

Report No.: 1

Test Time: 08.10.2019 10:11

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 595 (50) 4x40LED 0,3A 38W 4000K opal

Number of Lamps: 1

Luminous Length (mm): 595 mm

Luminous Height (mm): 50 mm

Current: 0.176 A

Power Factor: 0.978

Lumens per Lamp: 4391.2 lm

Luminous Width (mm): 595 mm

Voltage: 220.8 V

Power: 38.06 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4319 lm

Downward Ratio: 97.93%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.9, 164.7, 164.7, 164.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.5, 113.7, 113.6, 113.7

Luminaire Efficacy Rating (LER): 113.53

Max. Intensity: 1470.73 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 4391.2 lm

Efficiency: 98.36%

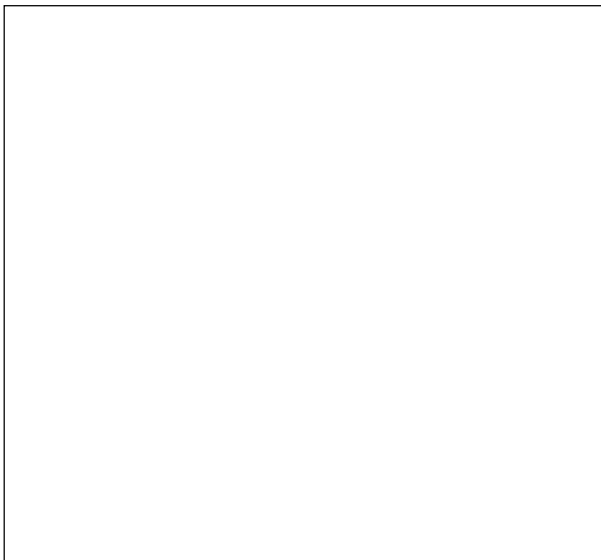
Upward Ratio: 0.43%

Central Intensity: 1466.04 cd

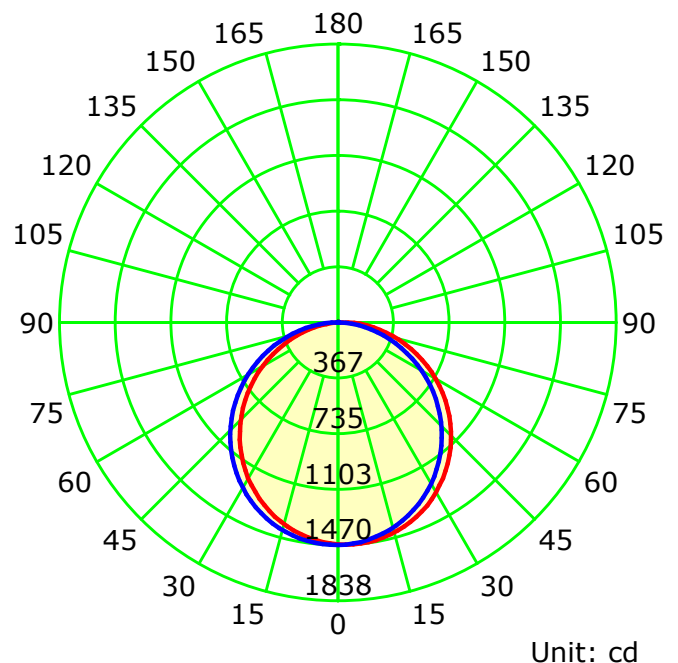
Pos of Max. Intensity: H337.5 V4

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 (°):0.0-180.0:2.0

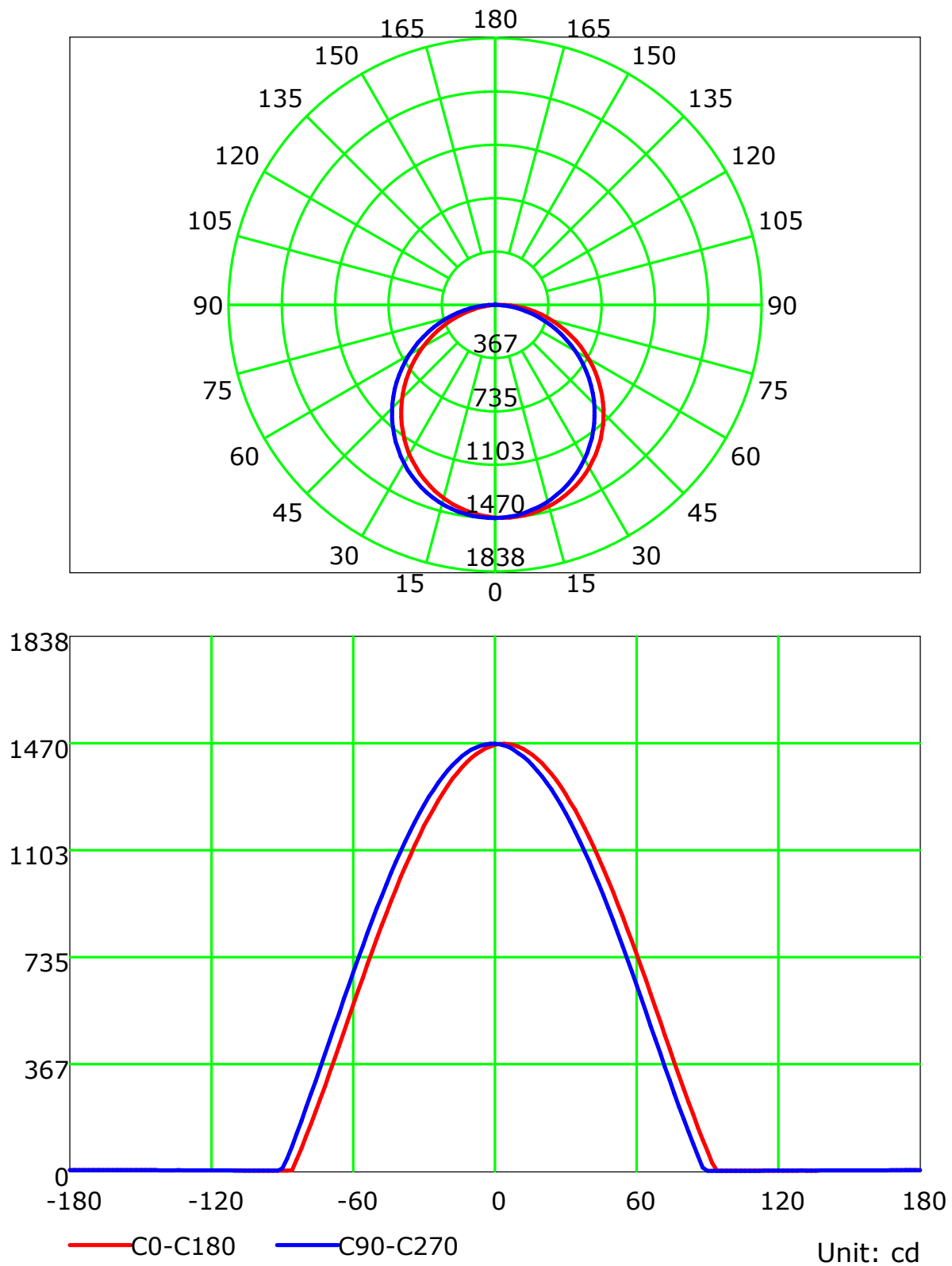
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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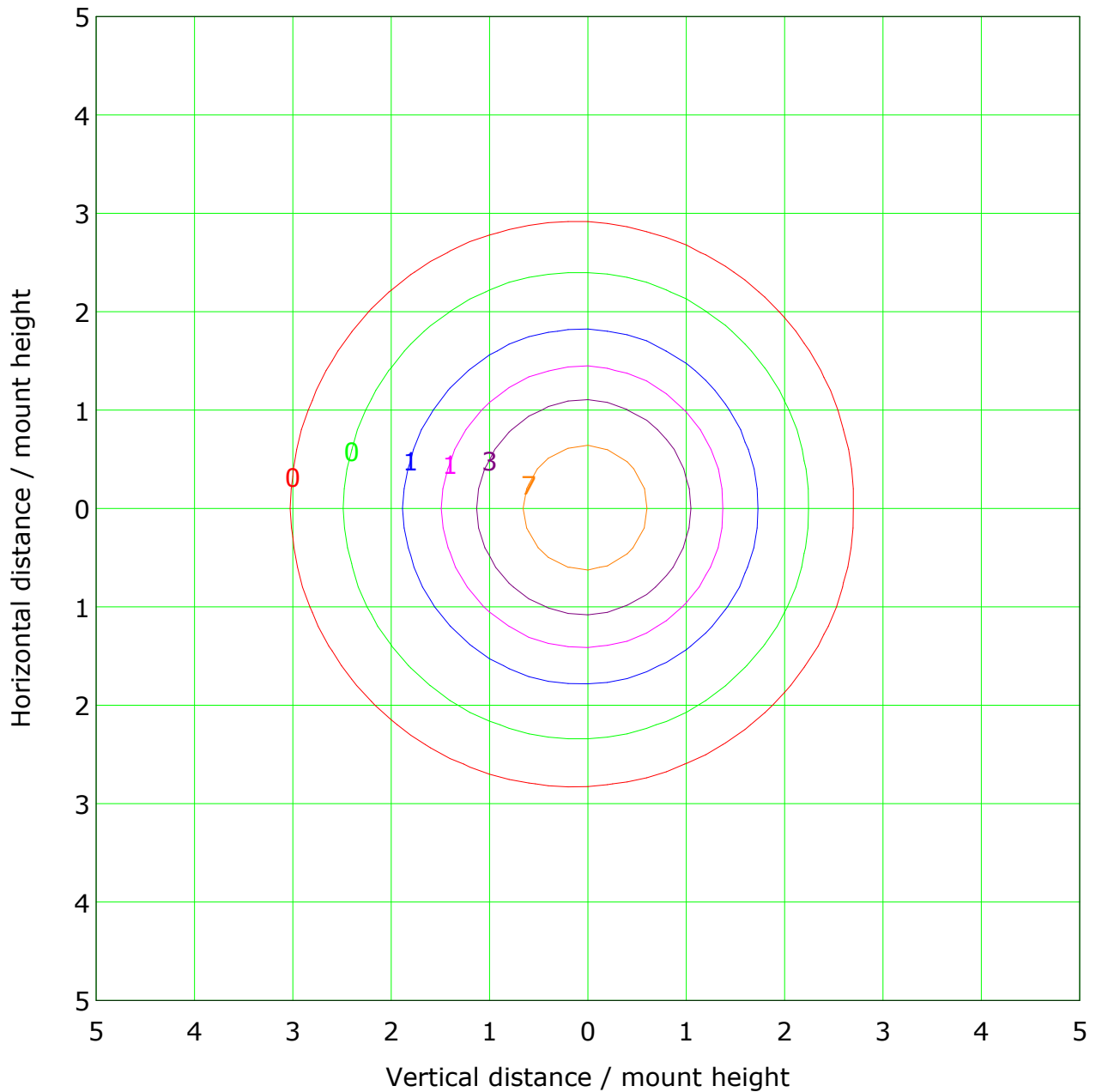
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Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 14.7 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%): 14.7 lx	

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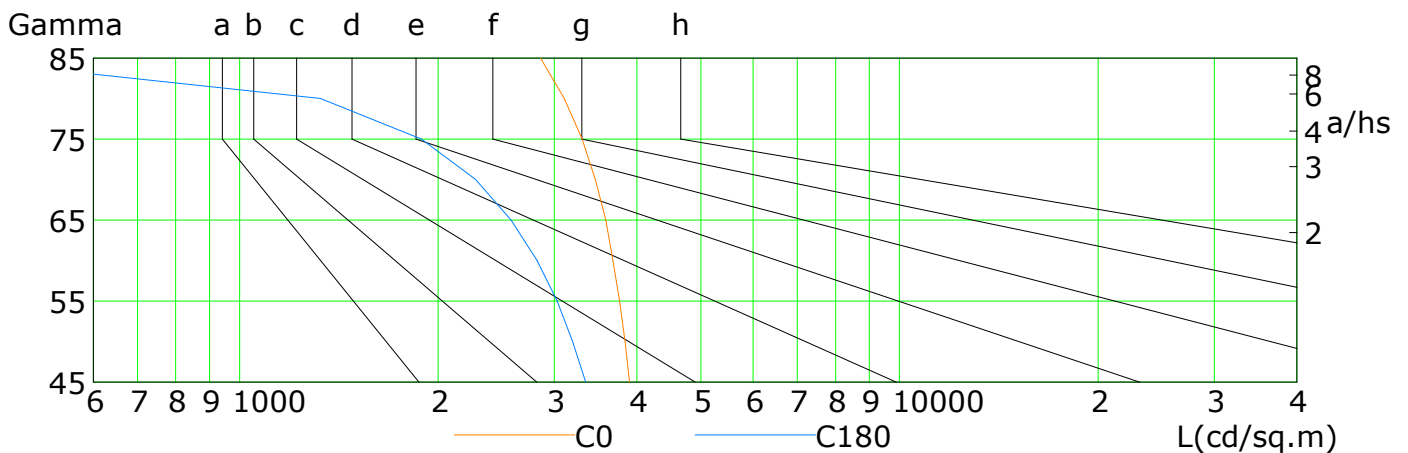
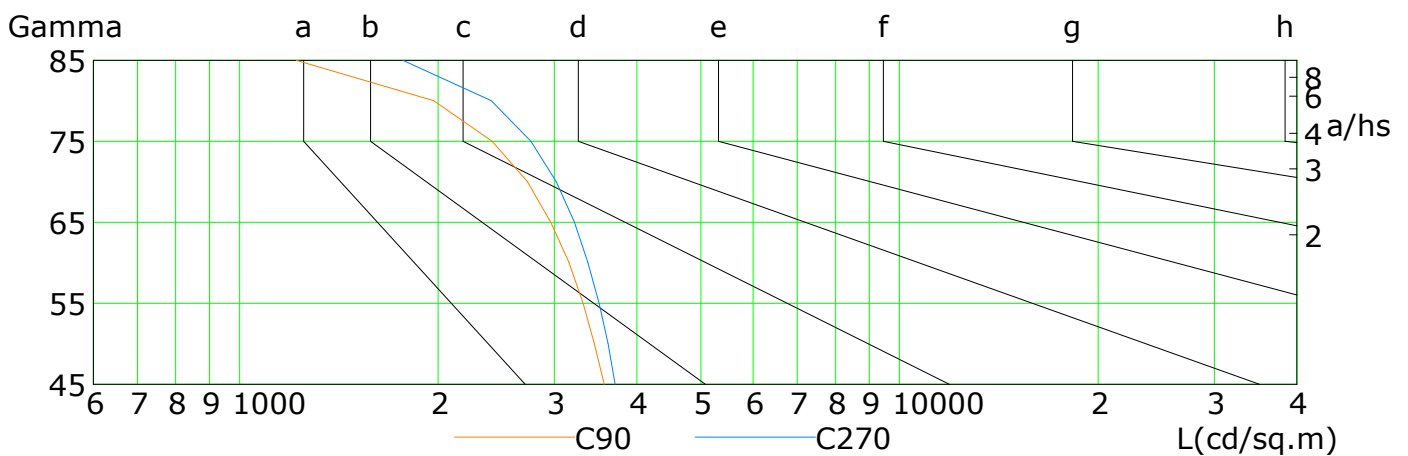
Humidity:

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	3897	3838	3766	3679	3587	3461	3305	3105	2857
C90	3568	3447	3315	3155	2962	2730	2415	1969	1219
C180	3345	3196	3029	2823	2578	2278	1887	1325	357
C270	3708	3617	3504	3370	3218	3018	2765	2406	1768

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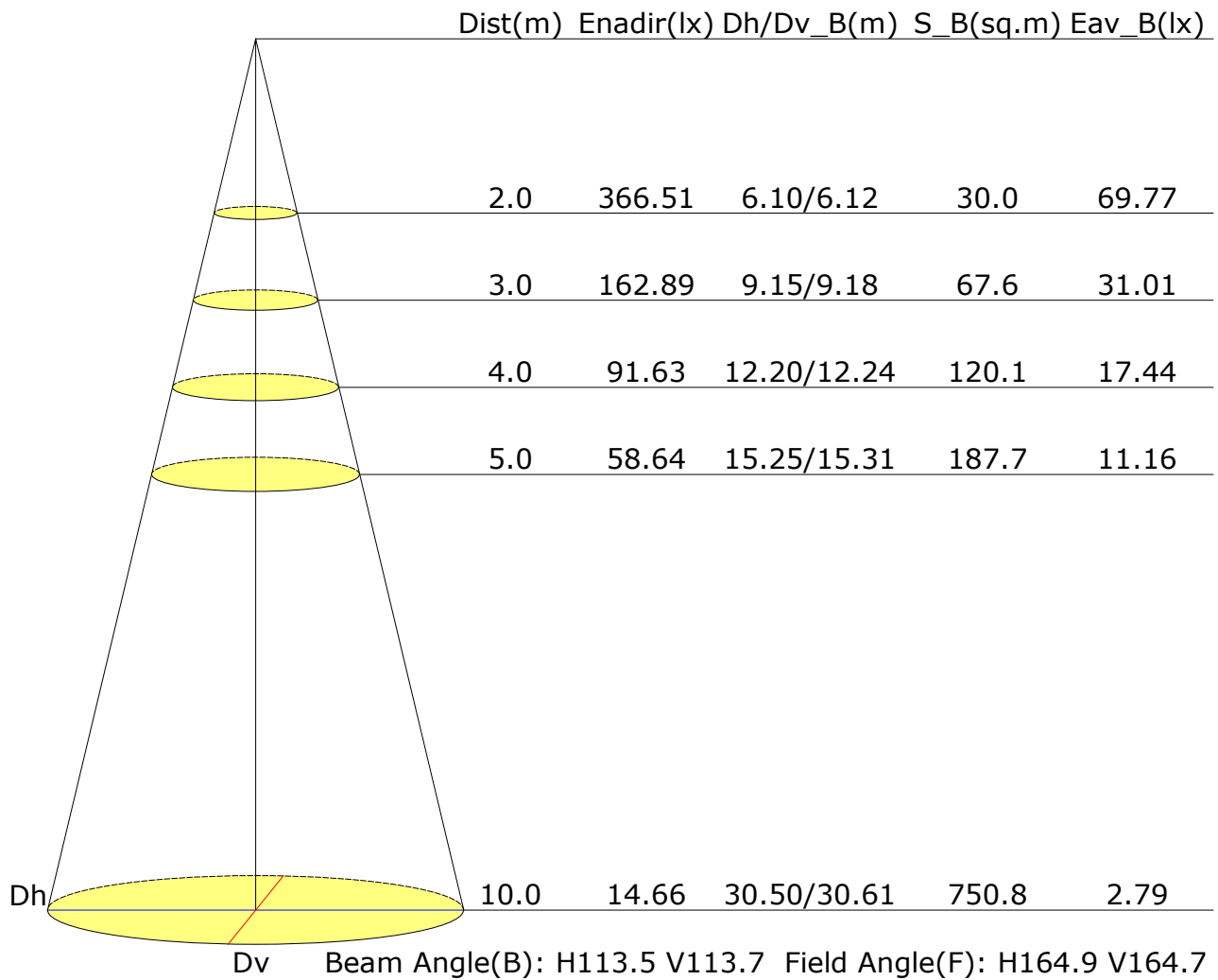
Test Device: LSG-1800B

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 (°):0.0-180.0:2.0

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	17.4	18.8	17.7	19.0	19.3	17.0	18.4	17.3	18.6	18.9
3H	19.1	20.4	19.5	20.7	21.0	18.5	19.8	18.8	20.1	20.4
4H	19.9	21.1	20.2	21.4	21.7	19.1	20.4	19.5	20.6	21.0
6H	20.5	21.7	20.9	22.0	22.3	19.6	20.7	20.0	21.1	21.4
8H	20.8	21.9	21.2	22.2	22.6	19.7	20.8	20.1	21.2	21.5
12H	21.0	22.0	21.4	22.4	22.7	19.8	20.9	20.2	21.2	21.6
X=4H Y=2H	18.0	19.2	18.4	19.5	19.8	17.7	18.9	18.1	19.2	19.5
3H	20.0	21.0	20.3	21.3	21.7	19.4	20.5	19.8	20.8	21.2
4H	20.9	21.8	21.3	22.2	22.6	20.2	21.1	20.6	21.5	21.9
6H	21.6	22.5	22.1	22.9	23.3	20.8	21.6	21.2	22.0	22.4
8H	22.0	22.7	22.4	23.1	23.6	21.0	21.8	21.5	22.2	22.6
12H	22.2	22.9	22.7	23.4	23.8	21.1	21.8	21.6	22.3	22.7
X=8H Y=4H	21.2	21.9	21.6	22.3	22.8	20.6	21.4	21.0	21.8	22.2
6H	22.1	22.7	22.6	23.2	23.6	21.3	22.0	21.8	22.4	22.9
8H	22.5	23.1	23.0	23.5	24.0	21.6	22.2	22.1	22.7	23.1
12H	22.9	23.4	23.4	23.9	24.4	21.8	22.3	22.3	22.8	23.3
X=12H Y=4H	21.2	21.9	21.6	22.3	22.8	20.6	21.3	21.1	21.8	22.2
6H	22.2	22.7	22.7	23.2	23.7	21.4	22.0	21.9	22.5	23.0
8H	22.6	23.1	23.1	23.6	24.1	21.8	22.3	22.3	22.7	23.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.1				
S=1.5H	+0.3/-0.4					+0.3/-0.4				
S=2.0H	+0.5/-0.7					+0.5/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 4391lm ($8\log(F/F_0) = 5.1$).

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