

Report No.: 1

Test Time: 23.07.2019 12:22

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 2x76 LED 24W 4000K opal colebre

Lamp Description: LED

Luminous Width (mm): 76

Voltage: 221.6 V

Power: 23.68 W

Luminous Length (mm): 1500

Luminous Height (mm): 60

Current: 0.110 A

Power Factor: 0.969

## Photometric Results

CIE Class: Direct

Measurement Flux: 3319.4 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.9, 158.3, 159.3, 158.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.5, 105.5, 106.9, 106.0

Luminaire Efficacy Rating (LER): 140.23

Max. Intensity: 1236.89 cd

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 3319.4 lm

Efficiency: 100%

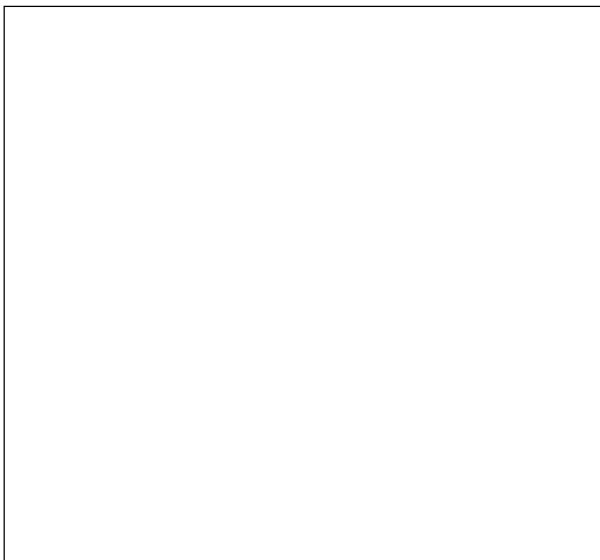
Upward Ratio: 1%

Central Intensity: 1233.78 cd

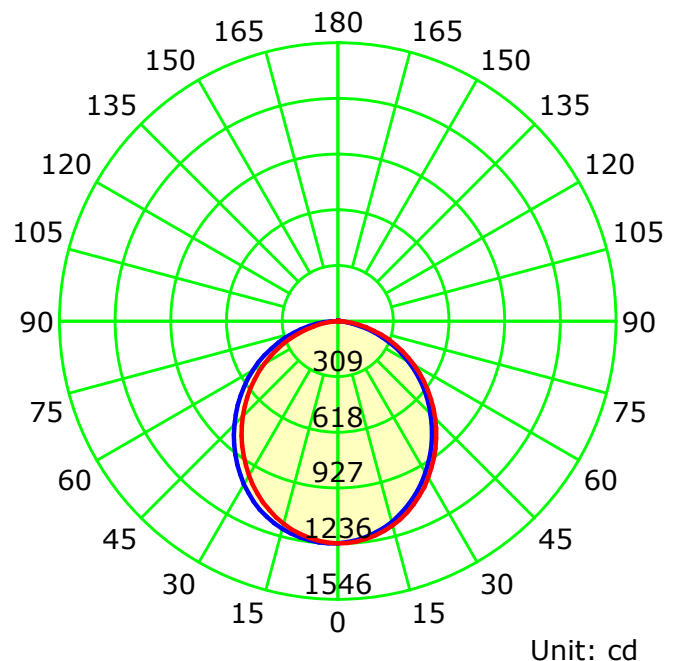
Pos of Max. Intensity: H157.5 V2.5

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

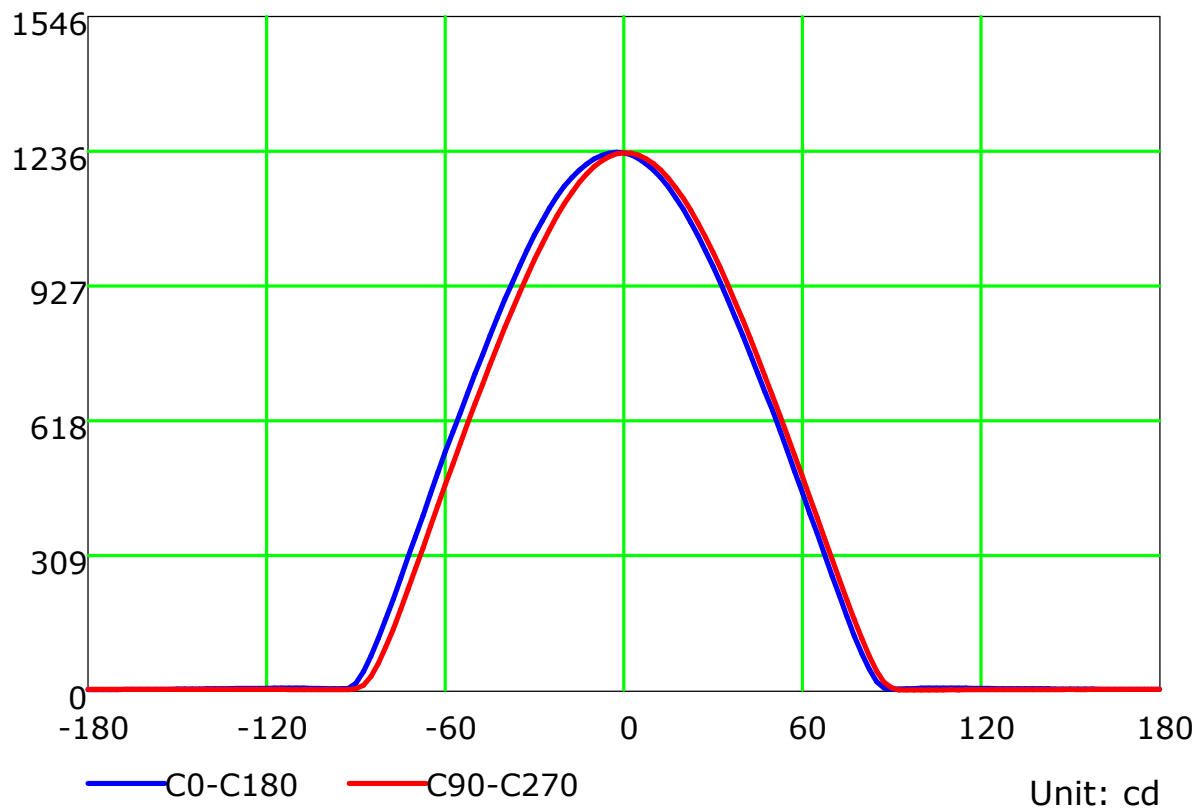
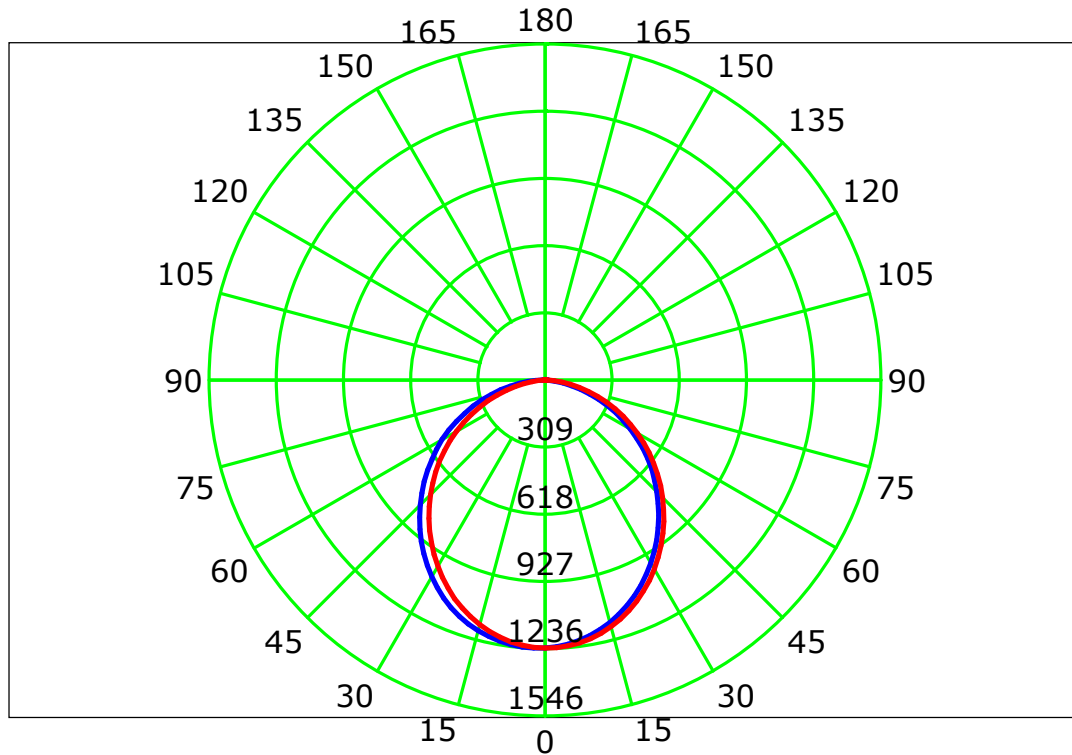
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

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Temperature:

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Gamma Plane (°):0.0-180.0:2.5

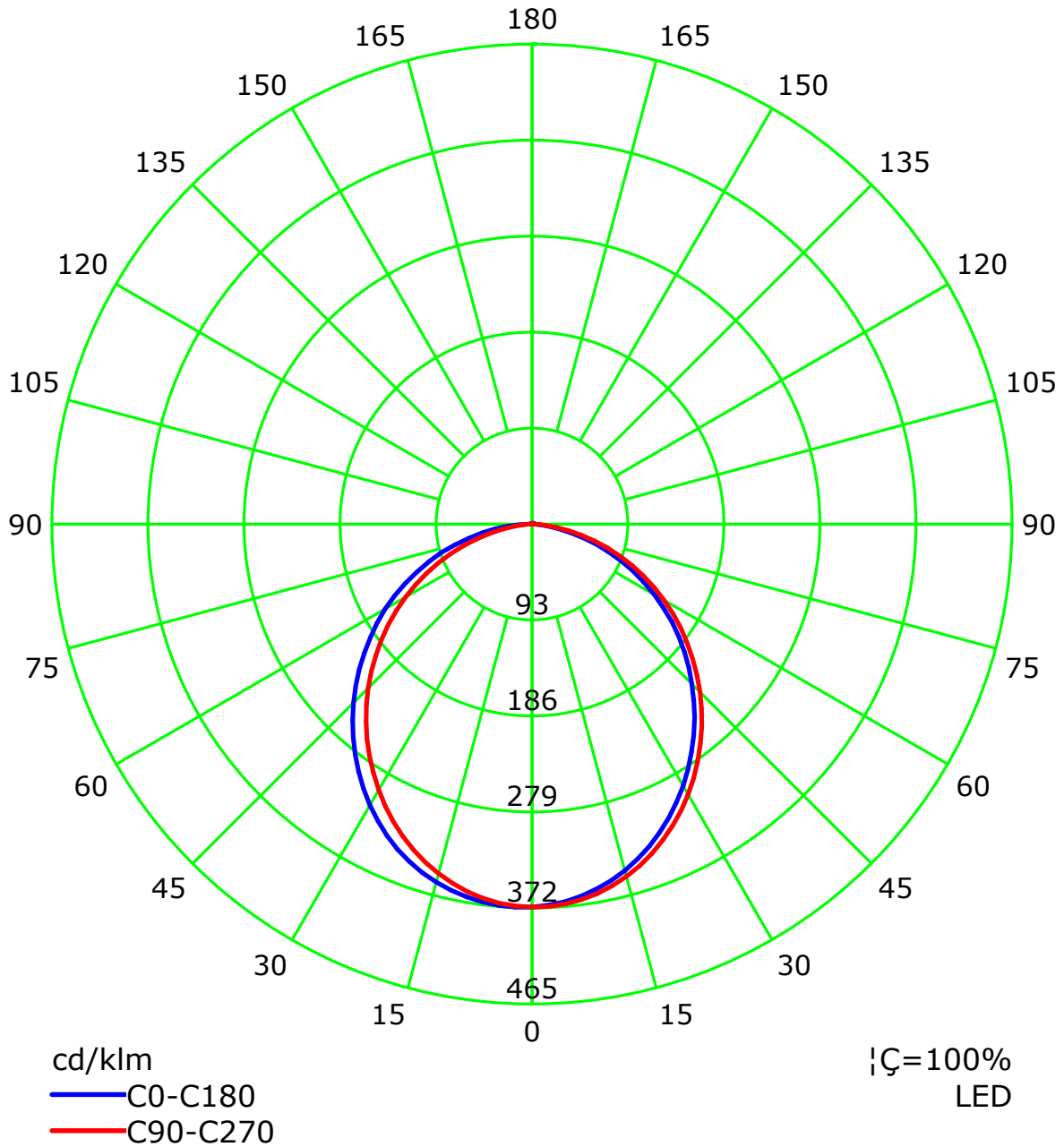
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



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

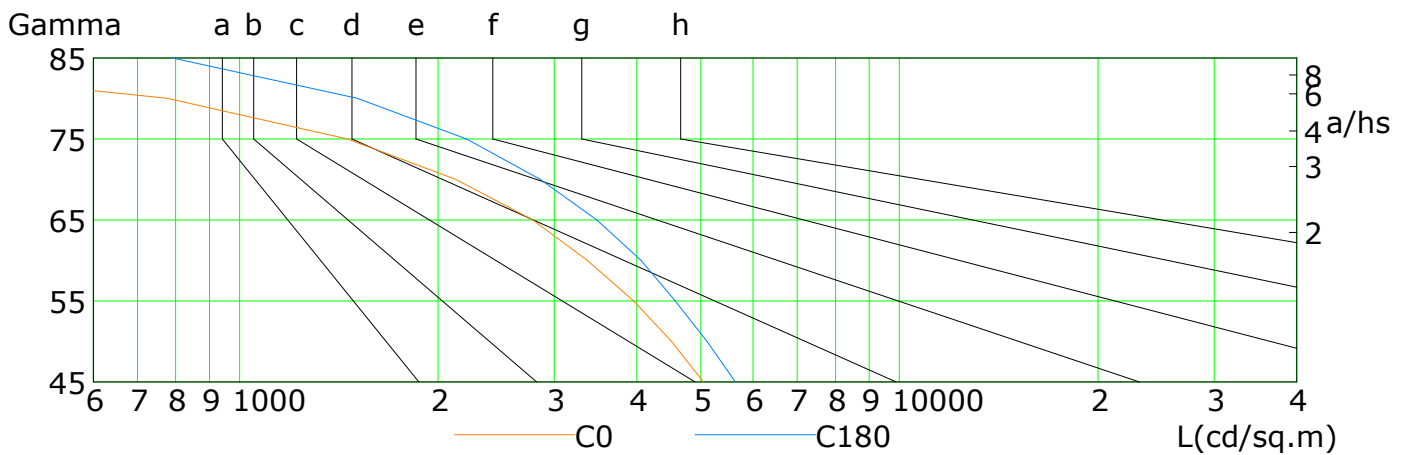
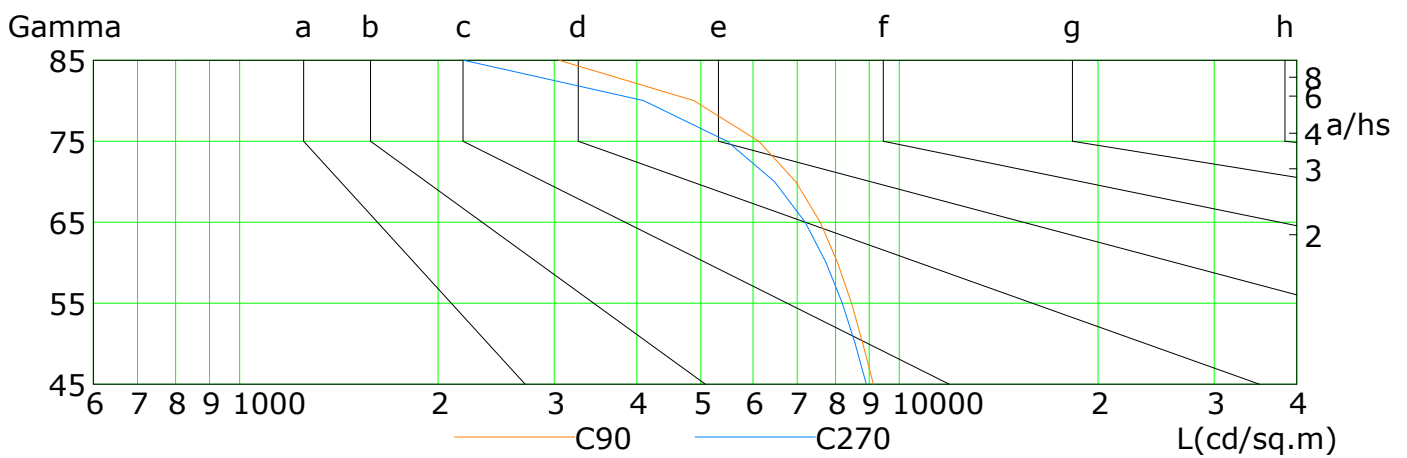
Humidity:

Inspector:

## 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	5048	4515	3955	3365	2782	2125	1457	777	203
C90	9128	8800	8461	8056	7585	6958	6124	4879	3050
C180	5644	5110	4573	4059	3477	2855	2209	1508	791
C270	8914	8569	8191	7744	7195	6464	5480	4093	2187

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.5

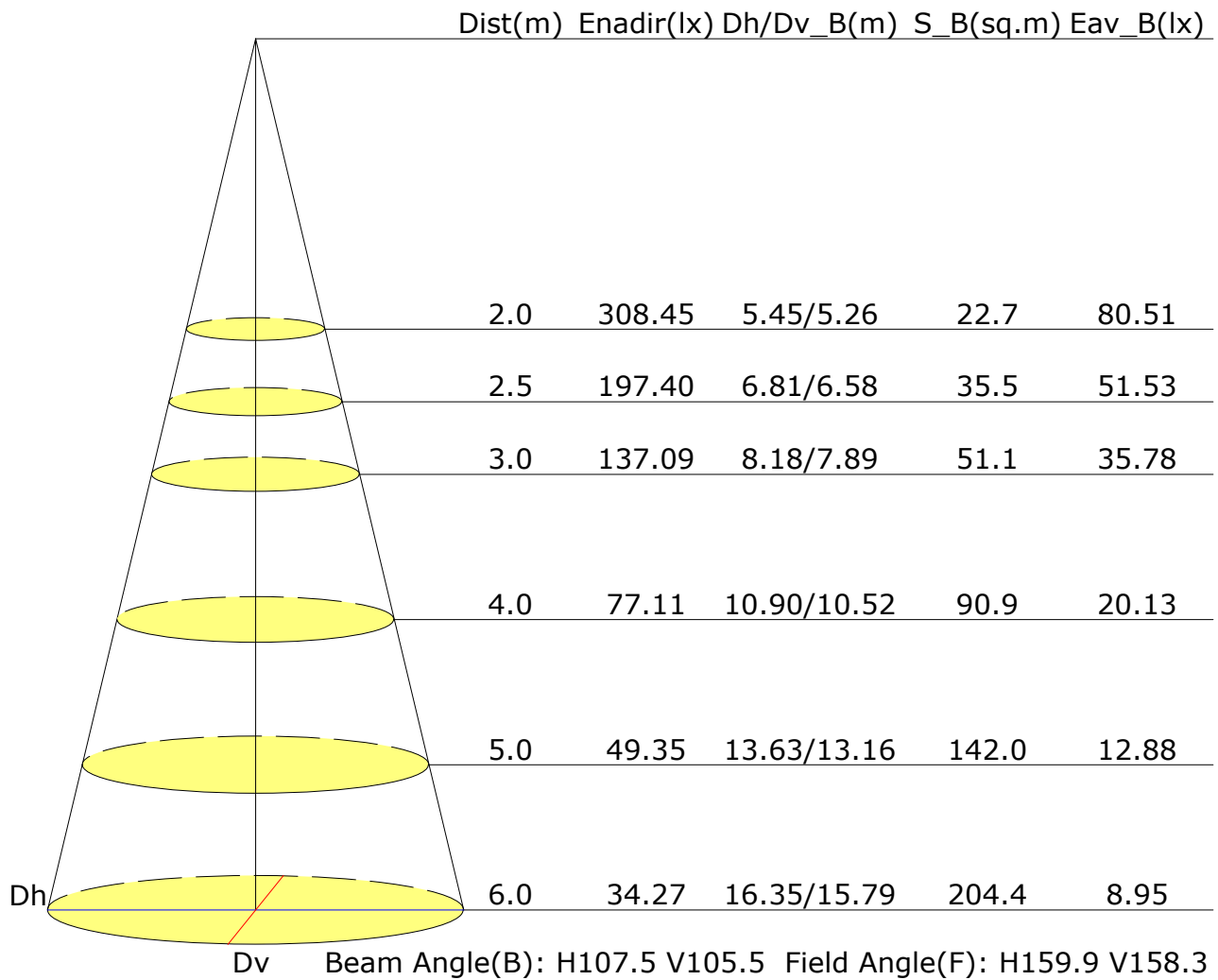
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## 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	17.2	18.5	17.5	18.8	19.1	18.8	20.1	19.1	20.4	20.6
3H	18.1	19.4	18.5	19.7	20.0	20.2	21.4	20.5	21.7	22.0
4H	18.4	19.6	18.8	19.9	20.2	20.7	21.8	21.0	22.1	22.5
6H	18.5	19.6	18.9	19.9	20.3	21.0	22.1	21.4	22.4	22.7
8H	18.5	19.6	18.9	19.9	20.2	21.1	22.1	21.5	22.5	22.8
12H	18.5	19.5	18.9	19.8	20.2	21.1	22.1	21.5	22.5	22.8
X=4H Y=2H	17.8	19.0	18.1	19.2	19.6	19.1	20.2	19.4	20.5	20.8
3H	18.9	19.9	19.3	20.2	20.6	20.6	21.6	21.0	21.9	22.3
4H	19.2	20.1	19.6	20.5	20.9	21.2	22.1	21.6	22.5	22.8
6H	19.4	20.2	19.8	20.6	21.0	21.6	22.4	22.0	22.8	23.2
8H	19.4	20.1	19.8	20.5	21.0	21.7	22.4	22.1	22.8	23.3
12H	19.4	20.0	19.8	20.5	20.9	21.7	22.4	22.2	22.8	23.3
X=8H Y=4H	19.4	20.1	19.9	20.6	21.0	21.2	22.0	21.7	22.4	22.8
6H	19.6	20.2	20.1	20.7	21.1	21.7	22.3	22.2	22.7	23.2
8H	19.7	20.2	20.1	20.6	21.1	21.8	22.3	22.3	22.8	23.3
12H	19.6	20.1	20.2	20.6	21.1	21.9	22.3	22.4	22.8	23.3
X=12H Y=4H	19.4	20.1	19.9	20.5	21.0	21.2	21.9	21.7	22.3	22.8
6H	19.6	20.2	20.1	20.6	21.1	21.7	22.2	22.2	22.7	23.2
8H	19.7	20.1	20.2	20.6	21.1	21.8	22.3	22.3	22.8	23.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.1/-0.1				
S=1.5H	+0.4/-0.8					+0.4/-0.5				
S=2.0H	+0.9/-1.5					+1.1/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 3319lm ( $8\log(F/F_0) = 4.2$ ).

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 Test Device: LSG-1800B  
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