

Report No.: 1

Test Time: 12.11.2019 11:02

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FI 130 15W 6000K 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: 1090.2 lm

Luminous Width (mm): 135 mm

Voltage: 221.7 V

Power: 15.25 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1092.1 lm

Downward Ratio: 93.67%

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, 118.2

Luminaire Efficacy Rating (LER): 71.66

Max. Intensity: 323.23 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 1090.2 lm

Efficiency: 100.17%

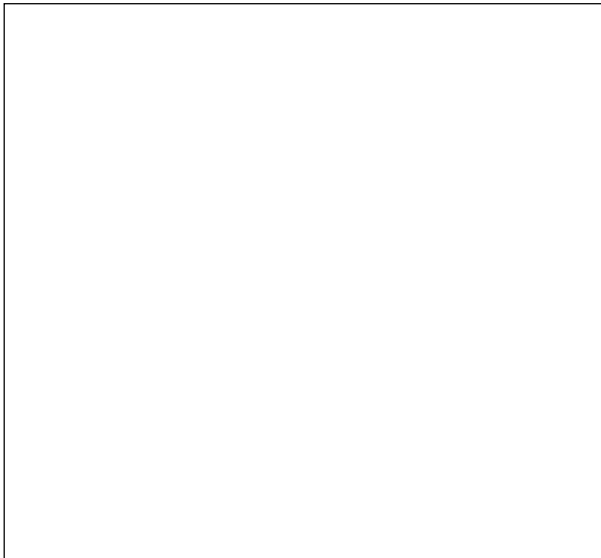
Upward Ratio: 6.50%

Central Intensity: 323.14 cd

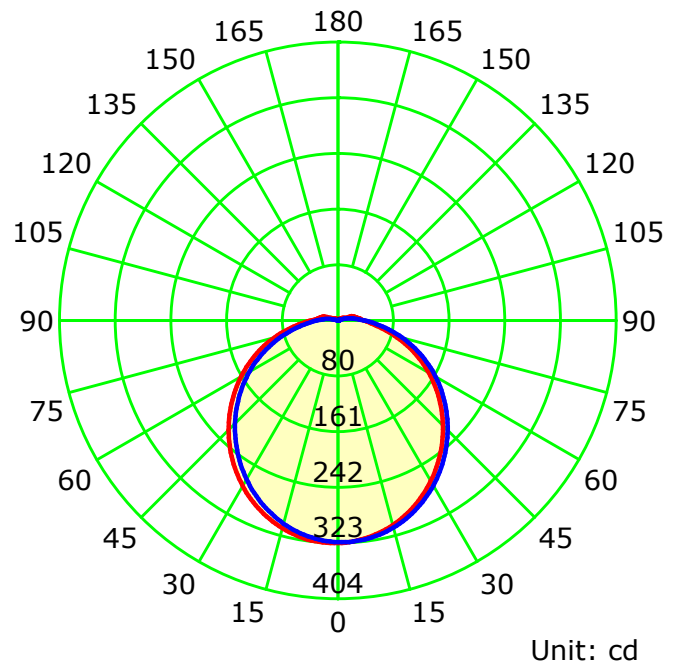
Pos of Max. Intensity: H180 V1

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

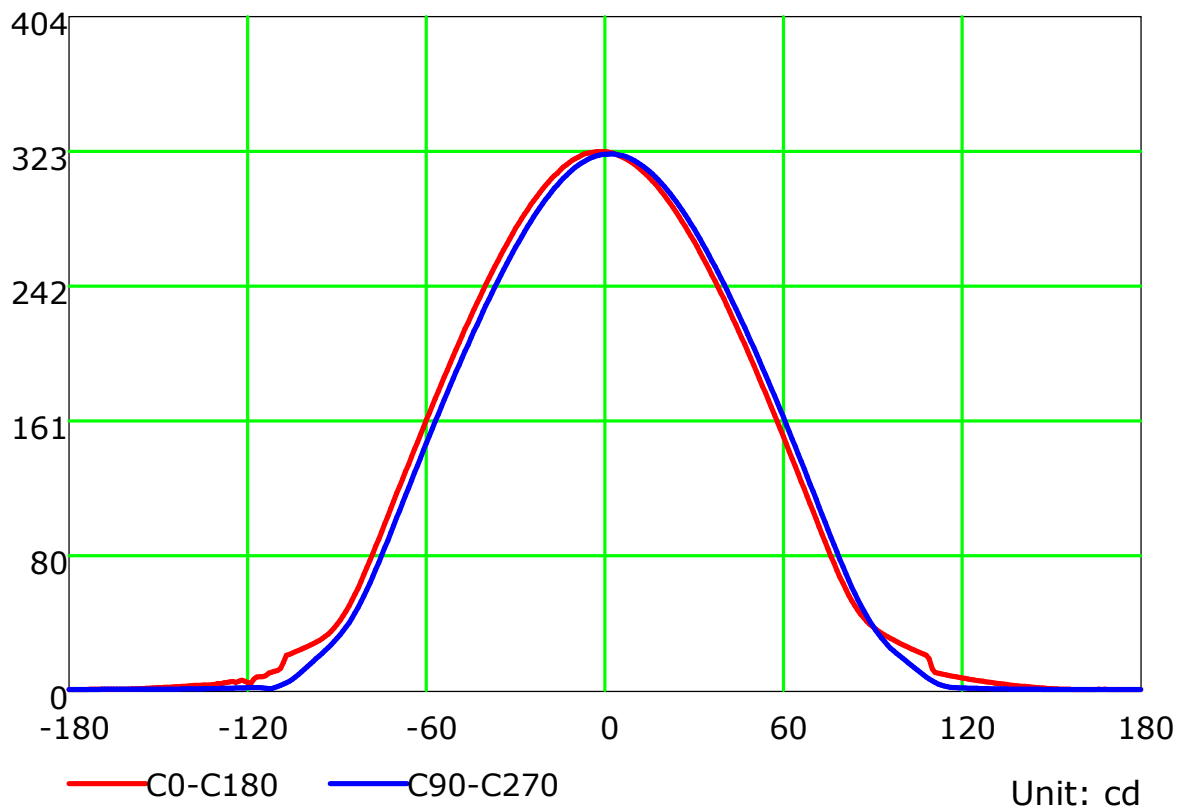
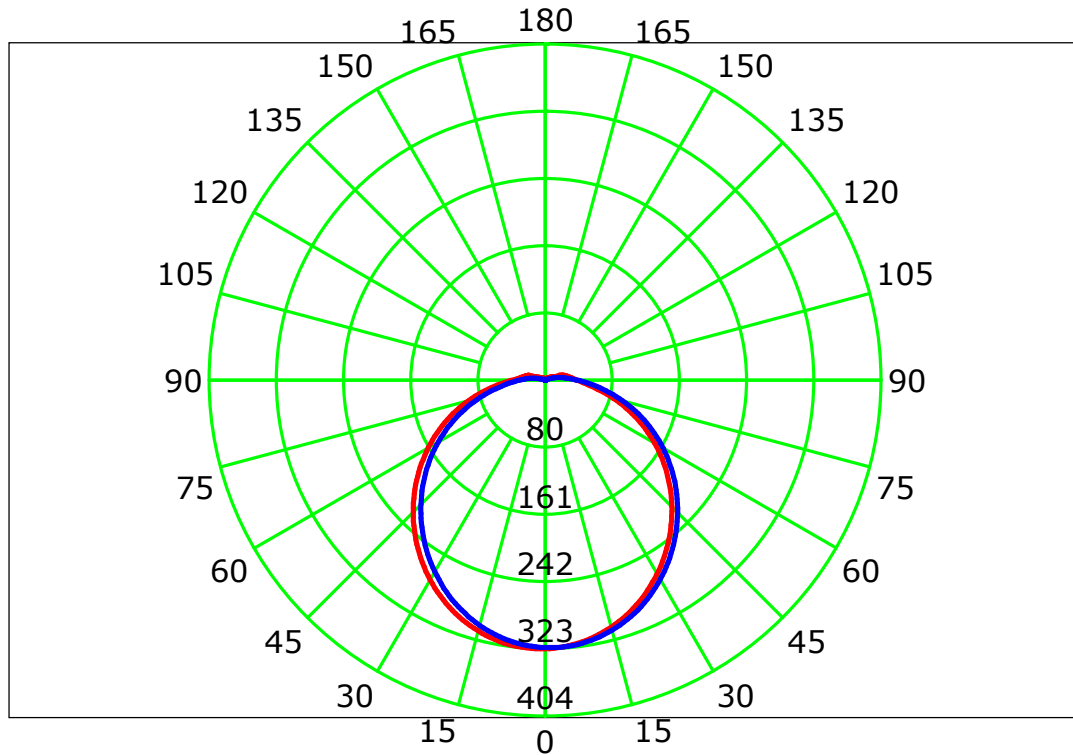
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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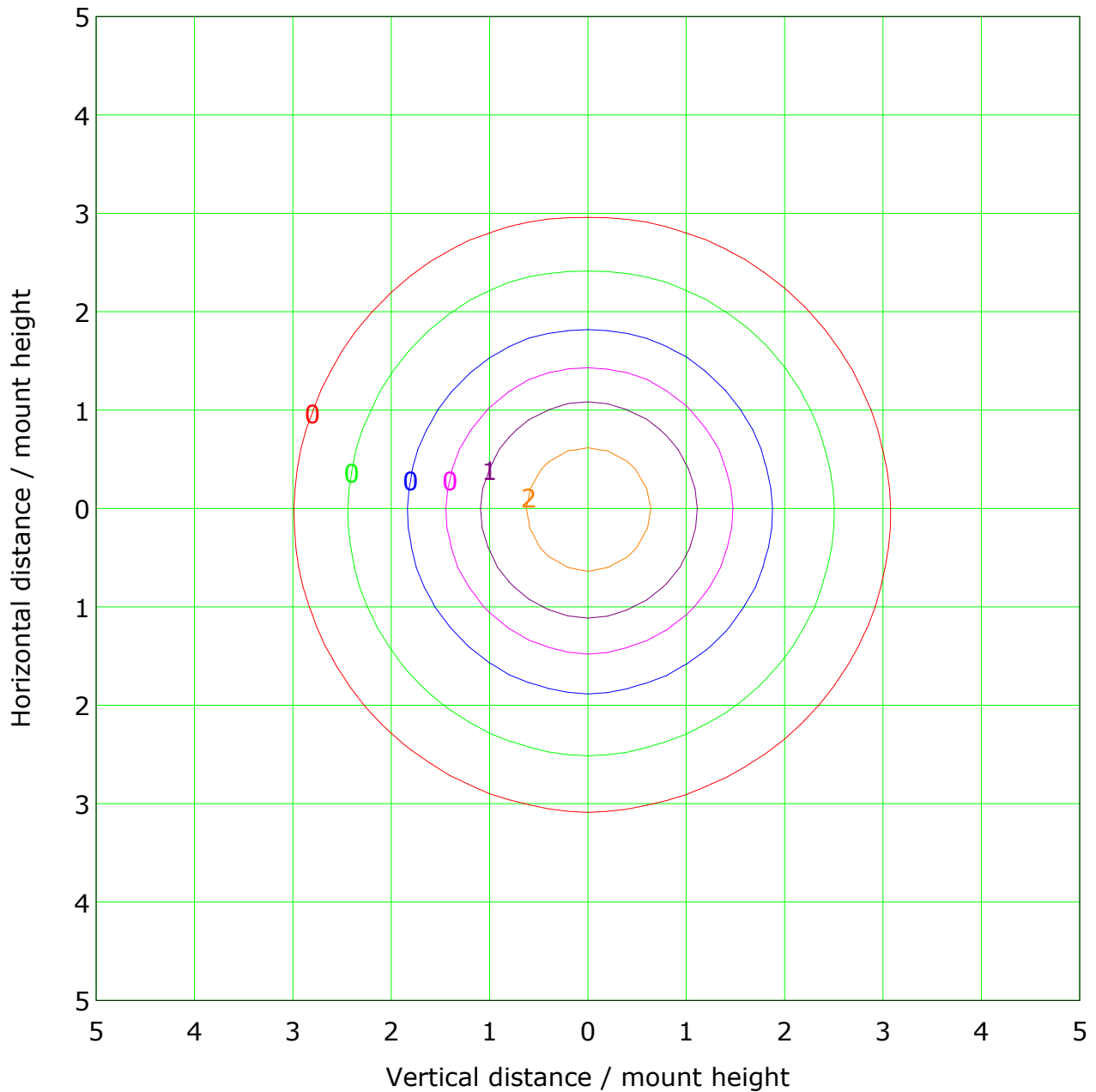
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Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 3.2 lx

(1%): 0.0 lx	(2%): 0.1 lx
(5%): 0.2 lx	(10%): 0.3 lx
(20%): 0.6 lx	(50%): 1.6 lx
(100%): 3.2 lx	

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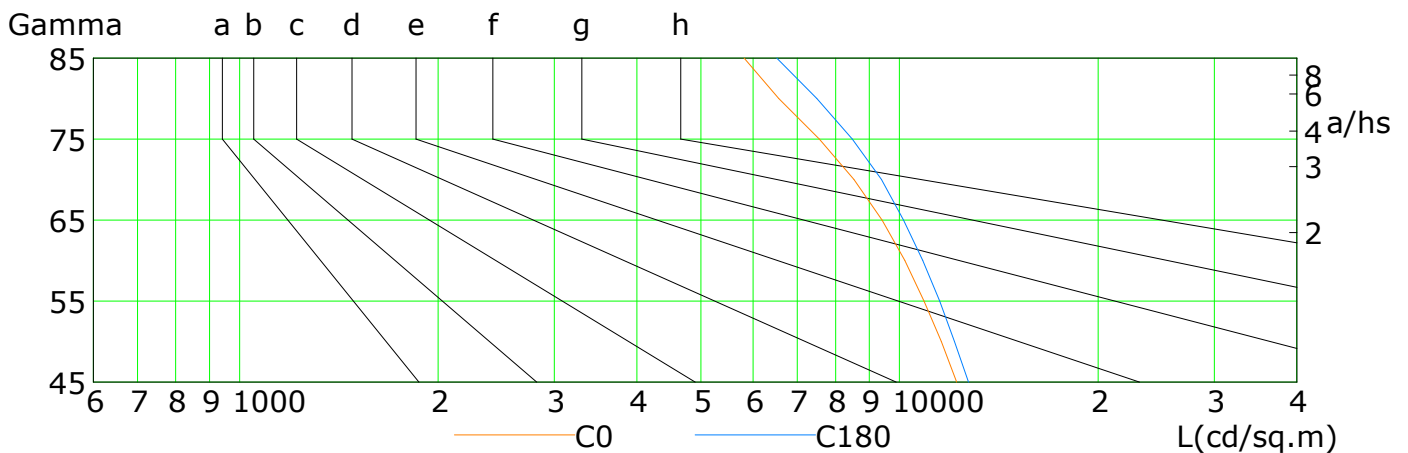
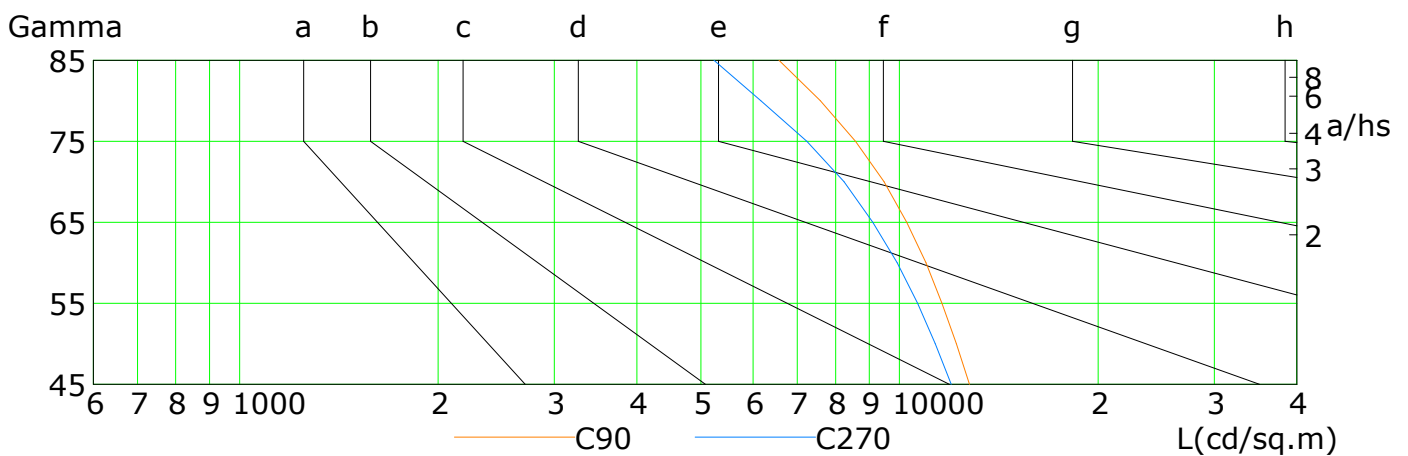
Humidity:

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	12205	11567	10896	10182	9412	8533	7562	6557	5814
C90	12764	12190	11592	10962	10258	9478	8577	7590	6569
C180	12719	12115	11501	10846	10147	9390	8478	7497	6514
C270	11980	11327	10652	9916	9116	8235	7240	6160	5233

C Plane (°):0.0-360.0: 22.5

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

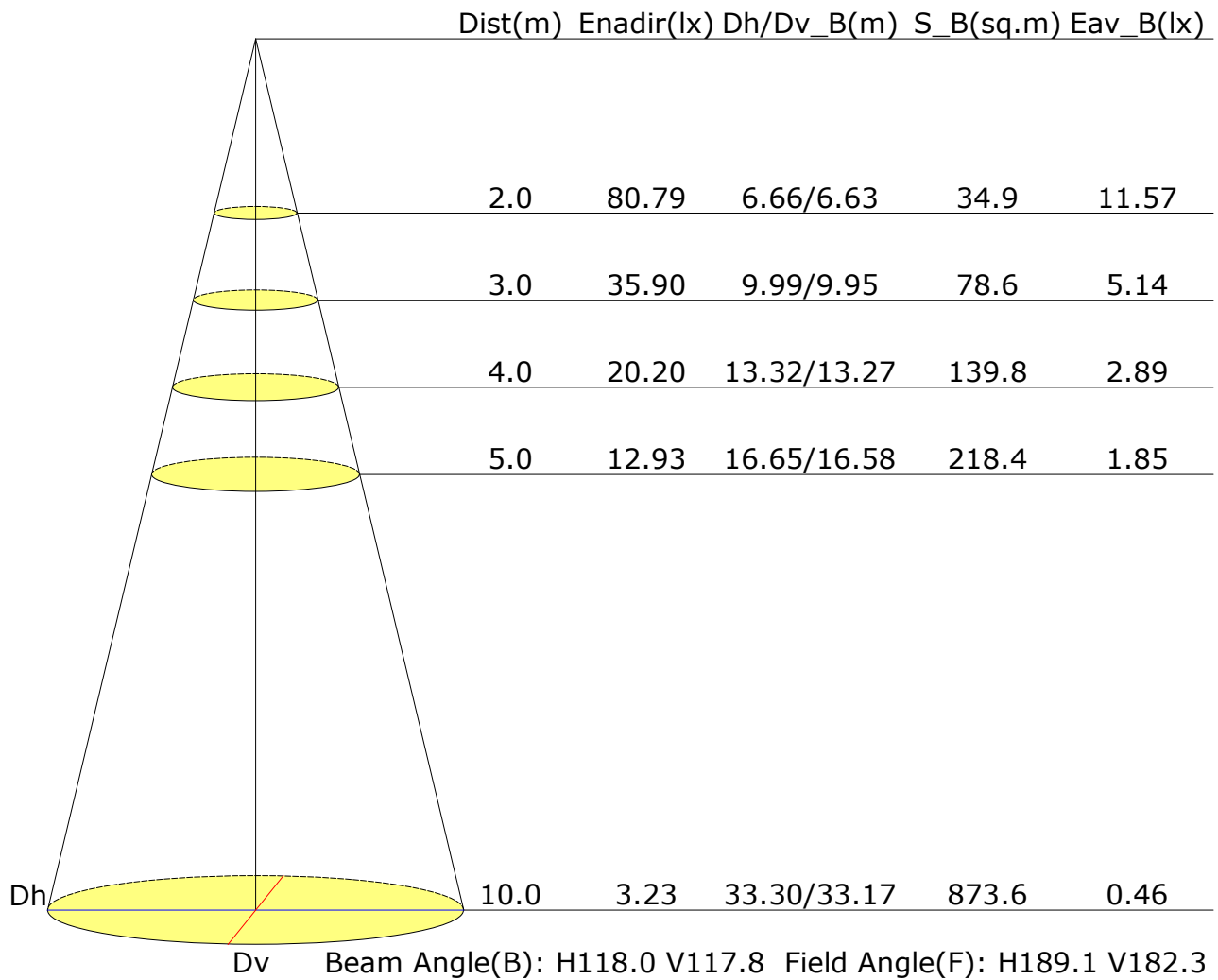
Test Device: LSG-1800B

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	20.1	21.4	20.5	21.8	22.2	20.2	21.6	20.6	21.9	22.3
3H	21.6	22.9	22.1	23.3	23.7	21.8	23.1	22.2	23.4	23.9
4H	22.3	23.5	22.7	23.9	24.3	22.5	23.7	23.0	24.1	24.5
6H	22.9	24.0	23.3	24.4	24.9	23.1	24.2	23.6	24.6	25.1
8H	23.1	24.2	23.6	24.6	25.1	23.3	24.4	23.8	24.8	25.3
12H	23.3	24.3	23.8	24.8	25.3	23.5	24.6	24.0	25.0	25.5
X=4H Y=2H	20.7	21.8	21.1	22.3	22.7	20.8	22.0	21.2	22.4	22.8
3H	22.4	23.4	22.9	23.9	24.4	22.6	23.6	23.0	24.0	24.5
4H	23.2	24.1	23.7	24.6	25.1	23.4	24.3	23.9	24.8	25.3
6H	23.9	24.7	24.4	25.2	25.8	24.1	24.9	24.6	25.4	26.0
8H	24.2	25.0	24.7	25.5	26.0	24.4	25.2	25.0	25.7	26.3
12H	24.5	25.2	25.0	25.7	26.3	24.7	25.4	25.3	25.9	26.5
X=8H Y=4H	23.5	24.2	24.0	24.8	25.3	23.7	24.4	24.2	24.9	25.5
6H	24.3	25.0	24.9	25.5	26.1	24.6	25.2	25.1	25.7	26.3
8H	24.7	25.3	25.3	25.9	26.5	25.0	25.5	25.5	26.1	26.7
12H	25.1	25.6	25.7	26.2	26.9	25.4	25.9	26.0	26.4	27.1
X=12H Y=4H	23.5	24.2	24.1	24.7	25.3	23.7	24.4	24.2	24.9	25.5
6H	24.4	25.0	25.0	25.5	26.2	24.6	25.2	25.2	25.7	26.4
8H	24.9	25.4	25.5	25.9	26.6	25.1	25.6	25.7	26.2	26.8
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 1090lm ($8\log(F/F_0) = 0.3$).

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