

Report No.: 1

Test Time: 01.04.2019 13:11

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FT 91 30W 5000K 16°

Lamp Description: LED

Luminous Width (mm): -91

Voltage: 220.7 V

Power: 27.89 W

Luminous Length (mm): -91

Luminous Height (mm): 210

Current: 0.131 A

Power Factor: 0.962

Photometric Results

CIE Class: Direct

Measurement Flux: 2242 lm

Downward Ratio: 93%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 40.8, 41.0, 40.6, 41.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 25.3, 25.5, 25.2, 25.4

Luminaire Efficacy Rating (LER): 80.44

Max. Intensity: 8335.66 cd

S/MH(C0/C180): 0.43

Total Rated Lamp Lumens: 2242.0 lm

Efficiency: 100%

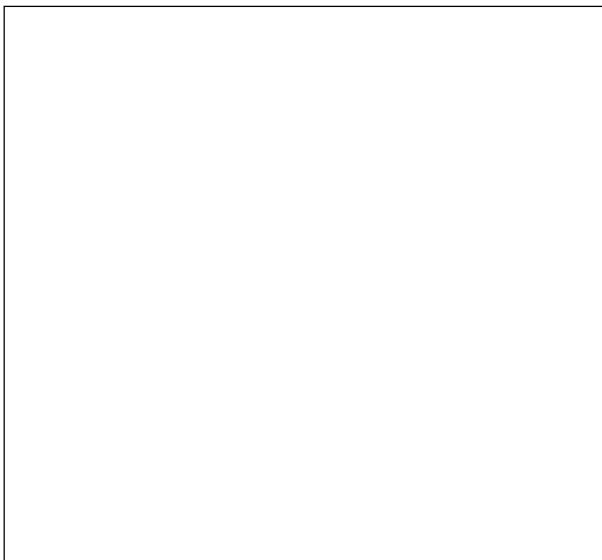
Upward Ratio: 7%

Central Intensity: 8297.36 cd

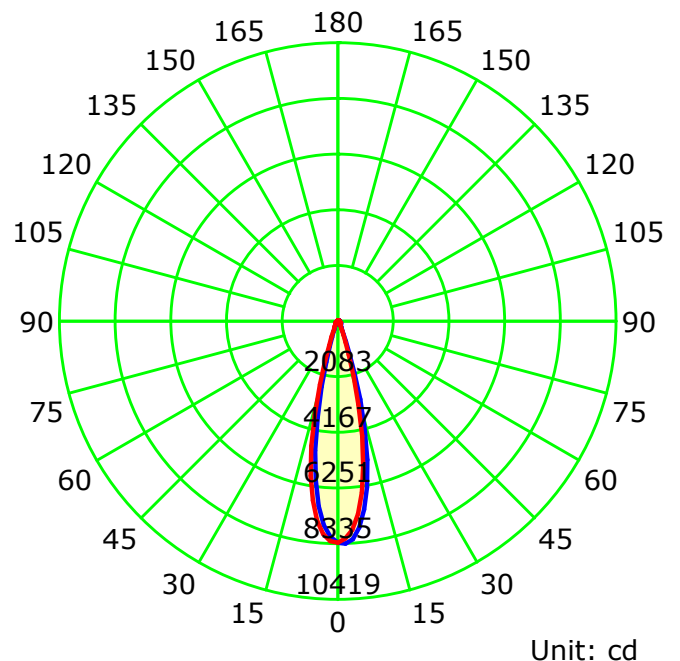
Pos of Max. Intensity: H0 V2

S/MH(C90/C270): 0.43

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

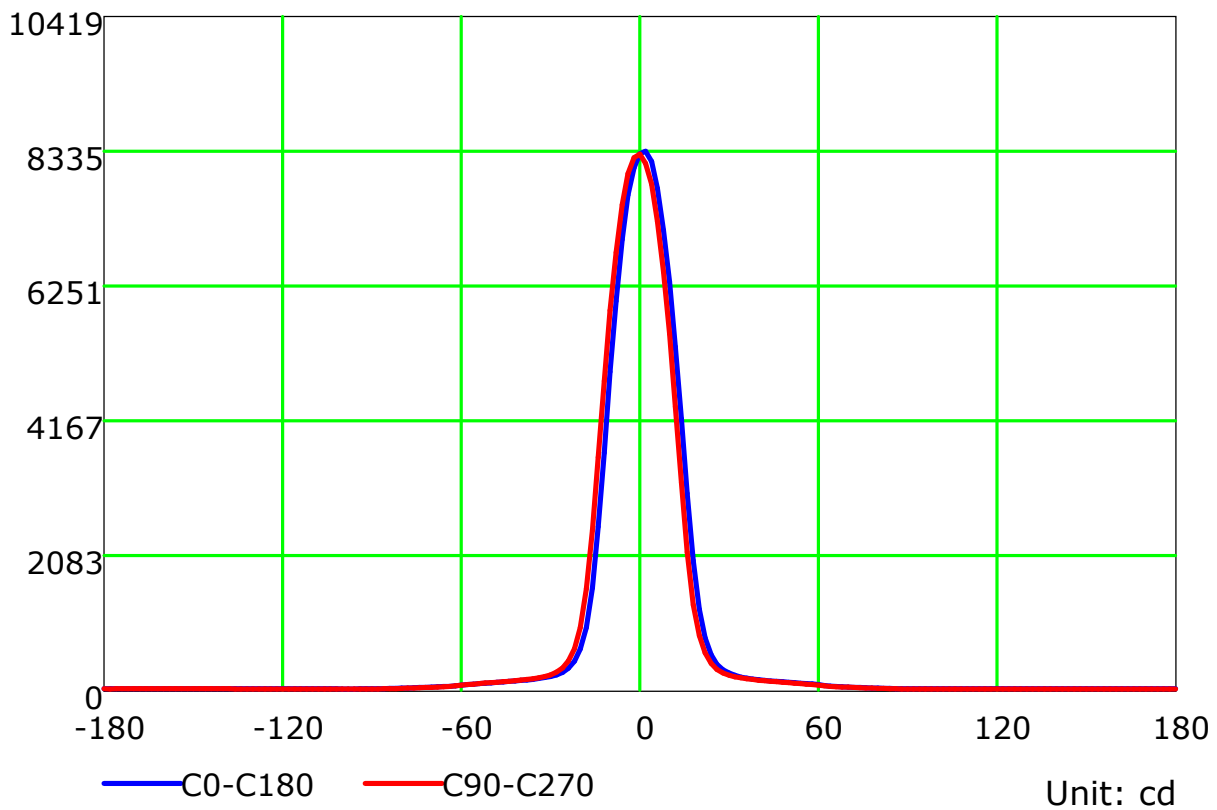
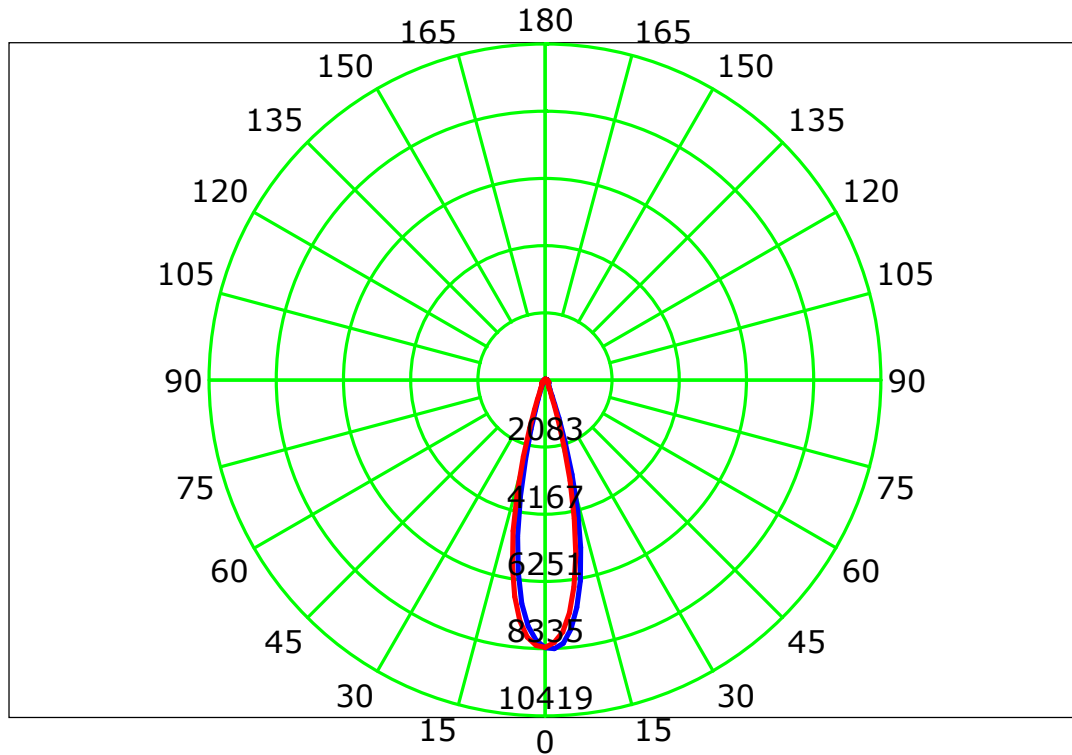
Test Device: LSG-1800B

Distance: 12.654 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

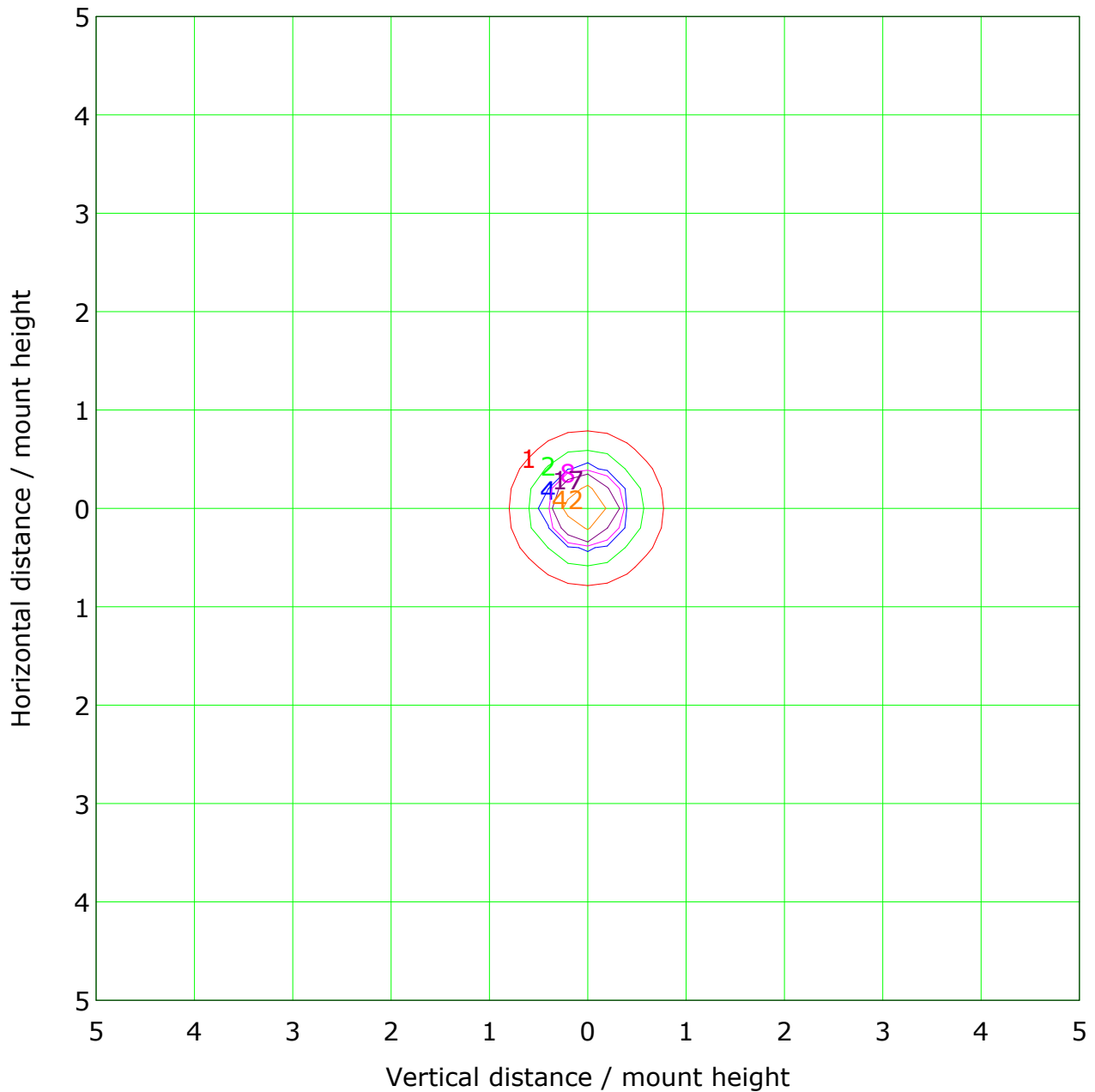
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 83.2 lx

(1%): 0.8 lx	(2%): 1.7 lx
(5%): 4.2 lx	(10%): 8.3 lx
(20%): 16.6 lx	(50%): 41.6 lx
(100%): 83.2 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

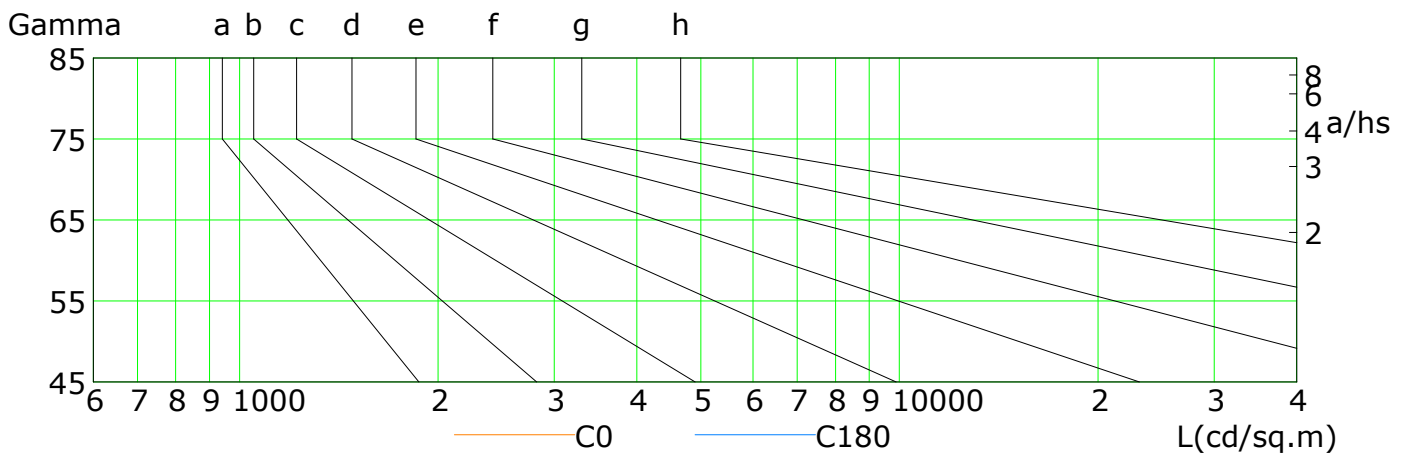
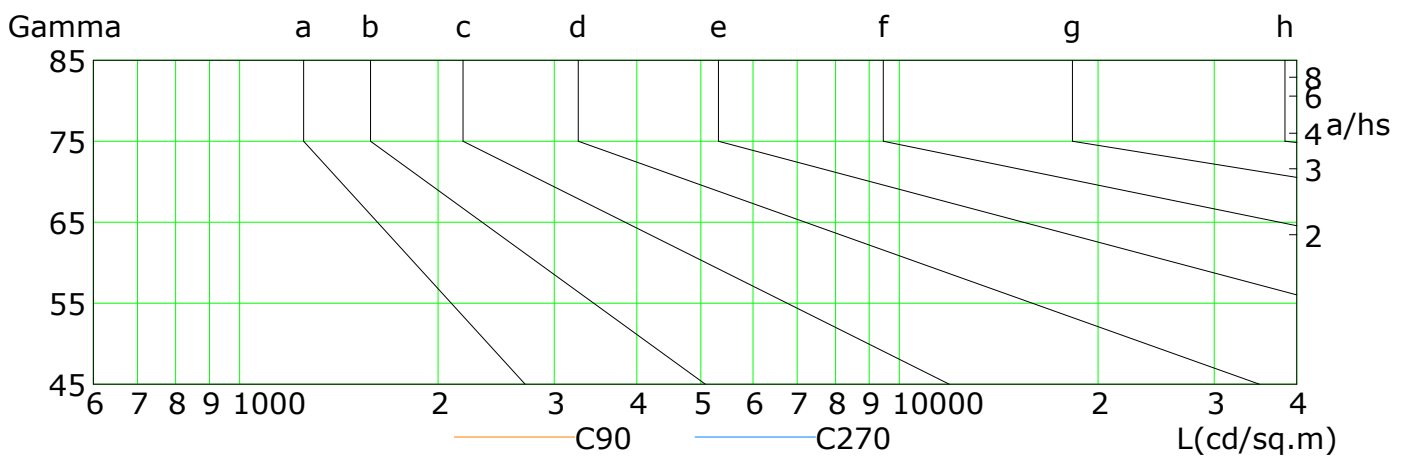
Humidity:

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	145	128	110	89	62	53	43	36	30
C90	138	120	102	83	60	50	40	33	28
C180	135	119	101	81	62	53	44	36	30
C270	139	121	103	80	59	48	39	32	26

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

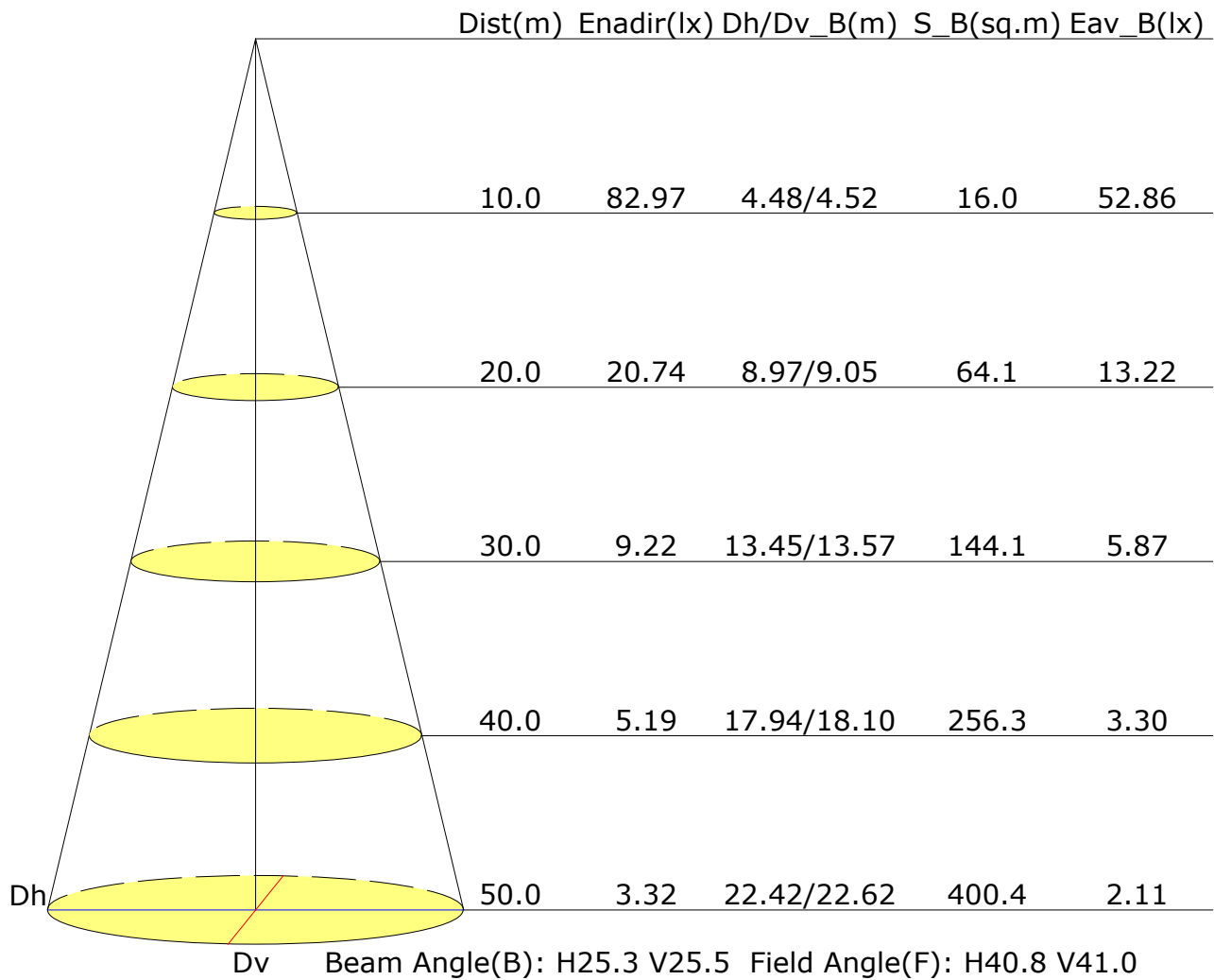
Test Device: LSG-1800B

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: