

Report No.: 2

Test Time: 16.03.2018 15:14

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FD 111 154LED 100W 5000K 90 Degrees lense

Lamp Description: LED

Luminous Diameter (mm): 260

Luminous High (mm): 178

Voltage: 231.3 V

Current: 0.439 A

Power: 100.18 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 11633.1 lm

Measurement Flux: 11633.1 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 129.6, 129.2, 138.2, 138.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 77.3, 77.4, 77.4, 77.8

Luminaire Efficacy Rating (LER): 116.17

Central Intensity: 5453.99 cd

Max. Intensity: 6694.88 cd

Pos of Max. Intensity: H22.5 V22

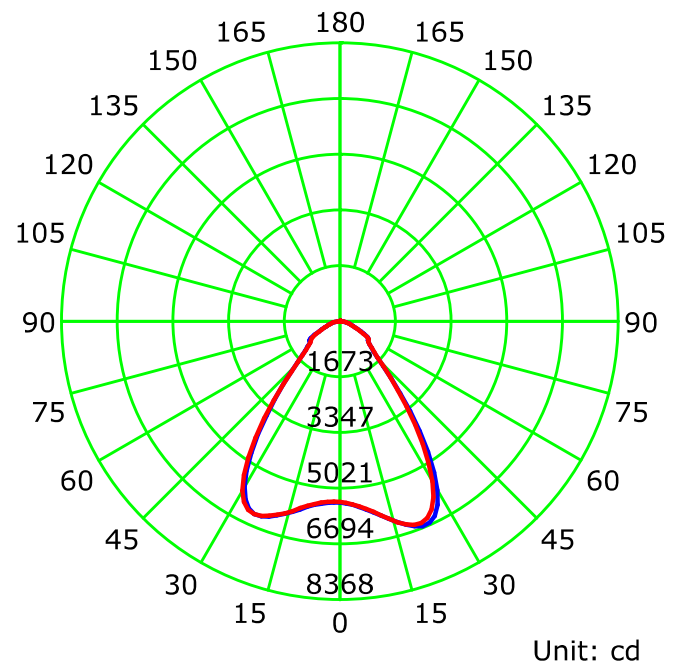
S/MH(C0/C180): 1.35

S/MH(C90/C270): 1.34

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

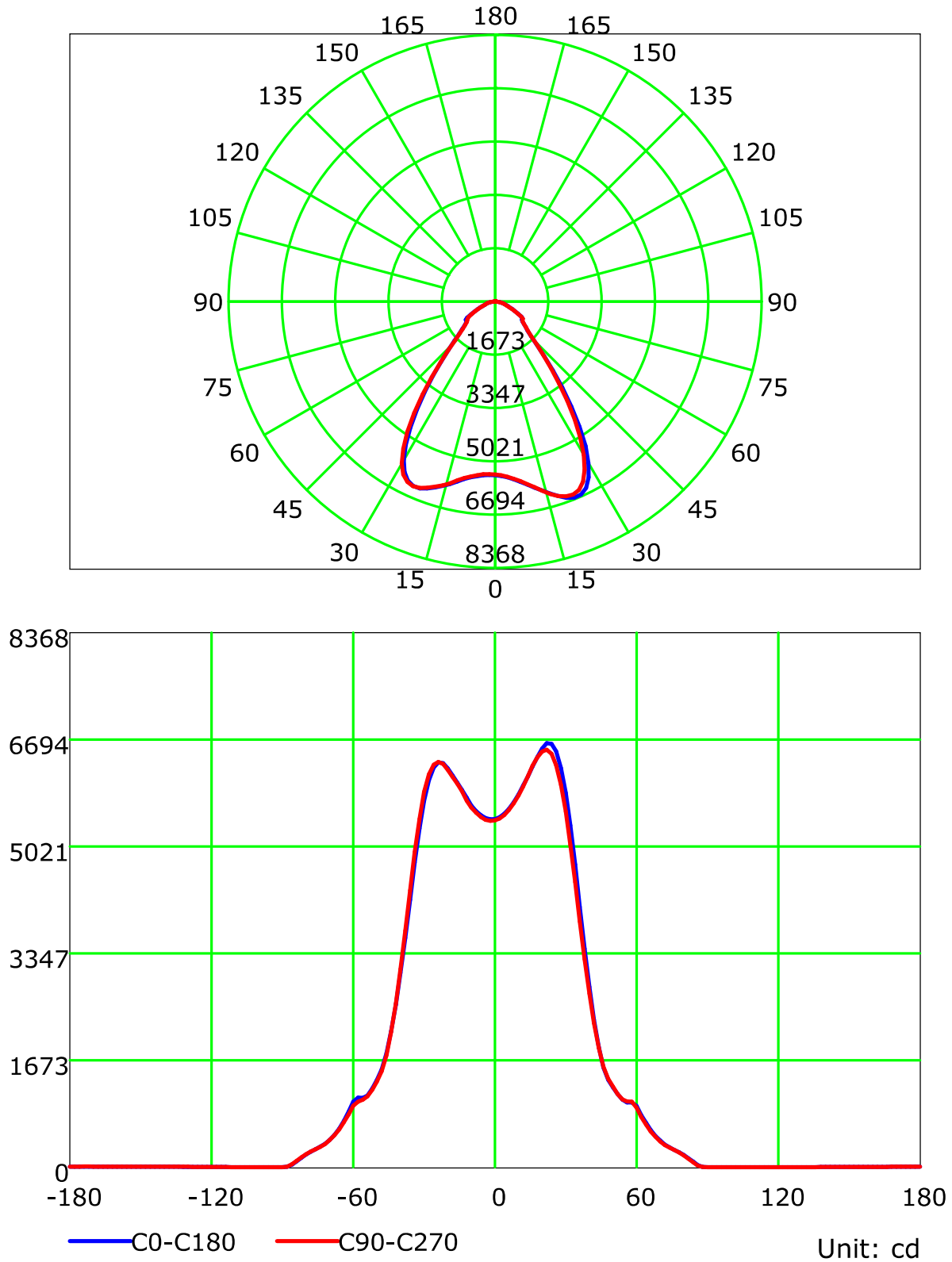
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

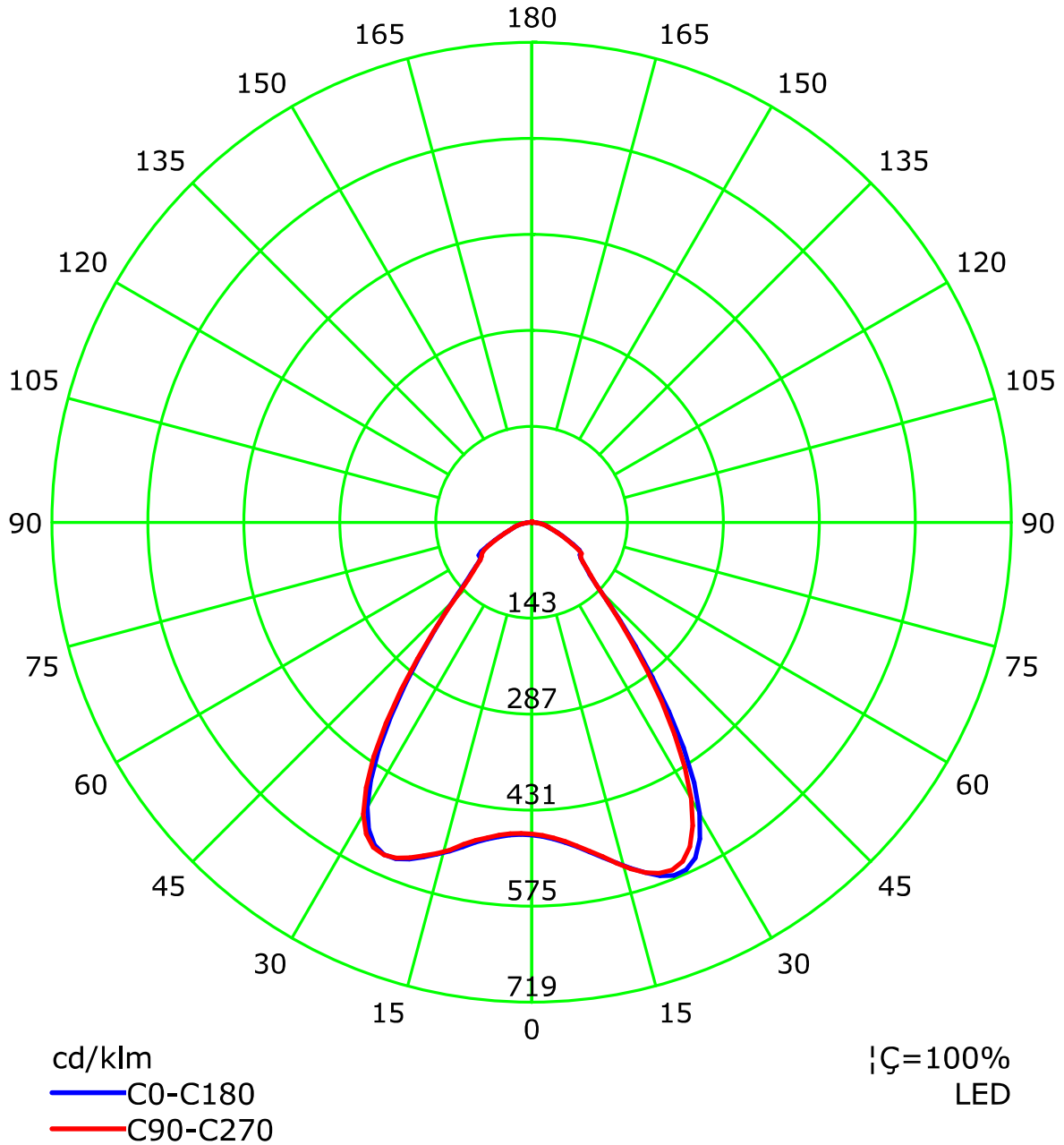
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(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

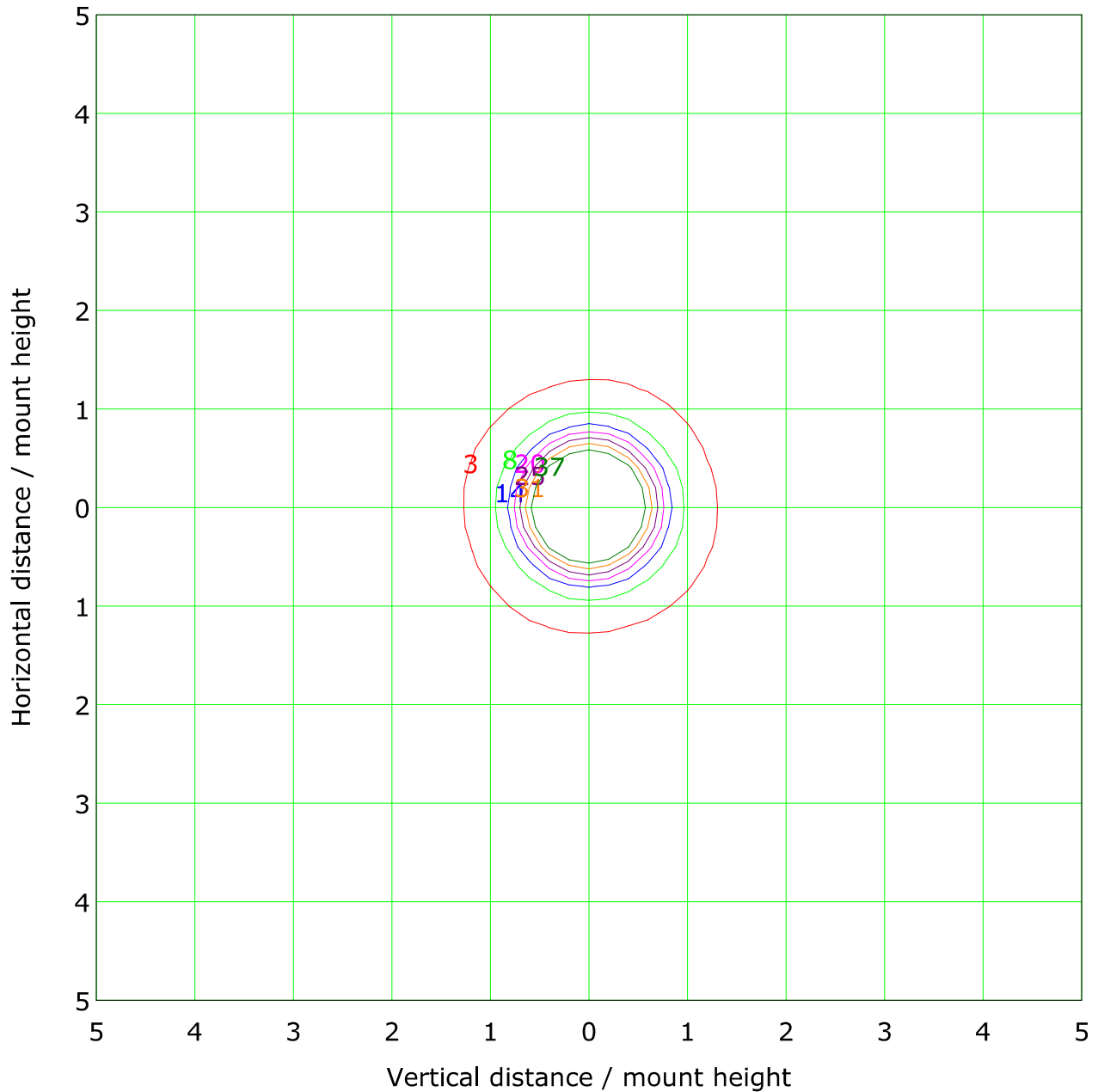
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 56.6 lx	
(5%): 2.8 lx	(15%): 8.5 lx
(25%): 14.2 lx	(35%): 19.8 lx
(45%): 25.5 lx	(55%): 31.1 lx
(65%): 36.8 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

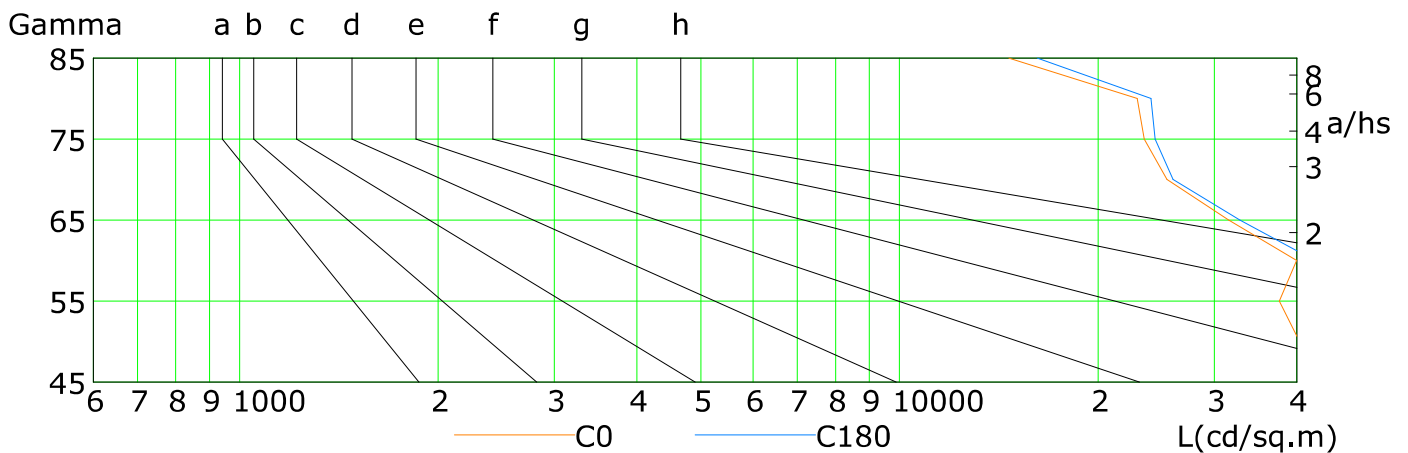
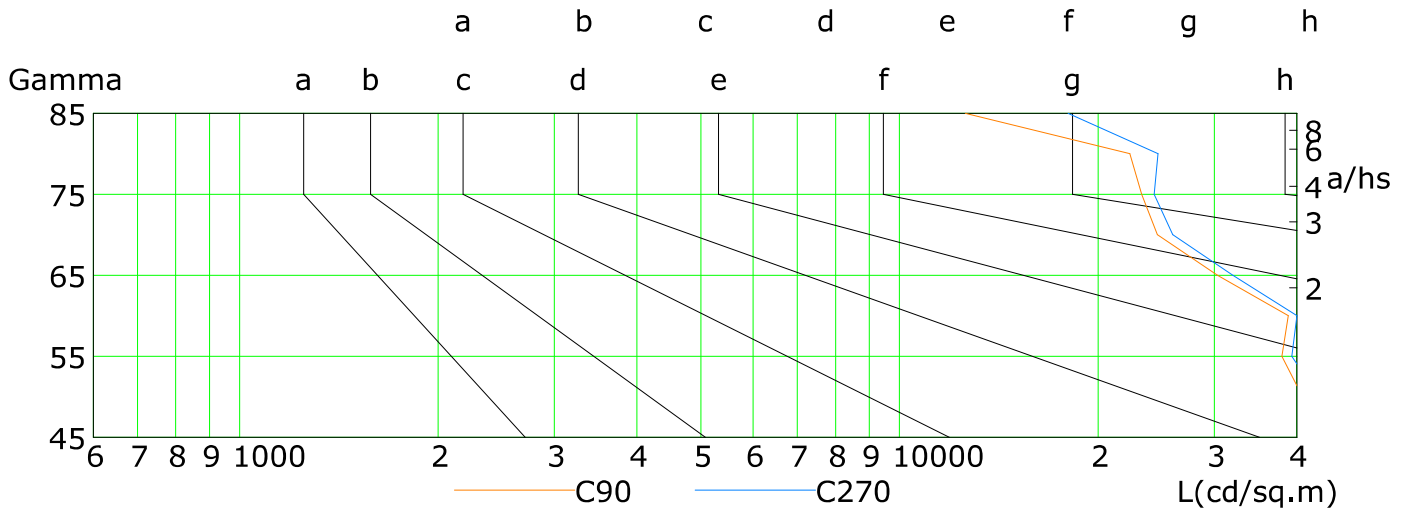
Distance: 12.654 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	50666	40383	37640	39981	31563	25424	23492	22930	14649
C90	50695	40832	37966	38812	30347	24587	23287	22329	12576
C180	57581	44130	40076	42672	32805	25984	24406	24060	16179
C270	56926	43345	39321	40010	32005	25934	24312	24647	18000

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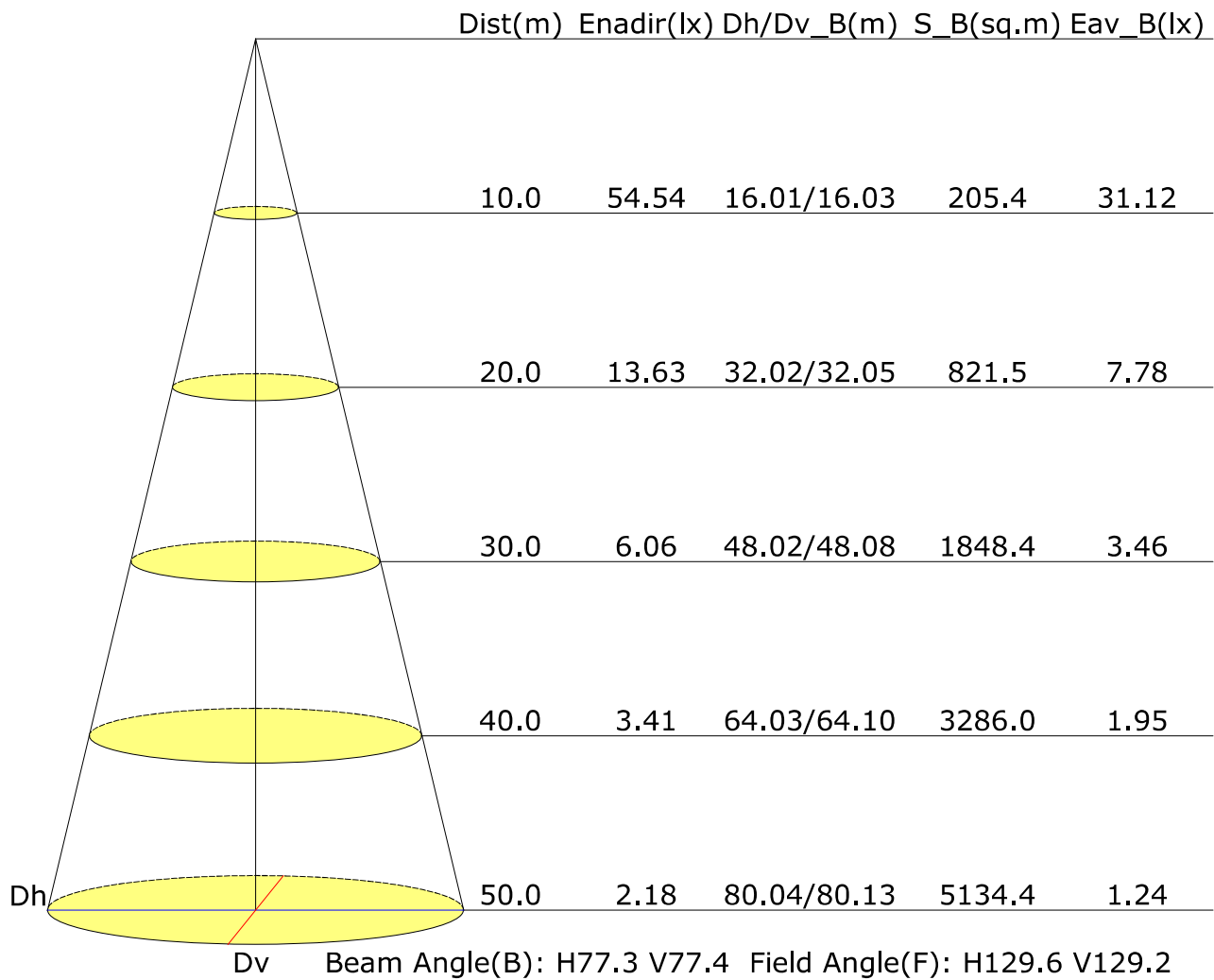
Test Device: LSG-1800B

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: