

Report No.: 1

Test Time: 31.07.2019 08:40

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 2x152 LED 75W 4000K microprisma

Lamp Description: LED

Luminous Width (mm): 76

Voltage: 221.2 V

Power: 73.61 W

Luminous Length (mm): 1500

Luminous Height (mm): 60

Current: 0.340 A

Power Factor: 0.978

## Photometric Results

CIE Class: Direct

Measurement Flux: 9196 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 151.6, 149.3, 143.5, 144.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 84.0, 82.9, 81.4, 81.3

Luminaire Efficacy Rating (LER): 124.98

Max. Intensity: 4586.88 cd

S/MH(C0/C180): 1.21

Total Rated Lamp Lumens: 9196.0 lm

Efficiency: 100%

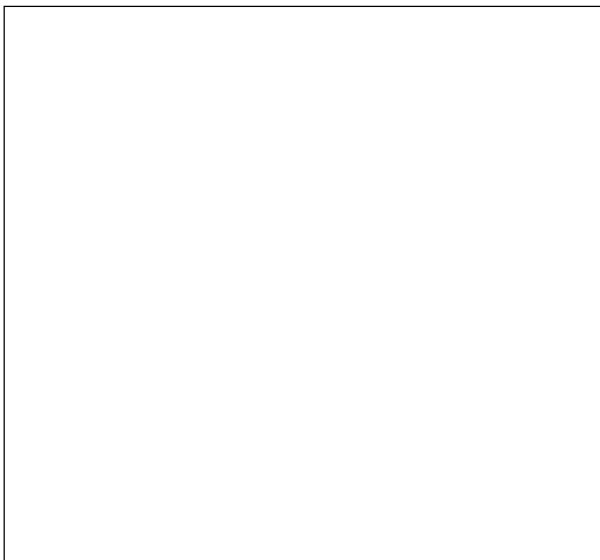
Upward Ratio: 1%

Central Intensity: 4551.05 cd

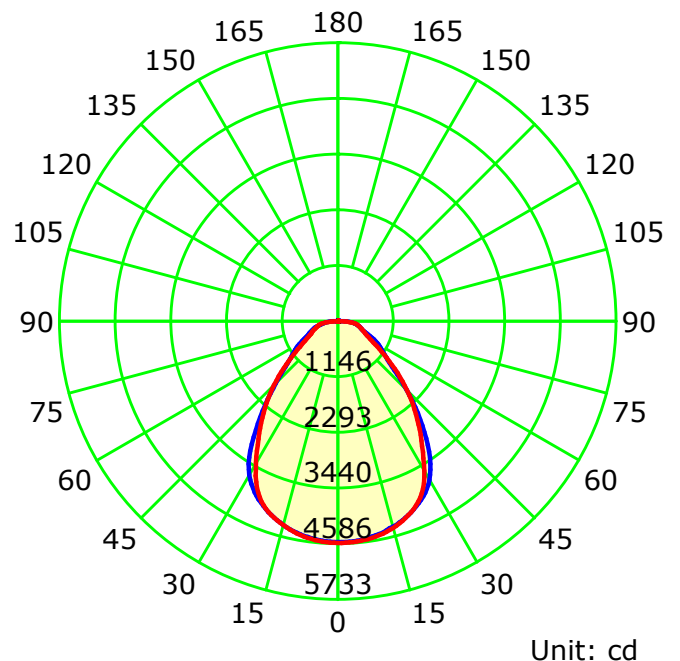
Pos of Max. Intensity: H337.5 V2

S/MH(C90/C270): 1.14

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

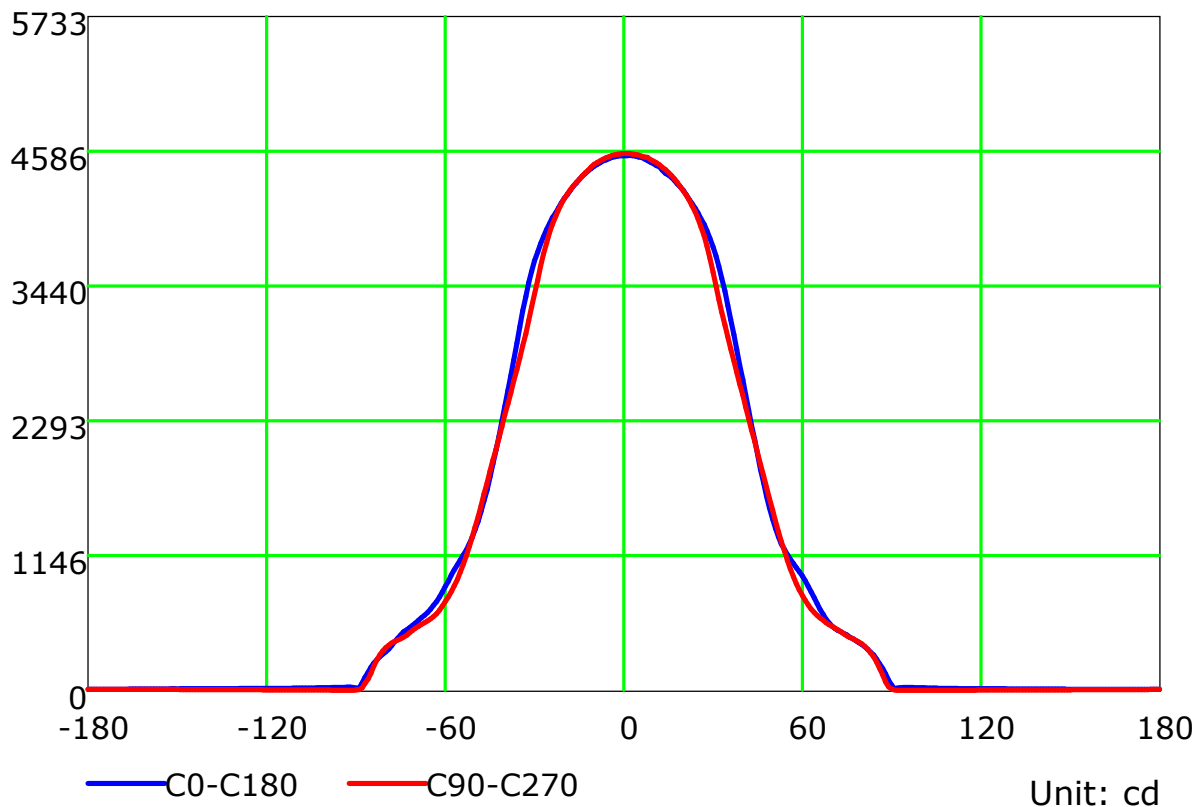
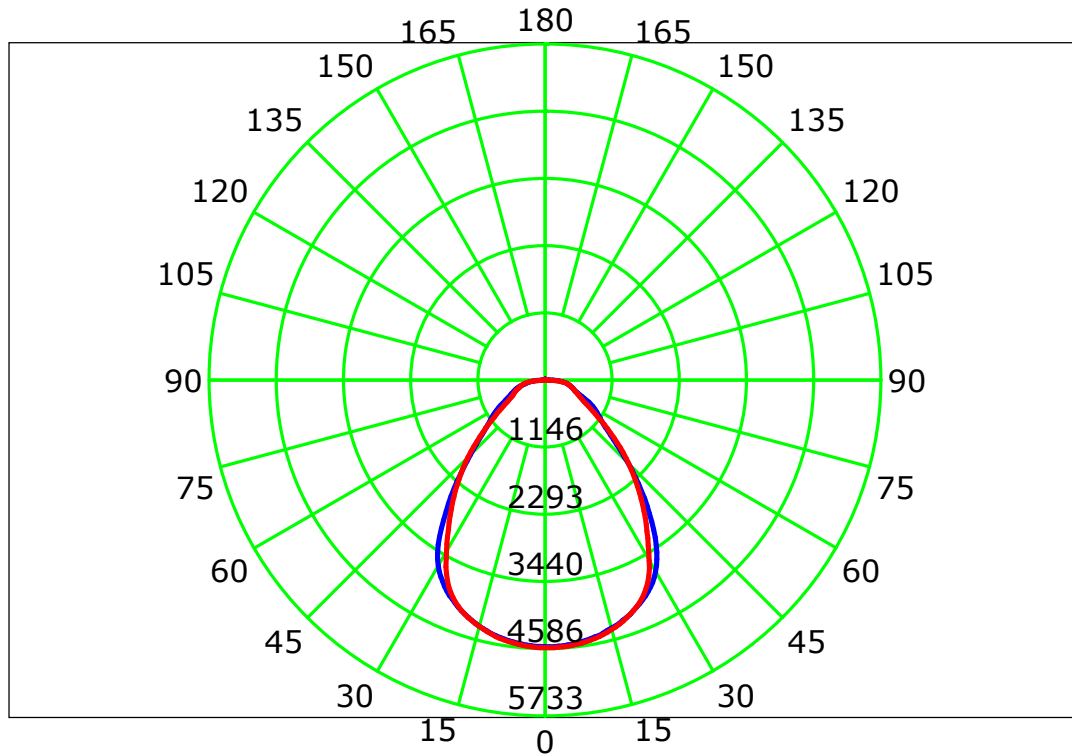
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

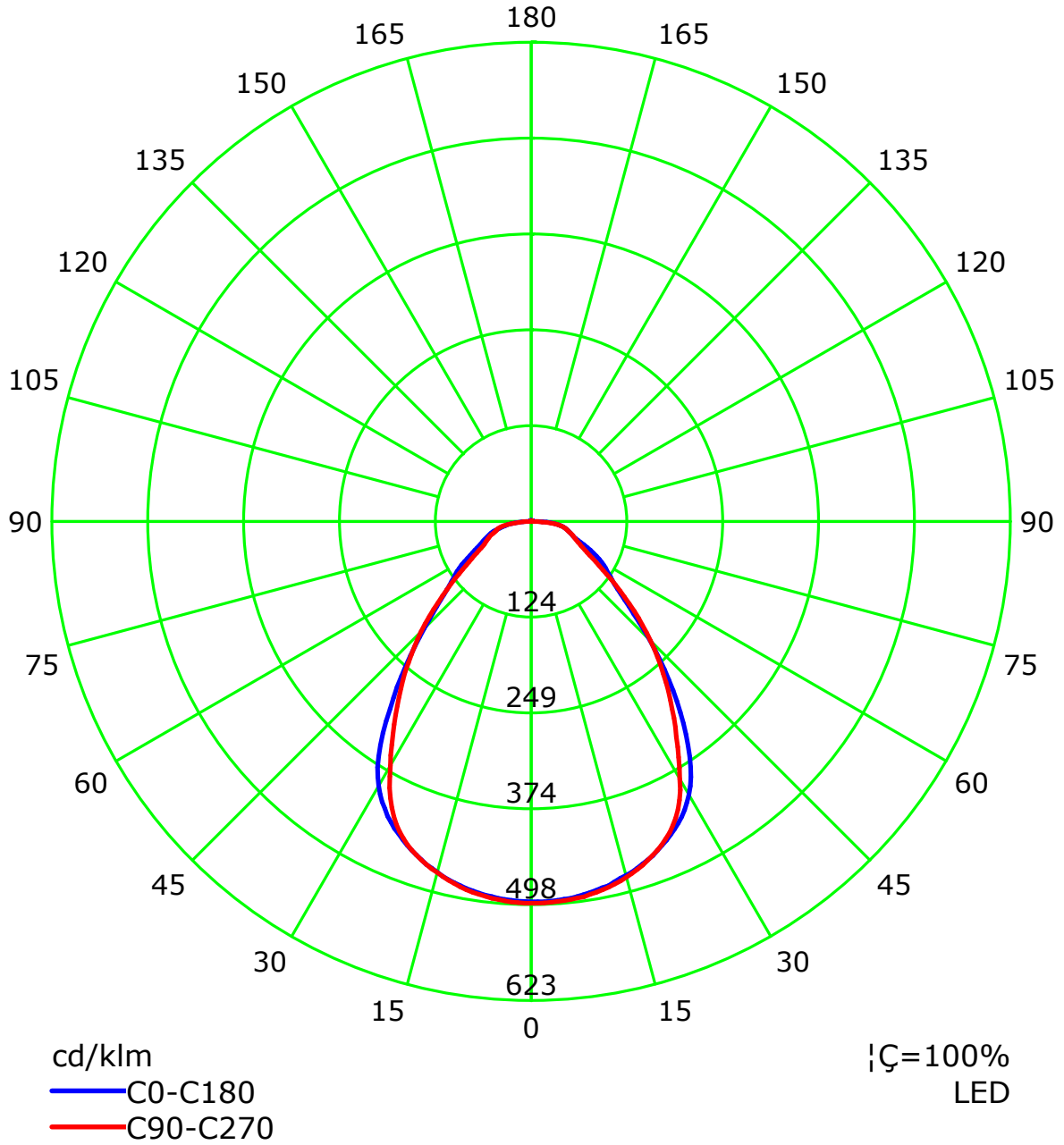
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



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

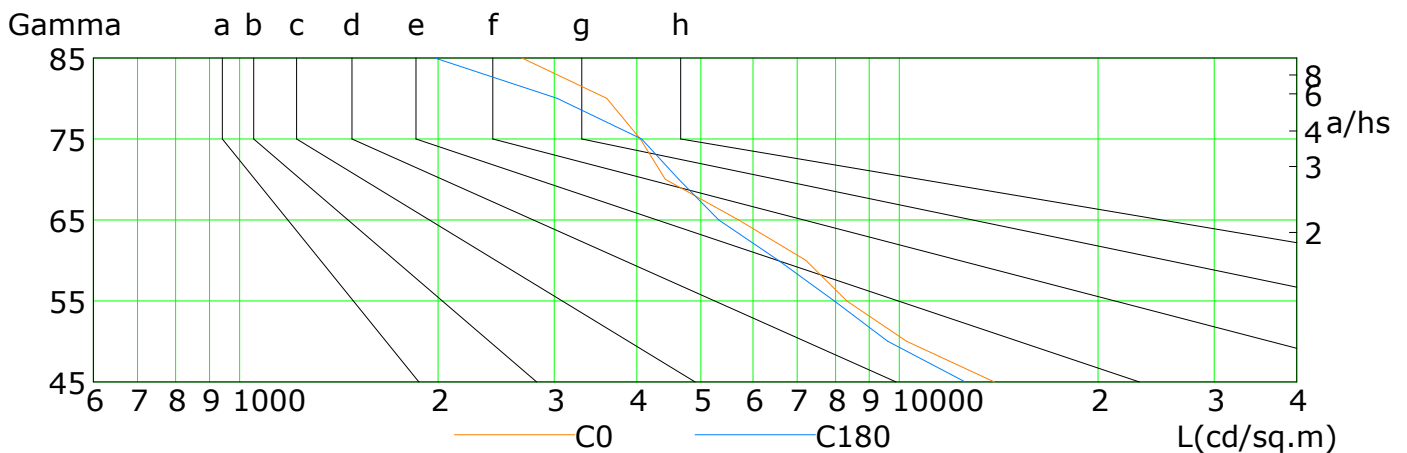
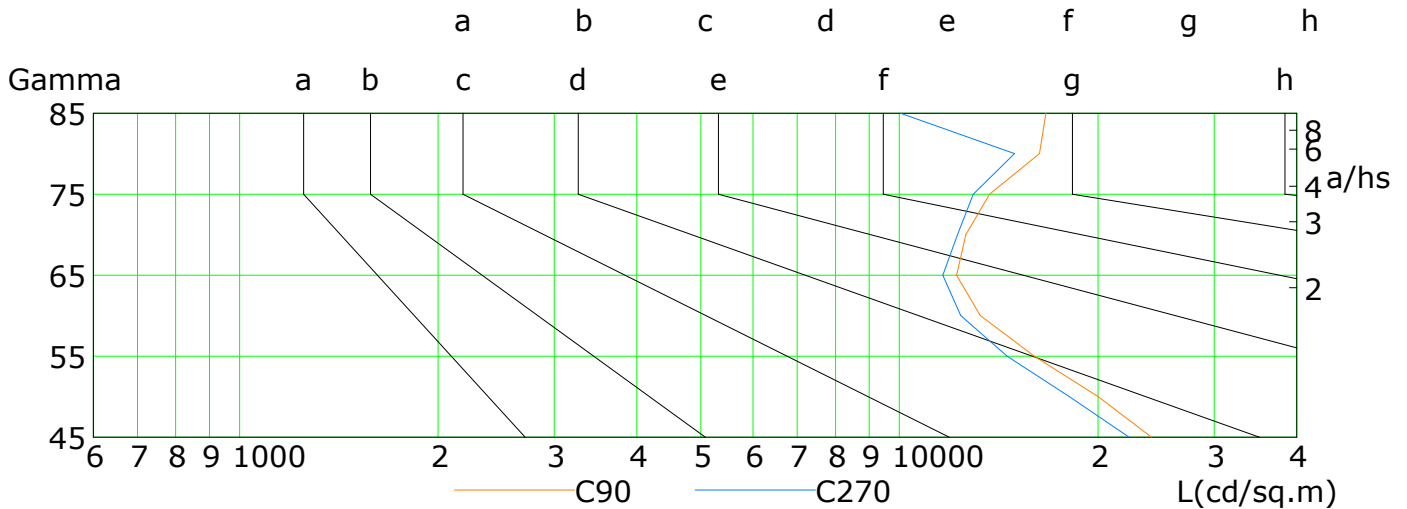
Distance: 12.677 m

Humidity:

Inspector:

## 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	13930	10254	8321	7217	5708	4418	4047	3600	2679
C90	24096	20002	16009	13262	12214	12605	13694	16306	16679
C180	12576	9605	7970	6550	5324	4630	4069	3029	1977
C270	22282	18087	14562	12386	11630	12246	12945	14947	10042

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

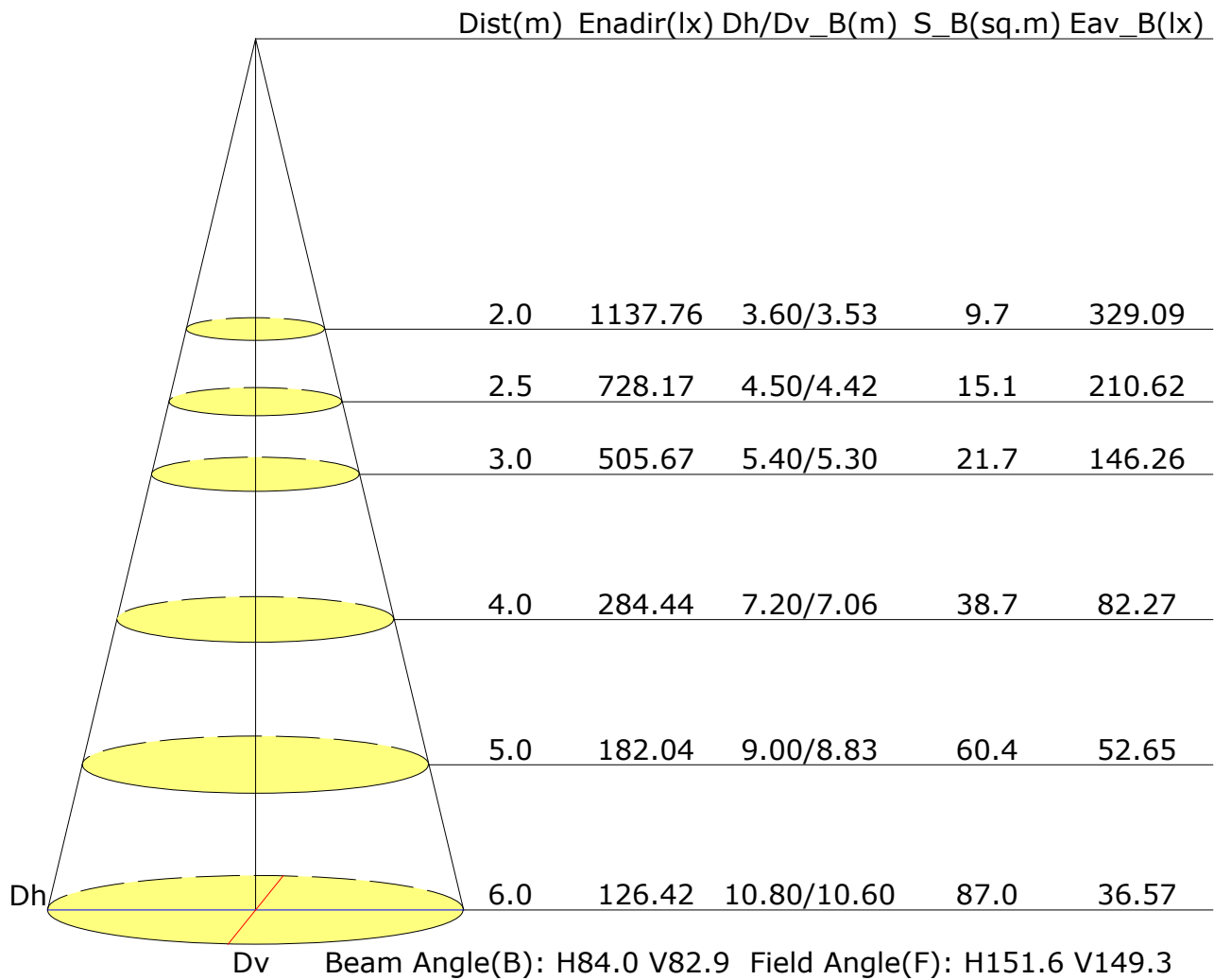
Test Device: LSG-1800B

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	19.6	20.9	19.9	21.1	21.3	20.5	21.7	20.8	21.9	22.2
3H	20.4	21.5	20.7	21.8	22.1	21.5	22.6	21.8	22.9	23.2
4H	20.7	21.8	21.1	22.1	22.4	22.1	23.2	22.5	23.5	23.8
6H	21.1	22.1	21.5	22.4	22.7	22.9	23.8	23.2	24.2	24.5
8H	21.2	22.2	21.6	22.5	22.9	23.2	24.2	23.6	24.5	24.8
12H	21.4	22.3	21.8	22.6	23.0	23.5	24.4	23.9	24.7	25.1
X=4H Y=2H	19.9	21.0	20.3	21.3	21.6	20.6	21.7	21.0	22.0	22.3
3H	20.9	21.8	21.3	22.1	22.5	21.8	22.8	22.2	23.1	23.4
4H	21.4	22.2	21.8	22.5	22.9	22.6	23.4	23.0	23.8	24.2
6H	21.9	22.6	22.3	23.0	23.4	23.5	24.2	23.9	24.6	25.0
8H	22.1	22.7	22.5	23.1	23.6	23.9	24.6	24.4	25.0	25.4
12H	22.2	22.8	22.7	23.3	23.7	24.3	24.9	24.7	25.3	25.7
X=8H Y=4H	21.6	22.2	22.0	22.6	23.1	22.7	23.4	23.1	23.8	24.2
6H	22.2	22.7	22.6	23.1	23.6	23.7	24.2	24.2	24.7	25.2
8H	22.5	22.9	22.9	23.4	23.9	24.2	24.7	24.7	25.2	25.7
12H	22.7	23.1	23.2	23.6	24.1	24.6	25.0	25.1	25.5	26.0
X=12H Y=4H	21.6	22.2	22.0	22.6	23.1	22.7	23.3	23.1	23.7	24.2
6H	22.2	22.7	22.7	23.2	23.7	23.7	24.2	24.2	24.7	25.1
8H	22.5	22.9	23.0	23.4	23.9	24.3	24.7	24.8	25.1	25.7
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.6					+0.3/-0.4				
S=1.5H	+0.8/-1.0					+0.8/-0.9				
S=2.0H	+1.5/-1.7					+1.6/-1.5				

Calculate in accordance with CIE Pub.117. The table is revised with  $9196\text{lm}$  ( $8\log(F/F_0) = 7.7$ ).

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 Test Device: LSG-1800B  
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