

Report No.: 1

Test Time: 23.07.2019 14:56

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 2x152 LED 40W 4000K opal colebre

Lamp Description: LED

Luminous Width (mm): 76

Voltage: 221.6 V

Power: 42.45 W

Luminous Length (mm): 1500

Luminous Height (mm): 60

Current: 0.195 A

Power Factor: 0.981

Photometric Results

CIE Class: Direct

Measurement Flux: 6127.8 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.9, 158.2, 158.8, 159.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.4, 105.3, 106.3, 106.5

Luminaire Efficacy Rating (LER): 144.40

Max. Intensity: 2284.25 cd

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 6127.8 lm

Efficiency: 100%

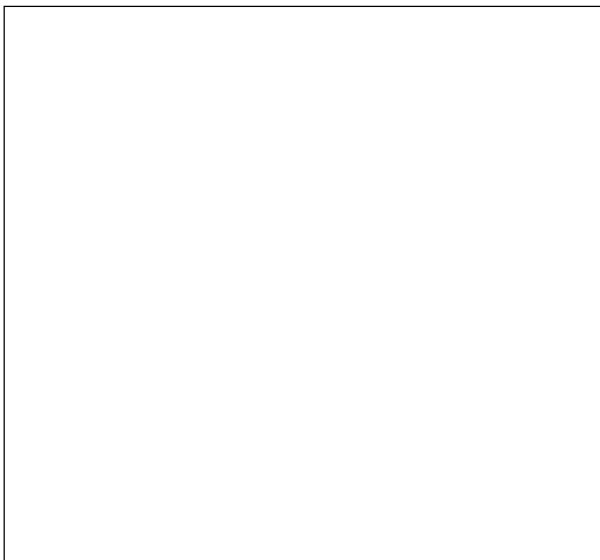
Upward Ratio: 1%

Central Intensity: 2284.25 cd

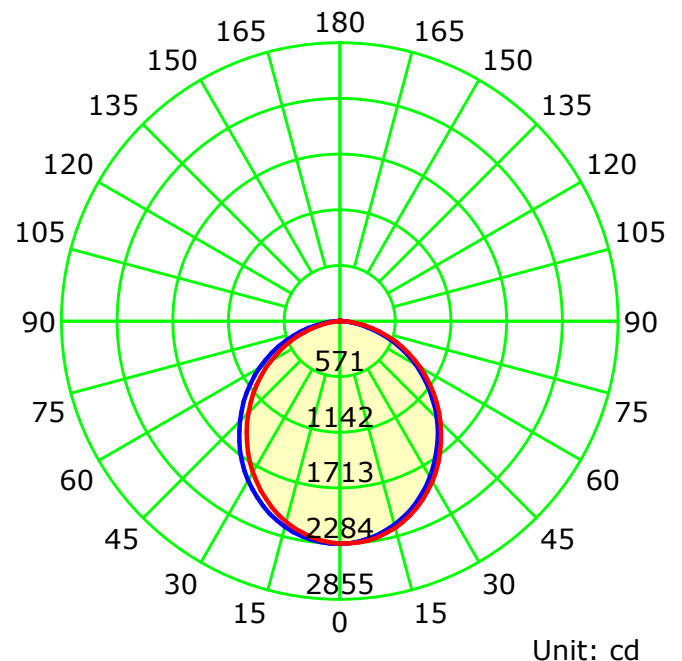
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.20

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

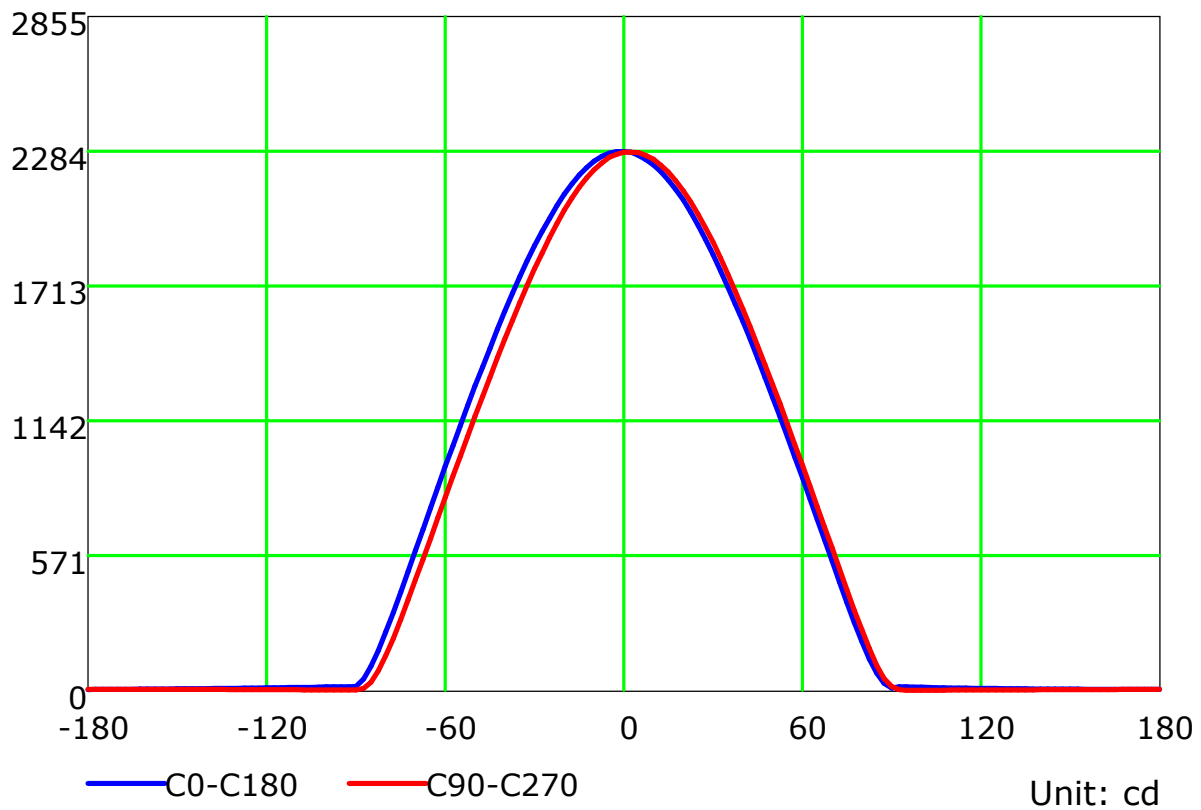
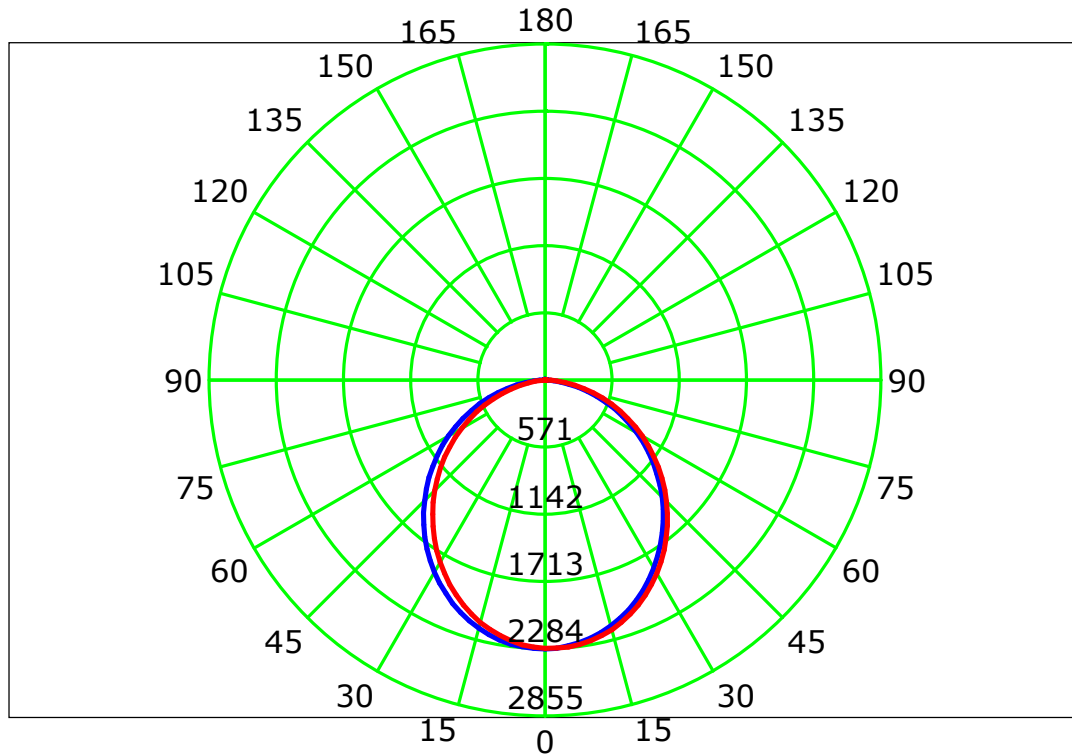
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

Test Type: TYPE C

Temperature:

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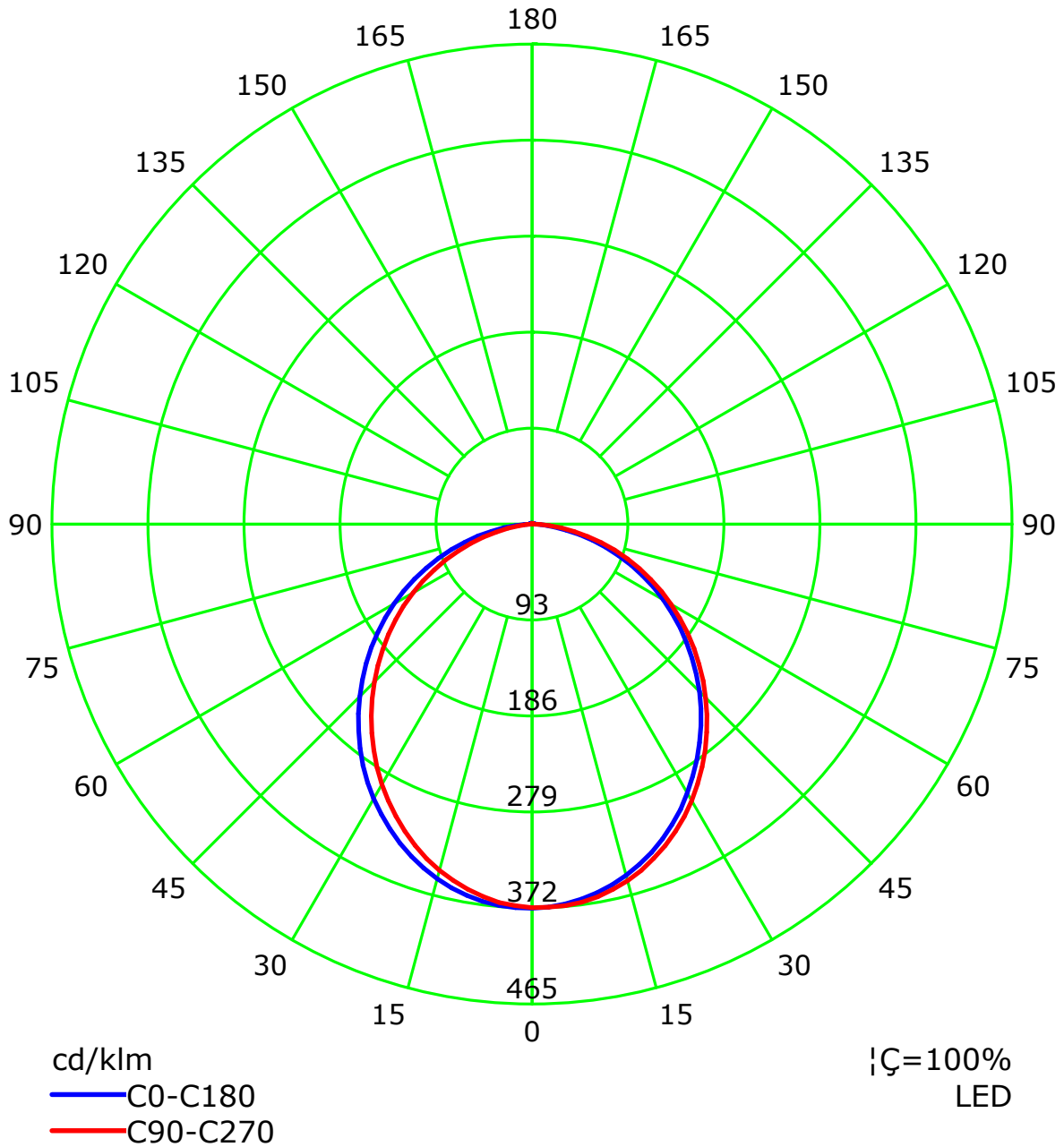
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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Test Device: LSG-1800B

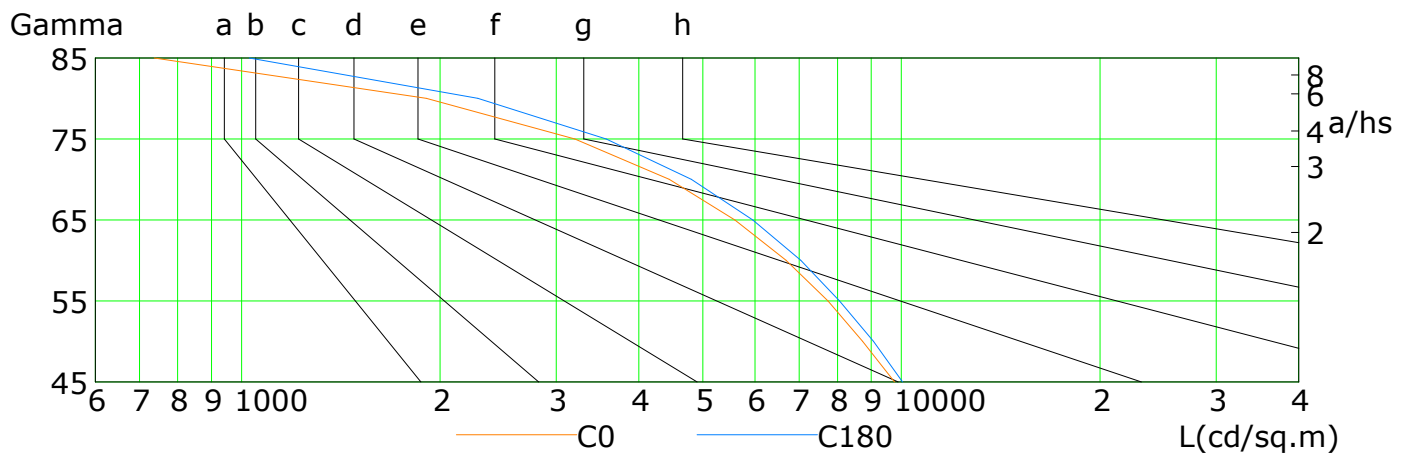
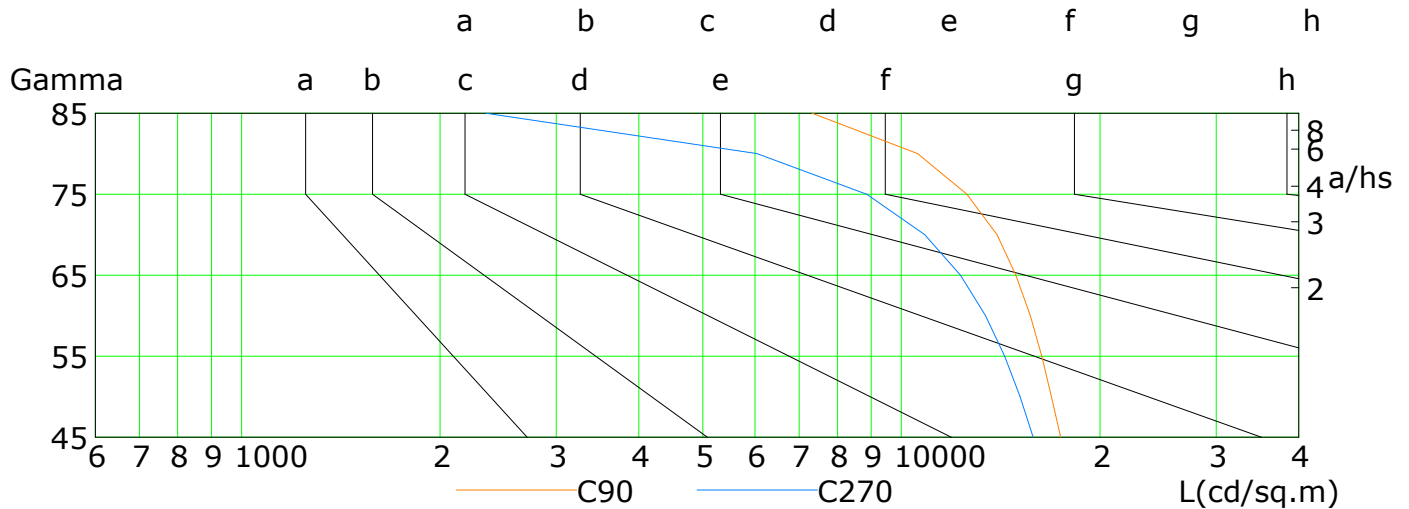
Distance: 12.677 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	9765	8732	7738	6686	5595	4446	3199	1906	738
C90	17425	16883	16329	15685	14905	13963	12566	10584	7325
C180	10045	9071	8056	7043	5956	4805	3571	2280	1028
C270	15830	15124	14344	13416	12284	10851	8861	6040	2349

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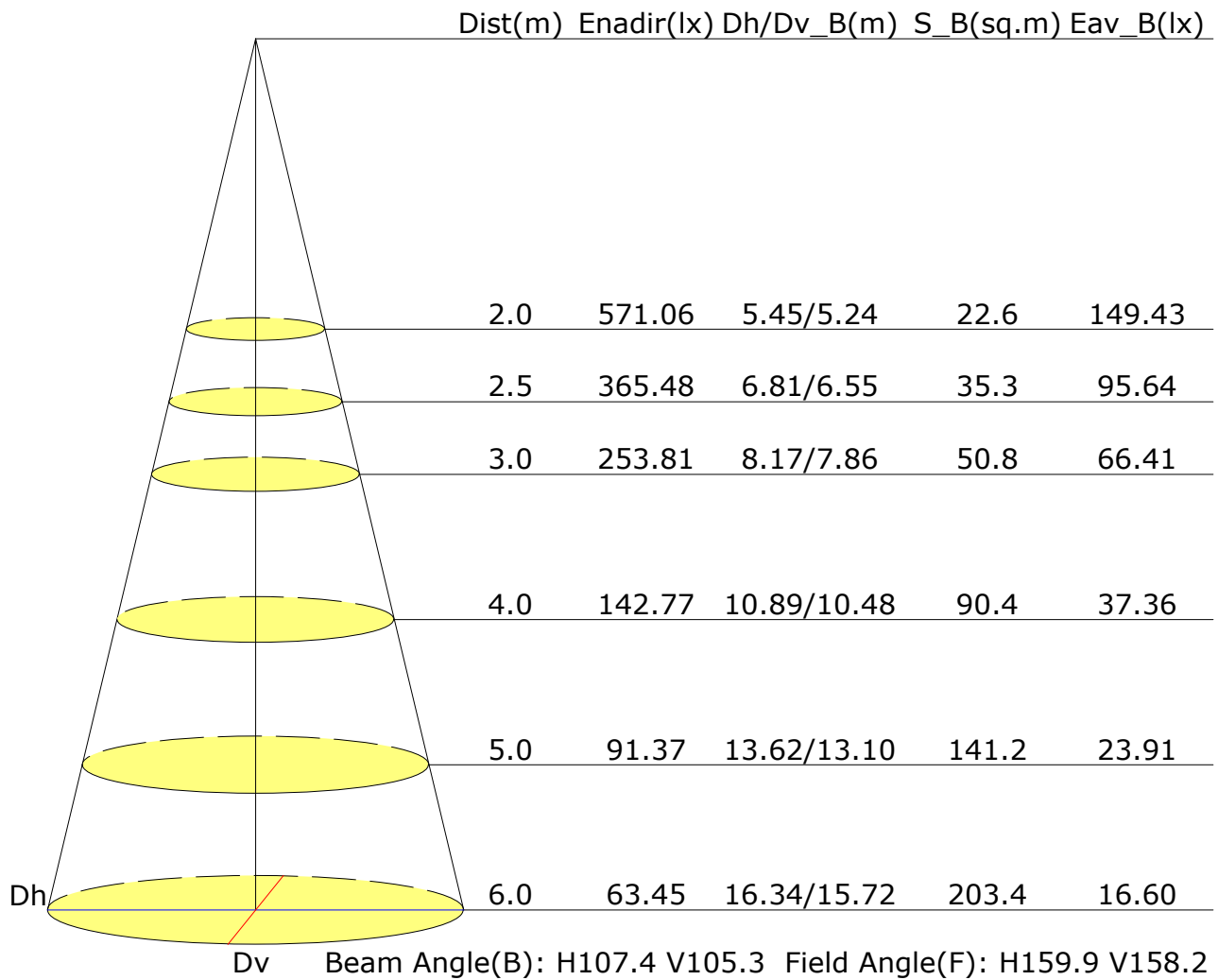
Test Device: LSG-1800B

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	19.7	21.1	20.0	21.3	21.6	21.0	22.4	21.3	22.6	22.9
3H	20.8	22.0	21.1	22.3	22.6	22.4	23.7	22.8	24.0	24.2
4H	21.1	22.3	21.4	22.6	22.9	23.0	24.1	23.3	24.4	24.7
6H	21.2	22.3	21.6	22.7	23.0	23.3	24.4	23.7	24.7	25.1
8H	21.3	22.3	21.6	22.6	23.0	23.4	24.5	23.8	24.8	25.1
12H	21.3	22.3	21.6	22.6	23.0	23.4	24.4	23.8	24.8	25.1
X=4H Y=2H	20.3	21.5	20.7	21.8	22.1	21.4	22.5	21.7	22.8	23.2
3H	21.5	22.5	21.9	22.9	23.2	22.9	23.9	23.3	24.3	24.6
4H	21.9	22.8	22.3	23.2	23.6	23.5	24.4	24.0	24.8	25.2
6H	22.2	23.0	22.6	23.4	23.8	24.0	24.8	24.4	25.2	25.6
8H	22.2	22.9	22.7	23.3	23.8	24.1	24.8	24.5	25.2	25.7
12H	22.2	22.9	22.7	23.3	23.8	24.1	24.8	24.6	25.2	25.7
X=8H Y=4H	22.1	22.9	22.6	23.3	23.7	23.6	24.4	24.1	24.8	25.2
6H	22.4	23.0	22.9	23.5	24.0	24.1	24.7	24.6	25.1	25.6
8H	22.5	23.0	23.0	23.5	24.0	24.3	24.8	24.8	25.3	25.8
12H	22.5	23.0	23.0	23.5	24.0	24.4	24.8	24.9	25.3	25.8
X=12H Y=4H	22.1	22.8	22.6	23.2	23.7	23.6	24.3	24.1	24.7	25.2
6H	22.5	23.0	22.9	23.4	23.9	24.1	24.6	24.6	25.1	25.6
8H	22.5	23.0	23.0	23.5	24.0	24.3	24.7	24.8	25.2	25.7
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.2				
S=1.5H	+0.4/-0.7					+0.3/-0.5				
S=2.0H	+0.8/-1.3					+0.8/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 6128lm ($8\log(F/F_0) = 6.3$).

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