

Report No.: 1

Test Time: 23.07.2019 15:24

## Luminaire Property

Luminaire Manufacturer:

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

Lamp Description: LED

Luminous Width (mm): 76

Voltage: 221.5 V

Power: 42.20 W

Luminous Length (mm): 1500

Luminous Height (mm): 60

Current: 0.194 A

Power Factor: 0.981

## Photometric Results

CIE Class: Direct

Measurement Flux: 5710.8 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 151.2, 148.9, 143.8, 144.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 83.9, 82.9, 81.3, 81.5

Luminaire Efficacy Rating (LER): 135.38

Max. Intensity: 2836.02 cd

S/MH(C0/C180): 1.20

Total Rated Lamp Lumens: 5710.8 lm

Efficiency: 100%

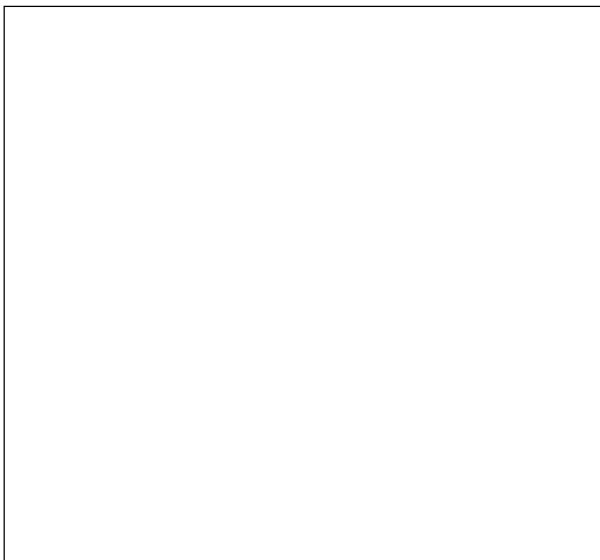
Upward Ratio: 1%

Central Intensity: 2834.43 cd

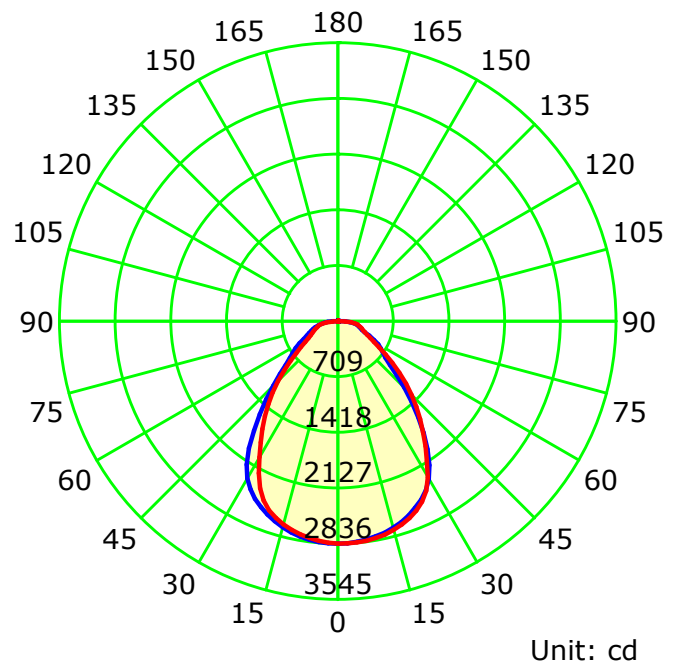
Pos of Max. Intensity: H157.5 V0

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 (°):0.0-180.0:2.5

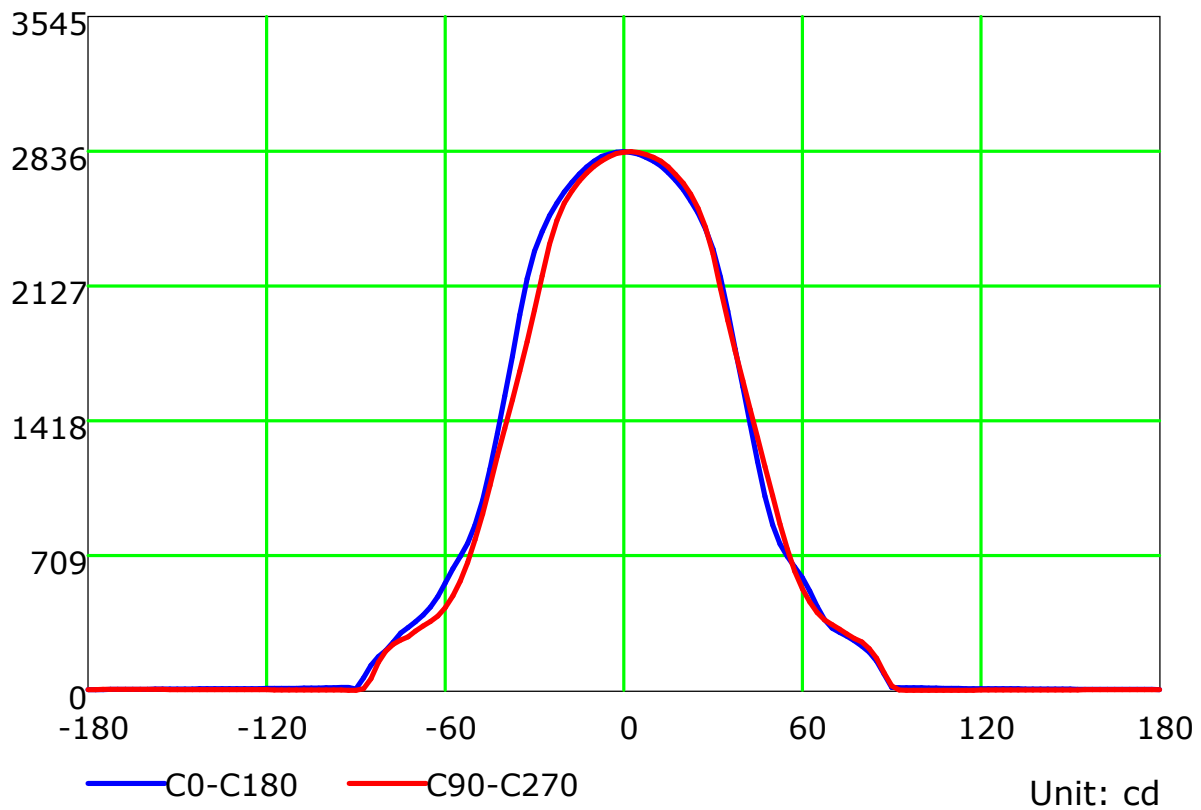
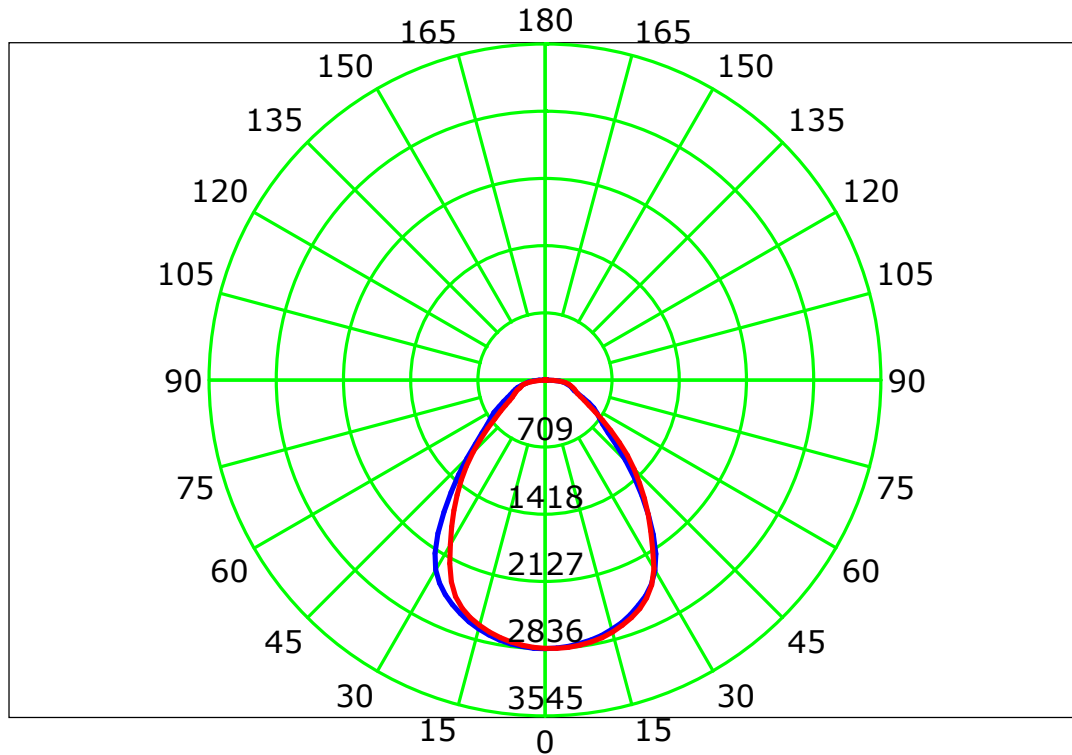
Test Device: LSG-1800B

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

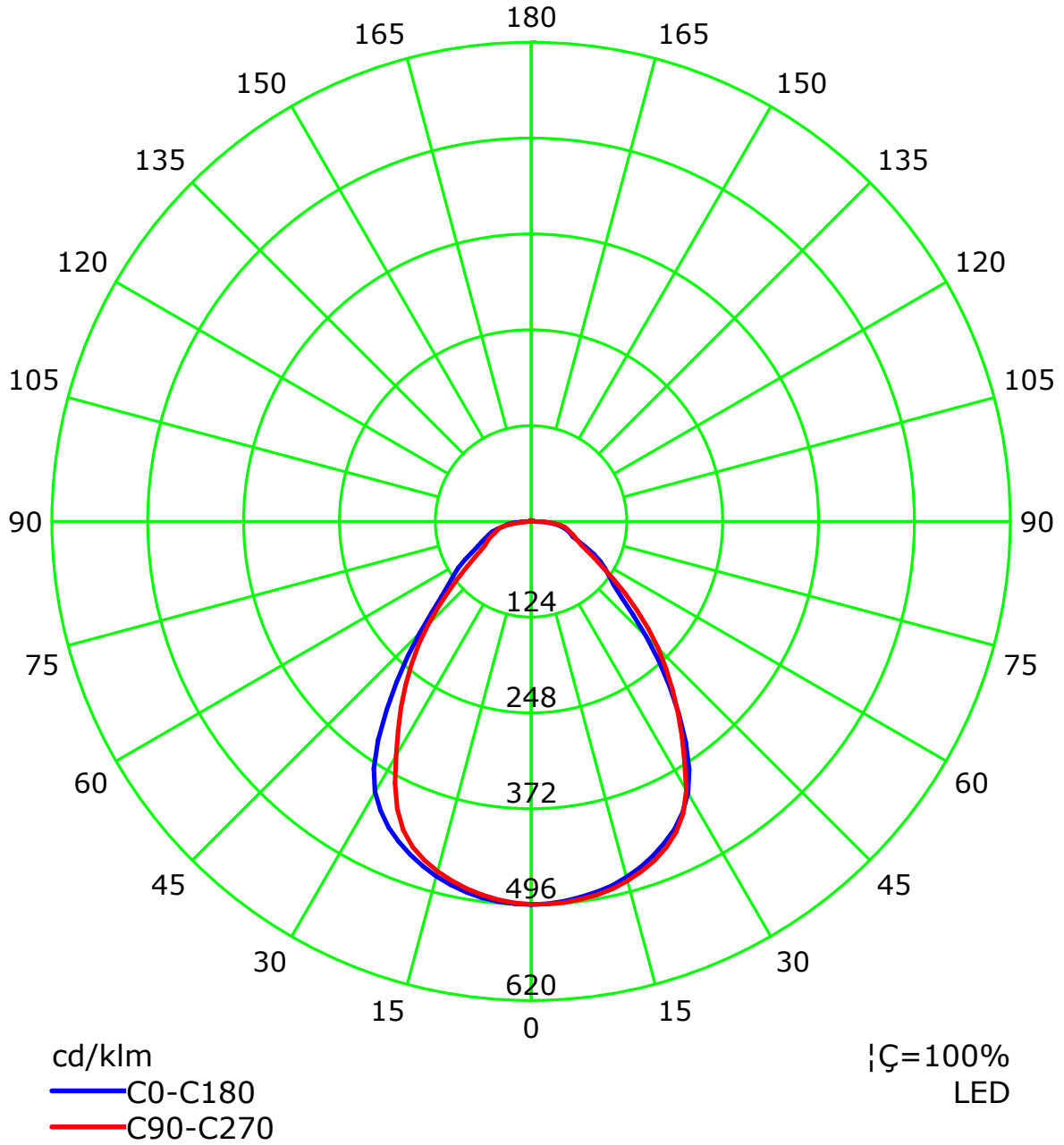
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.5

Test Device: LSG-1800B

Distance: 12.677 m

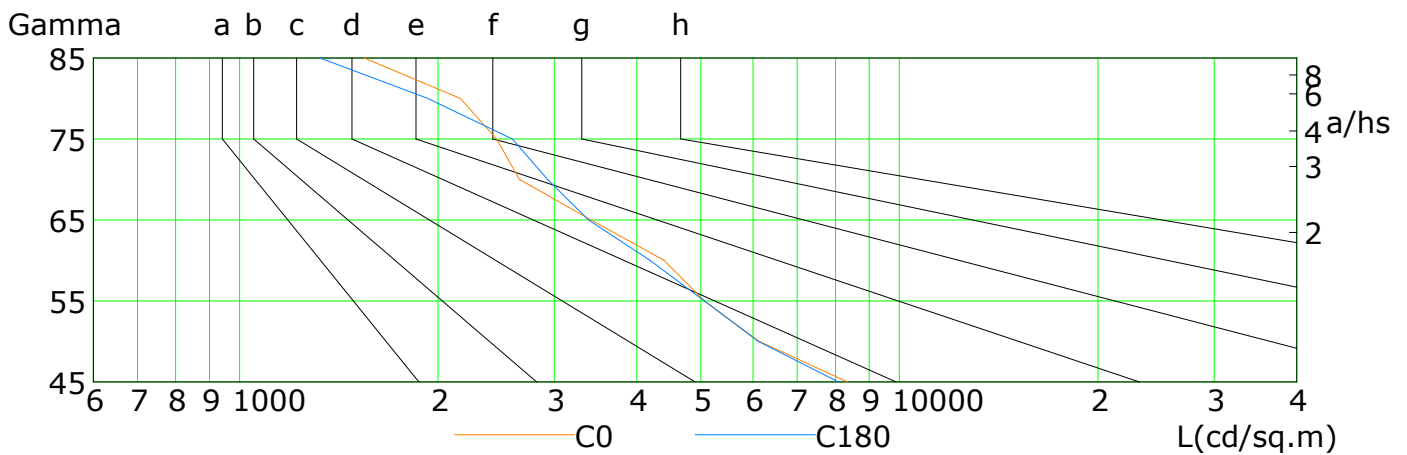
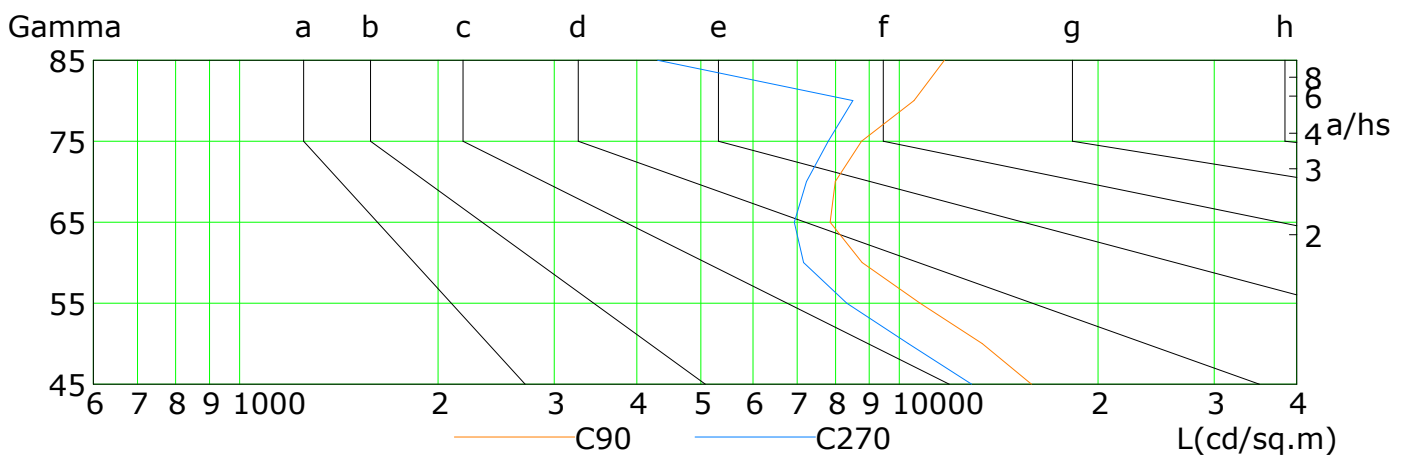
Humidity:

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	8346	6130	5061	4397	3409	2655	2453	2159	1544
C90	15857	13351	10752	8782	7850	7993	8766	10519	11703
C180	8086	6111	5061	4186	3378	2930	2591	1928	1324
C270	12869	10319	8322	7154	6930	7232	7802	8498	4302

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.5

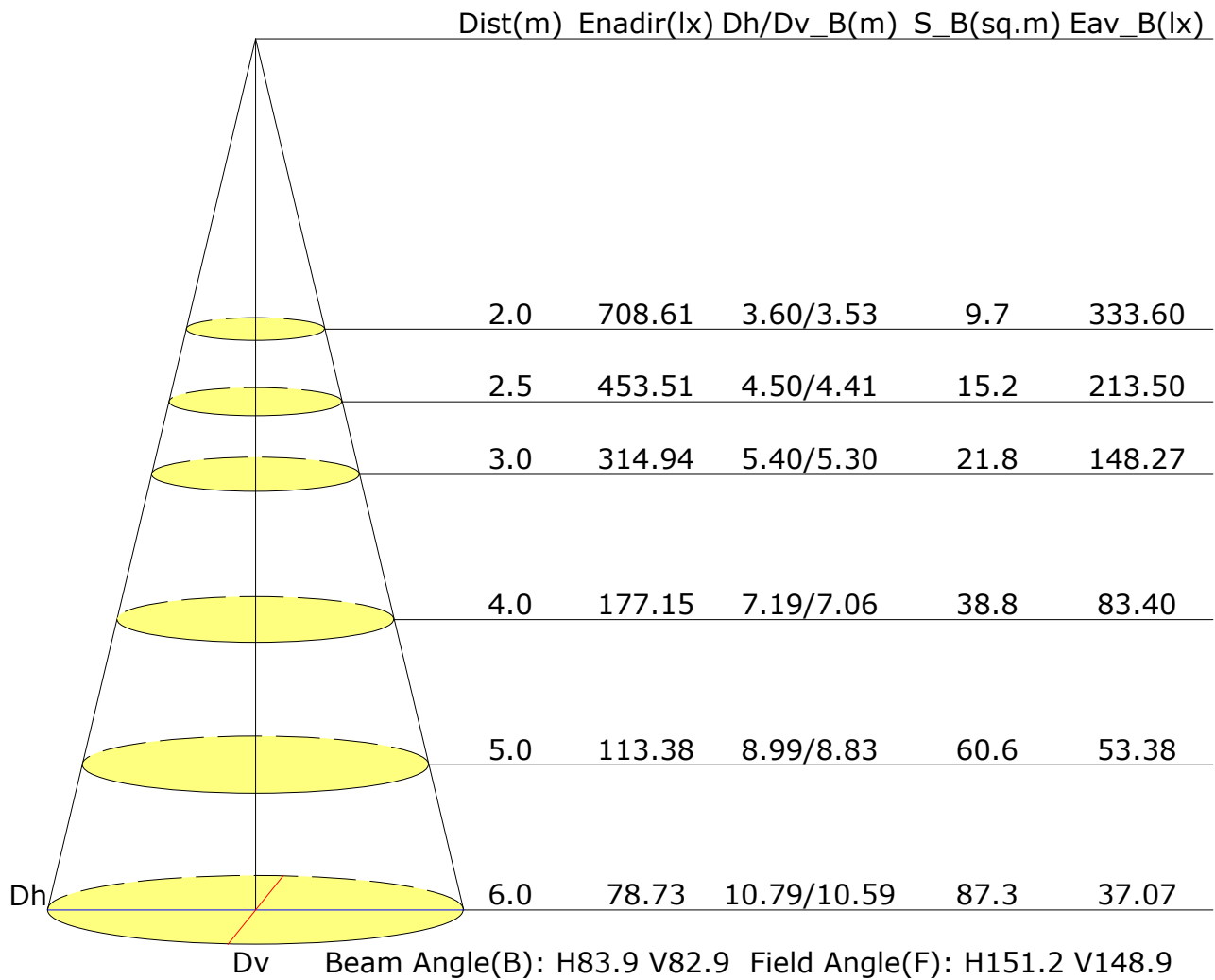
Test Device: LSG-1800B

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	17.8	19.1	18.1	19.3	19.6	18.8	20.0	19.1	20.3	20.5
3H	18.6	19.7	18.9	20.0	20.3	19.8	20.9	20.2	21.2	21.5
4H	18.9	20.0	19.3	20.3	20.6	20.4	21.5	20.8	21.8	22.1
6H	19.3	20.3	19.6	20.6	20.9	21.2	22.2	21.5	22.5	22.8
8H	19.4	20.4	19.8	20.7	21.0	21.5	22.5	21.9	22.8	23.1
12H	19.5	20.4	19.9	20.8	21.1	21.8	22.7	22.2	23.0	23.4
X=4H Y=2H	18.1	19.2	18.5	19.5	19.8	19.0	20.0	19.3	20.3	20.6
3H	19.1	20.0	19.5	20.3	20.7	20.2	21.1	20.6	21.4	21.8
4H	19.6	20.4	20.0	20.8	21.1	20.9	21.7	21.3	22.1	22.5
6H	20.1	20.8	20.5	21.2	21.6	21.8	22.5	22.2	22.9	23.3
8H	20.3	20.9	20.7	21.3	21.8	22.2	22.9	22.6	23.3	23.7
12H	20.4	21.0	20.9	21.4	21.9	22.5	23.1	23.0	23.6	24.0
X=8H Y=4H	19.8	20.4	20.2	20.8	21.3	21.0	21.7	21.5	22.1	22.5
6H	20.4	20.9	20.8	21.3	21.8	22.0	22.5	22.5	23.0	23.4
8H	20.6	21.1	21.1	21.6	22.1	22.5	22.9	23.0	23.4	23.9
12H	20.9	21.3	21.4	21.8	22.3	22.9	23.3	23.4	23.8	24.3
X=12H Y=4H	19.8	20.4	20.2	20.8	21.3	21.0	21.6	21.5	22.0	22.5
6H	20.4	20.9	20.9	21.3	21.8	22.0	22.5	22.5	22.9	23.4
8H	20.7	21.1	21.2	21.6	22.1	22.5	22.9	23.0	23.4	23.9
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.6					+0.3/-0.4				
S=1.5H	+0.8/-1.1					+0.7/-0.8				
S=2.0H	+1.5/-1.8					+1.5/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 5711lm ( $8\log(F/F_0) = 6.1$ ).

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: