

Report No.: 1

Test Time: 23.07.2019 11:08

Luminaire Property

Luminaire Manufacturer:

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

Lamp Description: LED

Luminous Width (mm): 76

Voltage: 221.5 V

Power: 24.01 W

Luminous Length (mm): 1500

Luminous Height (mm): 60

Current: 0.111 A

Power Factor: 0.973

Photometric Results

CIE Class: Direct

Measurement Flux: 2785.2 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 166.9, 164.7, 165.9, 165.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.8, 112.7, 114.3, 113.0

Luminaire Efficacy Rating (LER): 116.05

Max. Intensity: 946.87 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 2785.2 lm

Efficiency: 100%

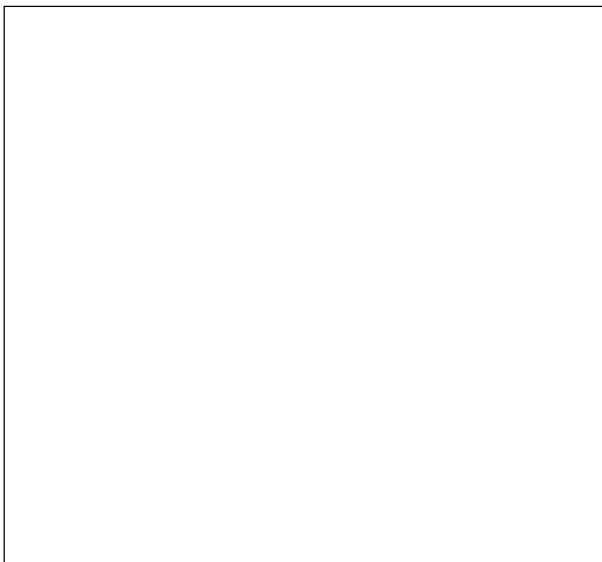
Upward Ratio: 1%

Central Intensity: 946.87 cd

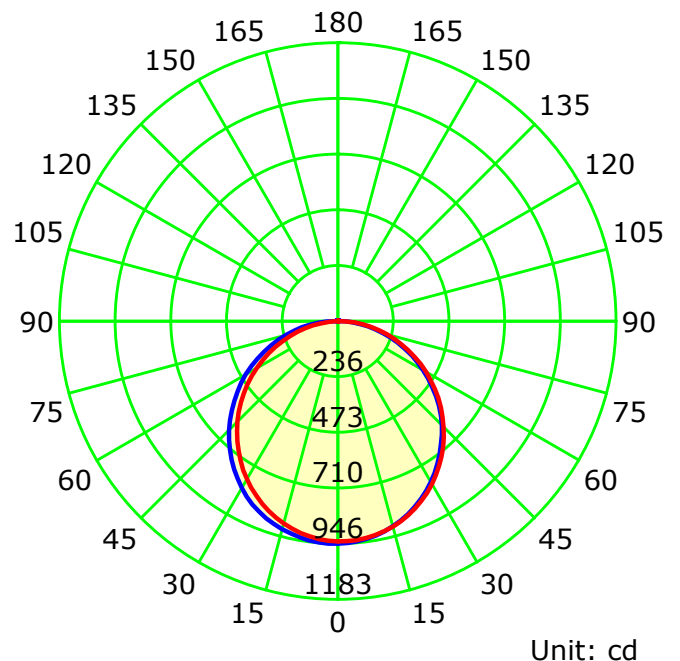
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.25

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

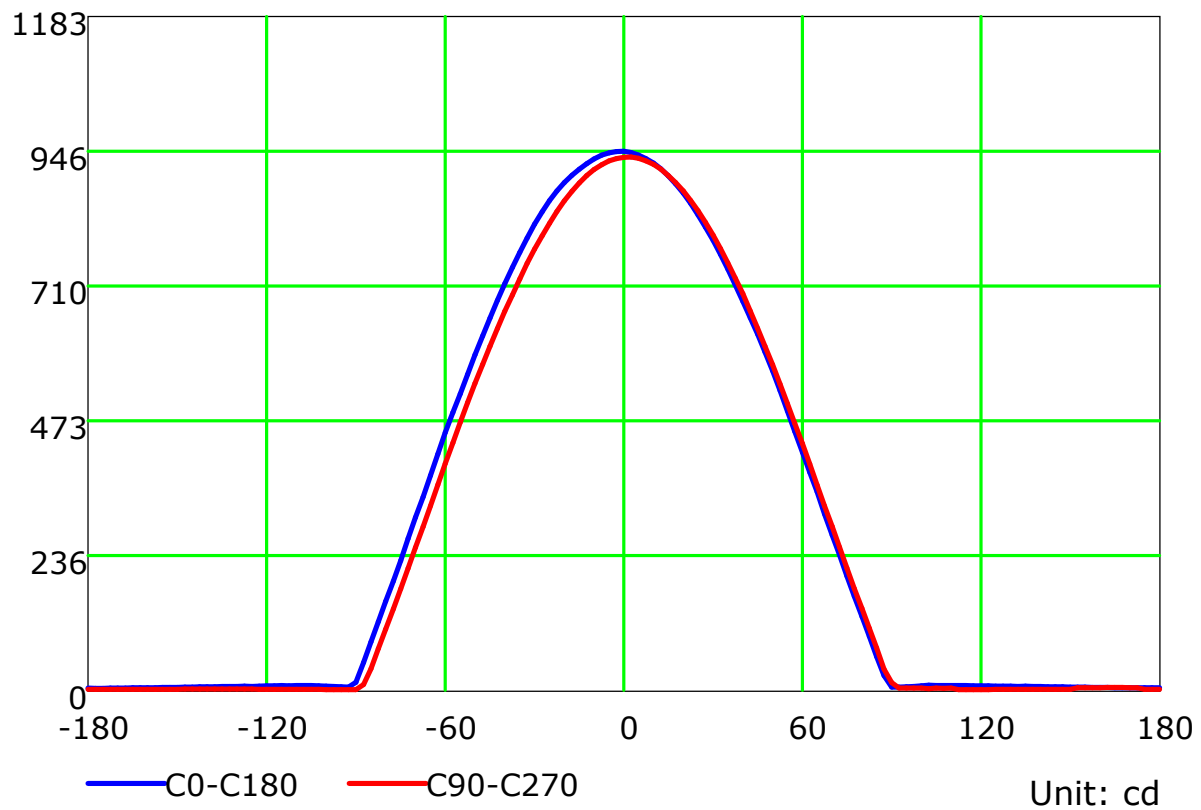
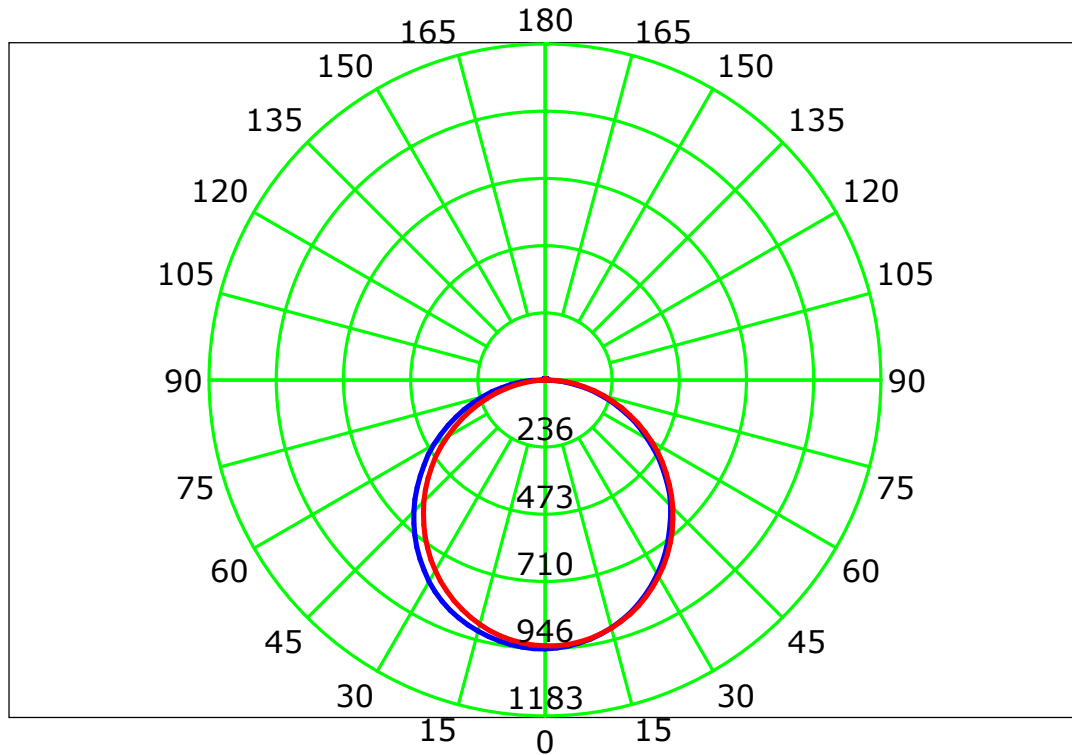
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



Unit: cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.5

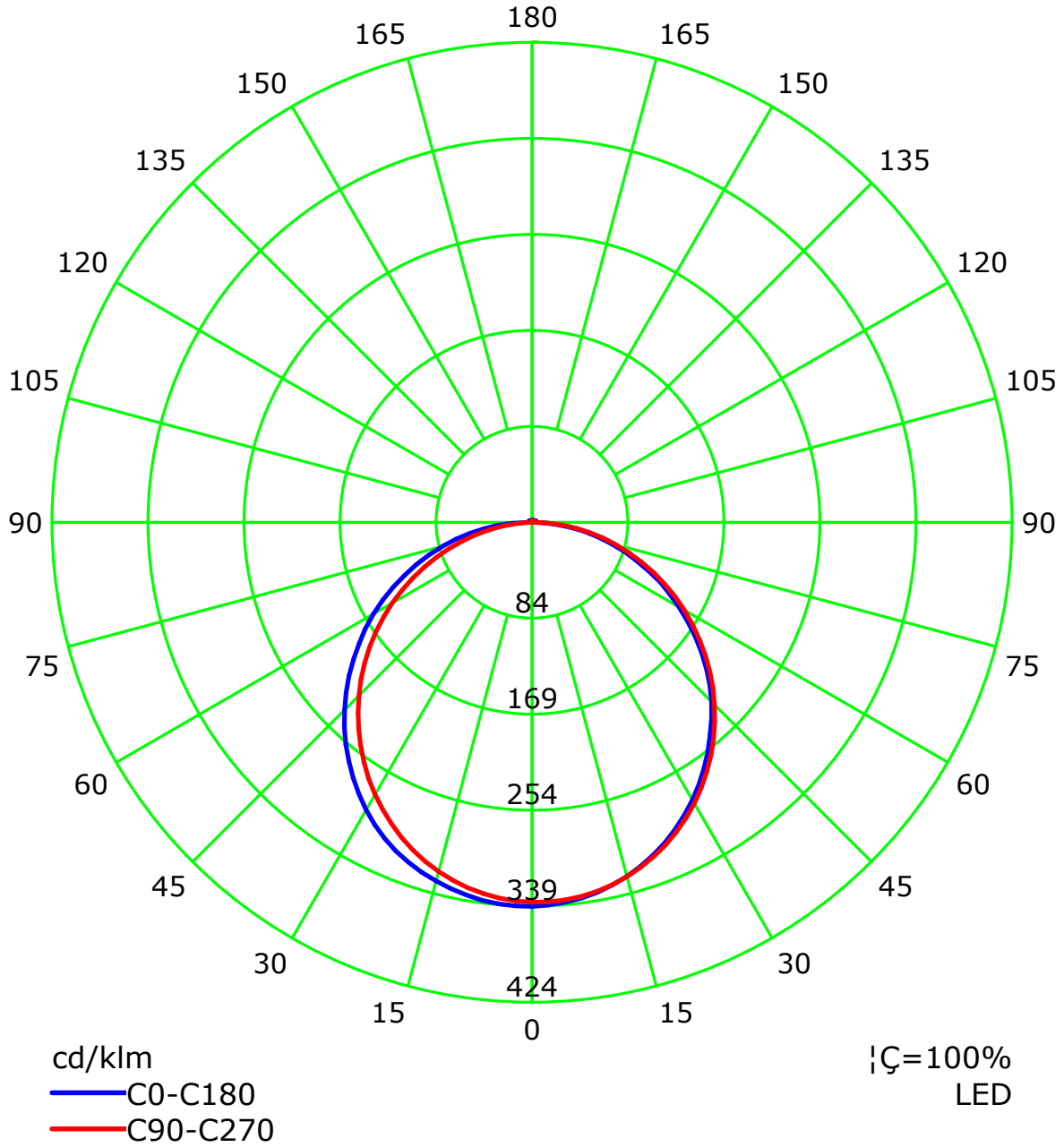
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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Test Device: LSG-1800B

Distance: 12.677 m

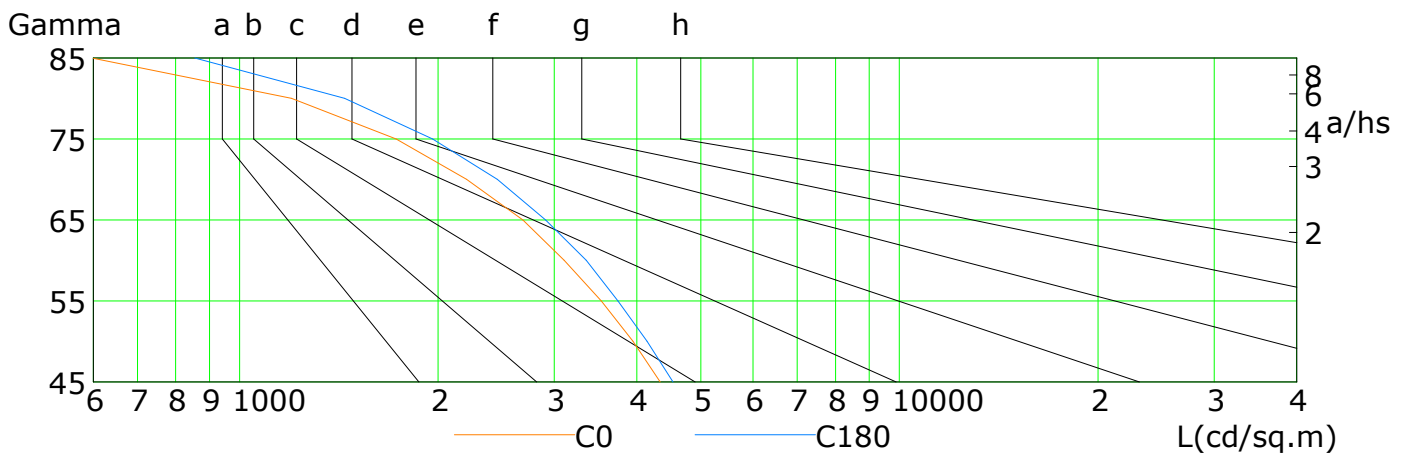
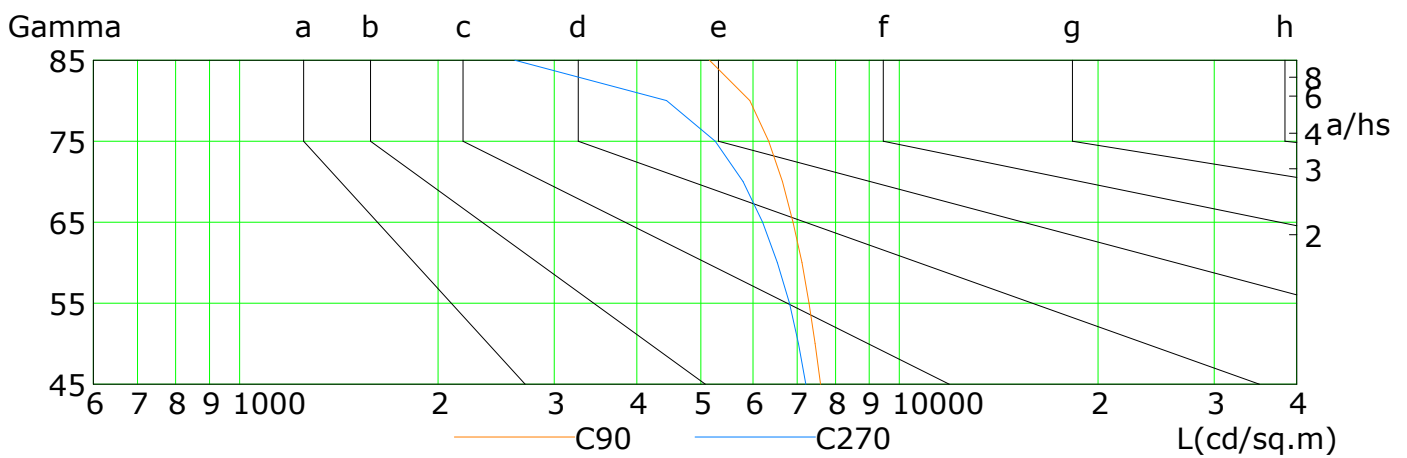
Humidity:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4339	3947	3532	3103	2688	2208	1727	1198	597
C90	7591	7452	7293	7116	6896	6653	6337	5933	5155
C180	4536	4145	3744	3355	2909	2459	1960	1442	855
C270	7210	7028	6812	6533	6202	5799	5257	4440	2614

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.5

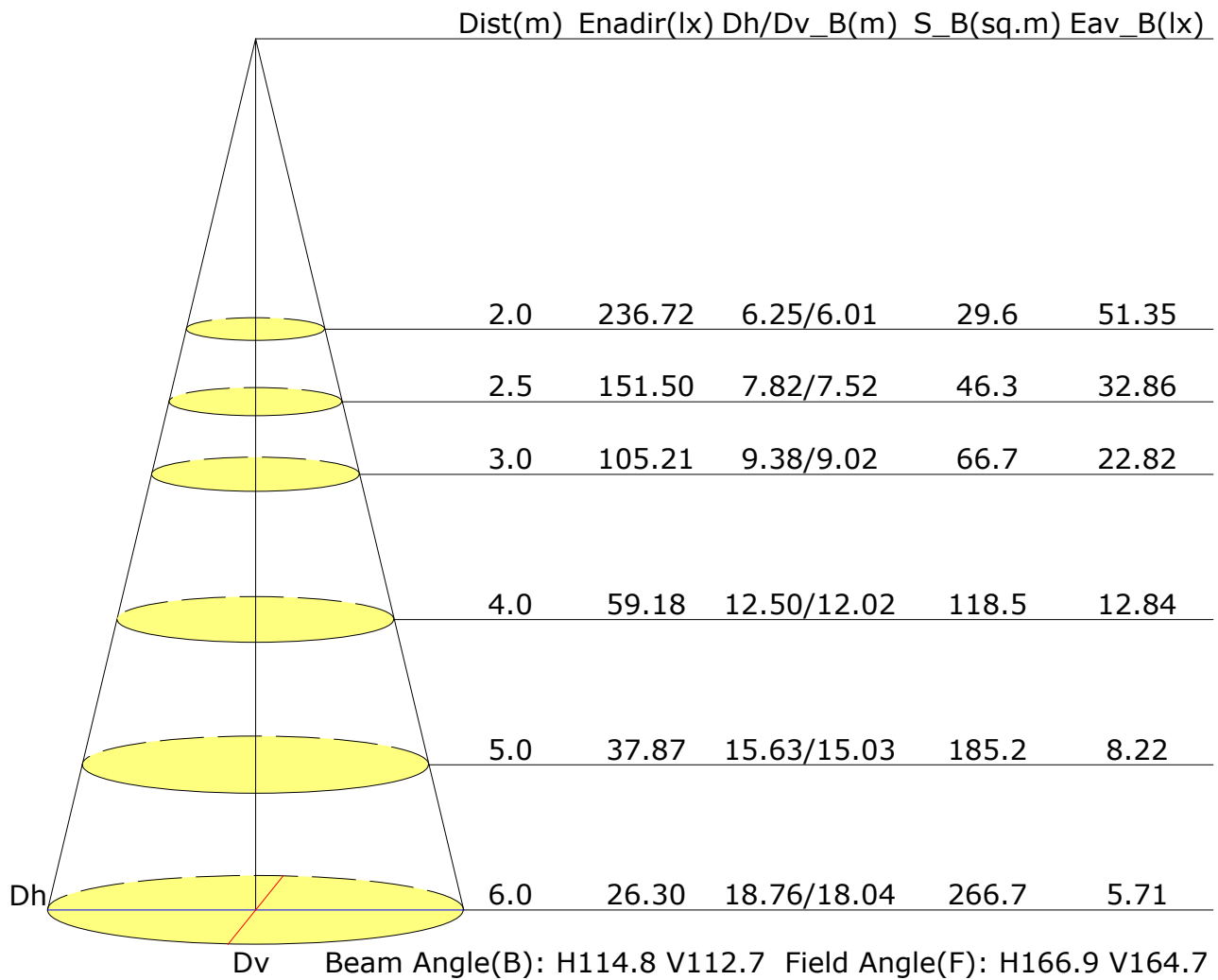
Test Device: LSG-1800B

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	16.9	18.3	17.3	18.6	18.9	18.3	19.7	18.6	20.0	20.2
3H	18.2	19.4	18.5	19.7	20.0	19.9	21.2	20.2	21.5	21.8
4H	18.6	19.8	19.0	20.1	20.4	20.6	21.8	20.9	22.1	22.4
6H	18.9	20.0	19.3	20.3	20.7	21.1	22.2	21.5	22.5	22.9
8H	19.0	20.0	19.3	20.4	20.7	21.3	22.4	21.7	22.7	23.0
12H	19.0	20.0	19.4	20.4	20.7	21.4	22.4	21.8	22.8	23.1
X=4H Y=2H	17.6	18.8	18.0	19.1	19.4	18.7	19.9	19.0	20.2	20.5
3H	19.0	20.0	19.4	20.4	20.7	20.4	21.5	20.8	21.8	22.2
4H	19.5	20.5	19.9	20.8	21.2	21.2	22.1	21.6	22.5	22.9
6H	19.9	20.7	20.3	21.1	21.6	21.8	22.6	22.3	23.0	23.5
8H	20.0	20.8	20.5	21.2	21.6	22.0	22.8	22.5	23.2	23.7
12H	20.1	20.7	20.5	21.2	21.7	22.2	22.9	22.7	23.3	23.8
X=8H Y=4H	19.8	20.6	20.2	21.0	21.4	21.3	22.1	21.8	22.5	22.9
6H	20.3	20.9	20.8	21.4	21.8	22.0	22.7	22.5	23.1	23.6
8H	20.4	21.0	20.9	21.5	22.0	22.3	22.9	22.8	23.3	23.8
12H	20.5	21.0	21.0	21.5	22.0	22.5	23.0	23.0	23.5	24.0
X=12H Y=4H	19.8	20.5	20.3	20.9	21.4	21.3	22.0	21.8	22.4	22.9
6H	20.3	20.9	20.8	21.3	21.9	22.0	22.6	22.5	23.1	23.6
8H	20.5	21.0	21.0	21.5	22.0	22.3	22.8	22.8	23.3	23.8
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.1				
S=1.5H	+0.3/-0.6					+0.3/-0.3				
S=2.0H	+0.6/-1.1					+0.8/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 2785lm ($8\log(F/F_0) = 3.6$).

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 Distance: 12.677 m
 Humidity:
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