

Report No.: 1

Test Time: 10.12.2019 12:34

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 595 (50) 4x40LED 0.3A 38W 5000K microprisma

Number of Lamps: 1

Lumens per Lamp: 5015.3 lm

Luminous Length (mm): 595 mm

Luminous Width (mm): 595 mm

Luminous Height (mm): 50 mm

Voltage: 221.4 V

Current: 0.174 A

Power: 37.85 W

Power Factor: 0.977

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 5015.3 lm

Measurement Flux: 5015.7 lm

Efficiency: 100.01%

Downward Ratio: 99.51%

Upward Ratio: 0.49%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 161.7, 163.4, 155.8, 156.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 78.9, 80.4, 78.6, 79.4

Luminaire Efficacy Rating (LER): 132.56

Central Intensity: 2481.8 cd

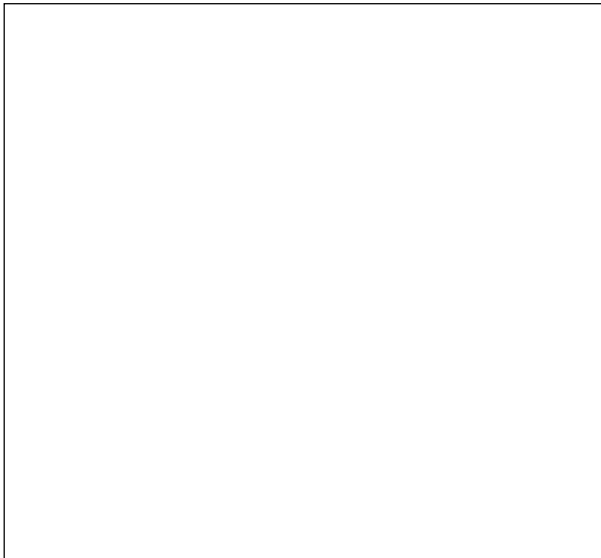
Max. Intensity: 2484.12 cd

Pos of Max. Intensity: H180 V1

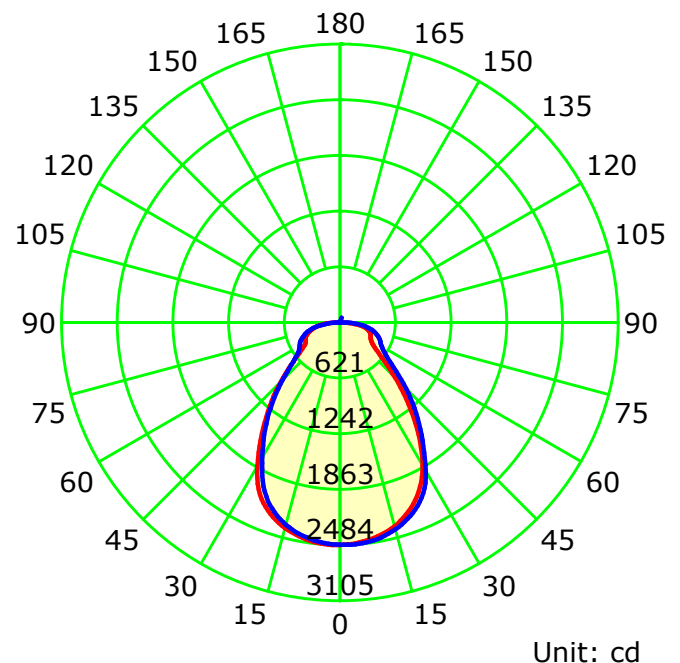
S/MH(C0/C180): 1.13

S/MH(C90/C270): 1.12

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:1.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

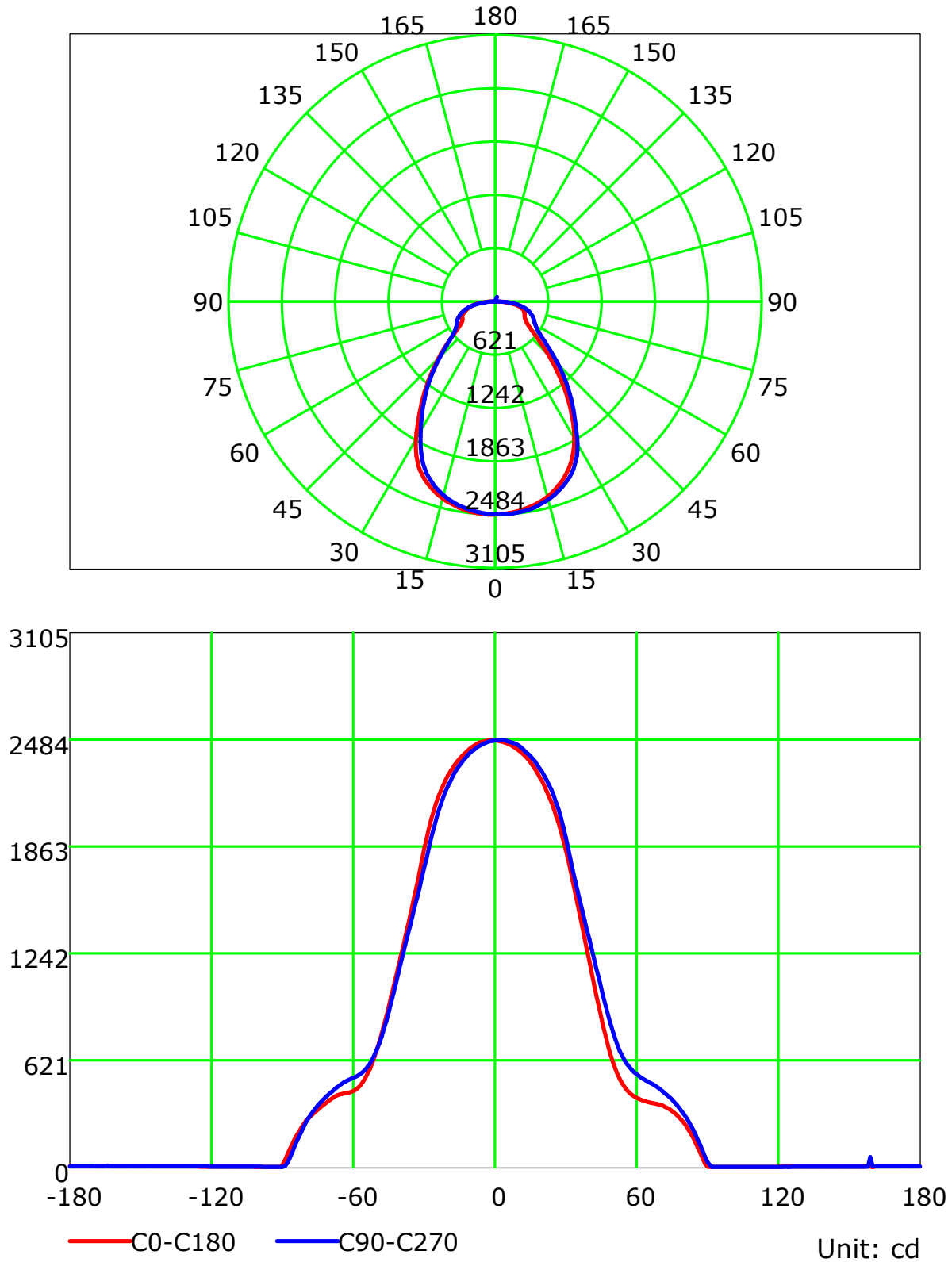
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

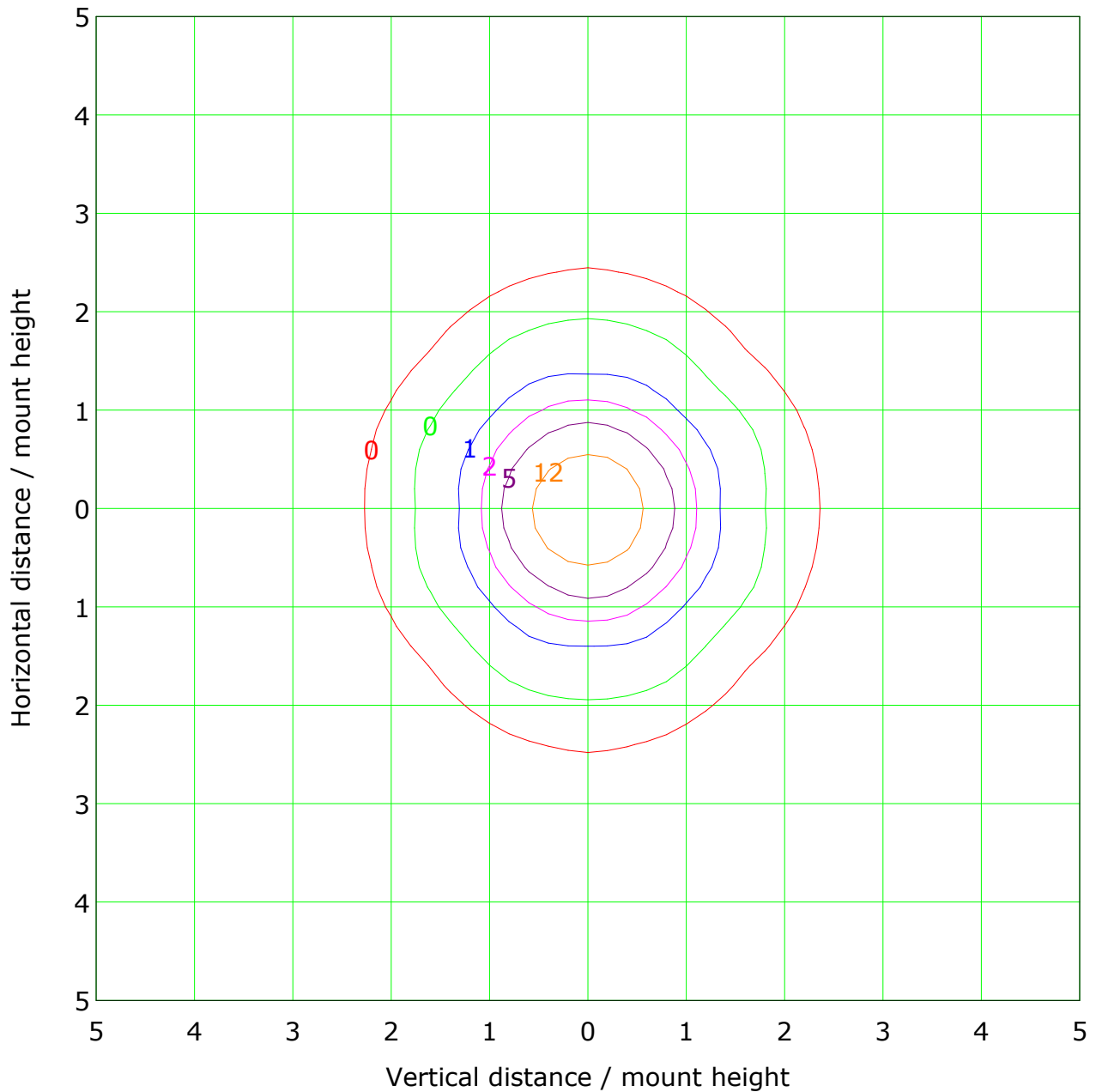
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 24.8 lx

(1%): 0.2 lx	(2%): 0.5 lx
(5%): 1.2 lx	(10%): 2.5 lx
(20%): 5.0 lx	(50%): 12.4 lx
(100%): 24.8 lx	

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Test Lab:

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Temperature:

Operator:

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Test Device: LSG-1800B

Distance: 12.677 m

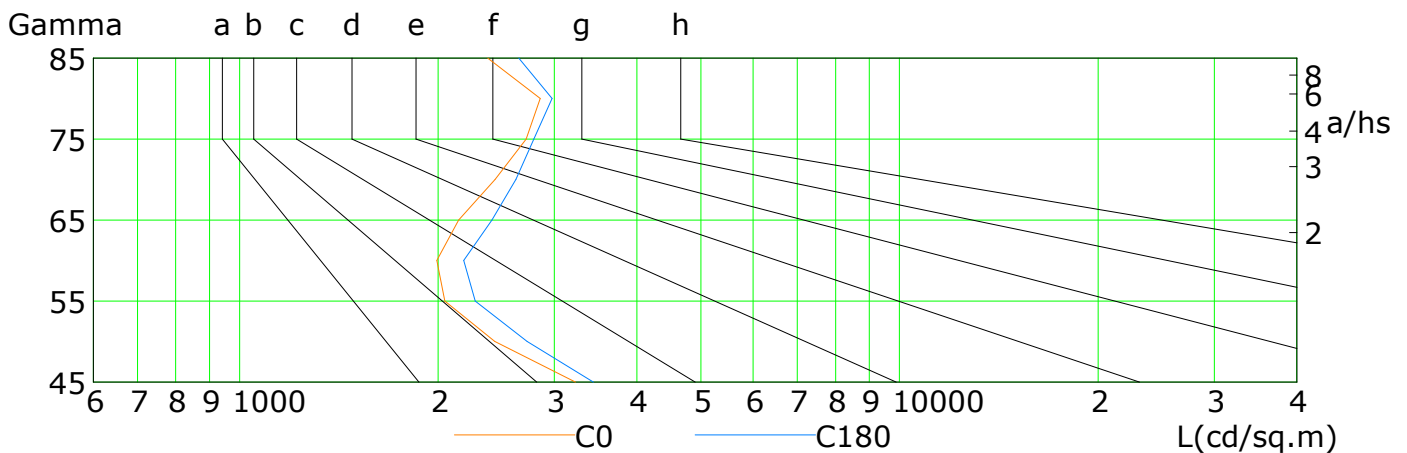
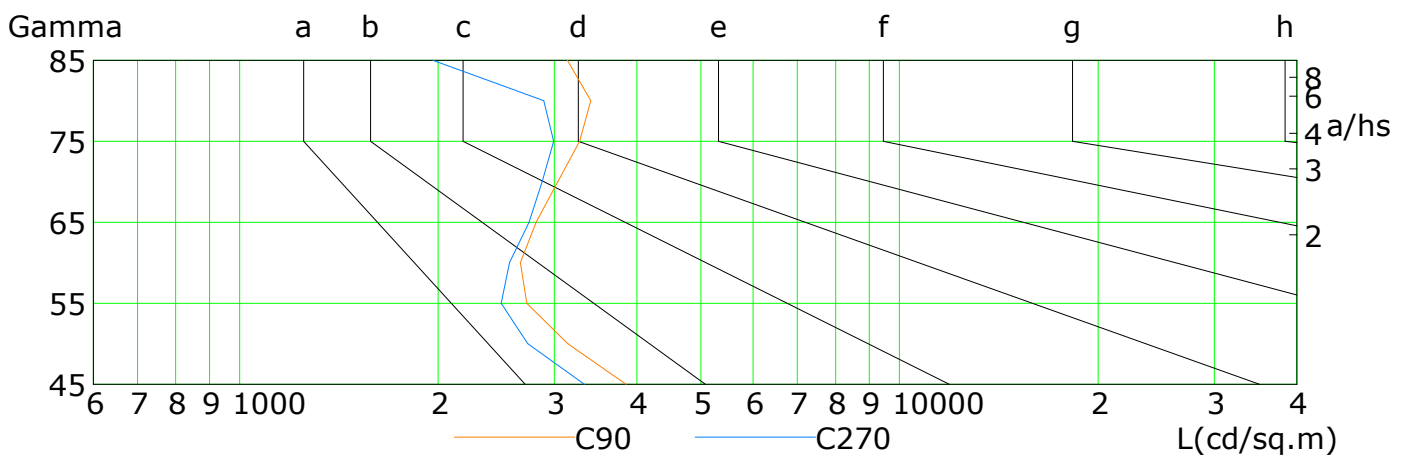
Humidity:

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	3228	2436	2047	1991	2147	2438	2717	2854	2378
C90	3851	3143	2725	2664	2813	3034	3275	3404	3138
C180	3438	2728	2275	2185	2413	2622	2790	2976	2650
C270	3331	2732	2490	2563	2745	2875	2991	2890	1964

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

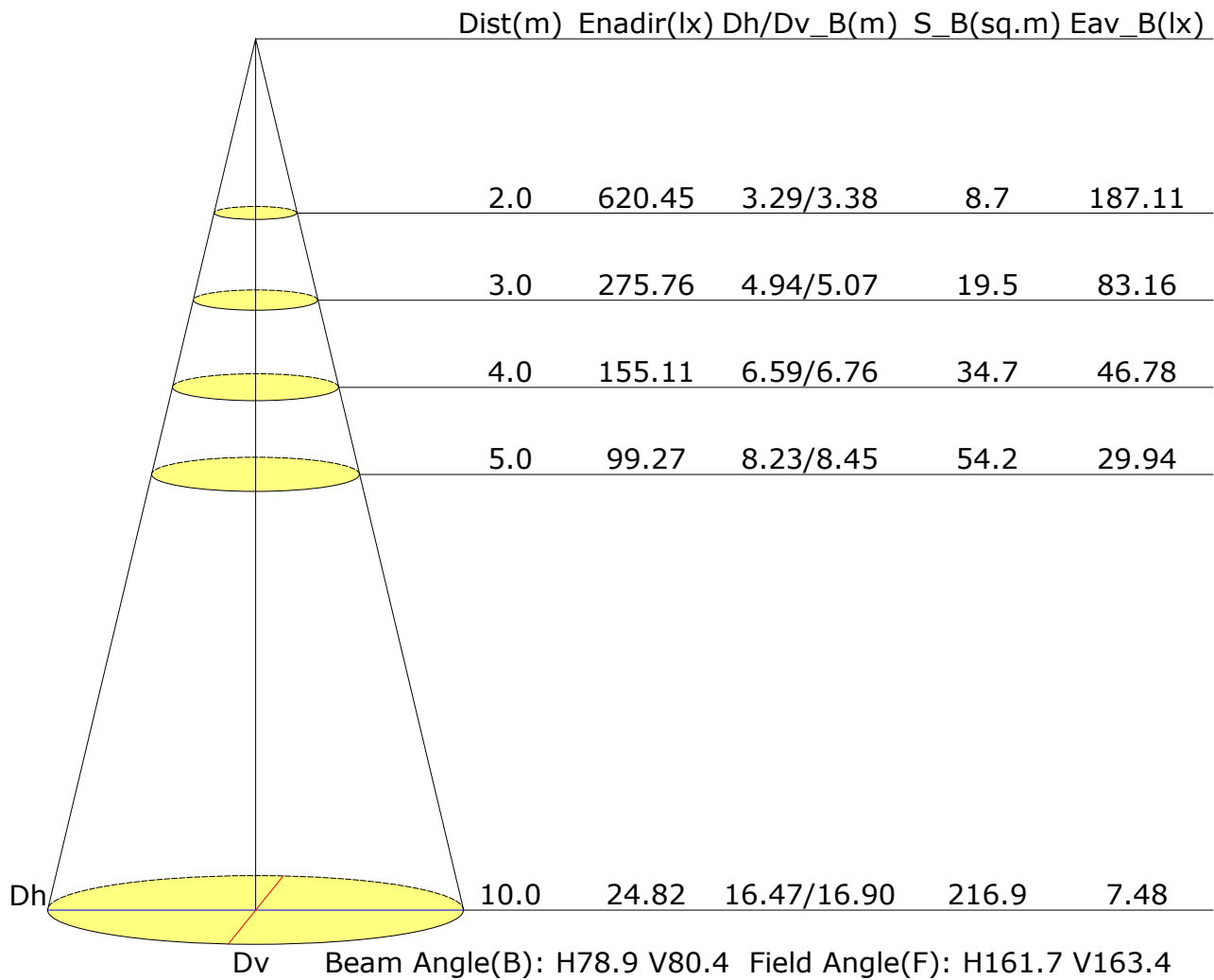
Test Device: LSG-1800B

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	14.5	15.7	14.8	16.0	16.2	15.3	16.6	15.6	16.8	17.1
3H	16.1	17.3	16.4	17.5	17.8	17.1	18.3	17.4	18.5	18.8
4H	17.1	18.2	17.5	18.5	18.8	18.1	19.2	18.4	19.5	19.8
6H	18.1	19.1	18.4	19.4	19.7	19.0	20.0	19.4	20.3	20.7
8H	18.5	19.5	18.8	19.8	20.1	19.3	20.3	19.7	20.7	21.0
12H	18.7	19.7	19.1	20.0	20.4	19.6	20.6	20.0	20.9	21.2
X=4H Y=2H	15.1	16.2	15.4	16.5	16.8	15.7	16.8	16.1	17.1	17.4
3H	17.0	17.9	17.4	18.3	18.6	17.8	18.8	18.2	19.1	19.4
4H	18.1	19.0	18.5	19.4	19.7	19.0	19.8	19.4	20.2	20.6
6H	19.3	20.0	19.7	20.4	20.8	20.0	20.8	20.5	21.2	21.6
8H	19.7	20.4	20.2	20.8	21.3	20.5	21.2	20.9	21.6	22.0
12H	20.1	20.7	20.5	21.1	21.6	20.8	21.4	21.3	21.9	22.3
X=8H Y=4H	18.5	19.2	19.0	19.6	20.1	19.3	20.0	19.7	20.4	20.8
6H	19.8	20.4	20.3	20.8	21.3	20.5	21.1	21.0	21.5	22.0
8H	20.4	20.9	20.9	21.4	21.8	21.1	21.6	21.5	22.0	22.5
12H	20.8	21.3	21.3	21.7	22.3	21.5	21.9	22.0	22.4	22.9
X=12H Y=4H	18.6	19.2	19.1	19.7	20.1	19.3	19.9	19.7	20.4	20.8
6H	19.9	20.4	20.4	20.9	21.4	20.6	21.1	21.1	21.6	22.0
8H	20.5	21.0	21.0	21.4	22.0	21.2	21.6	21.7	22.1	22.6
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.3/-0.7					+0.3/-0.6				
S=2.0H	+0.6/-0.9					+0.4/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 5015lm ($8\log(F/F_0) = 5.6$).

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