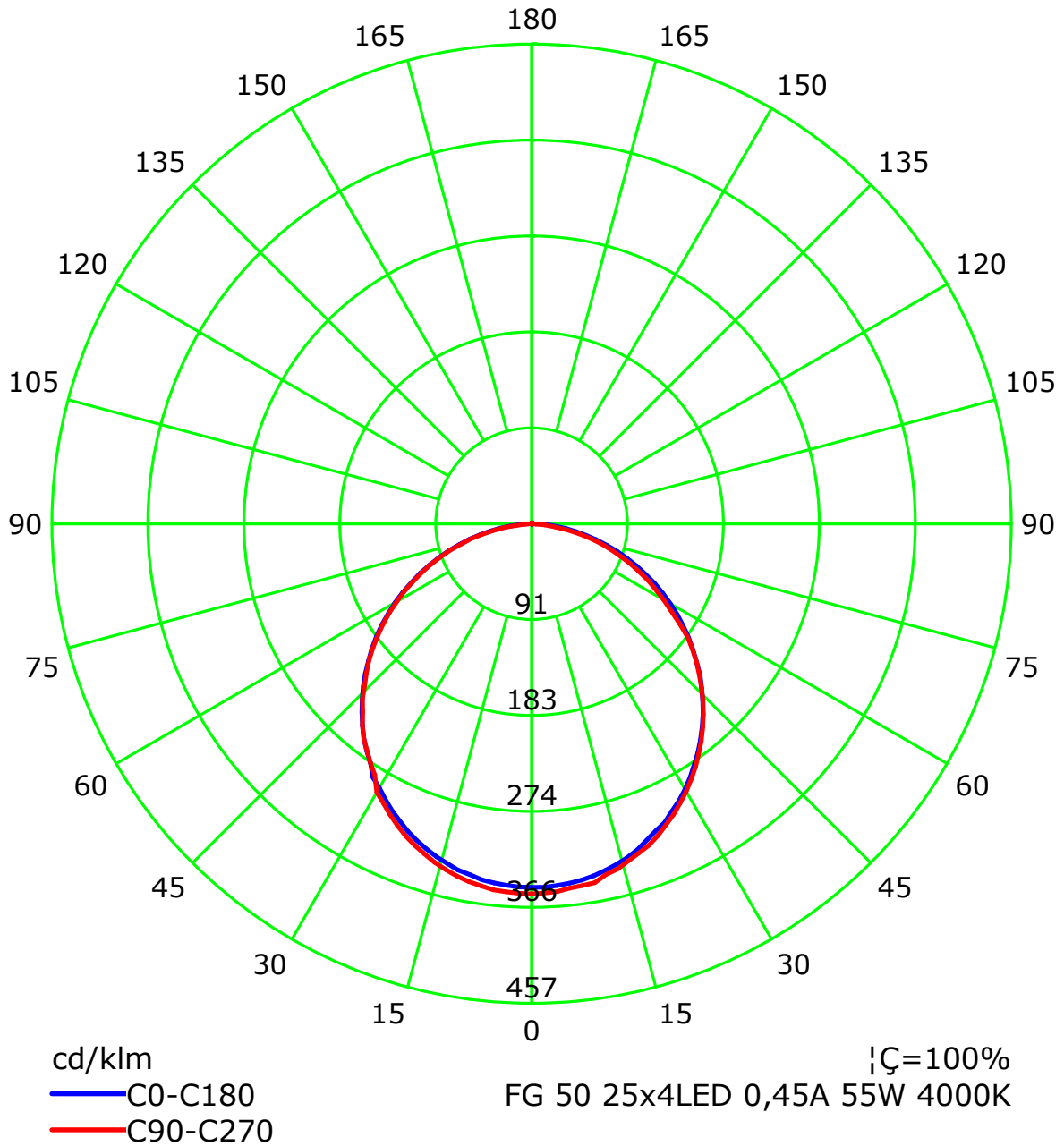
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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Test Lab:

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Temperature:

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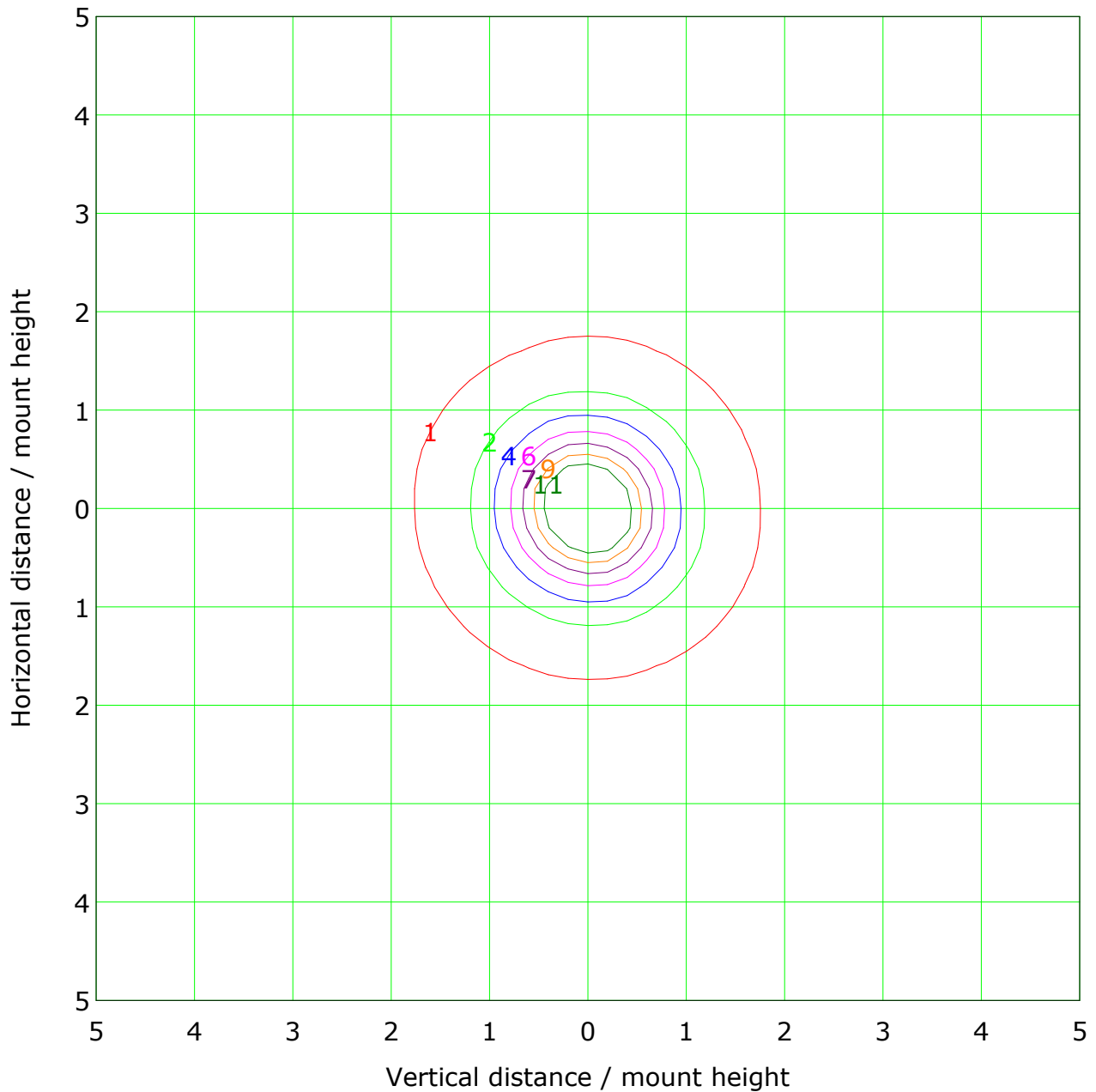
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 16.2 lx	
(5%):	0.8 lx	(15%):	2.4 lx
(25%):	4.0 lx	(35%):	5.7 lx
(45%):	7.3 lx	(55%):	8.9 lx
(65%):	10.5 lx		

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Test Device: LSG-1800B

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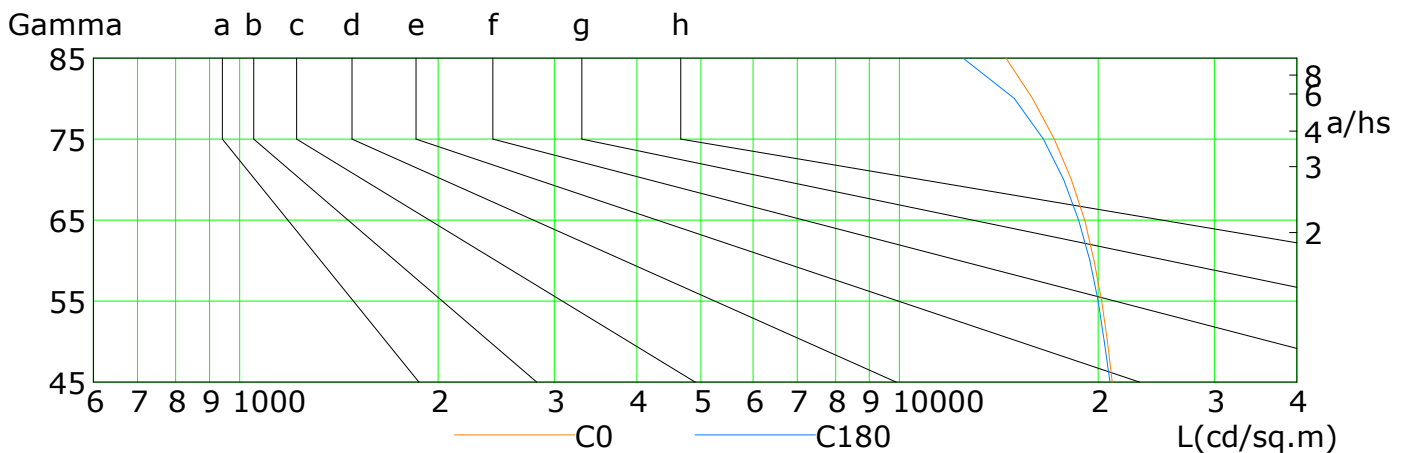
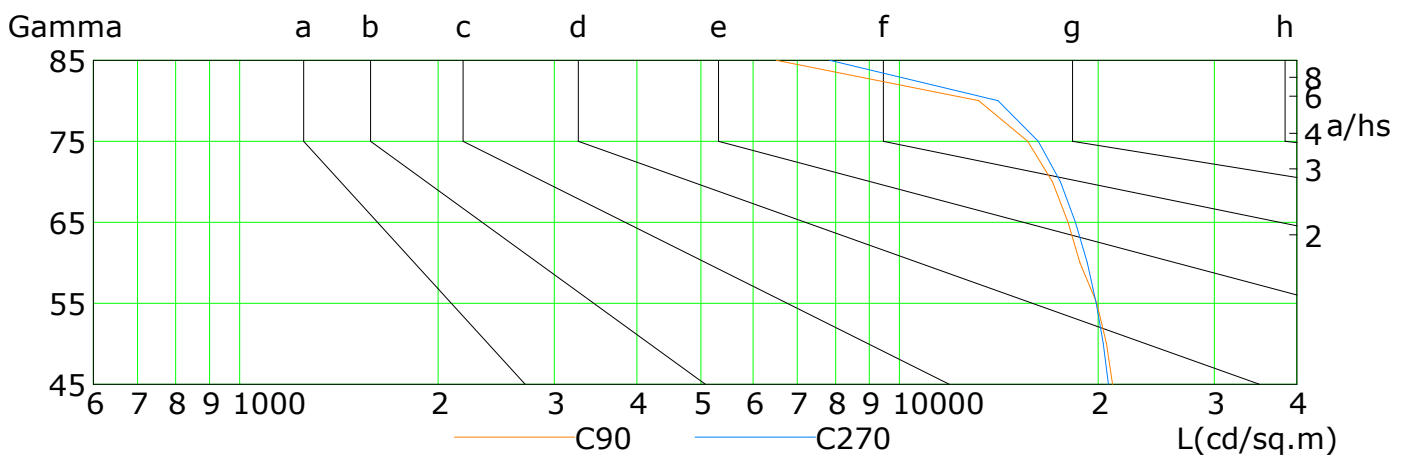
Humidity:

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	21015	20656	20243	19716	19080	18218	17163	15912	14498
C90	21028	20601	19922	18772	18018	17044	15641	13190	6507
C180	20838	20442	19995	19433	18675	17736	16527	14929	12491
C270	20721	20352	19860	19257	18481	17524	16224	14096	7841

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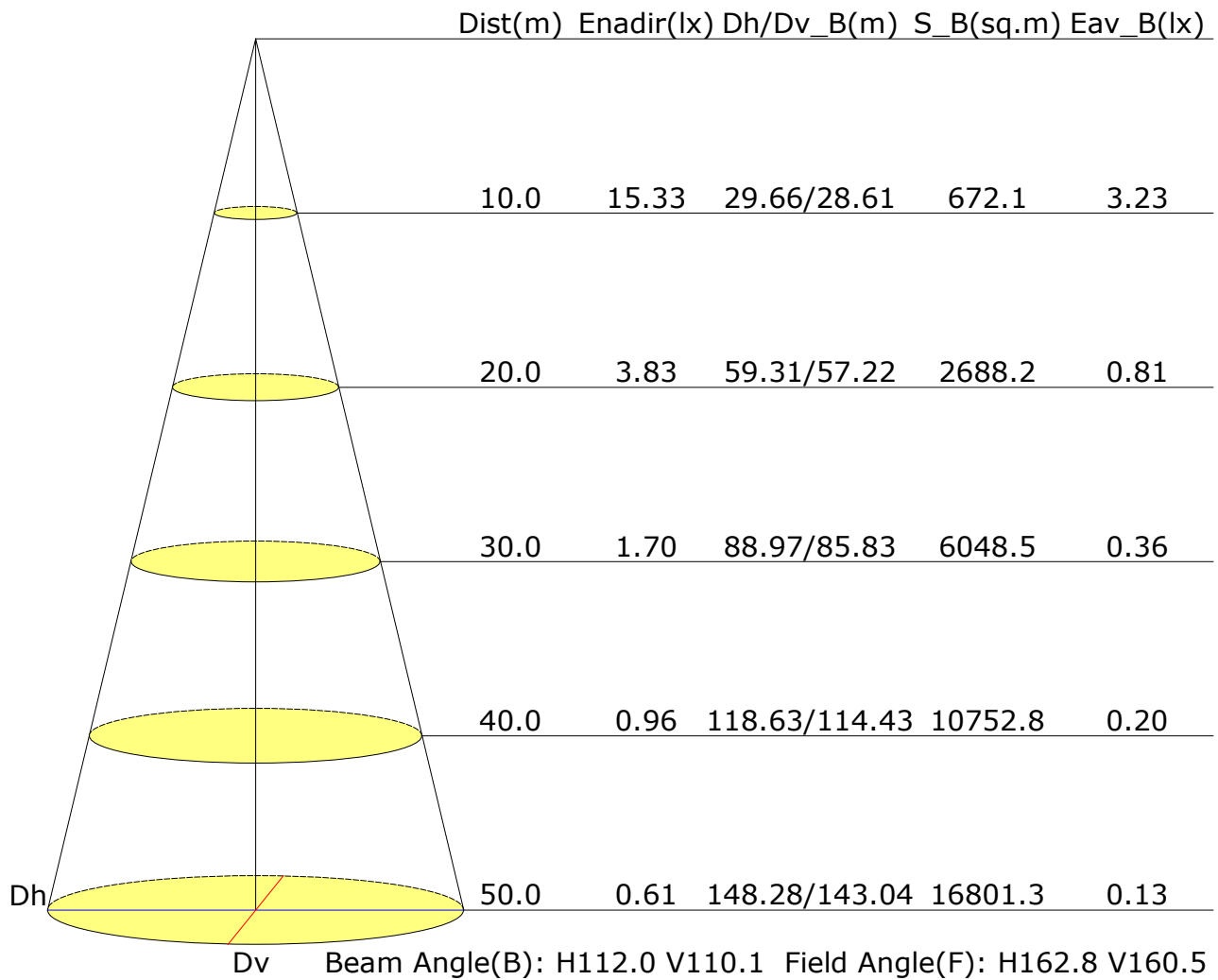
Test Device: LSG-1800B

Distance: 12.606 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: 12.606 m

Humidity:

Inspector: