

Report No.: 1

Test Time: 30.03.2019 13:42

## Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FT 91 20W 5000K 16-60 Degrees

Lamp Description: LED

Luminous Width (mm): -91

Voltage: 221.4 V

Power: 20.18 W

Luminous Length (mm): -91

Luminous Height (mm): 250

Current: 0.095 A

Power Factor: 0.958

## Photometric Results

CIE Class: Direct

Measurement Flux: 2209.7 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.2, 100.3, 100.5, 100.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 79.3, 79.5, 79.3, 79.2

Luminaire Efficacy Rating (LER): 109.55

Max. Intensity: 1459.52 cd

S/MH(C0/C180): 1.17

Total Rated Lamp Lumens: 2209.7 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 1456.85 cd

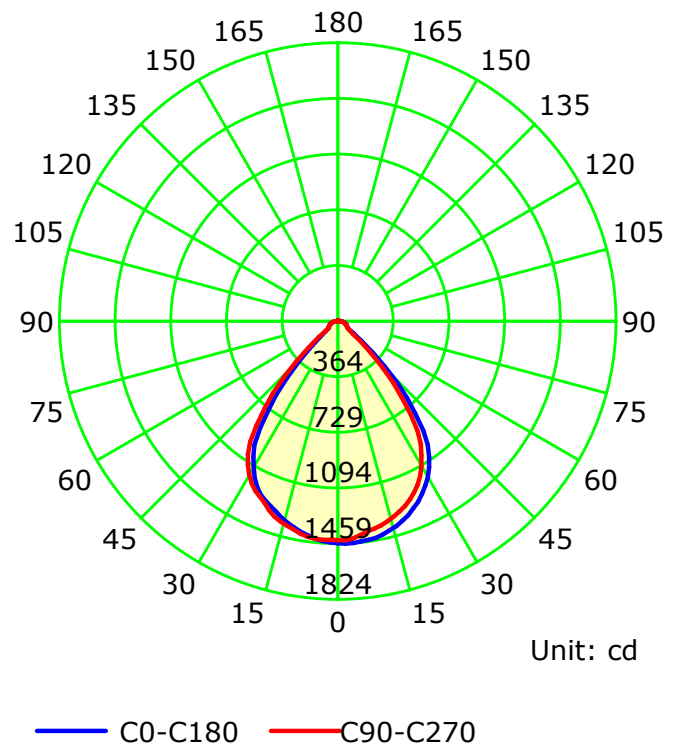
Pos of Max. Intensity: H0 V2

S/MH(C90/C270): 1.17

Picture Of Luminaire



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

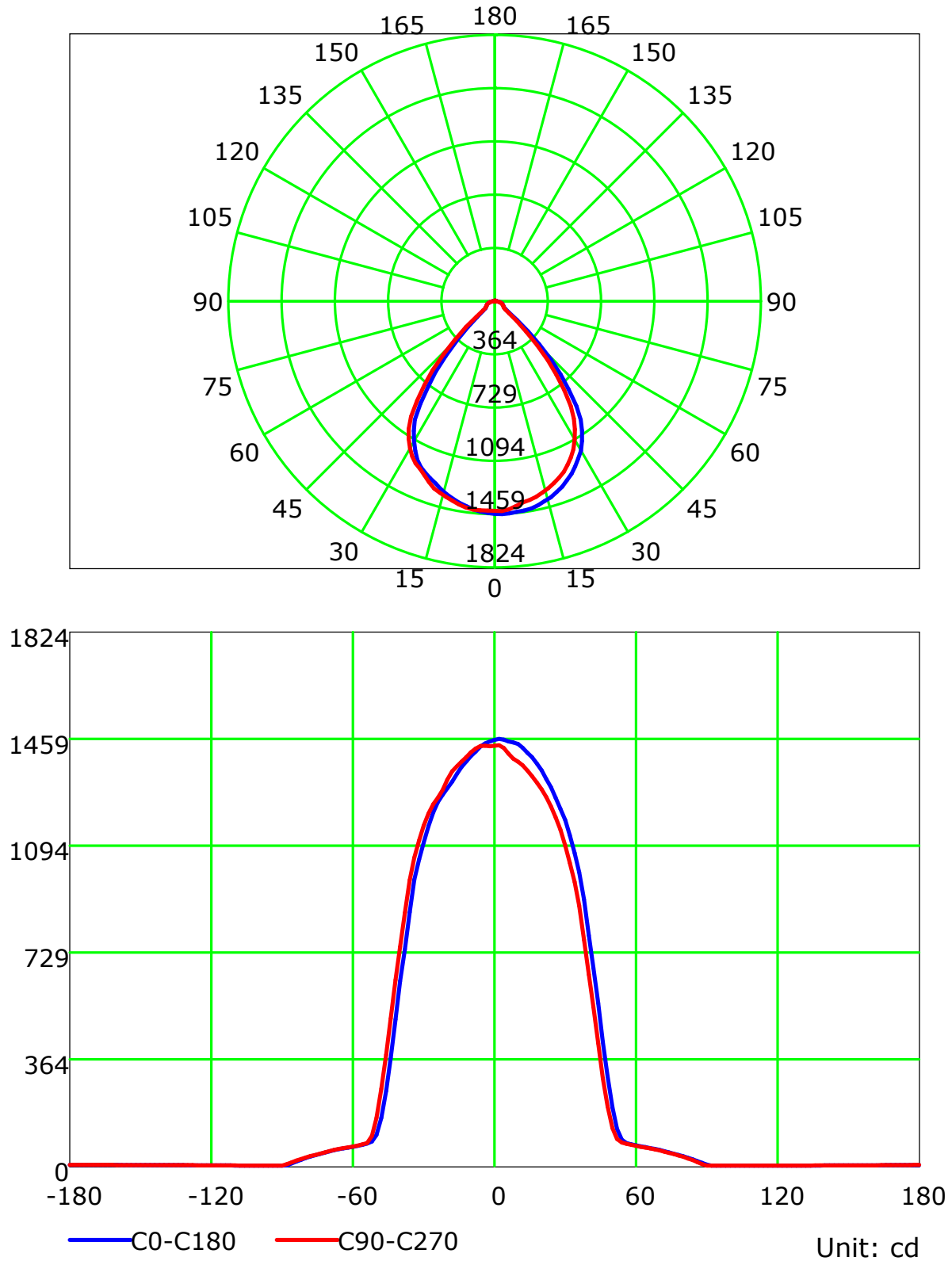
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve



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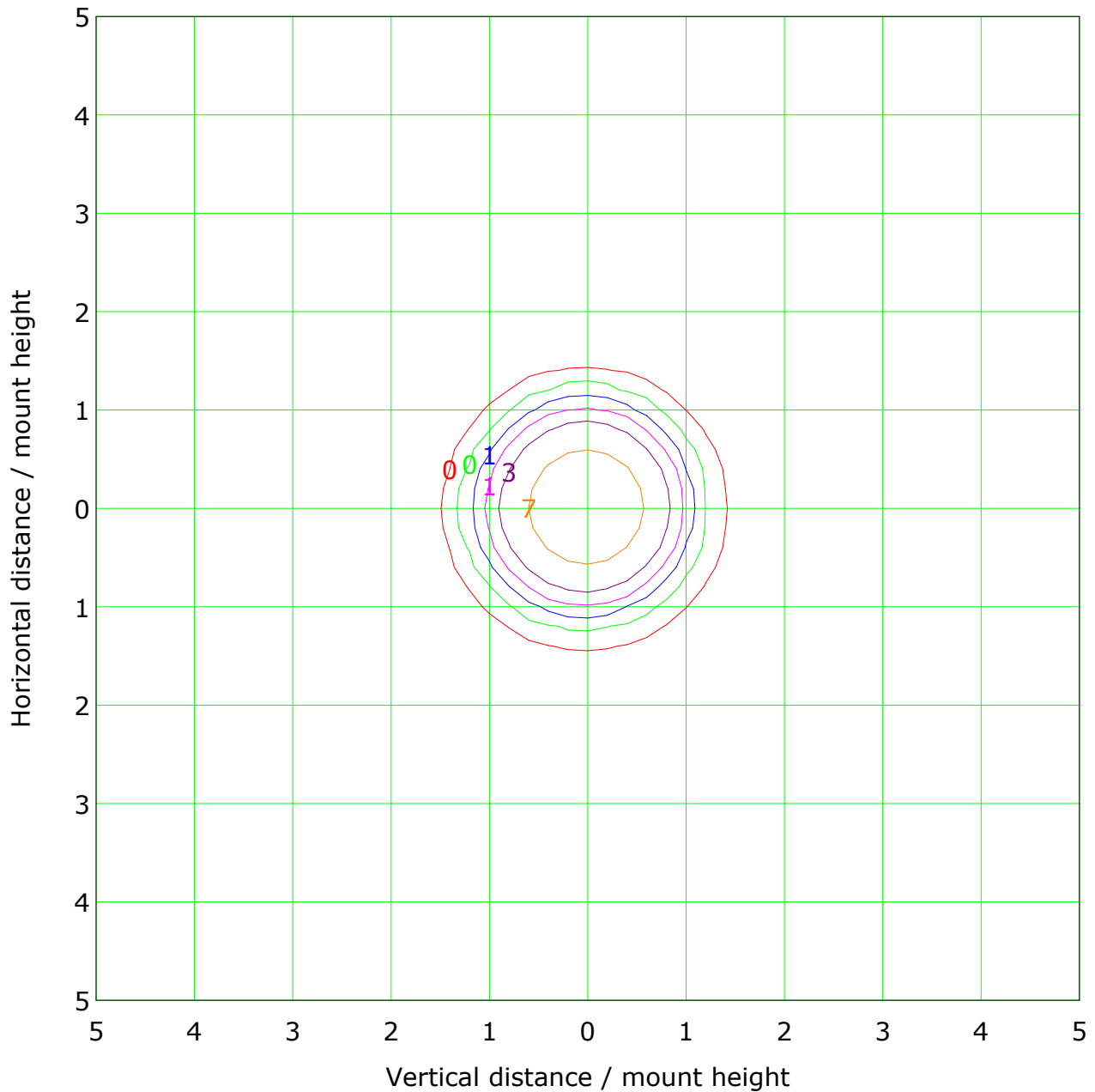
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Distance: 12.654 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 14.6 lx

( 1%): 0.1 lx	( 2%): 0.3 lx
( 5%): 0.7 lx	( 10%): 1.5 lx
( 20%): 2.9 lx	( 50%): 7.3 lx
(100%): 14.6 lx	

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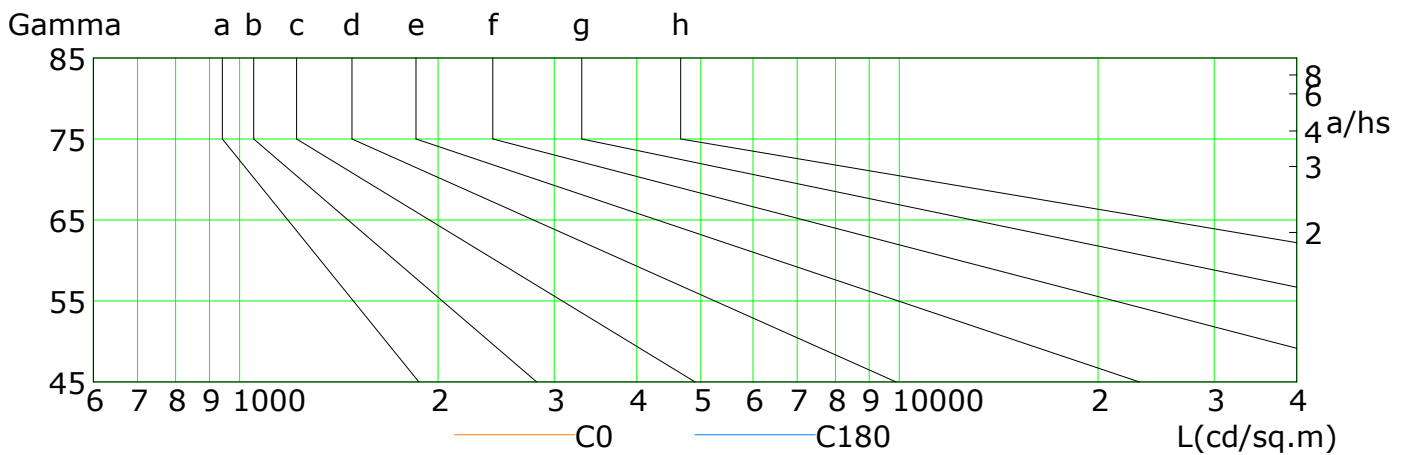
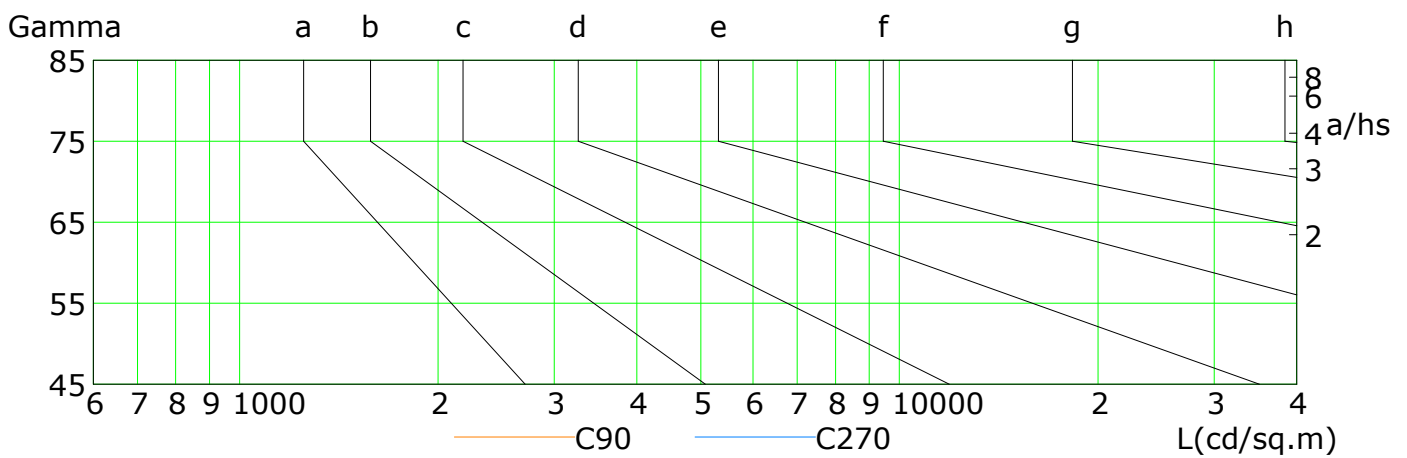
Humidity:

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	491	201	85	72	64	56	45	34	21
C90	361	131	79	70	62	54	44	32	18
C180	313	107	75	67	60	51	40	28	13
C270	443	165	77	67	60	51	41	30	16

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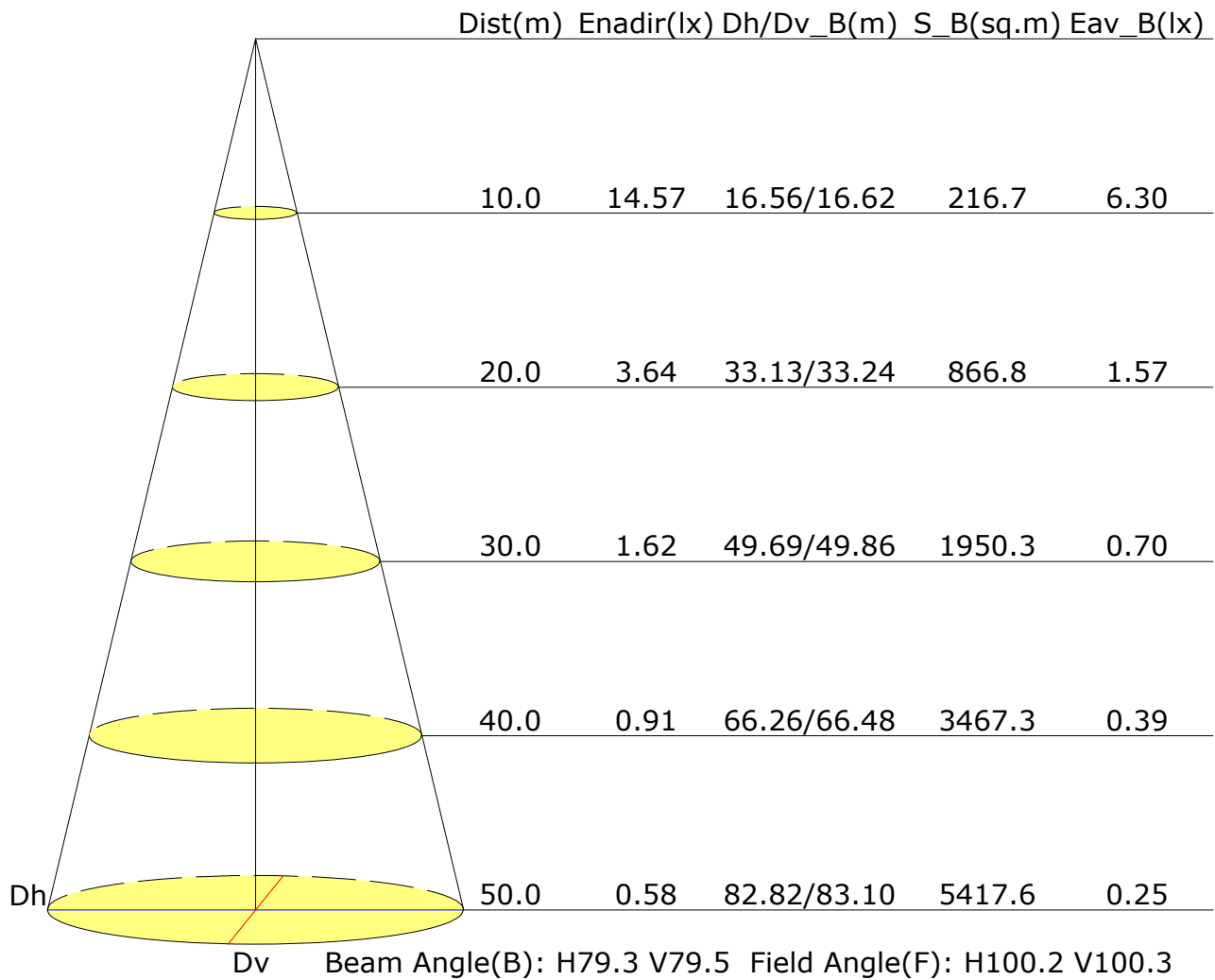
Test Device: LSG-1800B

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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: