

Report No.: 31

Test Time: 13.11.2017 13:03

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 50 25x4LED 0,45A 55W 3000K

Lamp Description: LED

Luminous Width (mm): 55

Voltage: 231.3 V

Power: 53.36 W

Luminous Length (mm): 1245

Luminous Height (mm): 90

Current: 0.233 A

Power Factor: 0.988

Photometric Results

CIE Class: Direct

Measurement Flux: 4090.5 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.8, 160.8, 161.8, 161.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.0, 110.4, 111.2, 111.2

Luminaire Efficacy Rating (LER): 76.71

Max. Intensity: 1449.22 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 4090.5 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 1448.81 cd

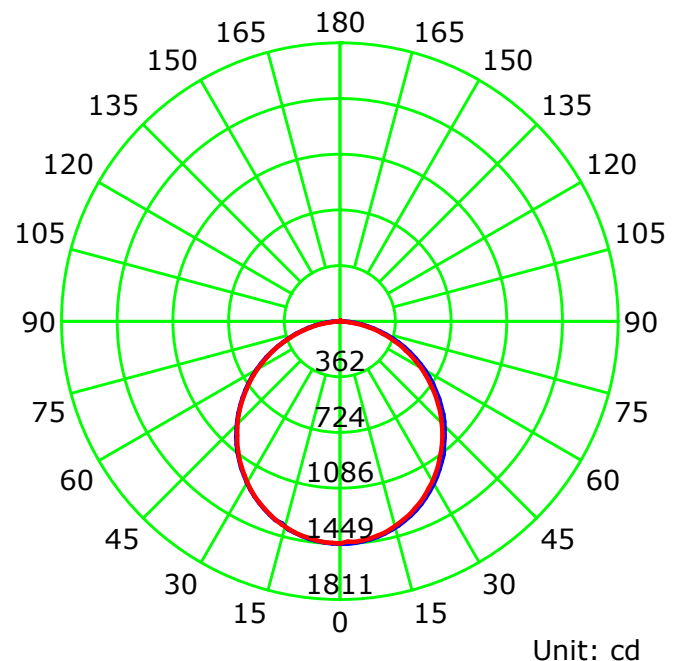
Pos of Max. Intensity: H45 V0

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

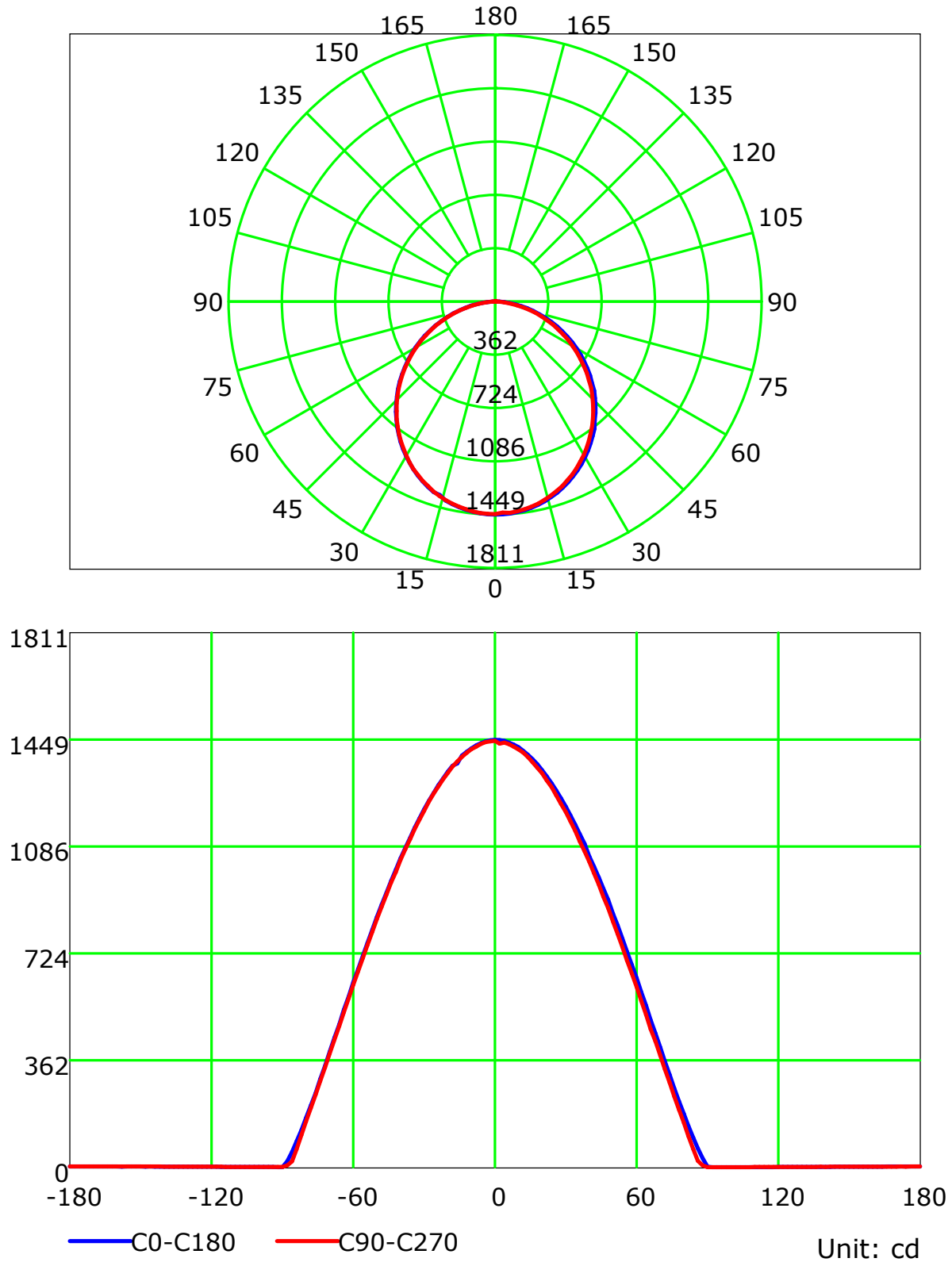
Test Device: LSG-1800B

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

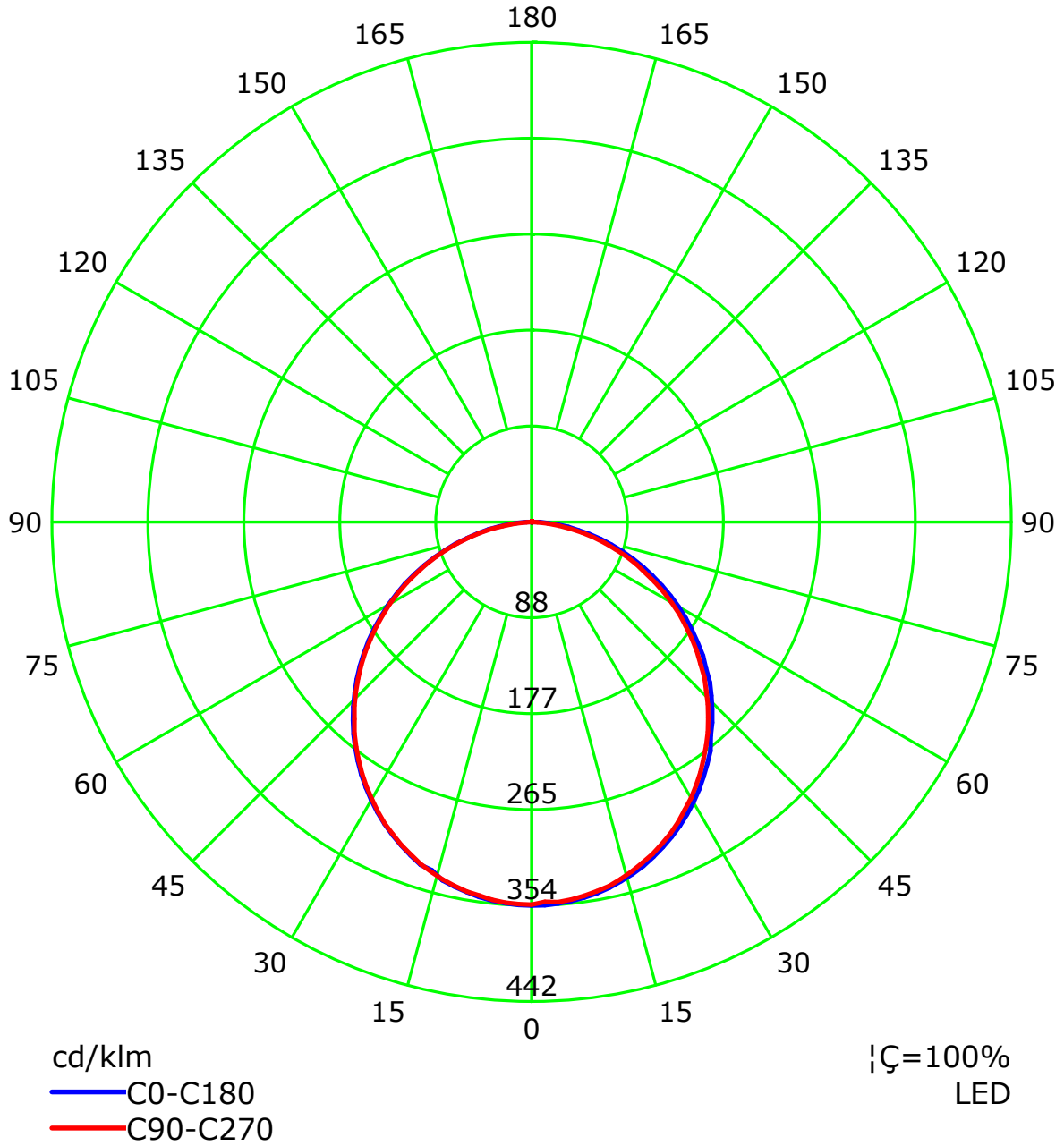
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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Test Lab:

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Temperature:

Operator:

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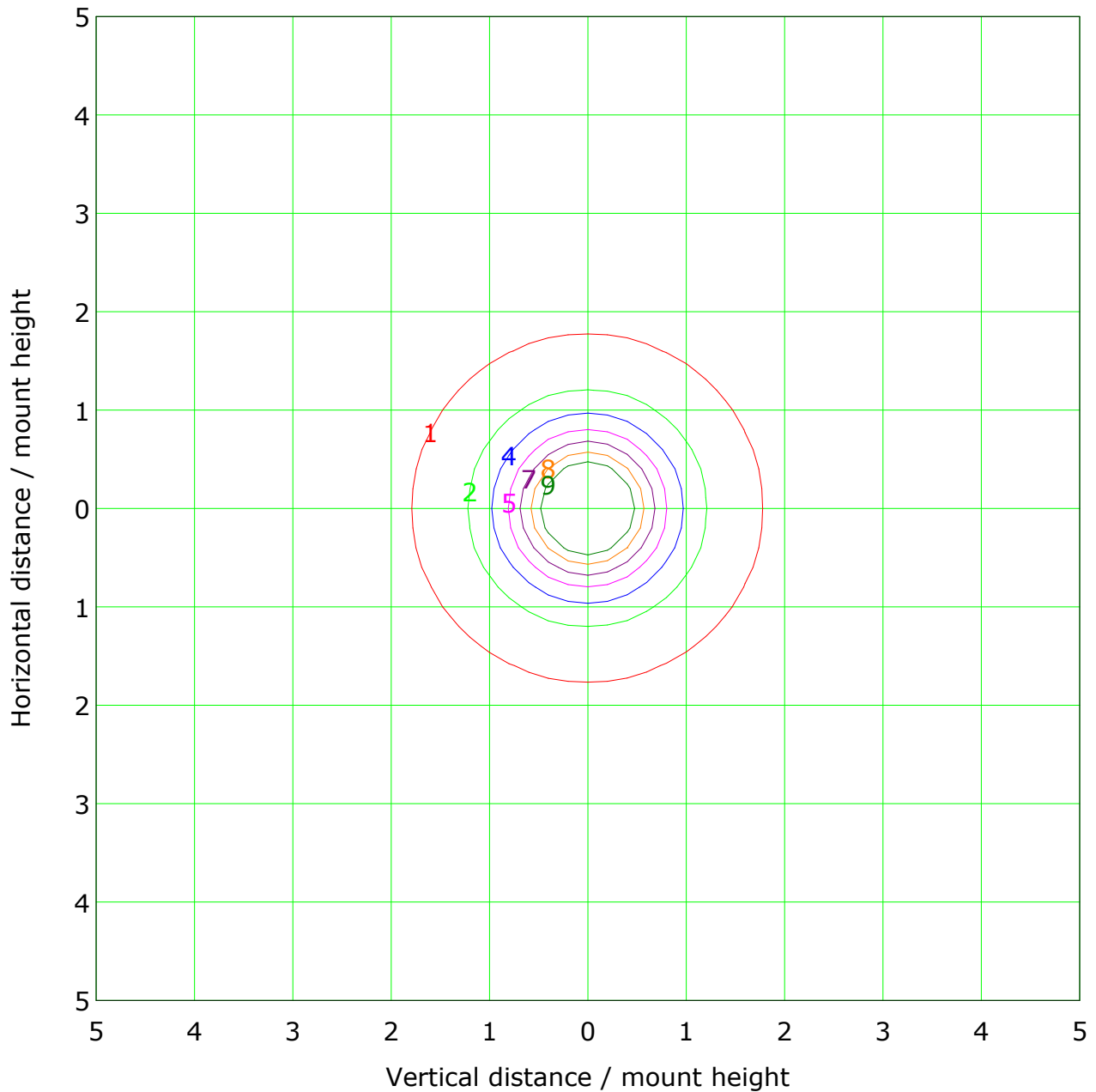
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 14.5 lx	
(5%):	0.7 lx	(15%):	2.2 lx
(25%):	3.6 lx	(35%):	5.1 lx
(45%):	6.5 lx	(55%):	8.0 lx
(65%):	9.4 lx		

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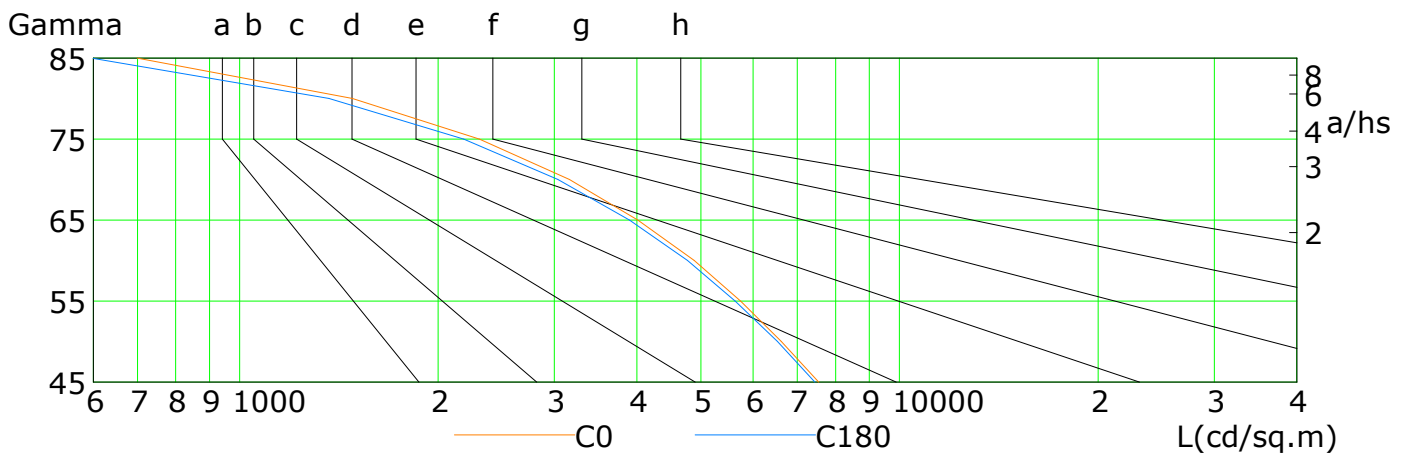
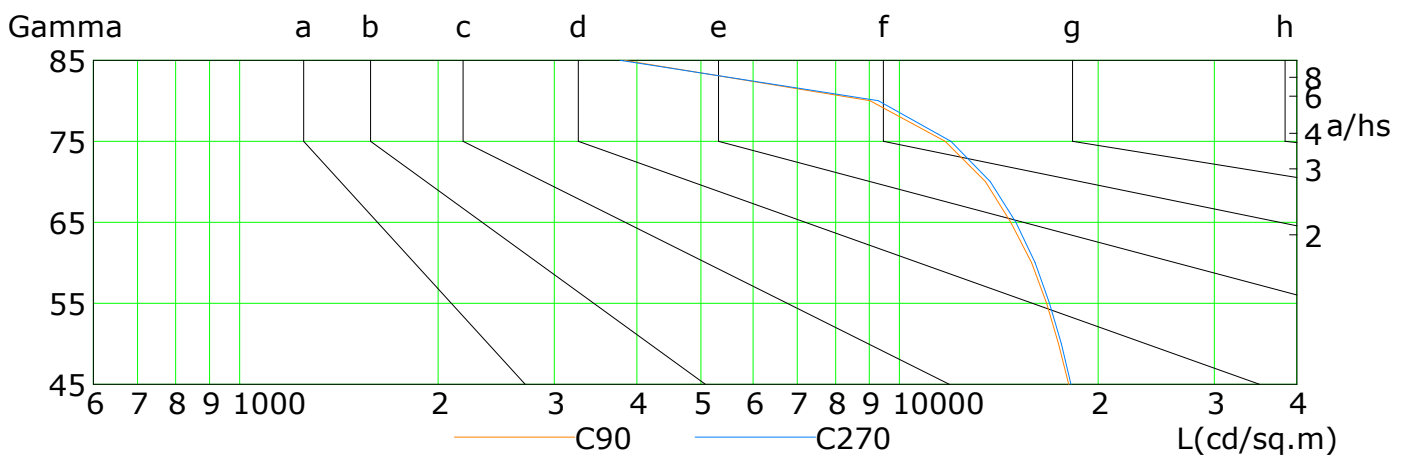
Humidity:

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	7546	6617	5745	4884	4015	3160	2309	1482	699
C90	18056	17422	16703	15862	14749	13492	11730	9020	3831
C180	7444	6528	5638	4772	3899	3037	2186	1366	597
C270	18196	17588	16881	16046	15017	13721	11961	9286	3776

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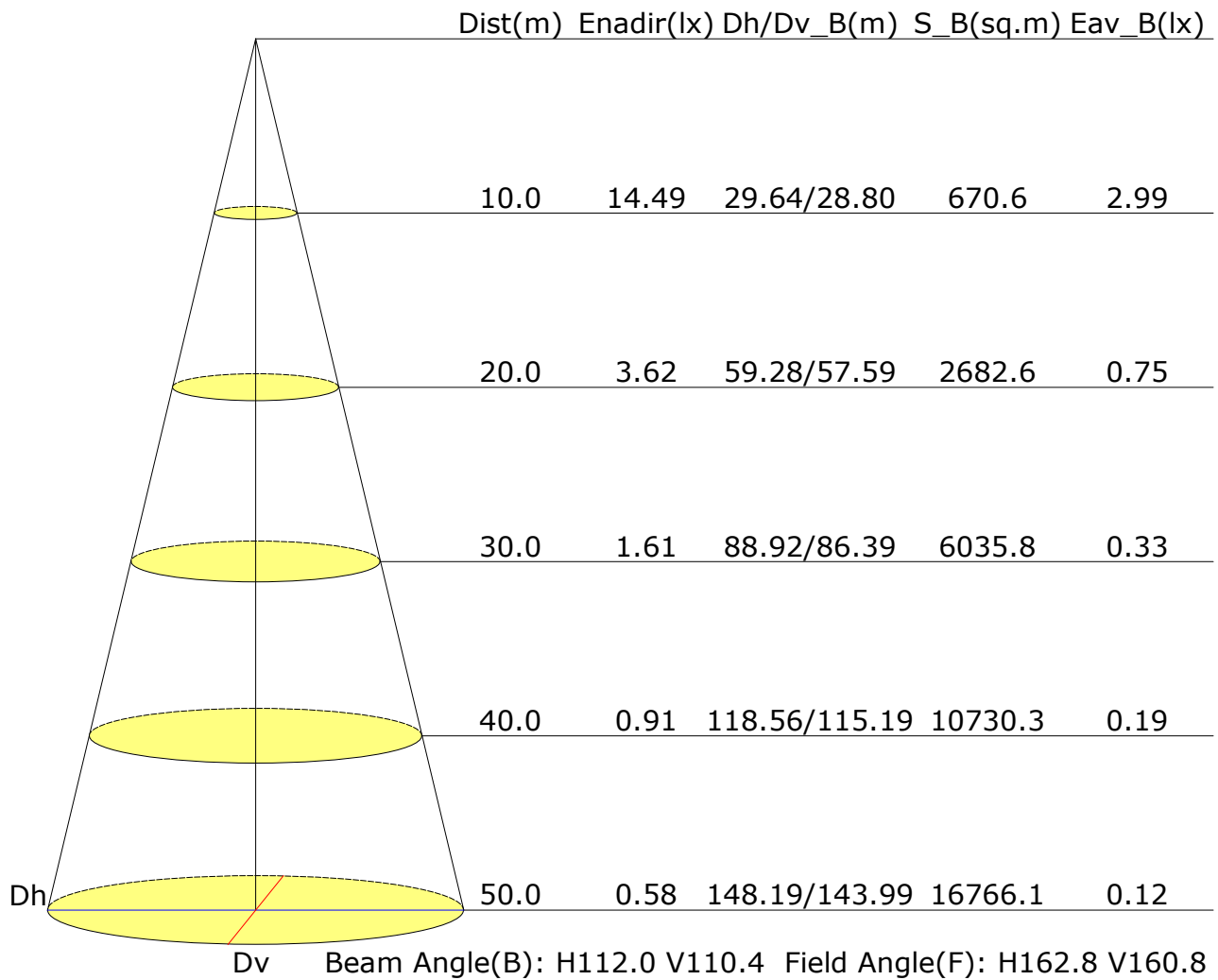
Test Device: LSG-1800B

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: