

Report No.: 1

Test Time: 04.04.2019 08:32

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 250 40LED 0,3A 30W 5000K microprism

Number of Lamps: 1

Luminous Width (mm): 270 mm

Voltage: 220.7 V

Power: 30.13 W

Luminous Length (mm): 270 mm

Luminous Height (mm): 76 mm

Current: 0.142 A

Power Factor: 0.962

Photometric Results

CIE Class: Direct

Measurement Flux: 3942.5 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.1, 161.9, 151.9, 151.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 80.3, 84.4, 78.2, 78.0

Luminaire Efficacy Rating (LER): 130.90

Max. Intensity: 1935.69 cd

S/MH(C0/C180): 1.16

Total Rated Lamp Lumens: 3942.5 lm

Efficiency: 100%

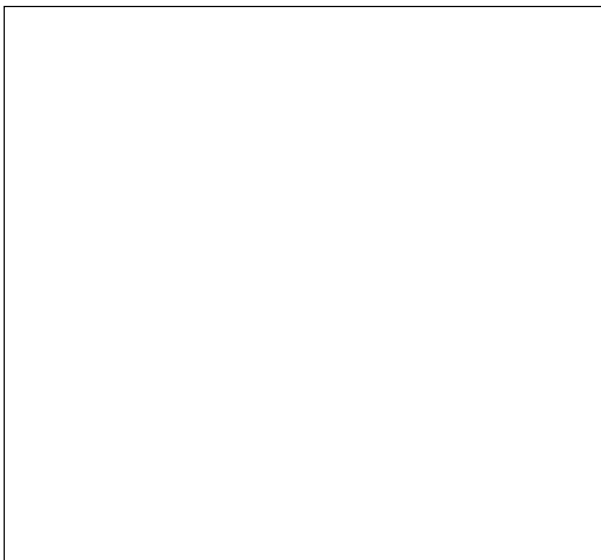
Upward Ratio: 1%

Central Intensity: 1928.76 cd

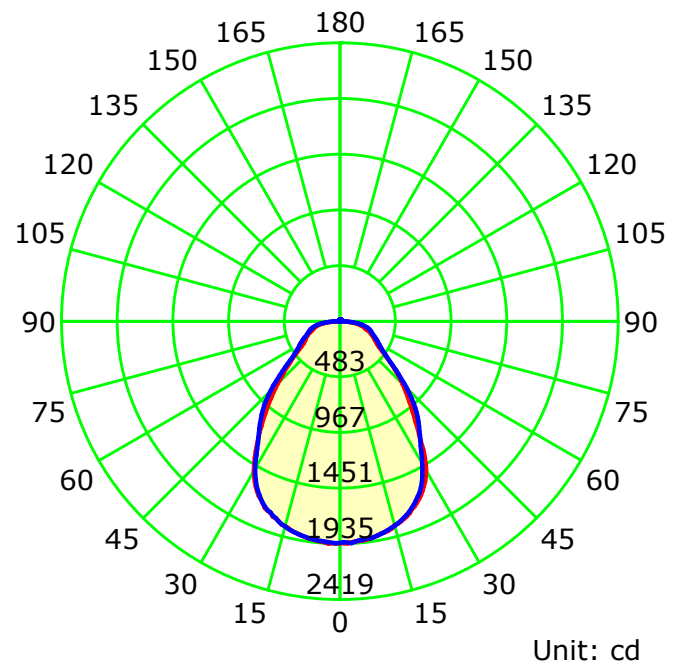
Pos of Max. Intensity: H180 V3

S/MH(C90/C270): 1.14

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

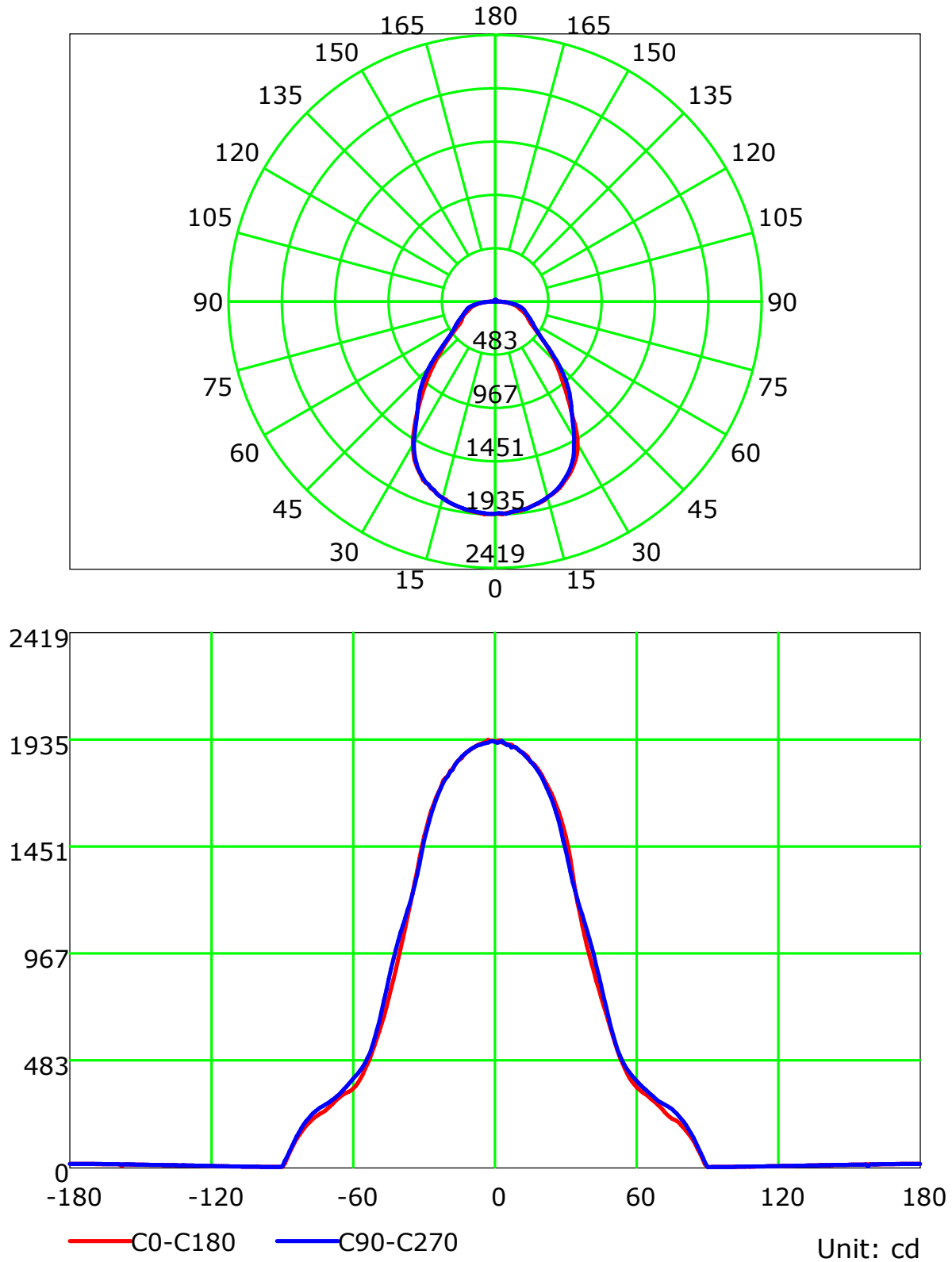
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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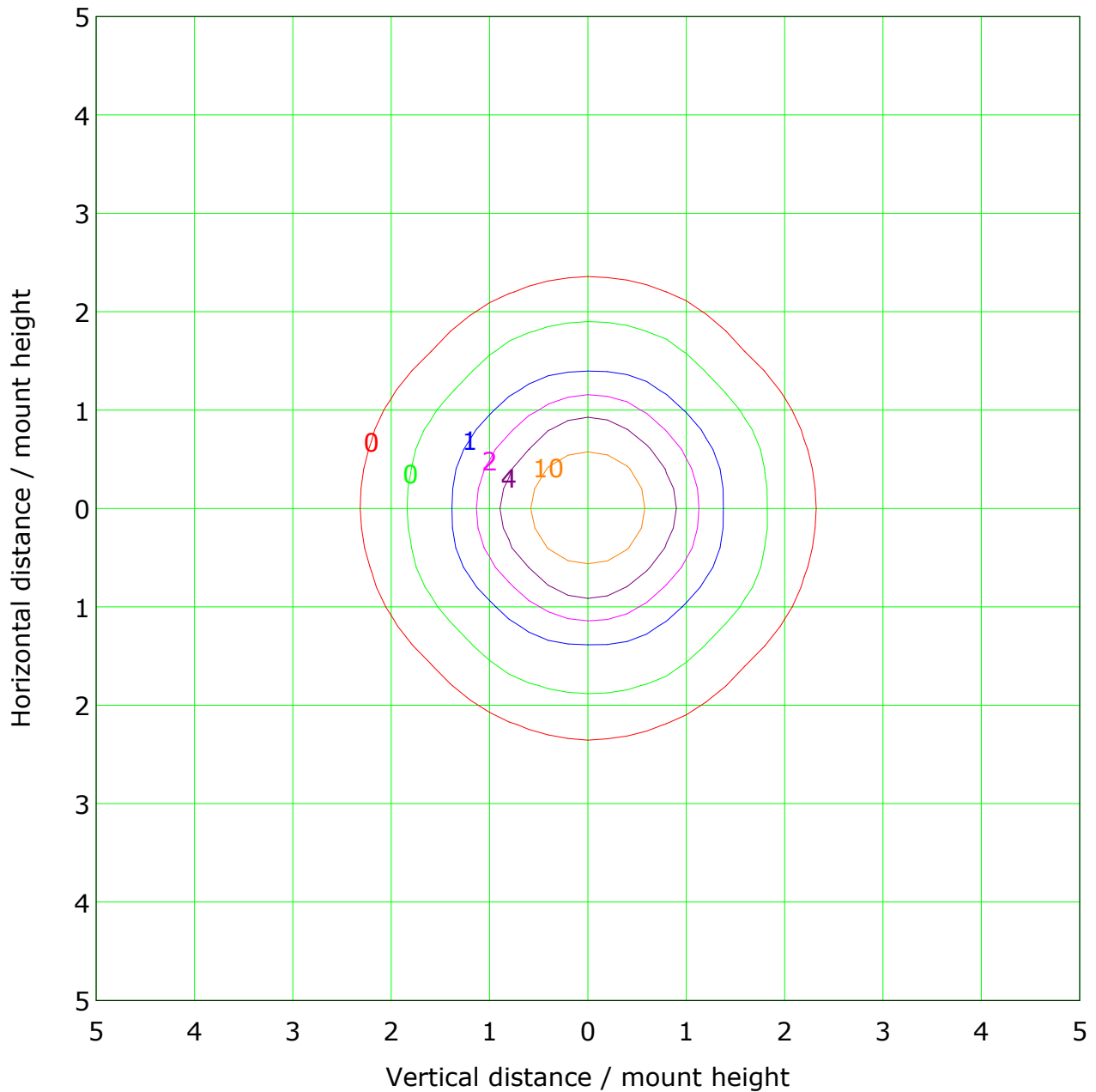
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 19.3 lx

(1%): 0.2 lx	(2%): 0.4 lx
(5%): 1.0 lx	(10%): 1.9 lx
(20%): 3.9 lx	(50%): 9.7 lx
(100%): 19.3 lx	

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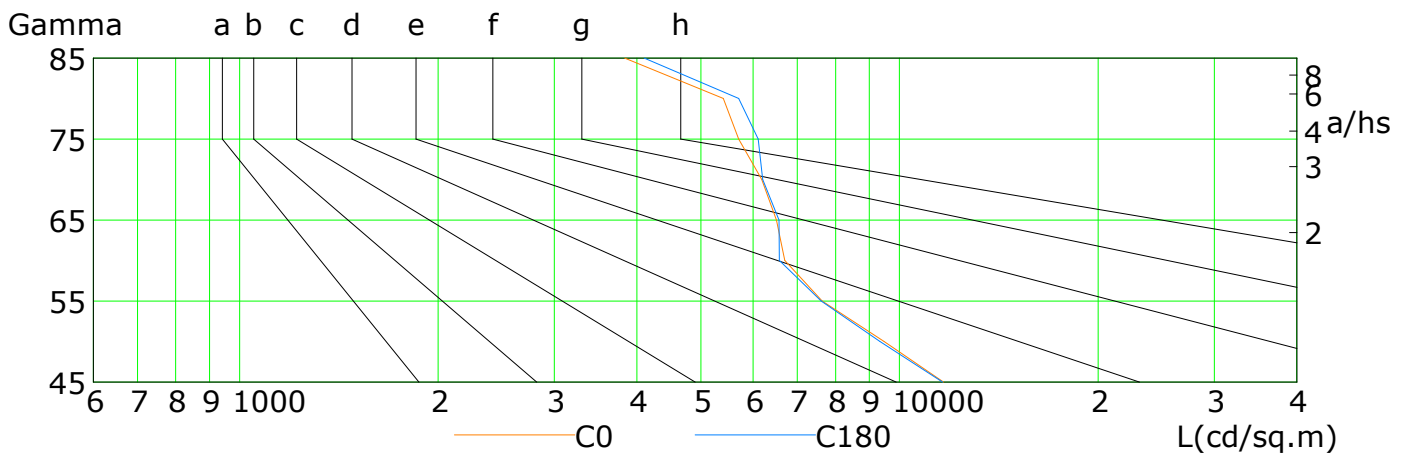
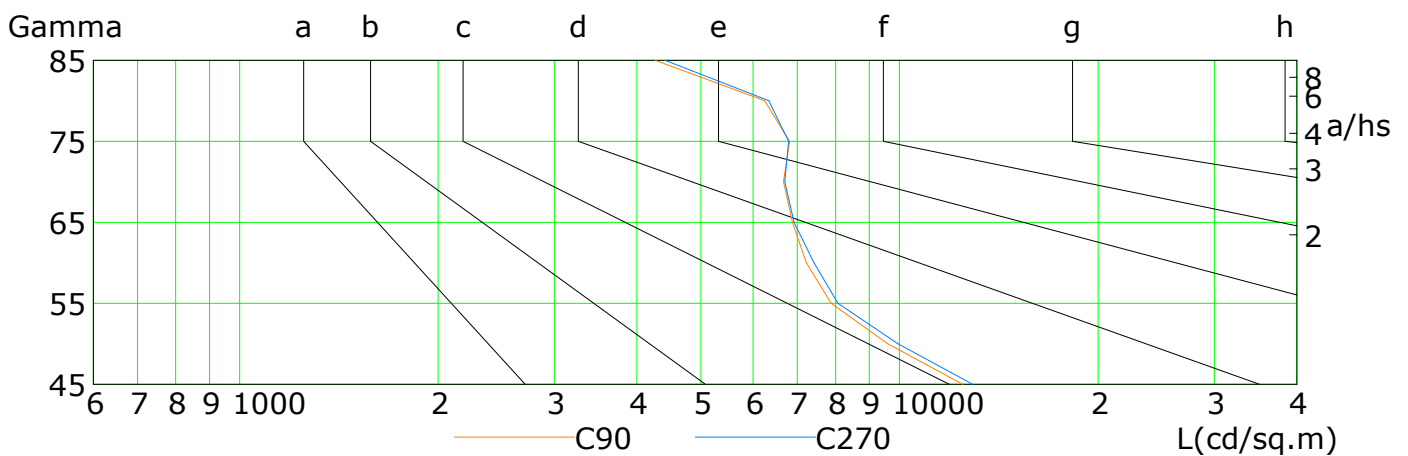
Humidity:

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	11656	9471	7639	6698	6513	6186	5703	5408	3834
C90	12470	9596	7877	7223	6882	6675	6811	6243	4261
C180	11623	9338	7611	6578	6567	6203	6105	5703	4104
C270	12912	9936	8070	7415	6919	6703	6789	6335	4412

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Temperature:

Operator:

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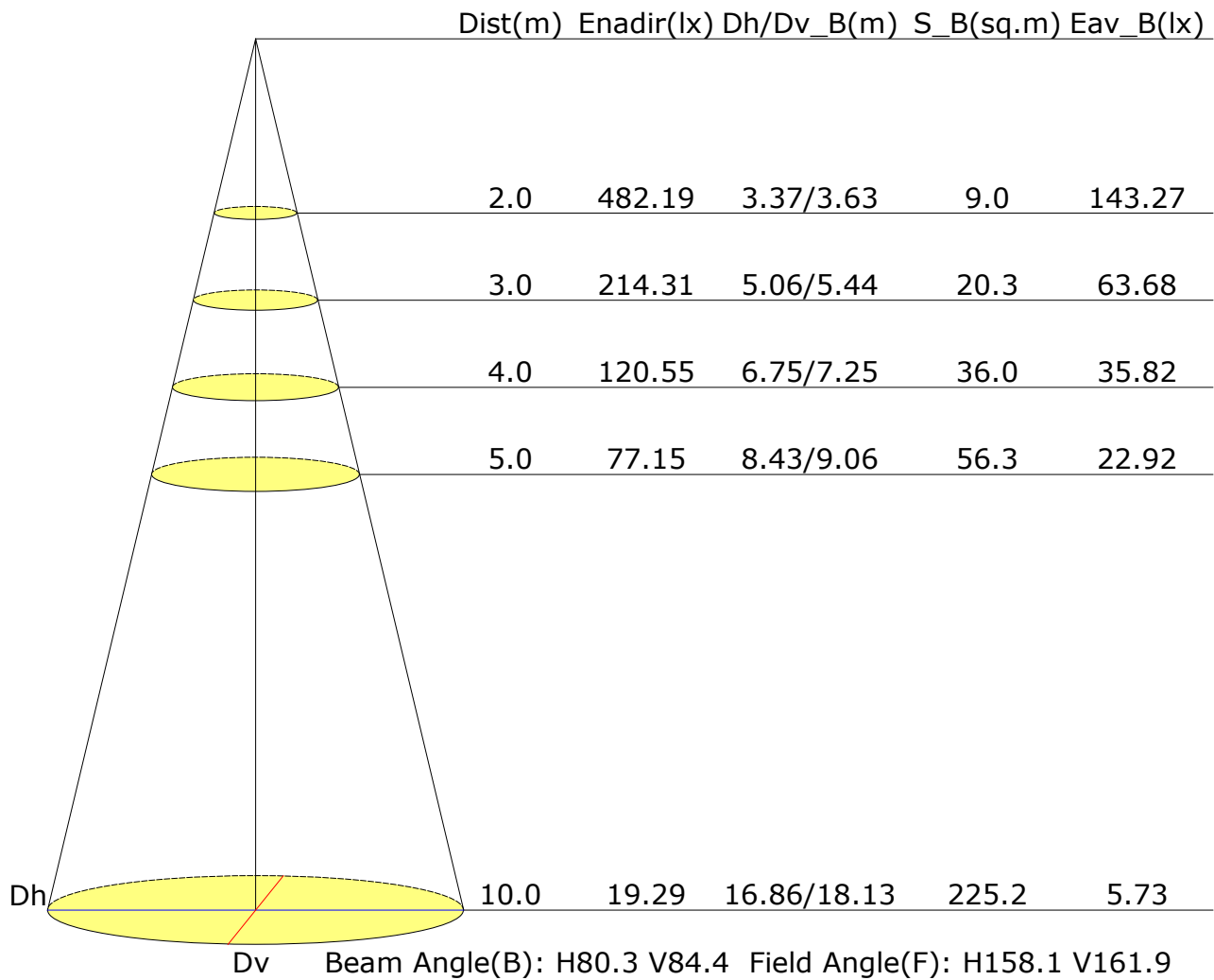
Test Device: LSG-1800B

Distance: 12.606 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: 12.606 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	18.7	19.9	19.0	20.2	20.4	18.9	20.1	19.2	20.4	20.6
3H	19.9	21.1	20.3	21.3	21.6	20.2	21.3	20.5	21.6	21.9
4H	20.5	21.6	20.9	21.9	22.2	21.0	22.0	21.3	22.3	22.7
6H	21.1	22.1	21.5	22.5	22.8	21.7	22.7	22.1	23.0	23.3
8H	21.4	22.4	21.8	22.7	23.0	22.0	22.9	22.3	23.3	23.6
12H	21.5	22.5	21.9	22.8	23.2	22.1	23.1	22.5	23.4	23.8
X=4H Y=2H	19.0	20.1	19.4	20.4	20.7	19.2	20.3	19.6	20.6	20.9
3H	20.5	21.5	20.9	21.8	22.2	20.8	21.7	21.2	22.1	22.4
4H	21.3	22.1	21.7	22.5	22.9	21.7	22.5	22.1	22.9	23.3
6H	22.0	22.8	22.5	23.2	23.6	22.6	23.3	23.0	23.7	24.2
8H	22.4	23.0	22.8	23.5	23.9	23.0	23.6	23.4	24.1	24.5
12H	22.6	23.2	23.0	23.6	24.1	23.2	23.8	23.7	24.2	24.7
X=8H Y=4H	21.5	22.2	22.0	22.6	23.1	21.9	22.6	22.4	23.0	23.5
6H	22.4	23.0	22.9	23.4	23.9	23.0	23.5	23.4	24.0	24.5
8H	22.8	23.3	23.3	23.8	24.3	23.4	23.9	23.9	24.4	24.9
12H	23.1	23.5	23.6	24.0	24.6	23.7	24.2	24.2	24.6	25.2
X=12H Y=4H	21.6	22.2	22.0	22.6	23.1	21.9	22.6	22.4	23.0	23.5
6H	22.5	23.0	23.0	23.5	24.0	23.0	23.5	23.5	24.0	24.5
8H	22.9	23.4	23.4	23.8	24.4	23.5	23.9	24.0	24.4	24.9
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.5/-0.7					+0.5/-0.6				
S=2.0H	+1.0/-0.9					+1.1/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3942lm ($8\log(F/F_0) = 4.8$).

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