

Report No.: 1

Test Time: 10.06.2019 10:51

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 18LED 0,3A 36W 5000K

Lamp Description: LED

Luminous Width (mm): 135

Voltage: 221.4 V

Power: 37.07 W

Luminous Length (mm): 1280

Luminous Height (mm): 100

Current: 0.173 A

Power Factor: 0.967

Photometric Results

CIE Class: Direct

Measurement Flux: 4211 lm

Downward Ratio: 92%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.2, 221.3, 198.9, 196.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.8, 127.0, 117.2, 116.3

Luminaire Efficacy Rating (LER): 113.64

Max. Intensity: 1219.93 cd

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 4211.0 lm

Efficiency: 100%

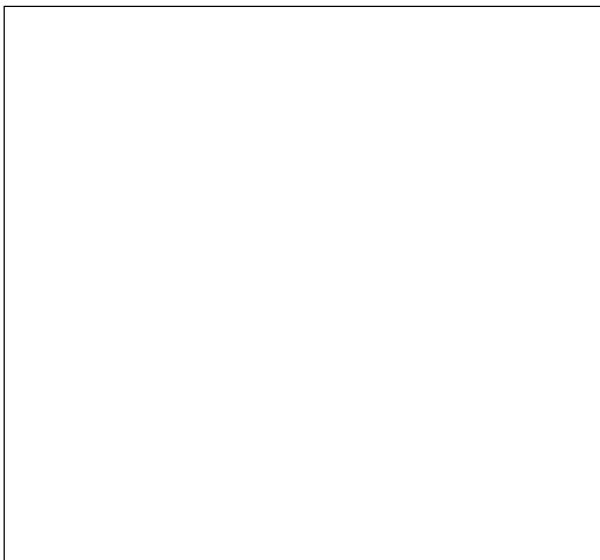
Upward Ratio: 8%

Central Intensity: 1218.69 cd

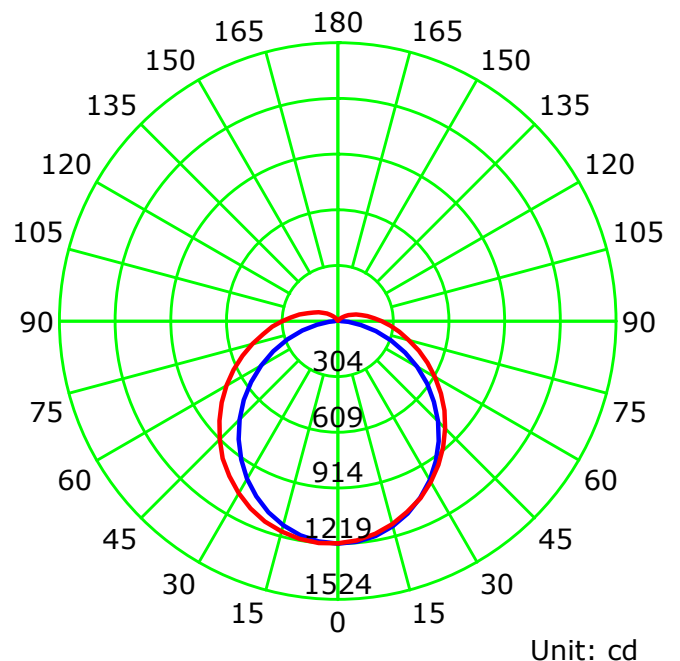
Pos of Max. Intensity: H270 V5

S/MH(C90/C270): 1.29

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 (°):0.0-180.0:5.0

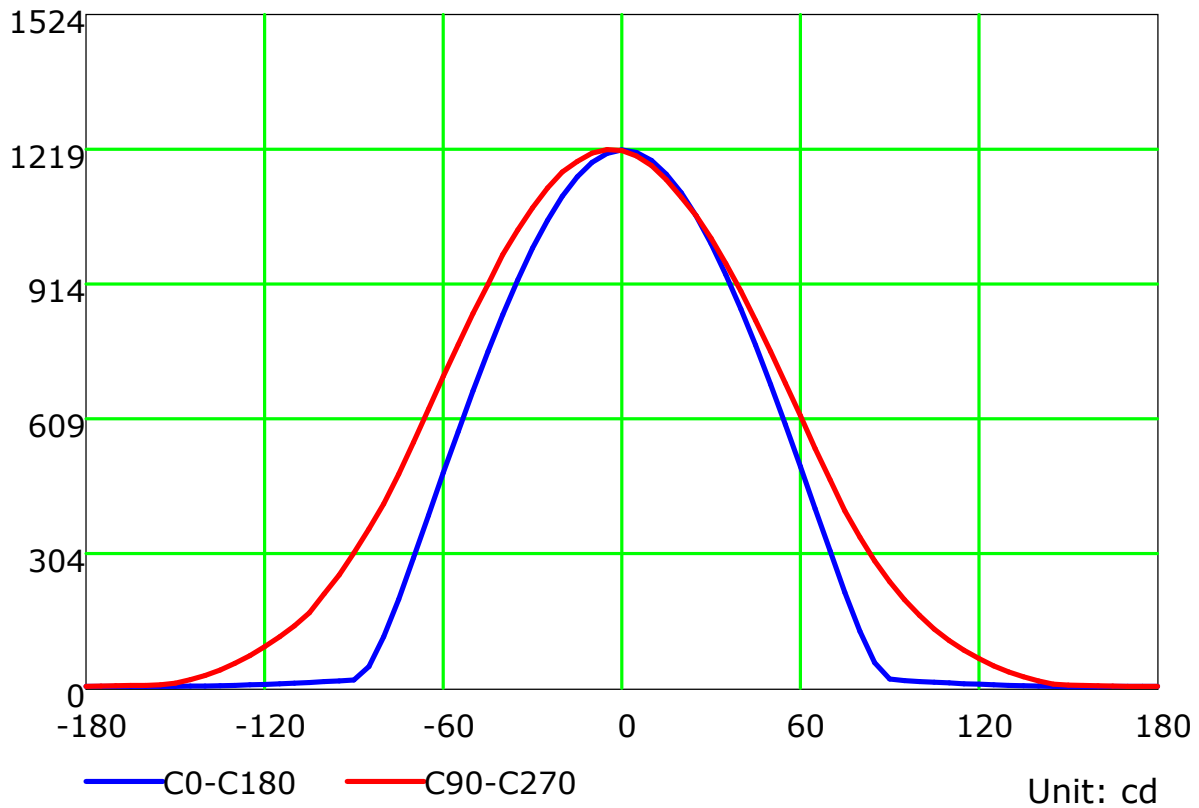
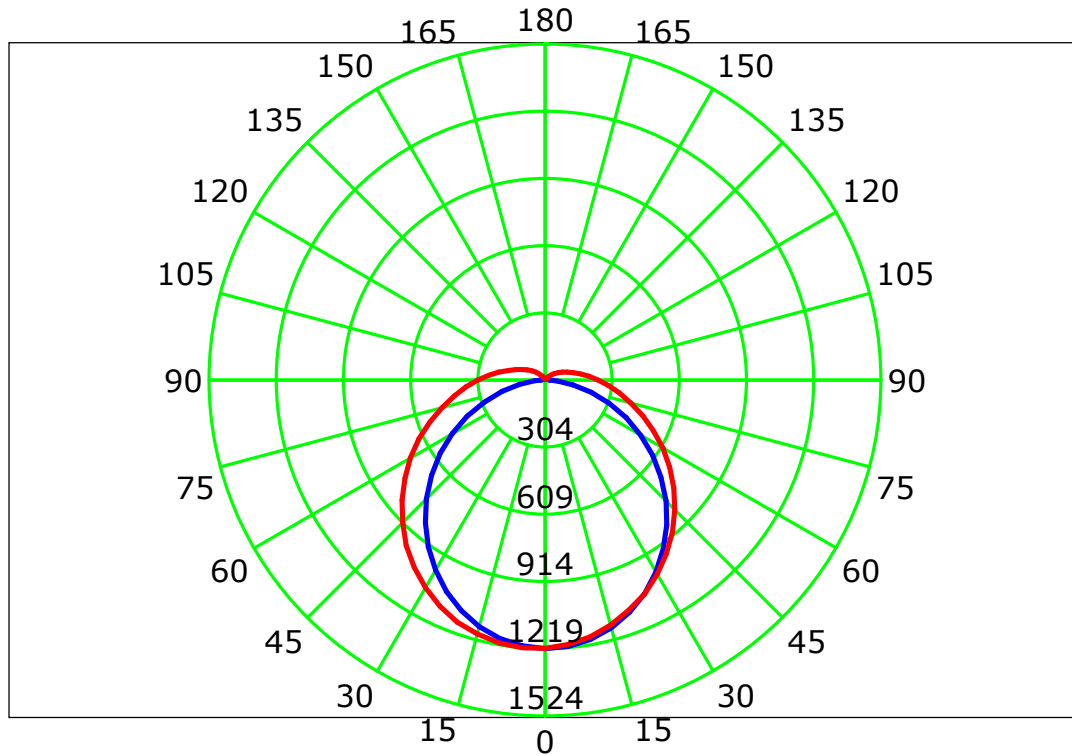
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

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Test Device: LSG-1800B

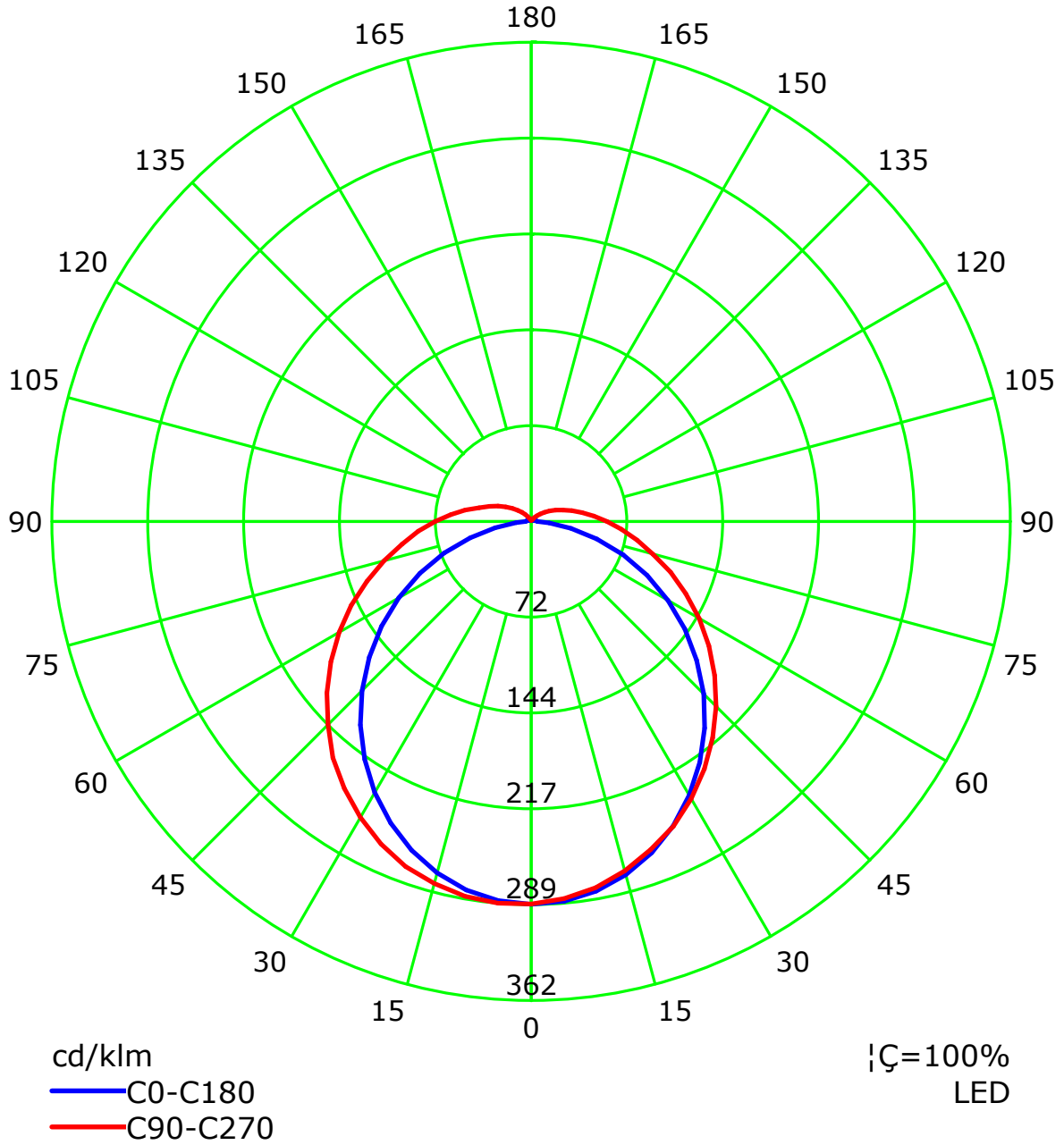
Distance: 12.654 m

Humidity:

Inspector:

Unit: cd

Luminous Intensity Distribution Curve(cd/klm)



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Temperature:

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Test Device: LSG-1800B

Distance: 12.654 m

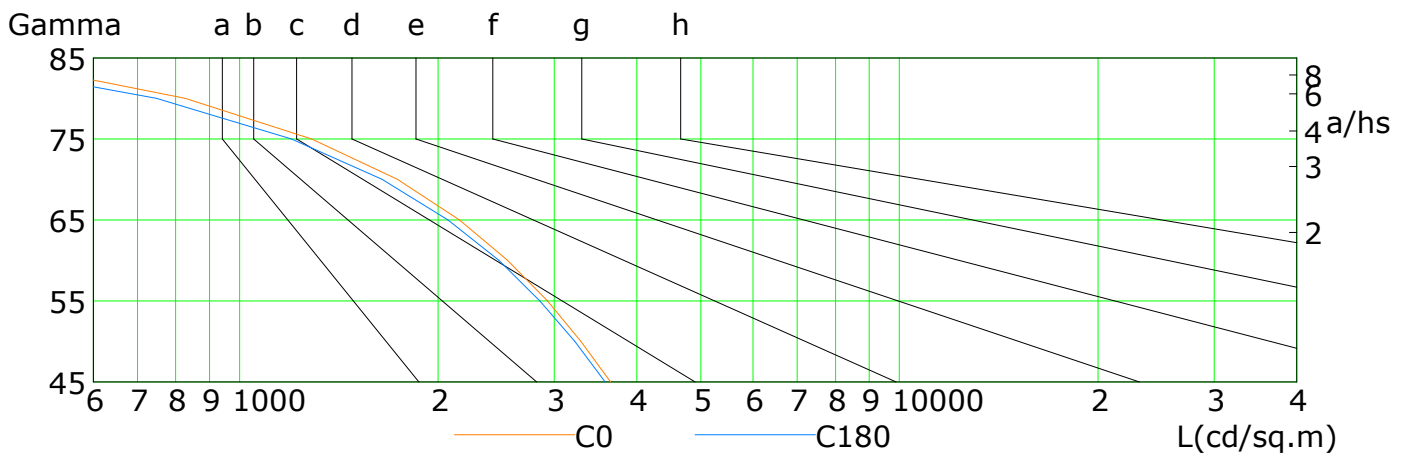
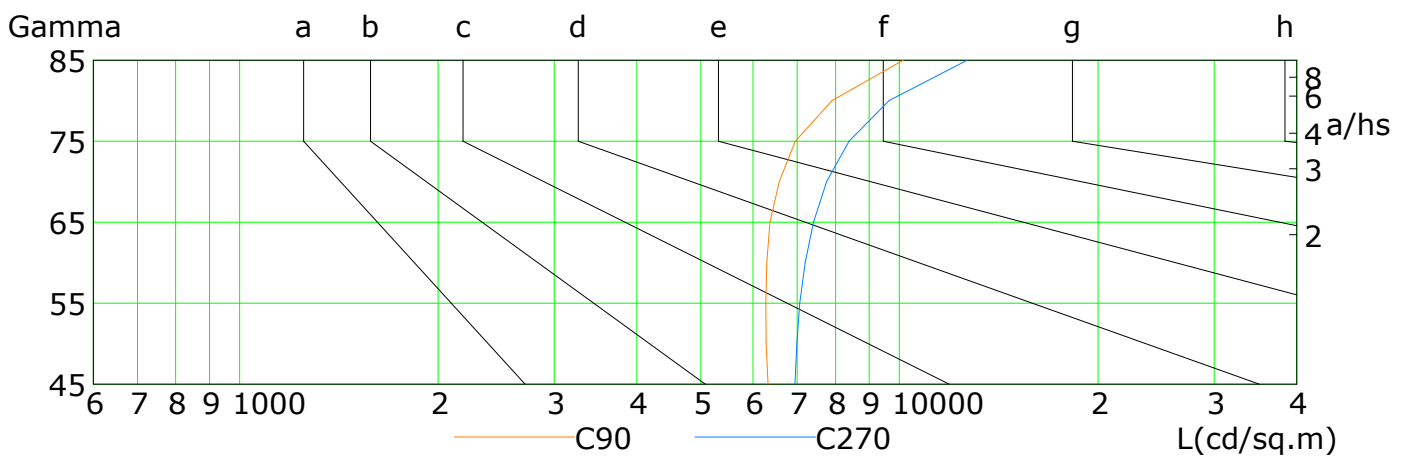
Humidity:

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	3652	3290	2928	2548	2153	1734	1287	827	408
C90	6322	6279	6272	6293	6368	6575	6951	7904	10127
C180	3583	3220	2852	2472	2070	1644	1198	748	346
C270	6945	6989	7063	7198	7411	7756	8392	9649	12666

C Plane (°):0.0-360.0: 22.5

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Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

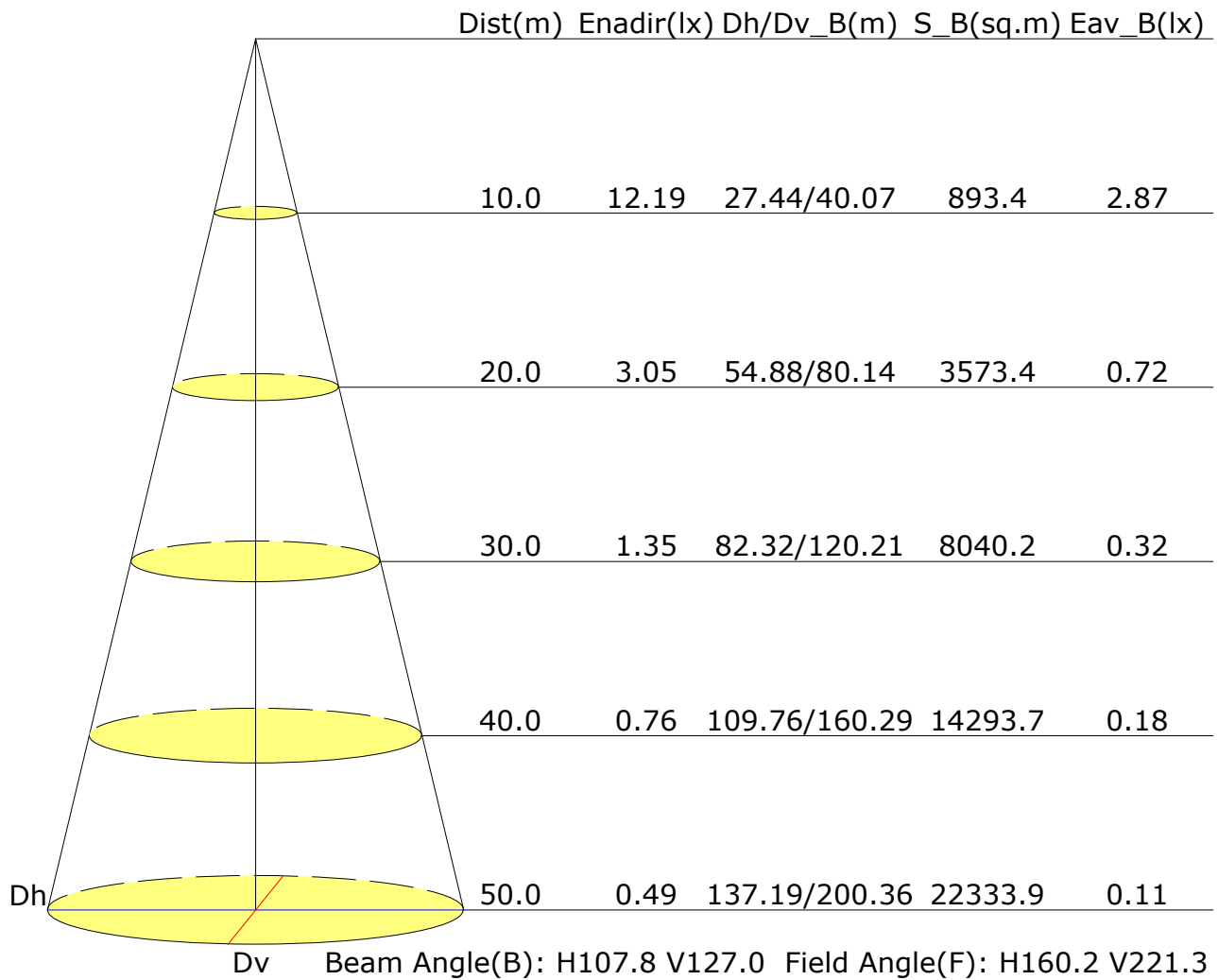
Test Device: LSG-1800B

Distance: 12.654 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 (°):0.0-180.0:5.0

Test Device: LSG-1800B

Distance: 12.654 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	15.6	17.0	16.0	17.4	17.8	18.0	19.3	18.4	19.7	20.1
3H	16.8	18.0	17.2	18.4	18.8	20.1	21.3	20.6	21.7	22.2
4H	17.1	18.3	17.6	18.7	19.2	21.2	22.3	21.7	22.8	23.3
6H	17.4	18.4	17.9	18.9	19.4	22.3	23.4	22.8	23.9	24.4
8H	17.4	18.5	17.9	18.9	19.4	22.9	23.9	23.4	24.4	24.9
12H	17.4	18.4	17.9	18.9	19.4	23.5	24.5	24.0	25.0	25.5
X=4H Y=2H	16.5	17.6	17.0	18.1	18.6	18.3	19.5	18.8	19.9	20.4
3H	17.8	18.8	18.3	19.3	19.8	20.6	21.6	21.1	22.1	22.6
4H	18.3	19.2	18.9	19.7	20.3	21.9	22.8	22.4	23.3	23.8
6H	18.7	19.5	19.2	20.0	20.6	23.2	24.0	23.7	24.5	25.1
8H	18.8	19.5	19.3	20.0	20.6	23.9	24.6	24.4	25.1	25.7
12H	18.8	19.5	19.4	20.0	20.7	24.6	25.3	25.2	25.8	26.5
X=8H Y=4H	18.9	19.7	19.5	20.2	20.8	22.0	22.8	22.6	23.3	23.9
6H	19.4	20.1	20.0	20.6	21.3	23.5	24.1	24.1	24.7	25.3
8H	19.6	20.2	20.2	20.8	21.4	24.3	24.8	24.9	25.4	26.1
12H	19.8	20.2	20.4	20.8	21.5	25.2	25.7	25.8	26.3	27.0
X=12H Y=4H	19.1	19.7	19.6	20.3	20.9	22.0	22.7	22.6	23.2	23.9
6H	19.7	20.2	20.3	20.8	21.5	23.5	24.1	24.1	24.6	25.3
8H	20.0	20.4	20.6	21.1	21.7	24.4	24.8	25.0	25.5	26.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.3				
S=1.5H	+0.3/-0.6					+0.5/-0.6				
S=2.0H	+0.5/-1.0					+0.9/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 4211lm ($8\log(F/F_0) = 5.0$).

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