

Report No.: 1

Test Time: 23.07.2019 10:09

Luminaire Property

Luminaire Manufacturer:

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

Lamp Description: LED

Luminous Width (mm): 76

Voltage: 221.5 V

Power: 23.55 W

Luminous Length (mm): 1500

Luminous Height (mm): 60

Current: 0.109 A

Power Factor: 0.970

Photometric Results

CIE Class: Direct

Measurement Flux: 3076.3 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 150.4, 146.2, 146.4, 146.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 83.4, 82.2, 82.3, 82.5

Luminaire Efficacy Rating (LER): 130.68

Max. Intensity: 1529.4 cd

S/MH(C0/C180): 1.20

Total Rated Lamp Lumens: 3076.3 lm

Efficiency: 100%

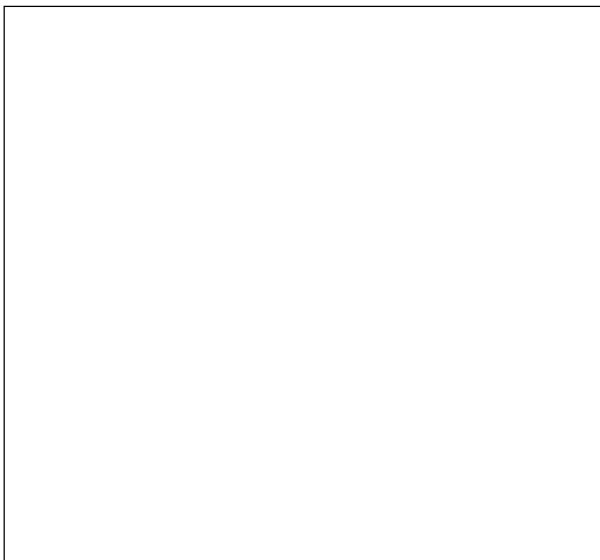
Upward Ratio: 1%

Central Intensity: 1521.54 cd

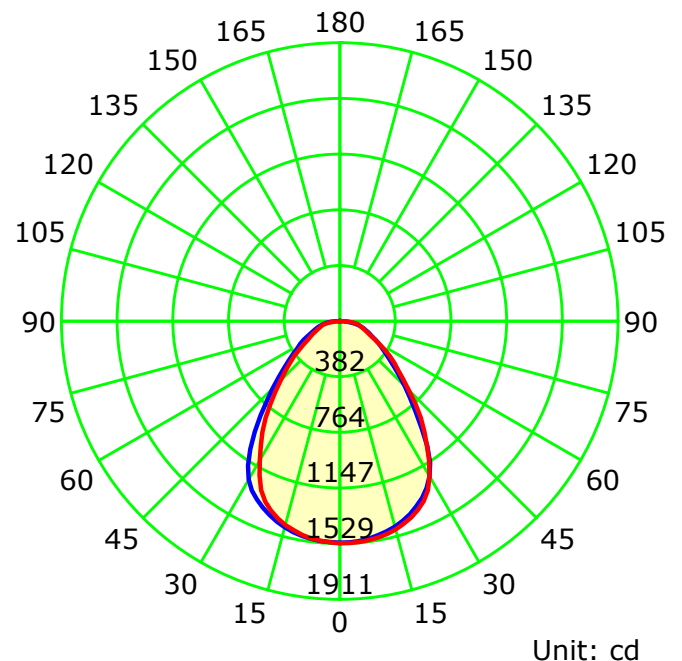
Pos of Max. Intensity: H157.5 V0

S/MH(C90/C270): 1.15

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

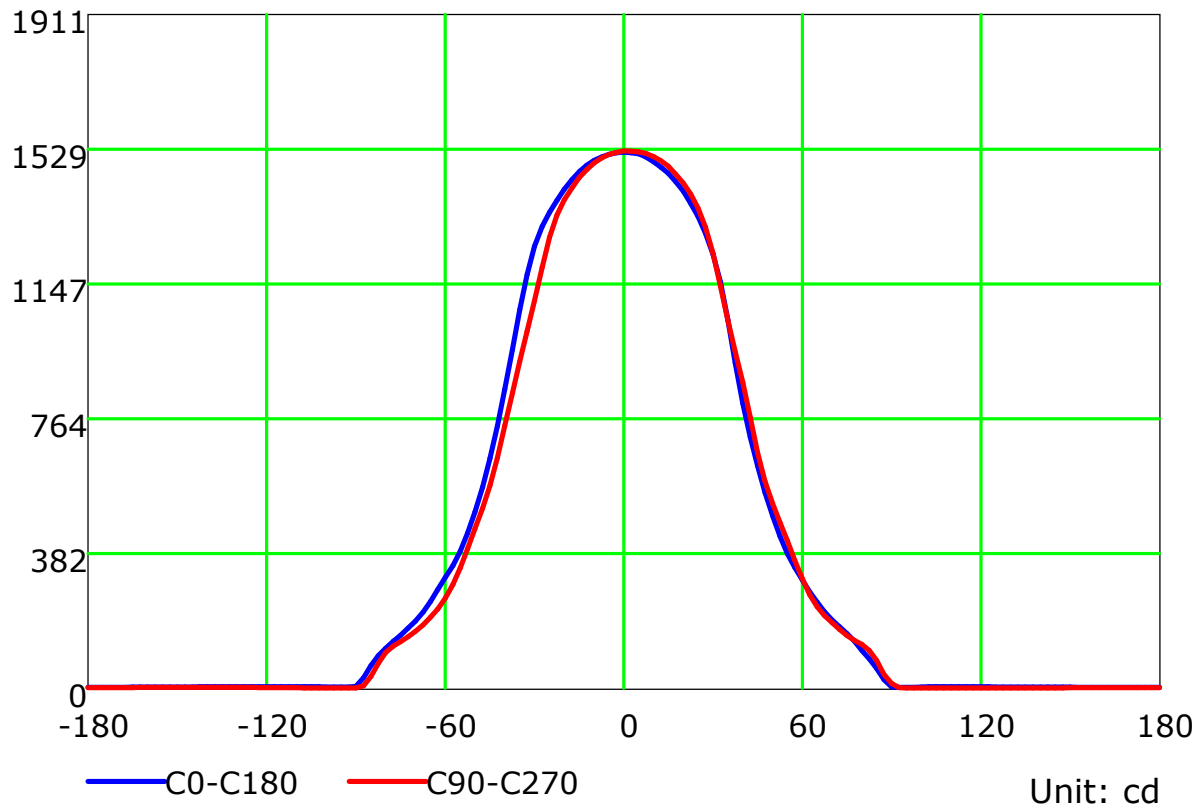
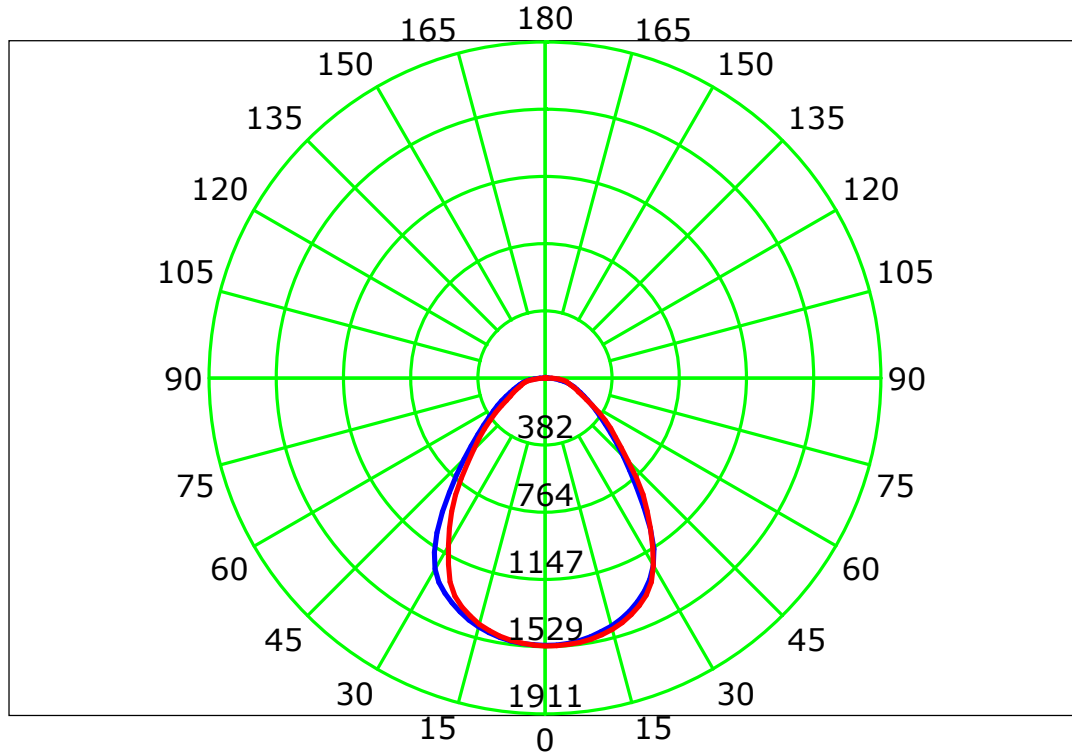
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.5

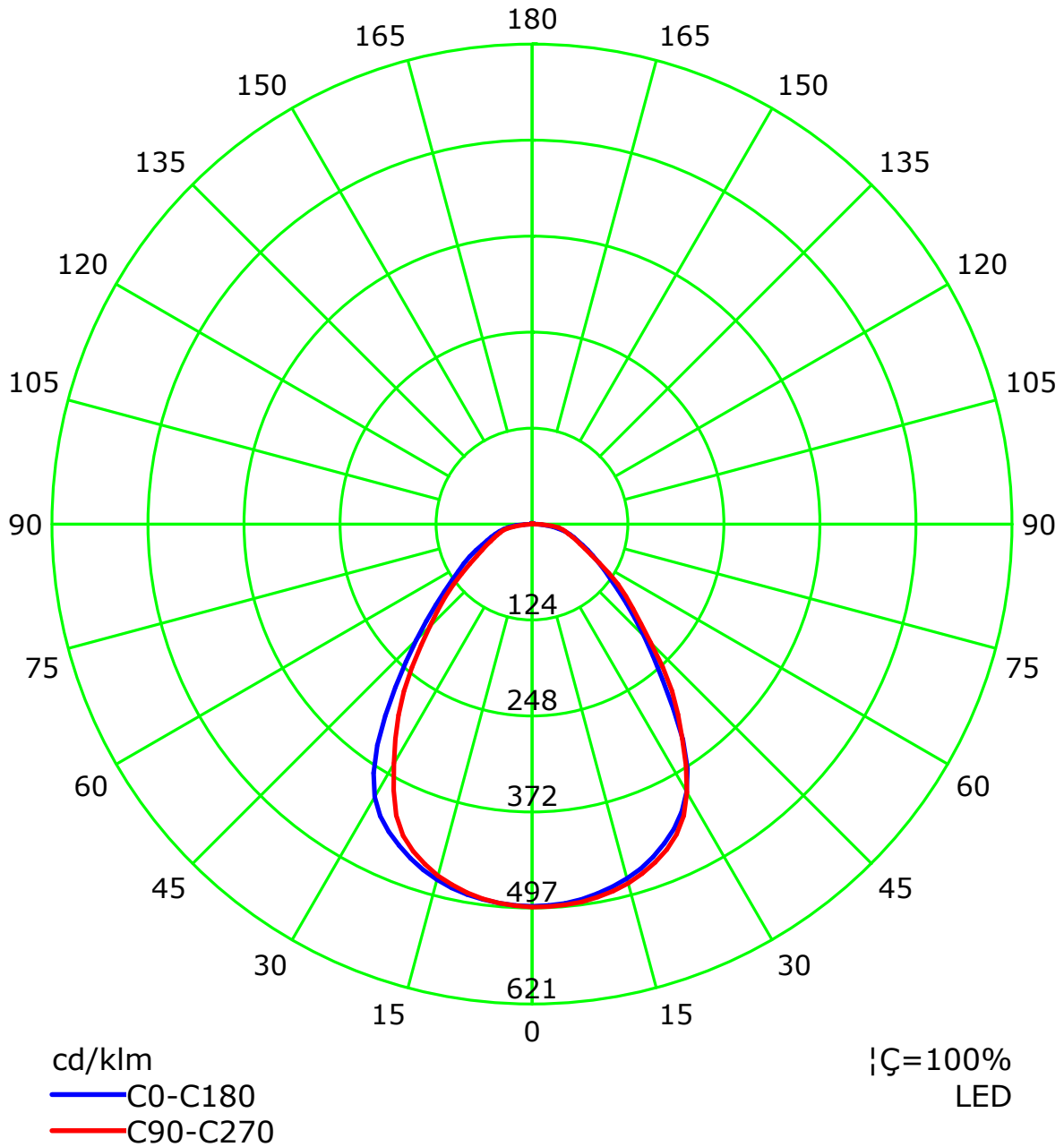
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

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Temperature:

Operator:

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Test Device: LSG-1800B

Distance: 12.677 m

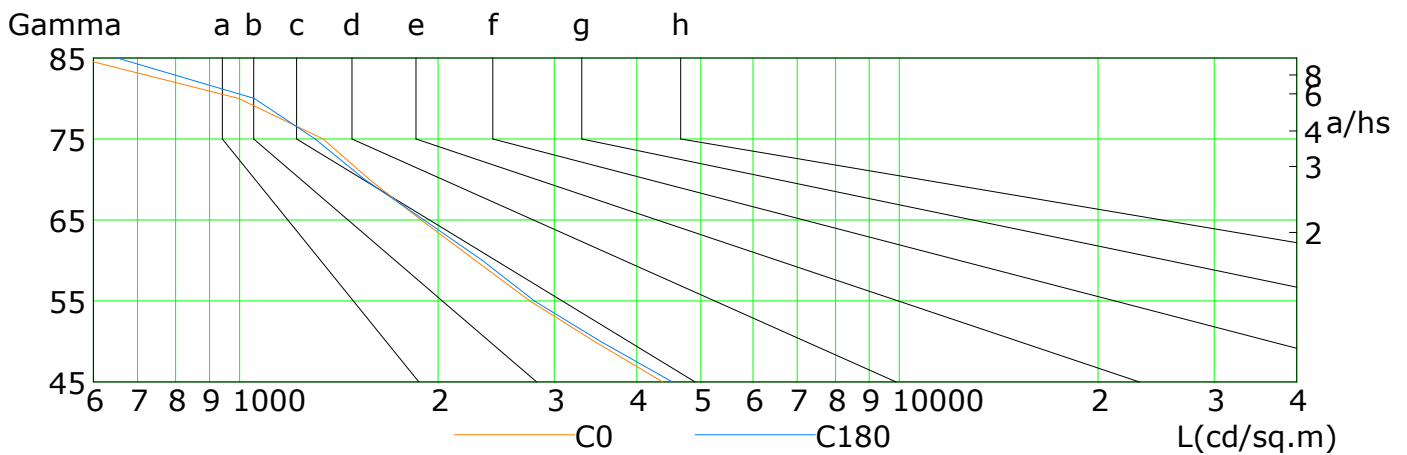
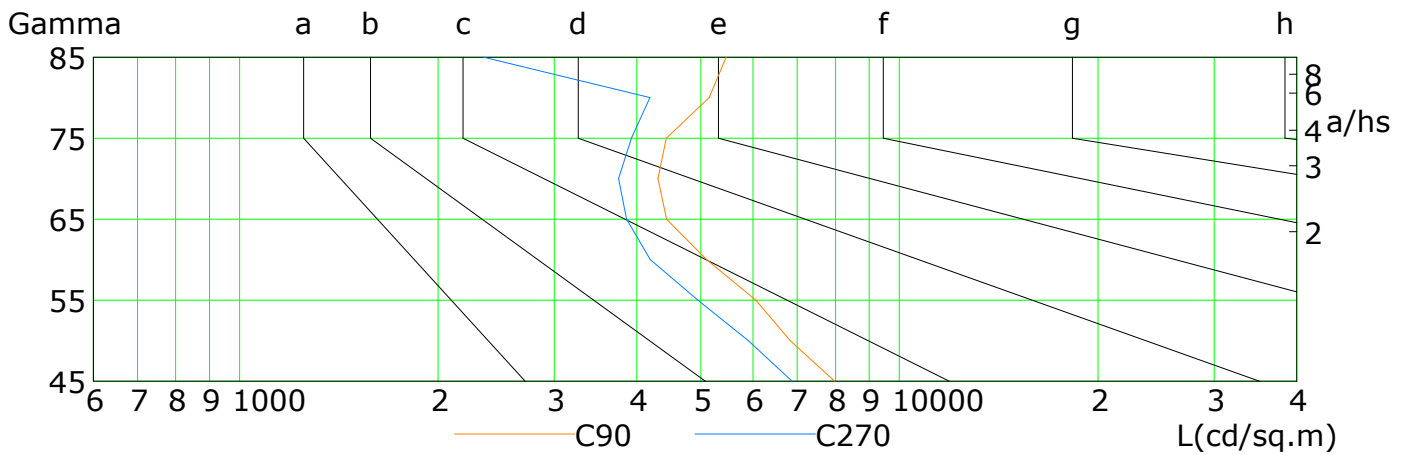
Humidity:

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	4379	3447	2754	2275	1884	1572	1339	996	570
C90	7977	6833	6063	5100	4439	4305	4431	5148	5461
C180	4529	3524	2798	2332	1904	1546	1302	1052	652
C270	6874	5903	4953	4190	3858	3753	3923	4188	2345

C Plane (°):0.0-360.0: 22.5

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.5

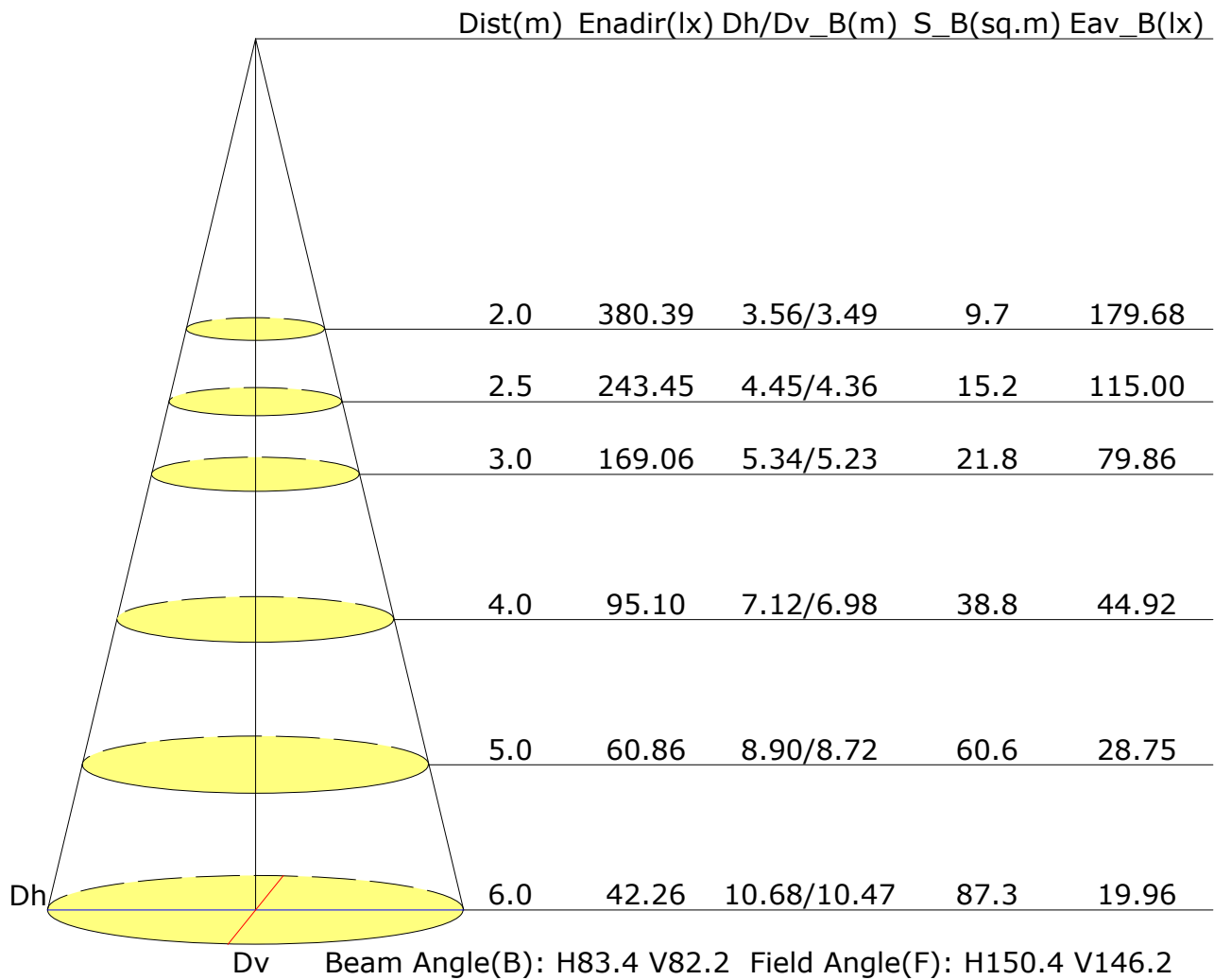
Test Device: LSG-1800B

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	15.5	16.7	15.8	16.9	17.2	16.5	17.8	16.8	18.0	18.2
3H	16.3	17.4	16.6	17.7	18.0	17.6	18.7	17.9	19.0	19.2
4H	16.7	17.7	17.0	18.0	18.3	18.2	19.2	18.5	19.5	19.8
6H	17.0	18.0	17.4	18.3	18.6	18.8	19.8	19.2	20.1	20.5
8H	17.1	18.0	17.5	18.4	18.7	19.1	20.1	19.5	20.4	20.8
12H	17.1	18.0	17.5	18.4	18.7	19.4	20.3	19.7	20.6	21.0
X=4H Y=2H	15.8	16.9	16.2	17.2	17.5	16.7	17.8	17.1	18.1	18.4
3H	16.9	17.8	17.3	18.1	18.5	18.0	18.9	18.4	19.2	19.6
4H	17.4	18.2	17.8	18.6	19.0	18.7	19.5	19.1	19.9	20.3
6H	17.8	18.5	18.2	18.9	19.3	19.5	20.3	20.0	20.6	21.1
8H	18.0	18.6	18.4	19.0	19.5	19.9	20.6	20.3	21.0	21.4
12H	18.0	18.6	18.5	19.1	19.5	20.2	20.8	20.6	21.2	21.6
X=8H Y=4H	17.6	18.3	18.1	18.7	19.1	18.9	19.5	19.3	19.9	20.4
6H	18.2	18.7	18.7	19.2	19.6	19.8	20.3	20.3	20.8	21.2
8H	18.4	18.9	18.9	19.3	19.8	20.2	20.7	20.7	21.1	21.6
12H	18.5	19.0	19.0	19.4	19.9	20.5	20.9	21.0	21.4	21.9
X=12H Y=4H	17.7	18.3	18.1	18.7	19.1	18.8	19.4	19.3	19.9	20.3
6H	18.3	18.7	18.7	19.2	19.7	19.8	20.3	20.3	20.7	21.2
8H	18.5	18.9	19.0	19.4	19.9	20.2	20.7	20.8	21.1	21.7
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.5					+0.3/-0.4				
S=1.5H	+0.8/-1.0					+0.7/-0.8				
S=2.0H	+1.5/-1.6					+1.4/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 3076lm ($8\log(F/F_0) = 3.9$).

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 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 Inspector: