

Report No.: 1

Test Time: 24.07.2019 13:55

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 601 85W 4000K 60 degrees

Lamp Description: LED

Luminous Length (mm): 1750 mm

Luminous Height (mm): 64 mm

Current: 0.402 A

Power Factor: 0.975

Number of Lamps: 1

Luminous Width (mm): 115 mm

Voltage: 221.5 V

Power: 86.86 W

Photometric Results

CIE Class: Direct

Measurement Flux: 11994 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 152.9, 99.8, 111.8, 111.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 118.1, 60.8, 73.3, 73.4

Luminaire Efficacy Rating (LER): 138.13

Max. Intensity: 6892.11 cd

S/MH(C0/C180): 1.42

Total Rated Lamp Lumens: 11994.0 lm

Efficiency: 100%

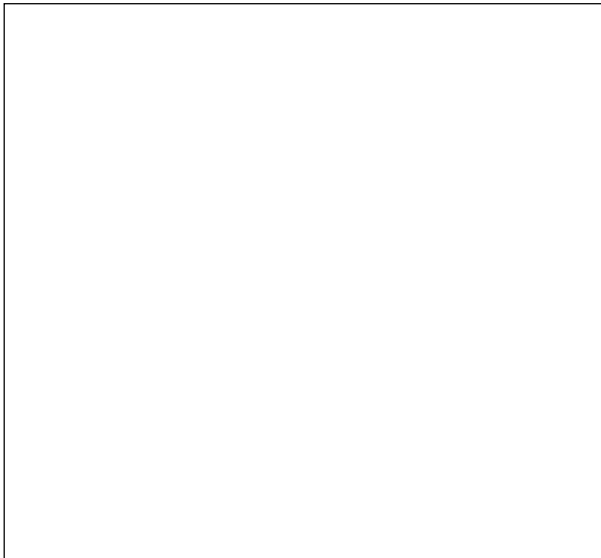
Upward Ratio: 1%

Central Intensity: 6806.33 cd

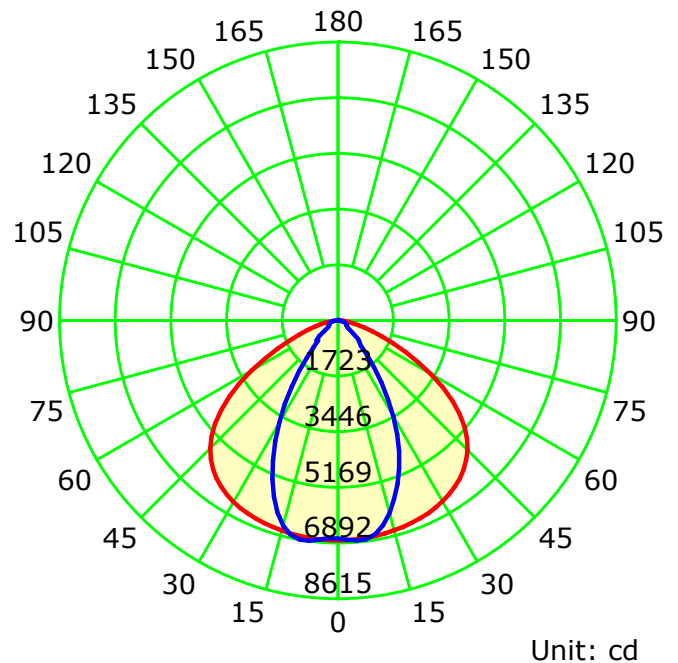
Pos of Max. Intensity: H247.5 V10

S/MH(C90/C270): 0.95

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 (°):0.0-180.0:2.5

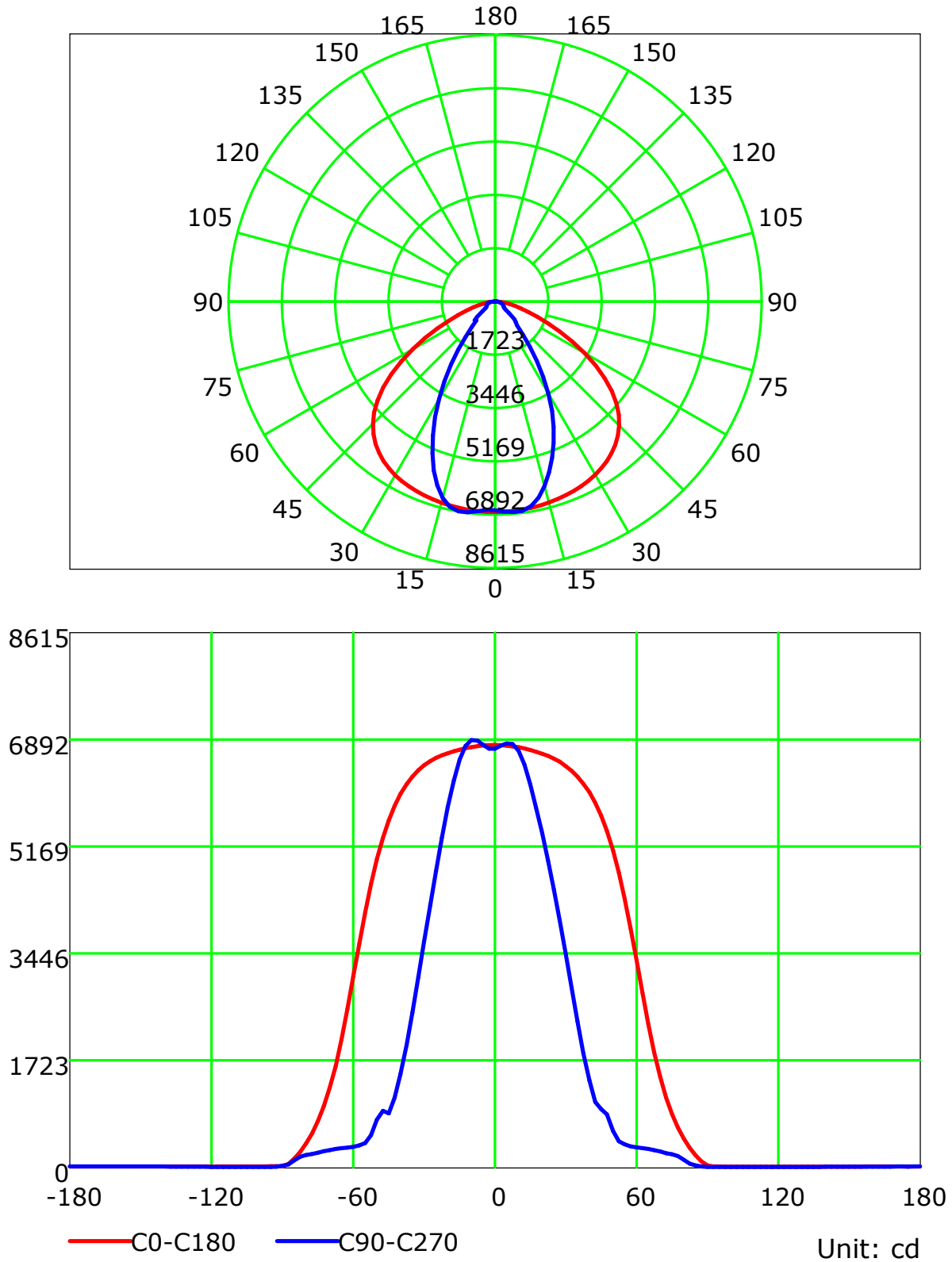
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

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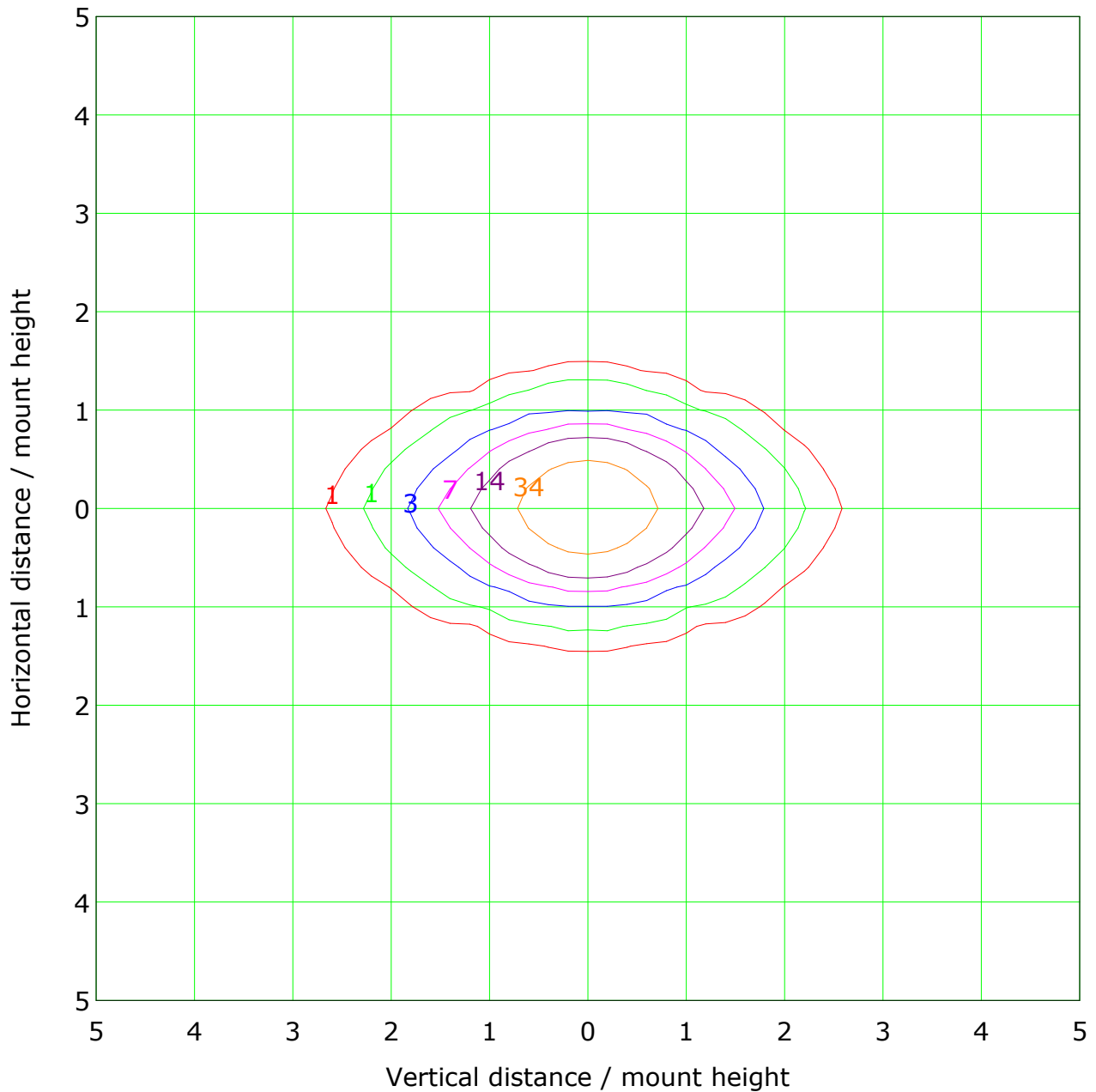
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 68.1 lx

(1%): 0.7 lx	(2%): 1.4 lx
(5%): 3.4 lx	(10%): 6.8 lx
(20%): 13.6 lx	(50%): 34.0 lx
(100%): 68.1 lx	

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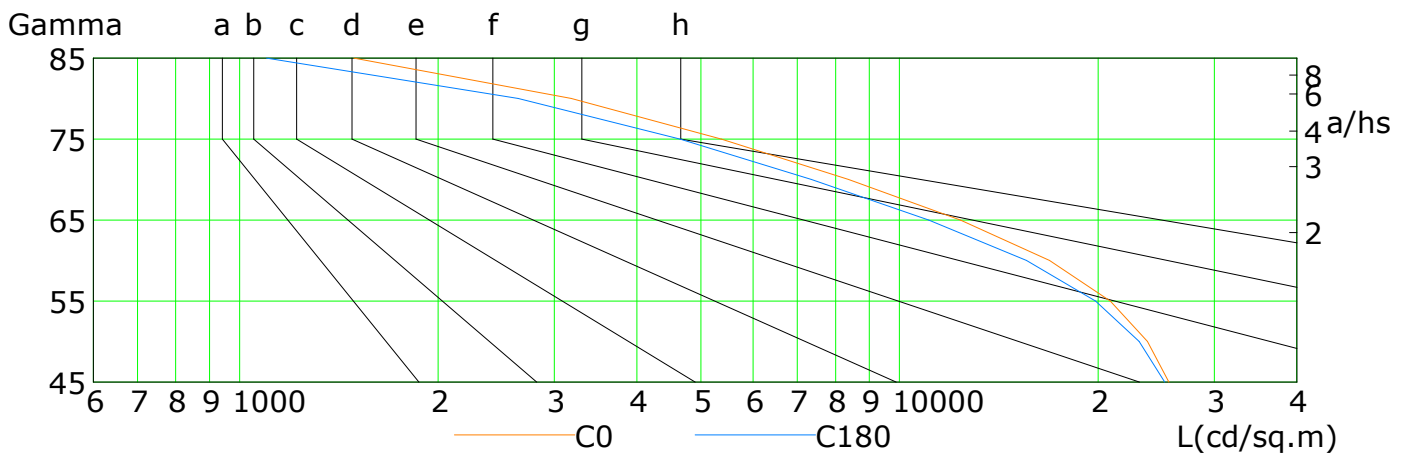
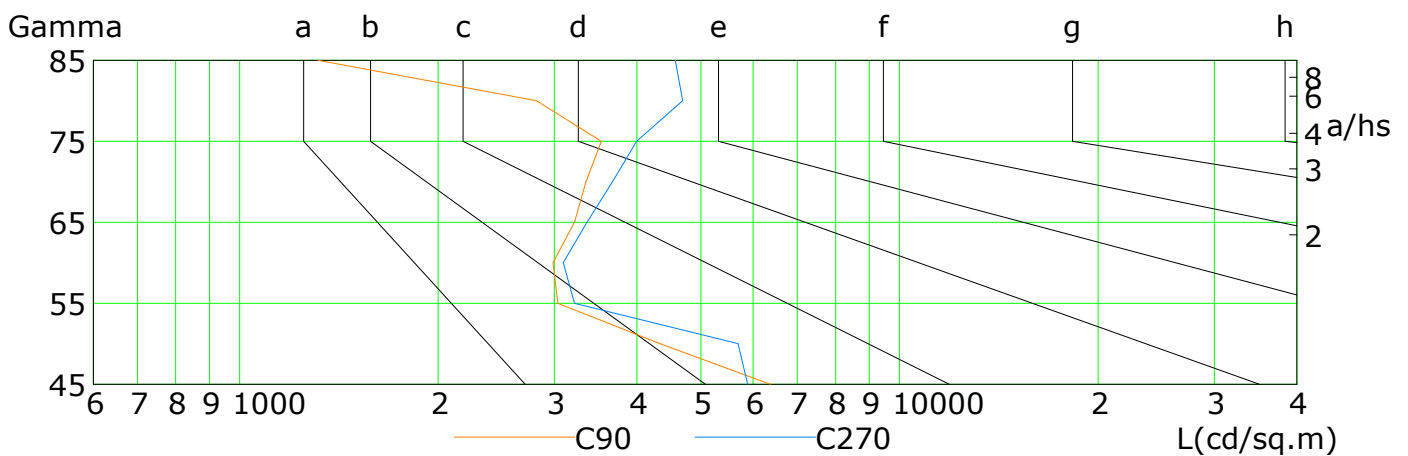
Humidity:

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	25607	23748	20880	16876	12367	8369	5372	3180	1491
C90	6375	4336	3036	2986	3217	3351	3536	2815	1316
C180	25244	23086	19814	15568	11075	7349	4653	2642	1098
C270	5887	5690	3218	3094	3362	3674	3994	4695	4575

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Operator:

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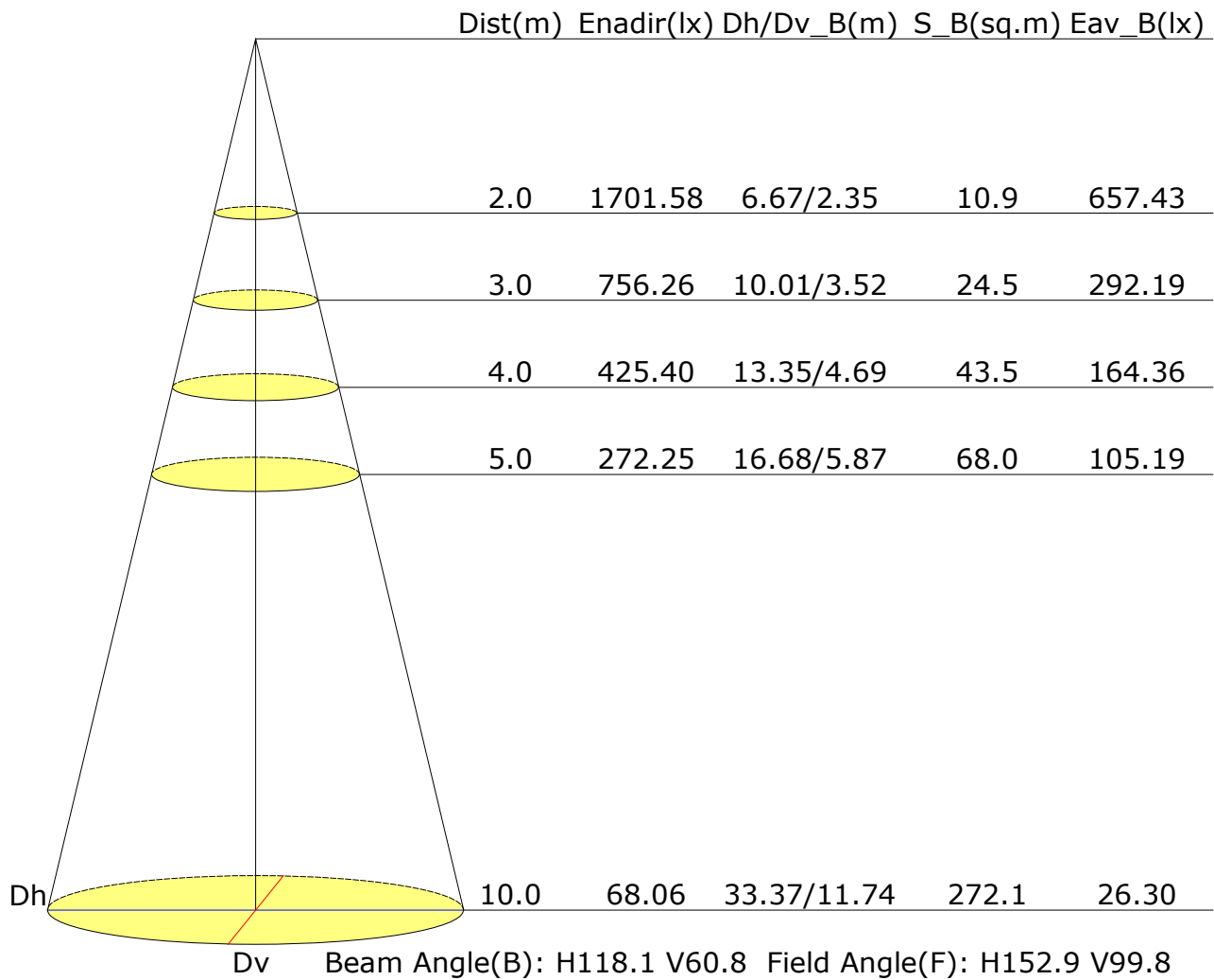
Test Device: LSG-1800B

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 (°):0.0-180.0:2.5

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	22.4	23.5	22.7	23.8	24.0	14.5	15.7	14.8	15.9	16.1
3H	23.2	24.2	23.5	24.5	24.8	15.2	16.2	15.5	16.5	16.8
4H	23.4	24.4	23.7	24.7	25.0	15.7	16.7	16.0	16.9	17.2
6H	23.5	24.4	23.9	24.7	25.1	16.2	17.1	16.5	17.4	17.7
8H	23.5	24.4	23.9	24.7	25.1	16.4	17.3	16.7	17.6	17.9
12H	23.5	24.4	23.9	24.7	25.0	16.5	17.4	16.9	17.7	18.1
X=4H Y=2H	22.2	23.2	22.5	23.5	23.8	15.0	16.0	15.4	16.3	16.6
3H	23.1	23.9	23.4	24.2	24.6	15.8	16.7	16.2	17.0	17.3
4H	23.3	24.1	23.7	24.5	24.8	16.4	17.2	16.8	17.5	17.9
6H	23.5	24.2	24.0	24.6	25.0	17.0	17.7	17.5	18.1	18.5
8H	23.6	24.2	24.0	24.6	25.0	17.3	17.9	17.7	18.3	18.8
12H	23.6	24.2	24.1	24.6	25.0	17.5	18.1	18.0	18.5	18.9
X=8H Y=4H	23.3	23.9	23.7	24.3	24.7	16.7	17.3	17.1	17.7	18.1
6H	23.5	24.0	24.0	24.5	24.9	17.4	17.9	17.9	18.4	18.9
8H	23.6	24.0	24.1	24.5	25.0	17.8	18.2	18.3	18.7	19.2
12H	23.7	24.0	24.2	24.5	25.0	18.0	18.4	18.5	18.9	19.4
X=12H Y=4H	23.2	23.8	23.7	24.2	24.7	16.7	17.3	17.2	17.7	18.1
6H	23.5	23.9	24.0	24.4	24.9	17.5	18.0	18.0	18.4	18.9
8H	23.6	24.0	24.1	24.5	25.0	17.9	18.3	18.4	18.8	19.3
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.7					+1.1/-1.2				
S=1.5H	+1.9/-2.3					+2.1/-1.6				
S=2.0H	+3.3/-3.9					+3.1/-2.0				

Calculate in accordance with CIE Pub.117. The table is revised with $11994 \ln (8 \log(F/F_0) = 8.6)$.

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