

Report No.: 1

Test Time: 12.11.2019 11:02

## Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FI 130 15W 6500K IP65 mw-sensor

Number of Lamps: 1

Luminous Length (mm): 135 mm

Luminous Height (mm): 50 mm

Current: 0.132 A

Power Factor: 0.515

Lumens per Lamp: 1300.5 lm

Luminous Width (mm): 135 mm

Voltage: 221.7 V

Power: 15.25 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 1299.9 lm

Downward Ratio: 93.48%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 189.1, 182.3, 185.5, 186.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 118.0, 117.8, 117.8, 118.1

Luminaire Efficacy Rating (LER): 85.29

Max. Intensity: 384.78 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 1300.5 lm

Efficiency: 99.95%

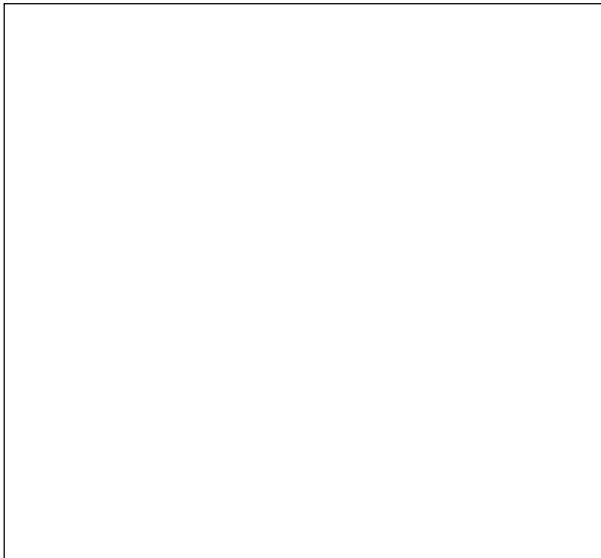
Upward Ratio: 6.48%

Central Intensity: 384.69 cd

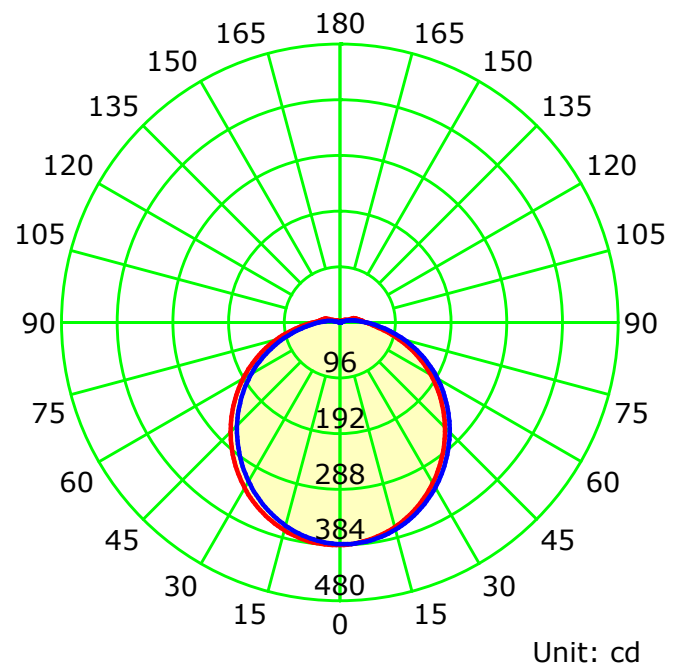
Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 1.26

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 (°):0.0-180.0:1.0

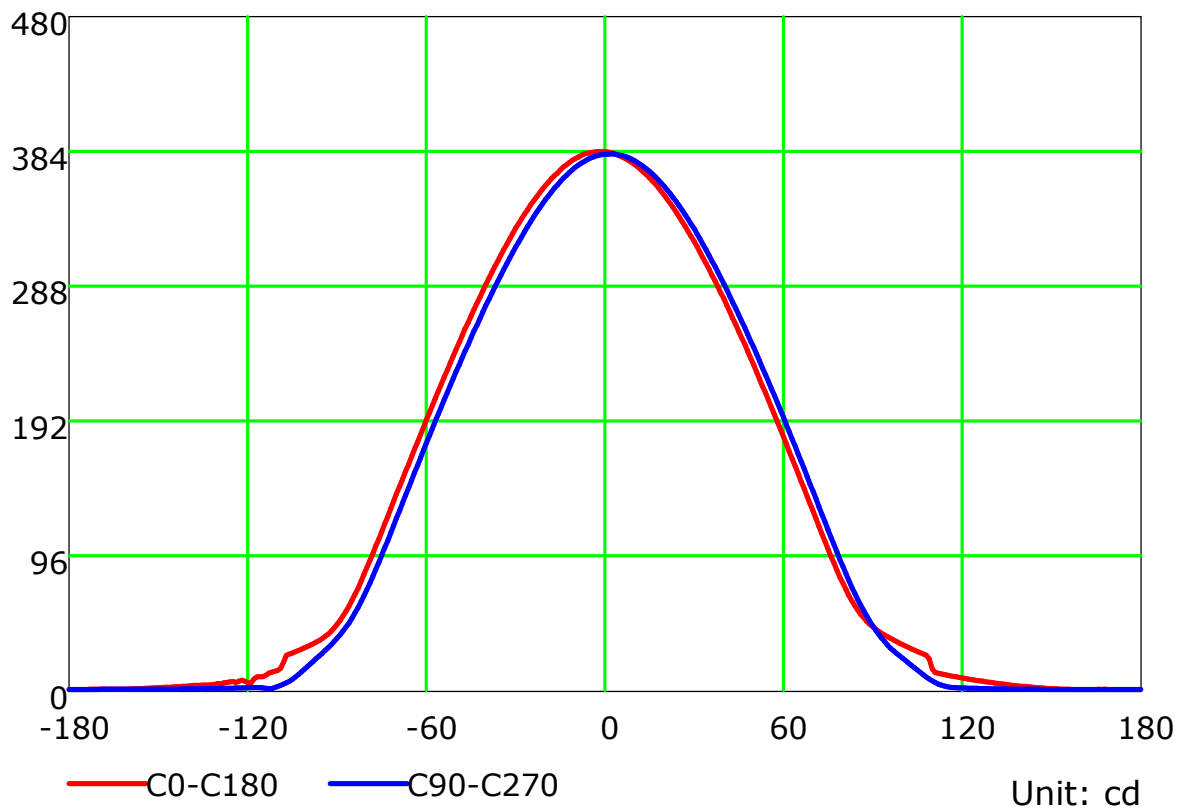
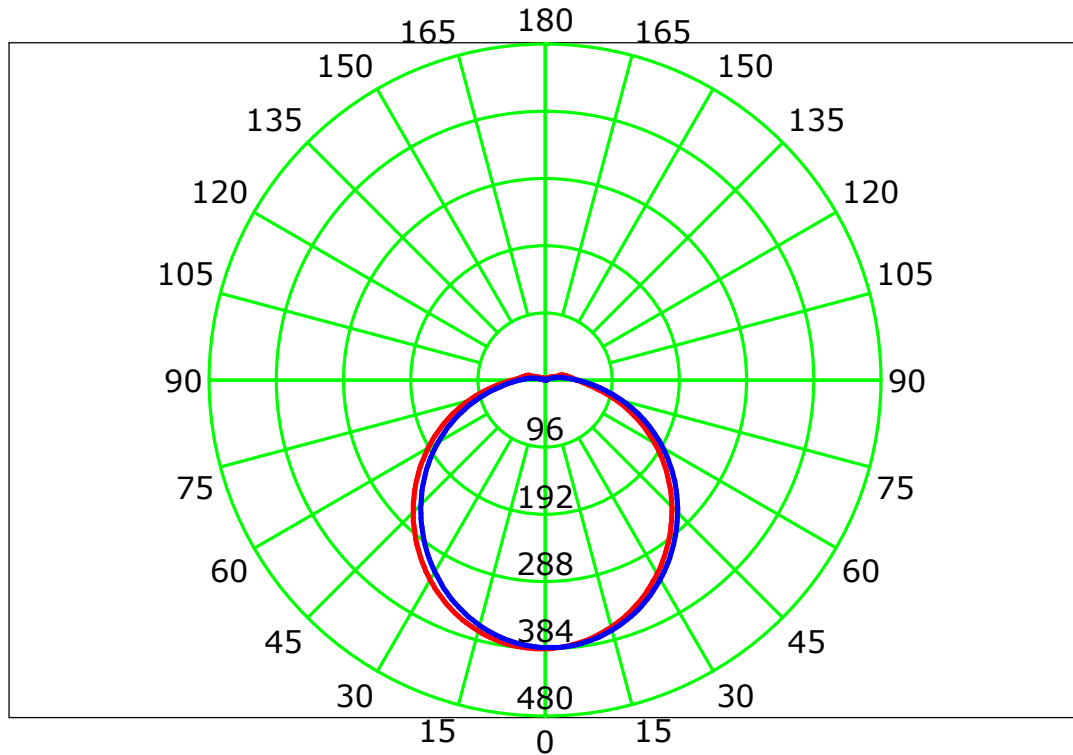
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve



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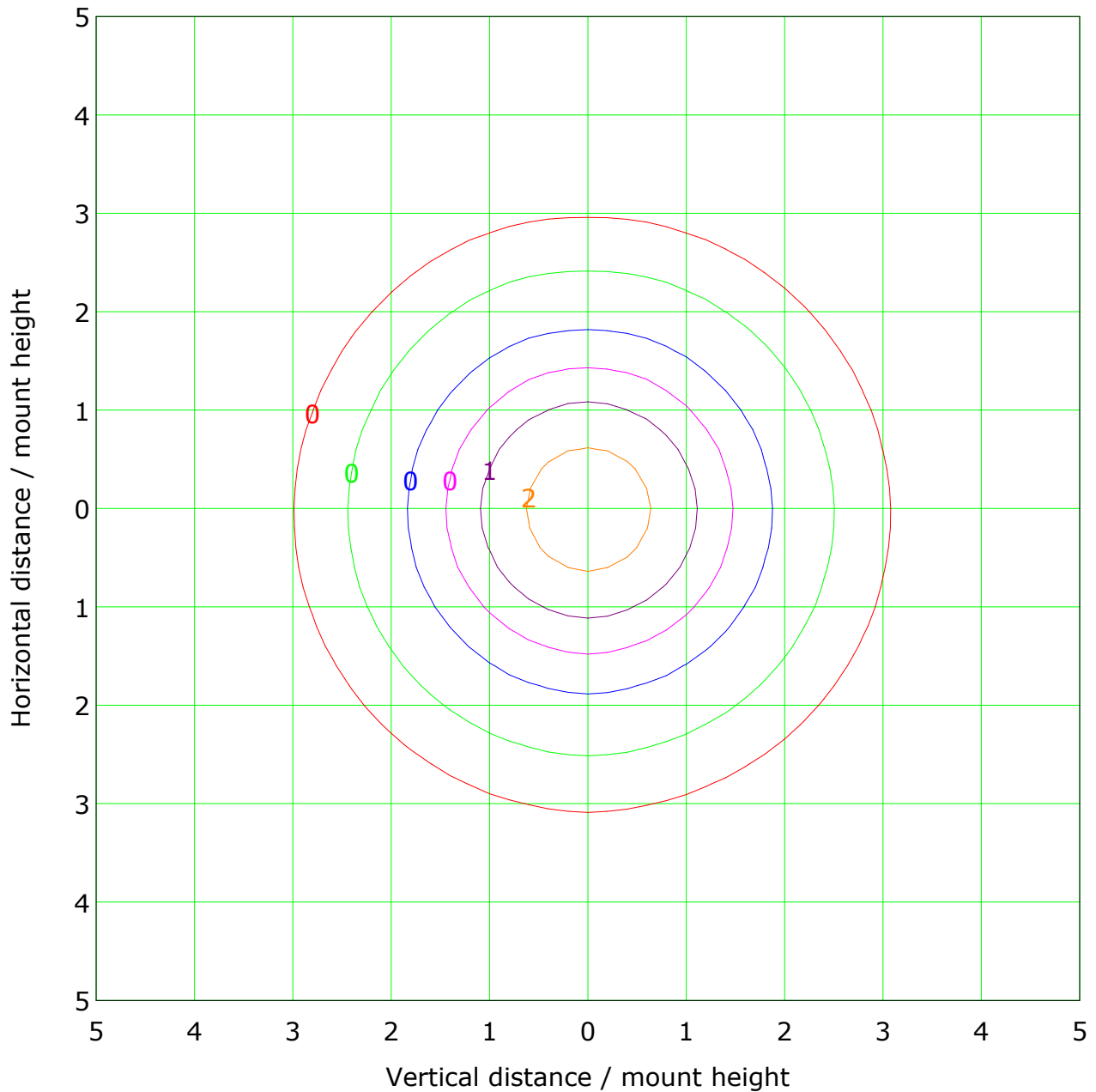
Test Device: LSG-1800B

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Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 3.8 lx

( 1%): 0.0 lx	( 2%): 0.1 lx
( 5%): 0.2 lx	( 10%): 0.4 lx
( 20%): 0.8 lx	( 50%): 1.9 lx
(100%): 3.8 lx	

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Test Device: LSG-1800B

Distance: 12.677 m

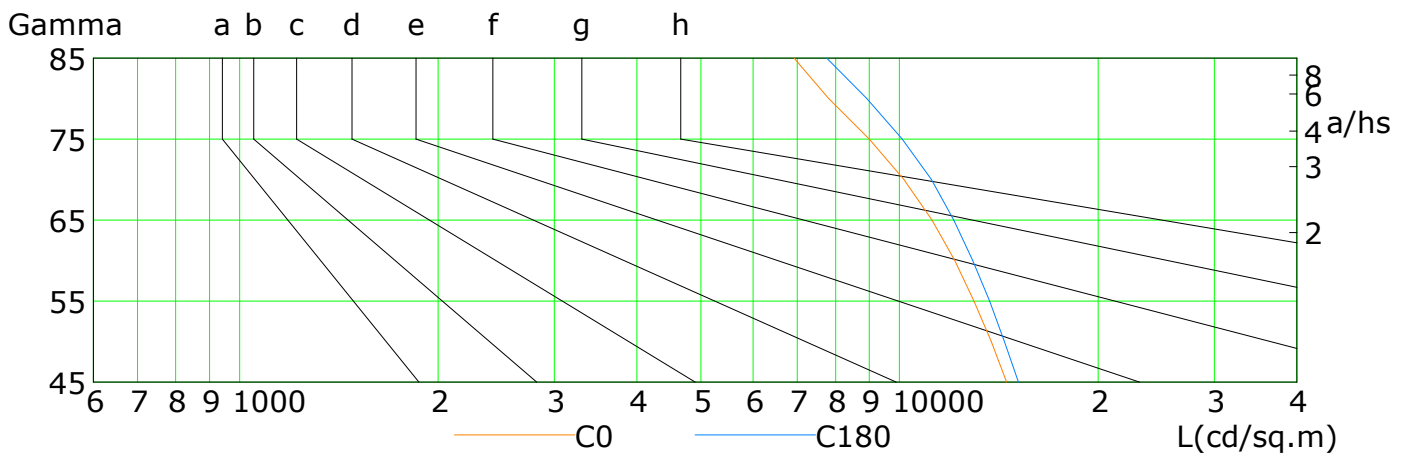
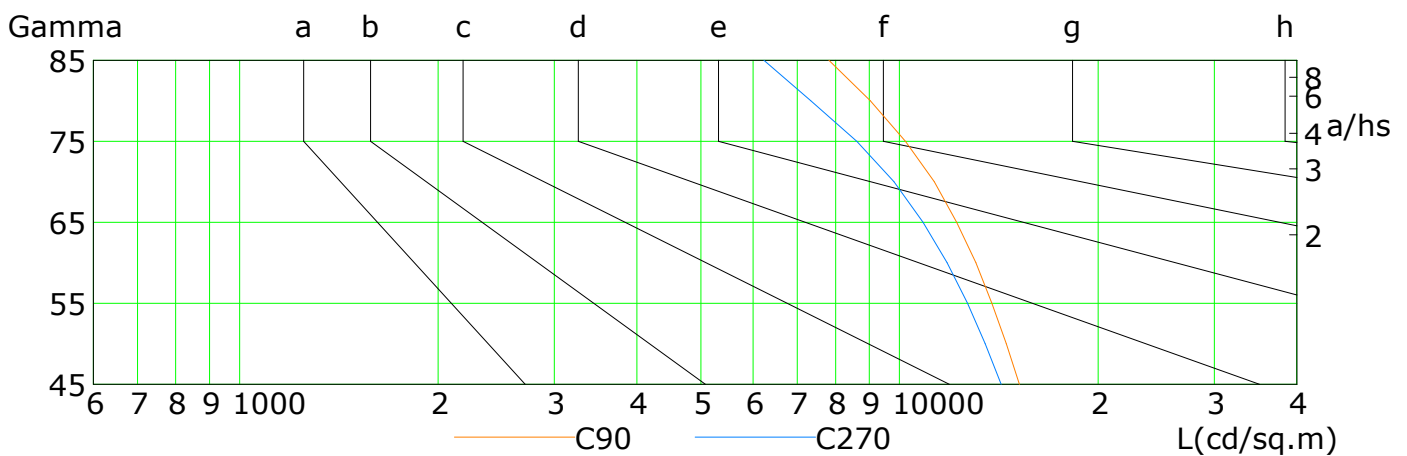
Humidity:

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	14529	13770	12972	12122	11204	10158	9002	7807	6921
C90	15195	14511	13800	13050	12212	11284	10211	9035	7821
C180	15142	14423	13691	12911	12080	11178	10093	8925	7756
C270	14262	13484	12681	11805	10853	9804	8620	7333	6229

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

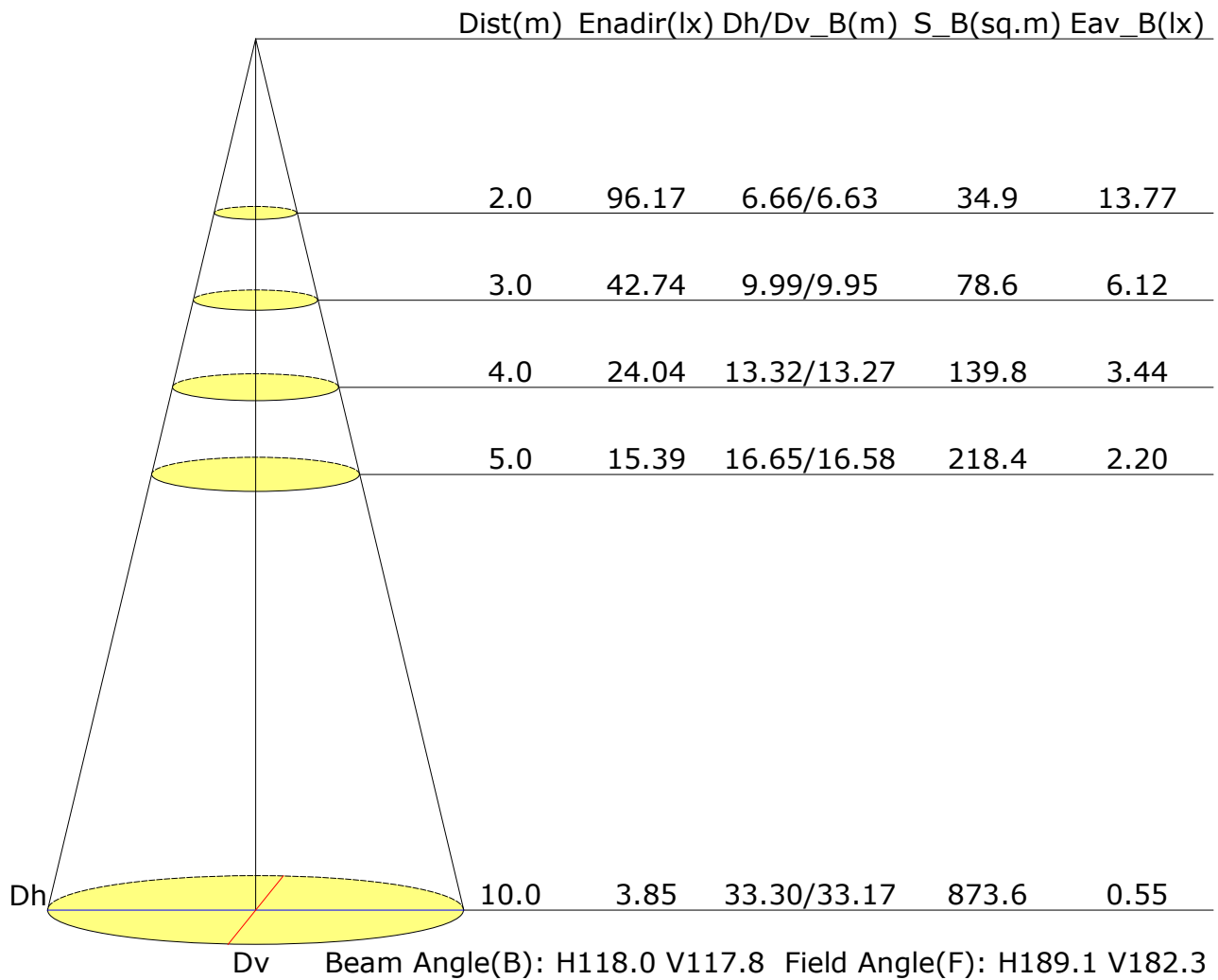
Test Device: LSG-1800B

Distance: 12.677 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 (°):0.0-180.0:1.0

Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	20.7	22.0	21.1	22.4	22.8	20.8	22.2	21.2	22.5	22.9
3H	22.2	23.5	22.7	23.9	24.3	22.4	23.7	22.8	24.1	24.5
4H	22.9	24.1	23.4	24.5	24.9	23.1	24.3	23.6	24.7	25.1
6H	23.5	24.6	23.9	25.0	25.5	23.7	24.8	24.2	25.2	25.7
8H	23.7	24.8	24.2	25.2	25.7	23.9	25.0	24.4	25.4	25.9
12H	23.9	24.9	24.4	25.4	25.9	24.2	25.2	24.6	25.6	26.1
X=4H Y=2H	21.3	22.5	21.7	22.9	23.3	21.4	22.6	21.8	23.0	23.4
3H	23.0	24.0	23.5	24.5	25.0	23.2	24.2	23.7	24.6	25.1
4H	23.8	24.7	24.3	25.2	25.7	24.0	24.9	24.5	25.4	25.9
6H	24.5	25.3	25.0	25.8	26.4	24.7	25.5	25.2	26.0	26.6
8H	24.8	25.6	25.3	26.1	26.6	25.0	25.8	25.6	26.3	26.9
12H	25.1	25.8	25.6	26.3	26.9	25.3	26.0	25.9	26.5	27.1
X=8H Y=4H	24.1	24.9	24.6	25.4	25.9	24.3	25.0	24.8	25.5	26.1
6H	24.9	25.6	25.5	26.1	26.7	25.2	25.8	25.7	26.3	26.9
8H	25.4	25.9	25.9	26.5	27.1	25.6	26.1	26.2	26.7	27.3
12H	25.8	26.2	26.3	26.8	27.5	26.0	26.5	26.6	27.0	27.7
X=12H Y=4H	24.1	24.8	24.7	25.3	25.9	24.3	25.0	24.8	25.5	26.1
6H	25.0	25.6	25.6	26.1	26.8	25.2	25.8	25.8	26.3	27.0
8H	25.5	26.0	26.1	26.6	27.2	25.7	26.2	26.3	26.8	27.4
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.4					+0.4/-0.5				
S=2.0H	+0.5/-0.8					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 1301lm ( $8\log(F/F_0) = 0.9$ ).

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