

Report No.: 1

Test Time: 23.07.2019 14:27

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 2x152 LED 40W 4000K bes stekla

Lamp Description: LED

Luminous Width (mm): 76

Voltage: 221.5 V

Power: 42.21 W

Luminous Length (mm): 1500

Luminous Height (mm): 60

Current: 0.194 A

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Measurement Flux: 6973.2 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.4, 140.3, 150.5, 150.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 118.9, 118.8, 118.6, 117.7

Luminaire Efficacy Rating (LER): 165.25

Max. Intensity: 2391.24 cd

S/MH(C0/C180): 1.30

Total Rated Lamp Lumens: 6973.2 lm

Efficiency: 100%

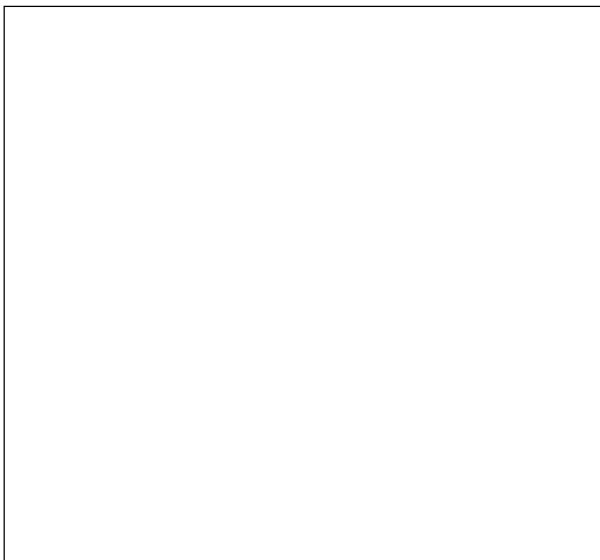
Upward Ratio: 0%

Central Intensity: 2383.75 cd

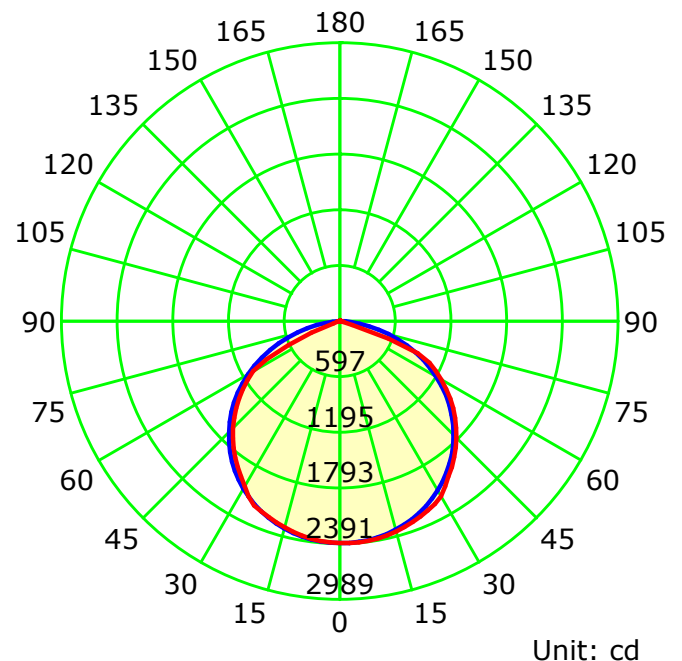
Pos of Max. Intensity: H135 V0

S/MH(C90/C270): 1.30

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

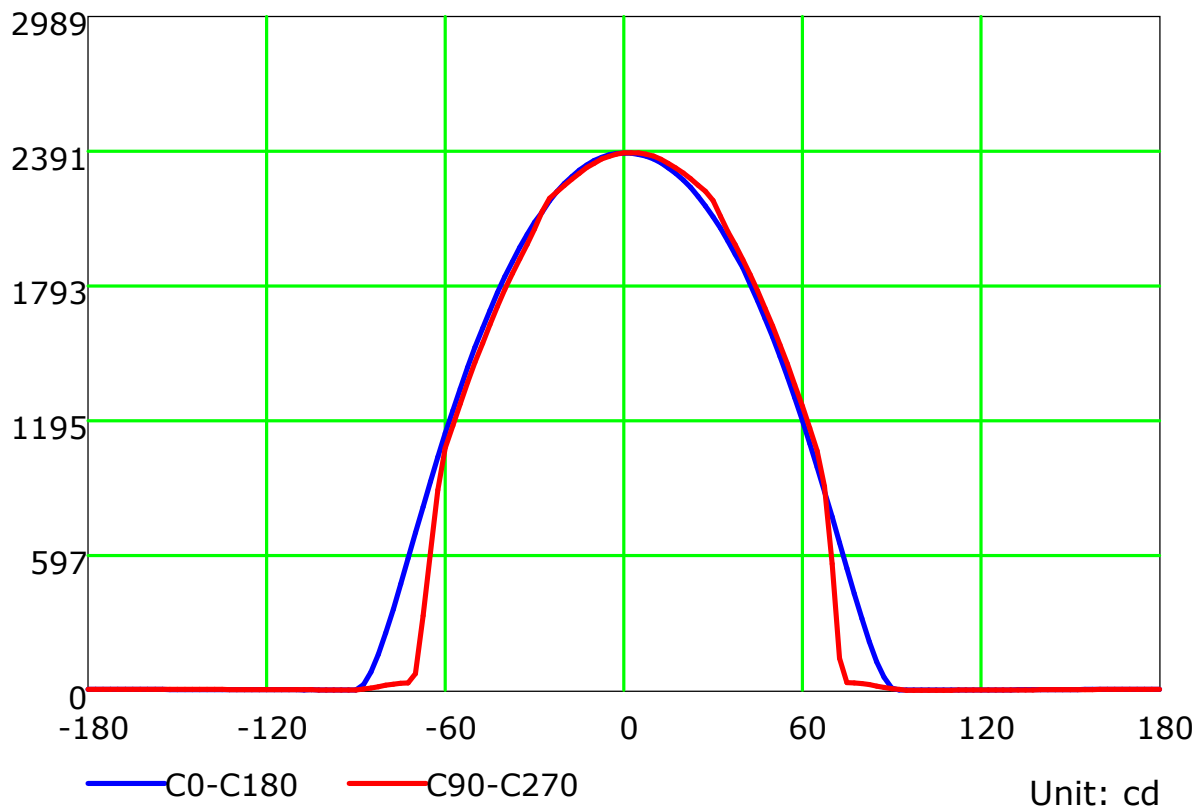
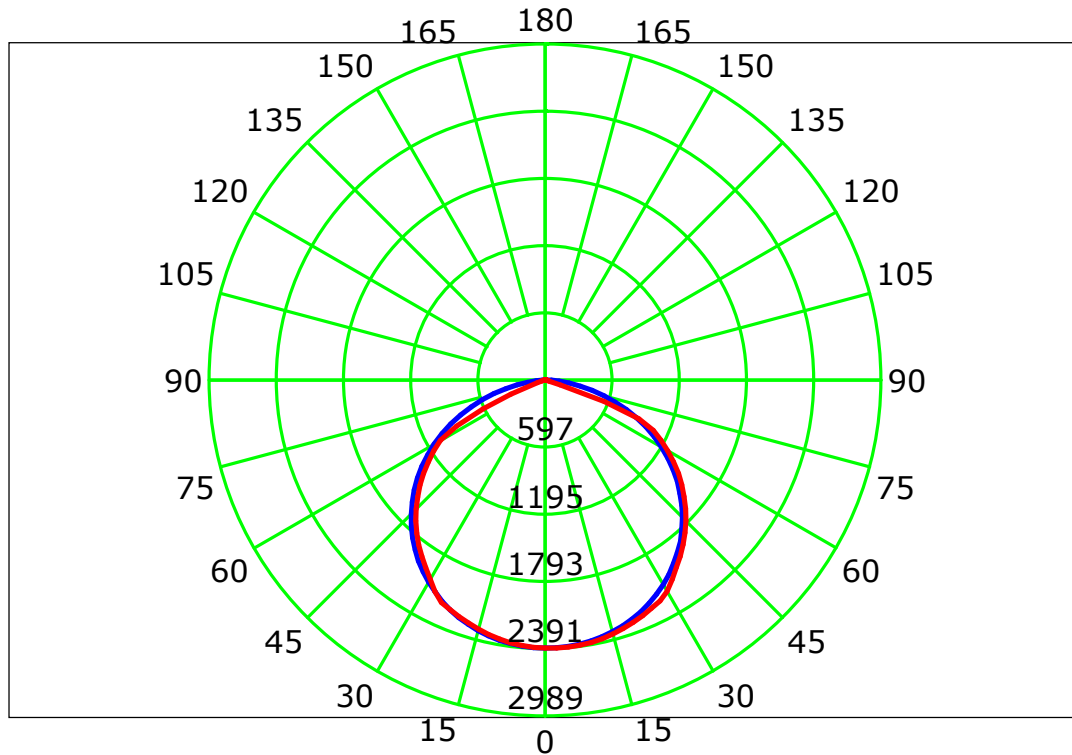
Test Device: LSG-1800B

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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Gamma Plane (°):0.0-180.0:2.5

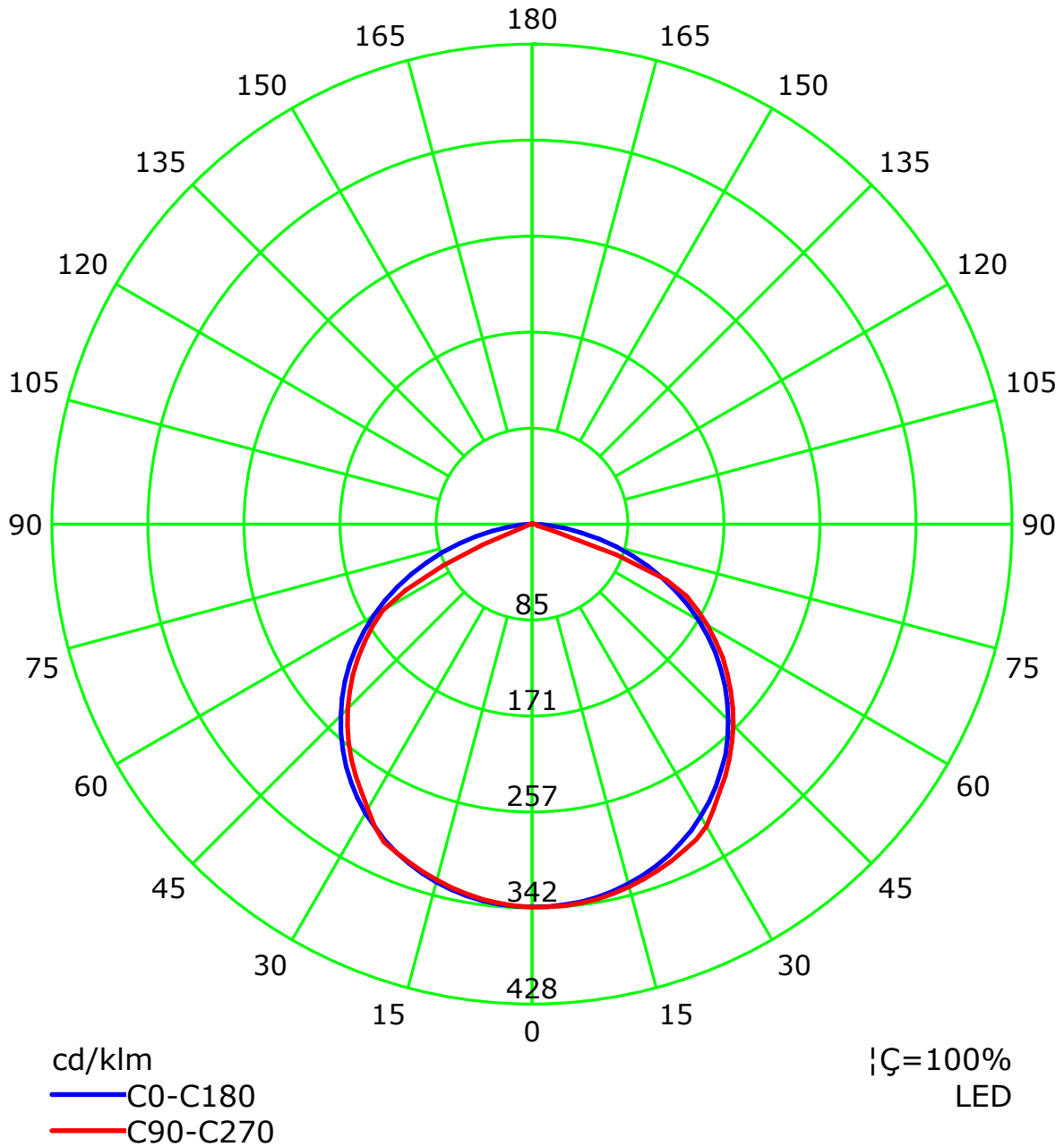
Test Device: LSG-1800B

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

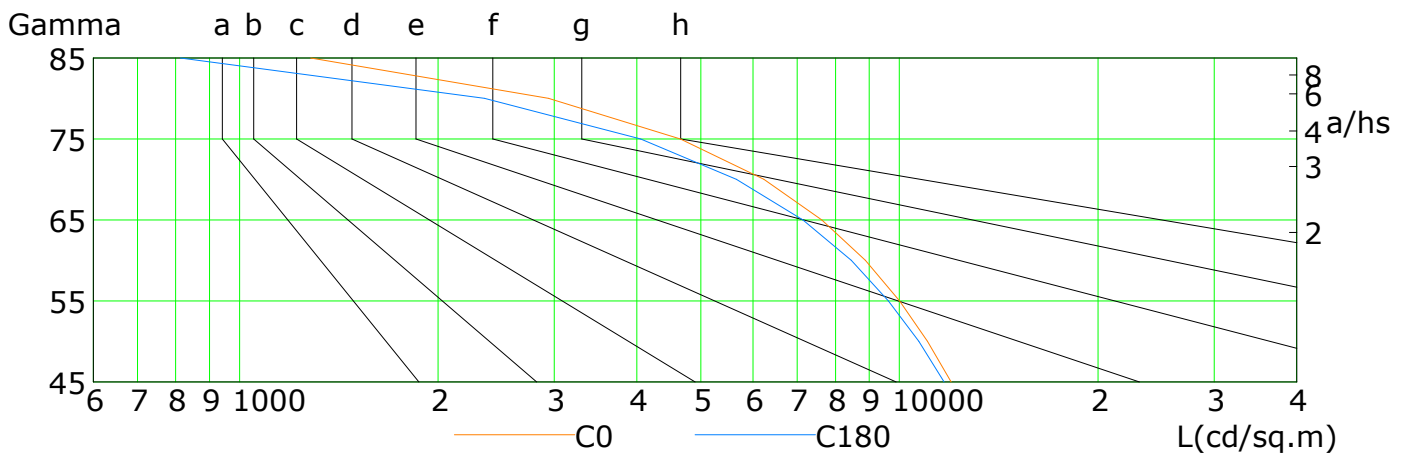
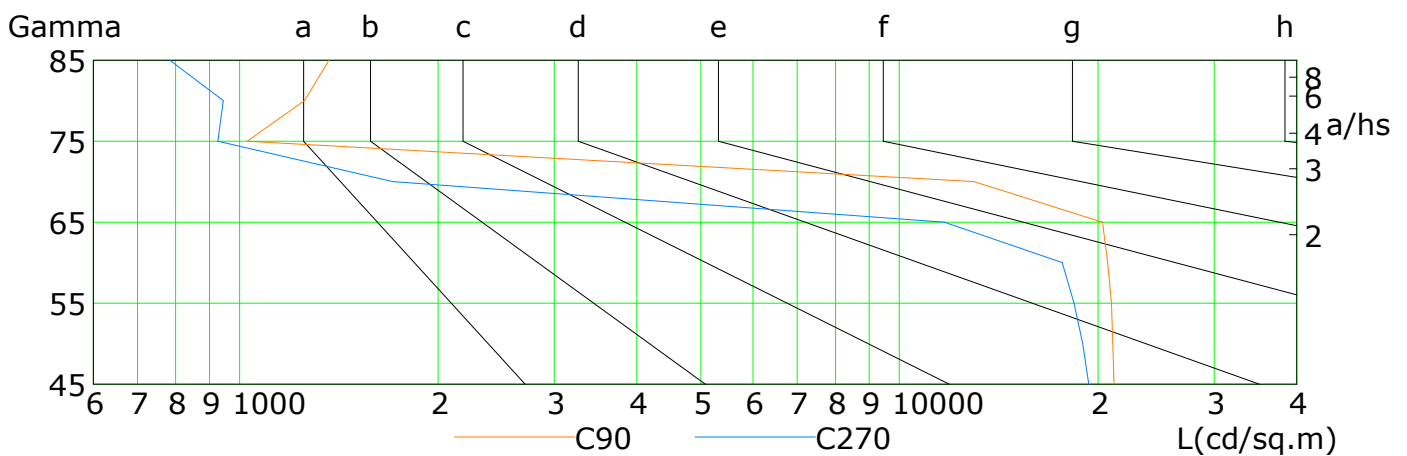
Humidity:

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	11982	11023	10011	8876	7629	6234	4657	2938	1281
C90	21144	21054	20974	20695	20310	12970	1027	1255	1366
C180	11686	10706	9625	8456	7145	5664	4053	2351	813
C270	19373	18965	18396	17644	11701	1707	927	945	784

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Temperature:

Operator:

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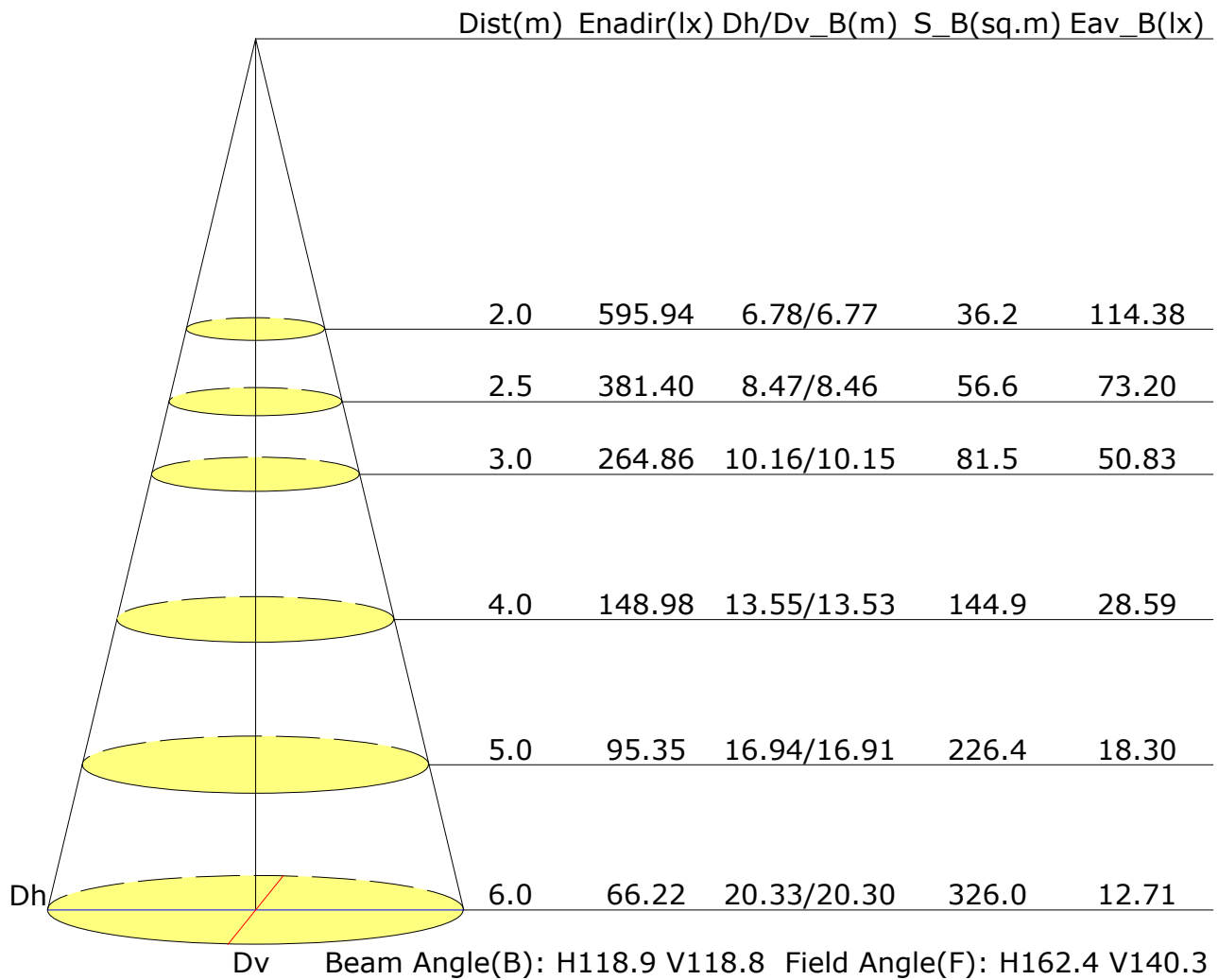
Test Device: LSG-1800B

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	21.1	22.4	21.4	22.7	22.9	22.3	23.7	22.6	23.9	24.2
3H	22.3	23.5	22.6	23.8	24.1	23.3	24.5	23.6	24.8	25.1
4H	22.7	23.9	23.0	24.2	24.5	23.2	24.4	23.6	24.7	25.0
6H	22.9	24.0	23.3	24.3	24.6	23.1	24.2	23.5	24.5	24.9
8H	22.9	24.0	23.3	24.3	24.7	23.1	24.1	23.5	24.5	24.8
12H	22.9	23.9	23.3	24.3	24.6	23.1	24.1	23.5	24.4	24.8
X=4H Y=2H	21.7	22.9	22.1	23.2	23.5	22.7	23.9	23.1	24.2	24.5
3H	23.1	24.1	23.5	24.4	24.8	23.8	24.8	24.2	25.1	25.5
4H	23.6	24.5	24.0	24.8	25.2	23.7	24.6	24.2	25.0	25.4
6H	23.9	24.7	24.3	25.1	25.5	23.7	24.5	24.1	24.8	25.3
8H	23.9	24.7	24.4	25.1	25.5	23.6	24.4	24.1	24.8	25.2
12H	24.0	24.6	24.4	25.0	25.5	23.6	24.3	24.1	24.7	25.1
X=8H Y=4H	23.7	24.4	24.1	24.8	25.2	23.8	24.5	24.2	24.9	25.3
6H	24.0	24.6	24.5	25.0	25.5	23.7	24.3	24.2	24.8	25.2
8H	24.1	24.6	24.6	25.0	25.5	23.7	24.2	24.2	24.7	25.2
12H	24.1	24.5	24.6	25.0	25.5	23.7	24.1	24.2	24.6	25.1
X=12H Y=4H	23.6	24.3	24.1	24.7	25.1	23.8	24.4	24.2	24.8	25.3
6H	24.0	24.5	24.5	24.9	25.4	23.7	24.2	24.2	24.7	25.2
8H	24.1	24.5	24.6	25.0	25.5	23.7	24.1	24.2	24.6	25.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.4				
S=1.5H	+0.4/-0.6					+0.3/-0.4				
S=2.0H	+0.7/-1.2					+1.4/-2.8				

Calculate in accordance with CIE Pub.117. The table is revised with 6973lm ($8\log(F/F_0) = 6.7$).

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 Distance: 12.677 m
 Humidity:
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