

Report No.: 42

Test Time: 18.12.2017 10:17

Luminaire Property

Luminaire Manufacturer: FAROS

Lamp Description: FG 50 25x4LED 0,35A 45W 4000K

Luminous Length (mm): 1245

Voltage: 231.2 V

Power: 43.66 W

Luminous Width (mm): 55

Current: 0.192 A

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Measurement Flux: 3654.4 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.8, 160.9, 161.9, 161.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.0, 110.6, 111.3, 111.3

Luminaire Efficacy Rating (LER): 83.75

Max. Intensity: 1292.87 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 3654.4 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 1291.82 cd

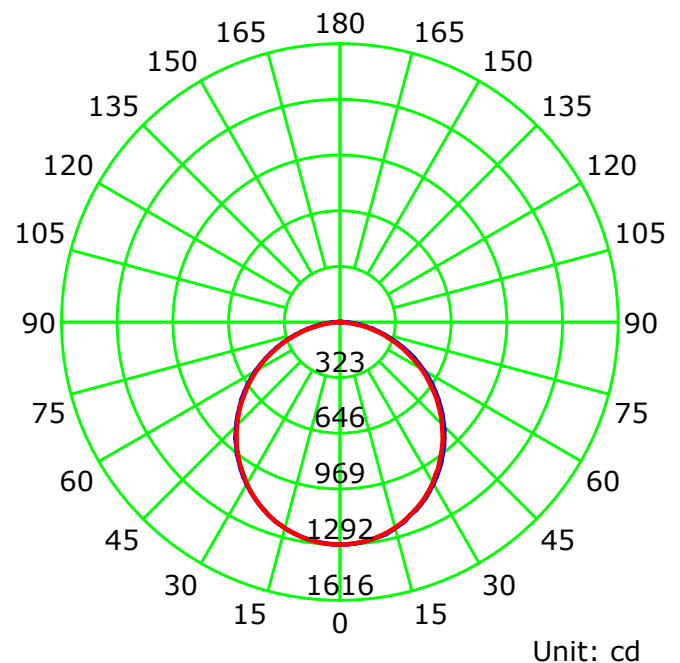
Pos of Max. Intensity: H90 V0

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

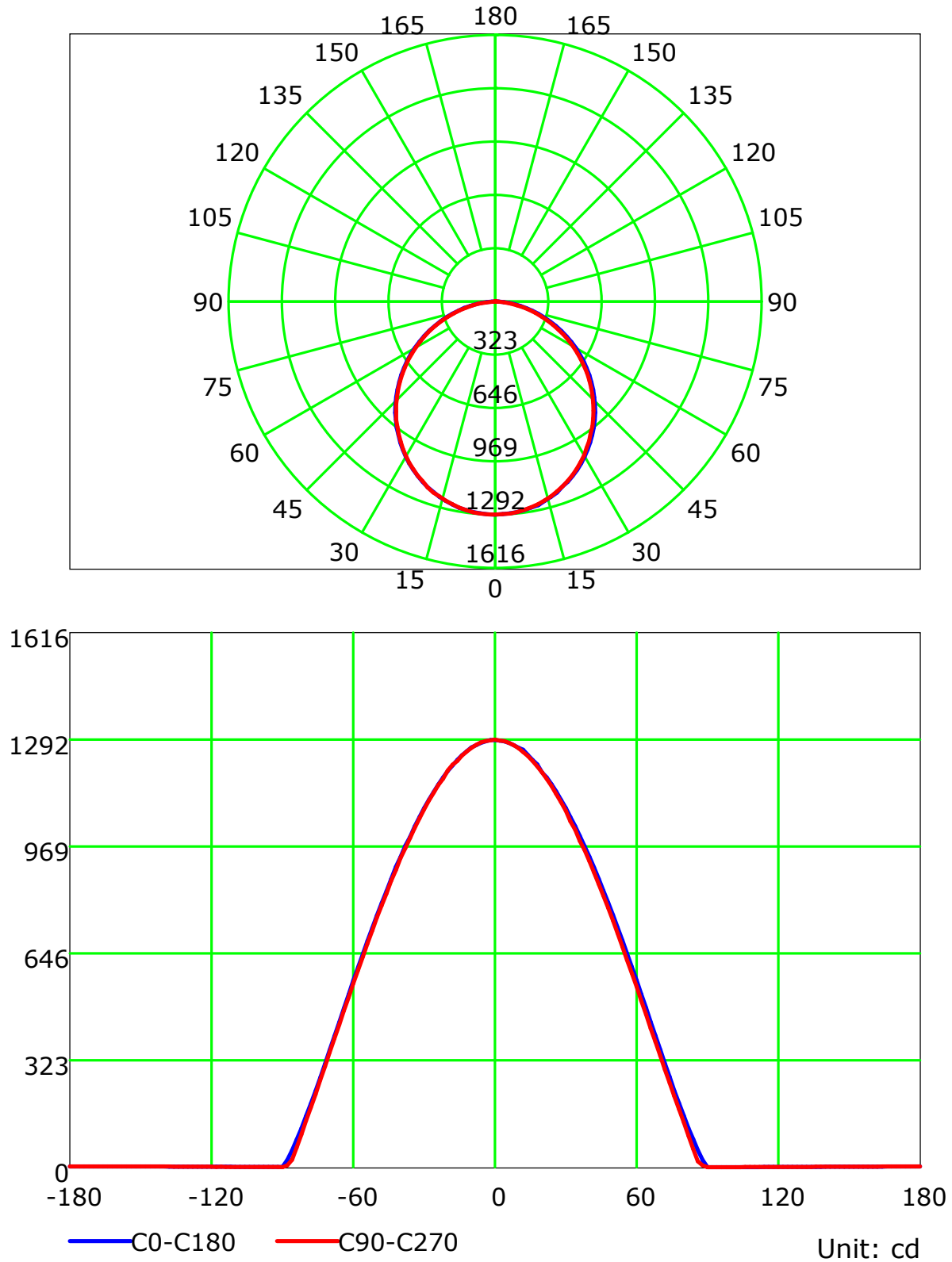
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

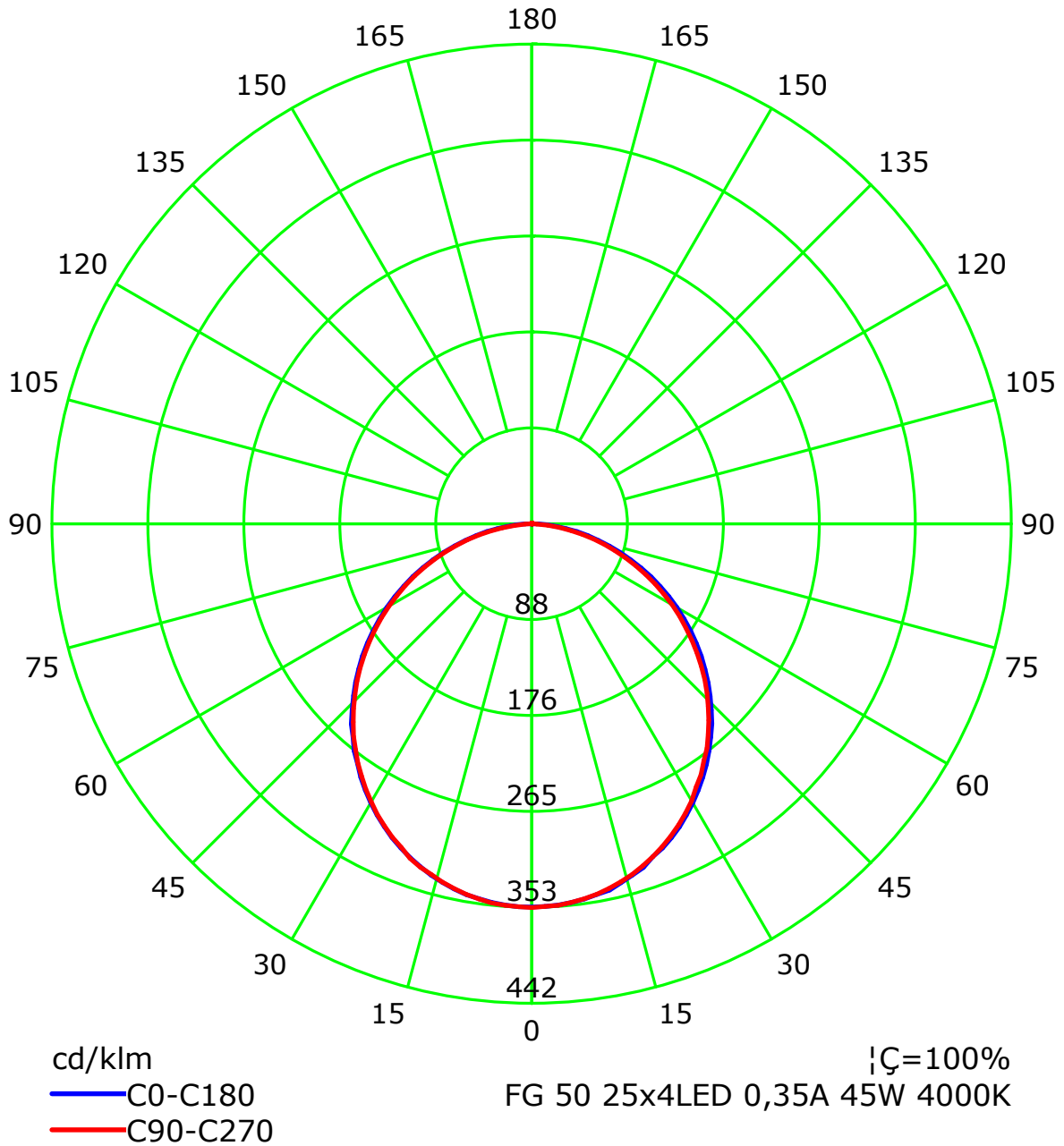
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(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

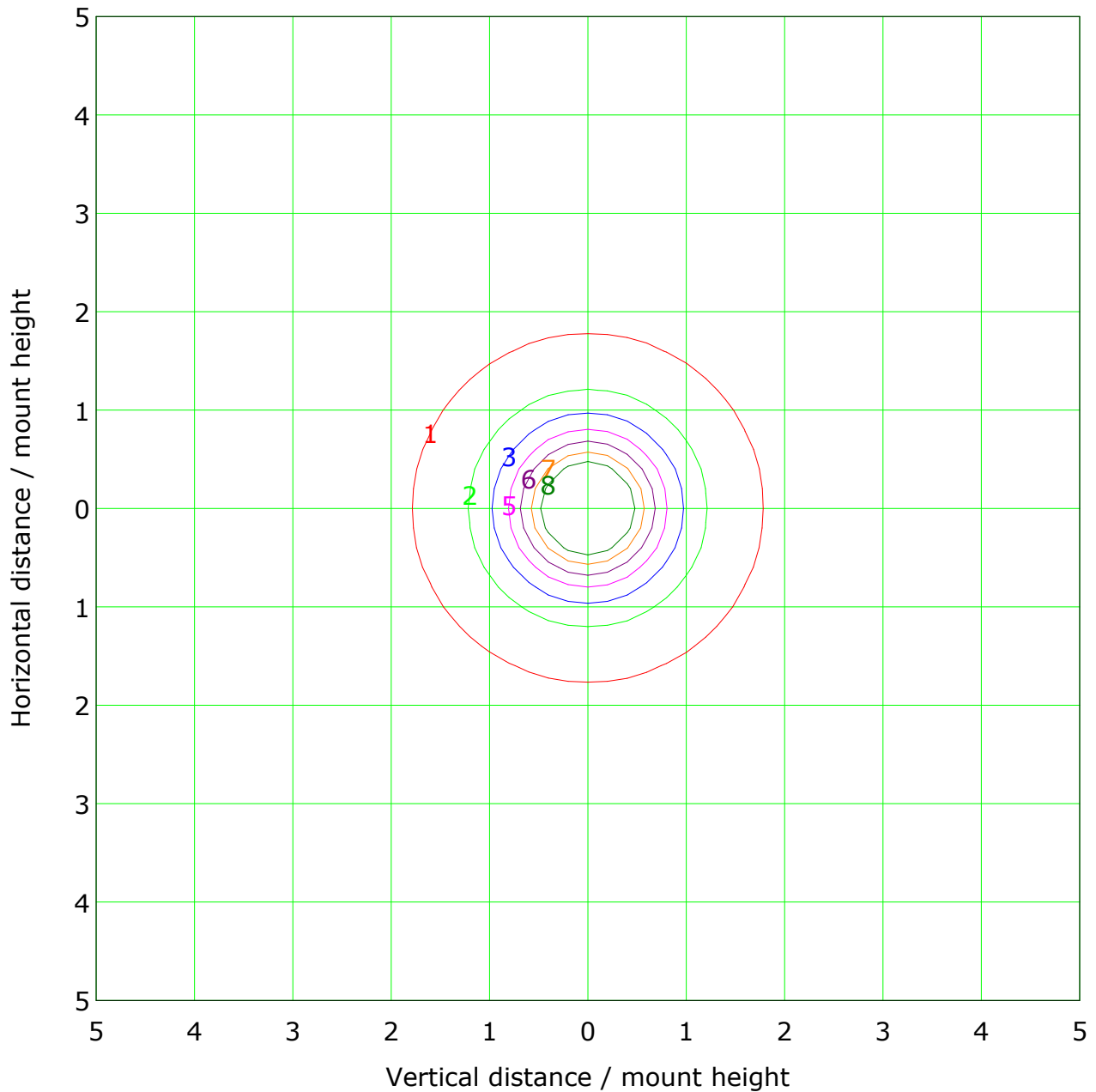
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 12.9 lx	
(5%):	0.6 lx	(15%):	1.9 lx
(25%):	3.2 lx	(35%):	4.5 lx
(45%):	5.8 lx	(55%):	7.1 lx
(65%):	8.4 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: 12.606 m

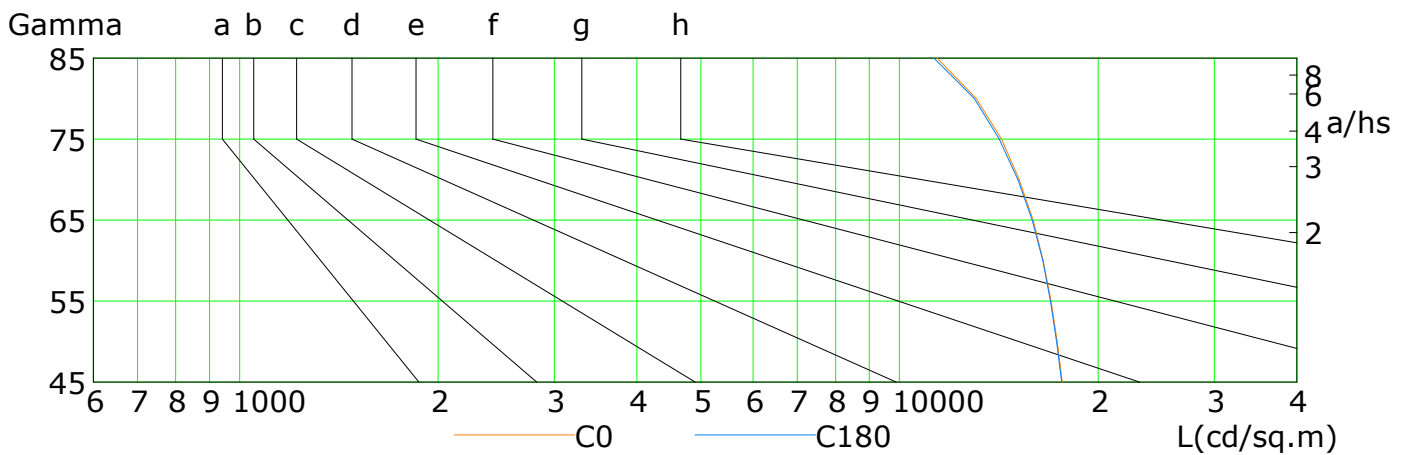
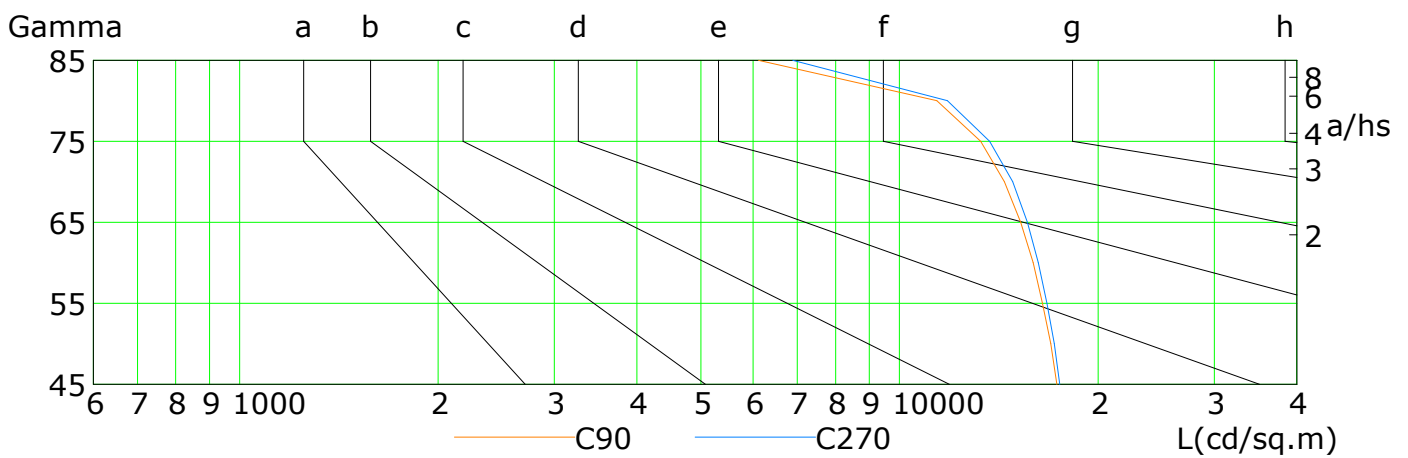
Humidity:

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	17643	17334	16967	16509	15941	15183	14272	13072	11409
C90	17317	16949	16476	15950	15260	14416	13270	11390	6114
C180	17615	17296	16933	16482	15883	15118	14170	12982	11280
C270	17485	17154	16726	16228	15634	14836	13703	11823	6888

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

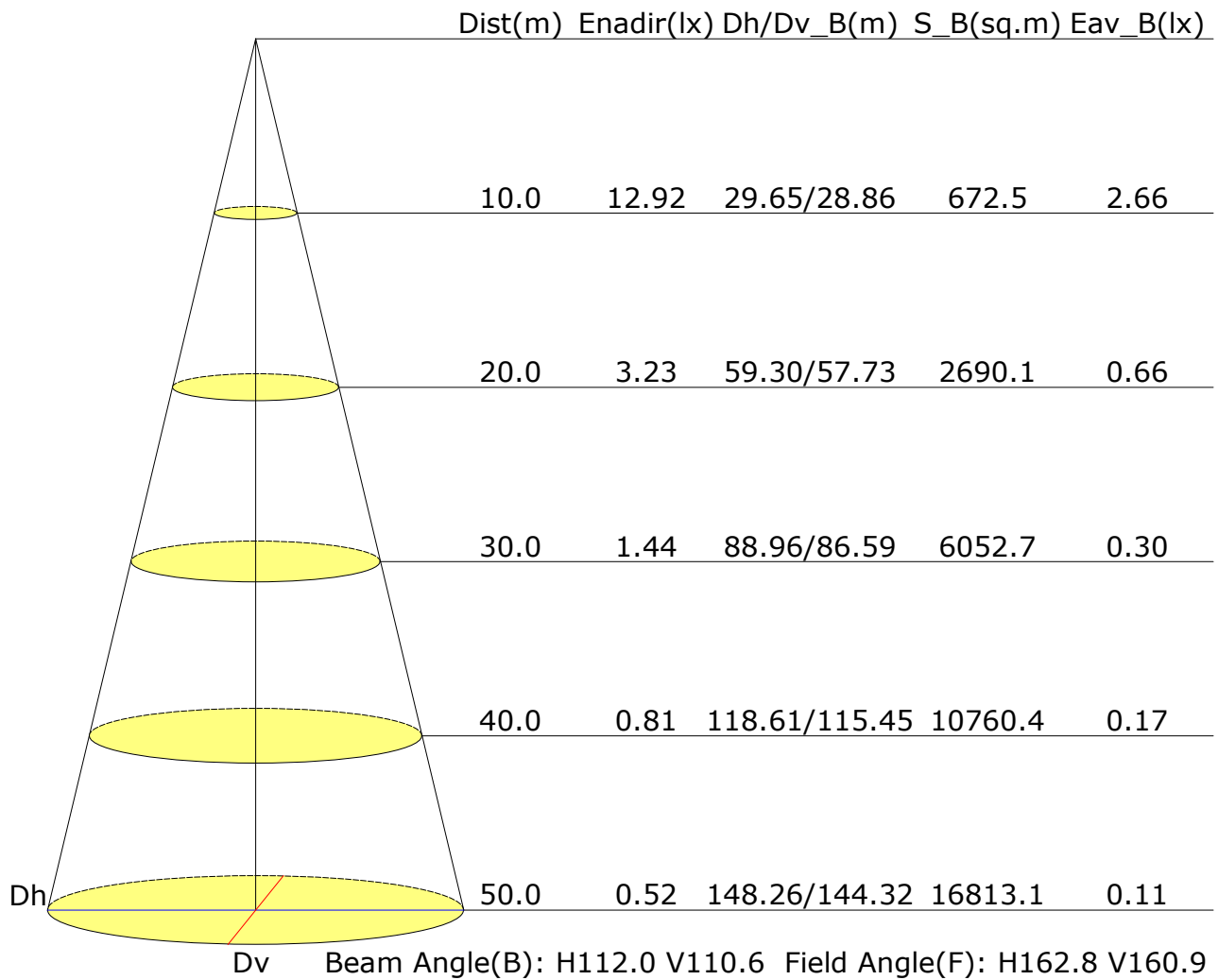
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

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: