

Report No.:

Test Time: 25.08.2020 17:11

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 52 56LED 10W 4000K 80gr.

Luminous Length (mm): 1130

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 221.7 V

Current: 0.052 A

Power: 10.14 W

Power Factor: 0.869

Photometric Results

CIE Class: Direct

Measurement Flux: 975.8 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 975.8 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 86.5, 87.1, 94.7, 95.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 75.2, 75.3, 80.3, 80.1

Luminaire Efficacy Rating (LER): 96.28

Central Intensity: 733.8 cd

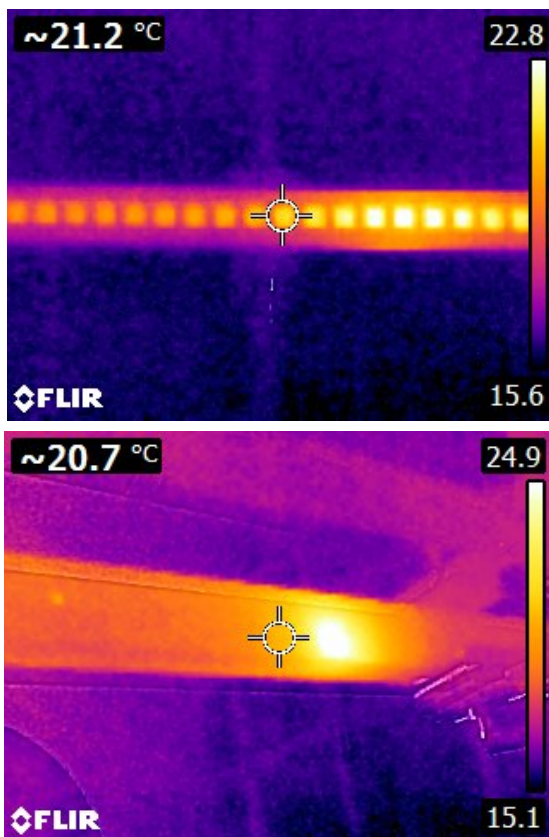
Max. Intensity: 743.62 cd

Pos of Max. Intensity: H292.5 V8

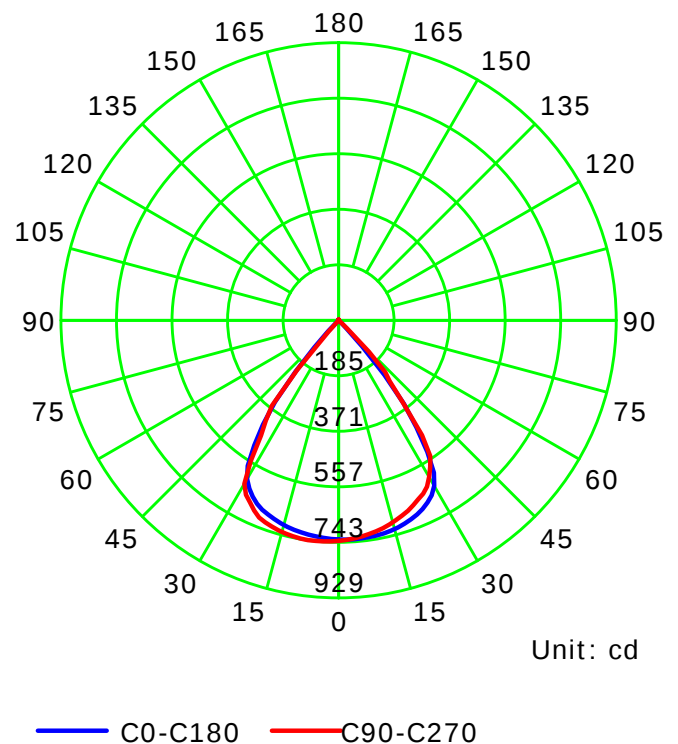
S/MH(C0/C180): 1.23

S/MH(C90/C270): 1.21

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

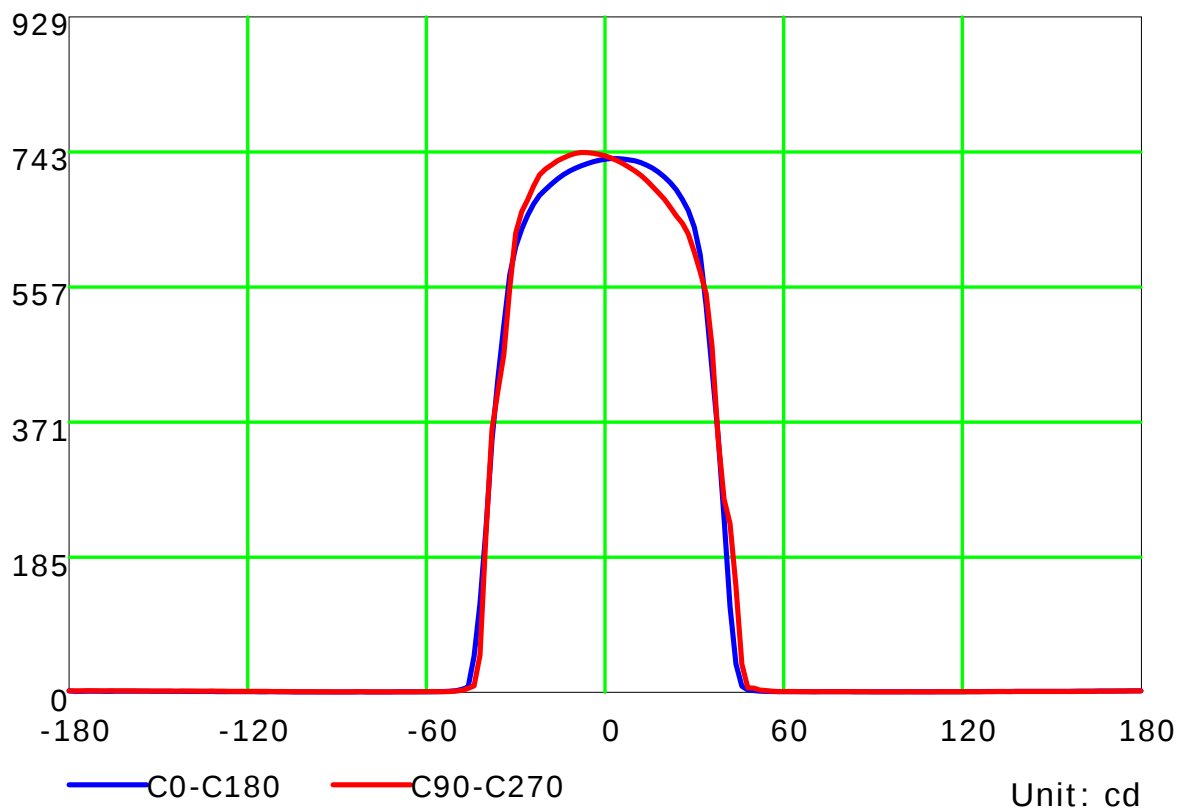
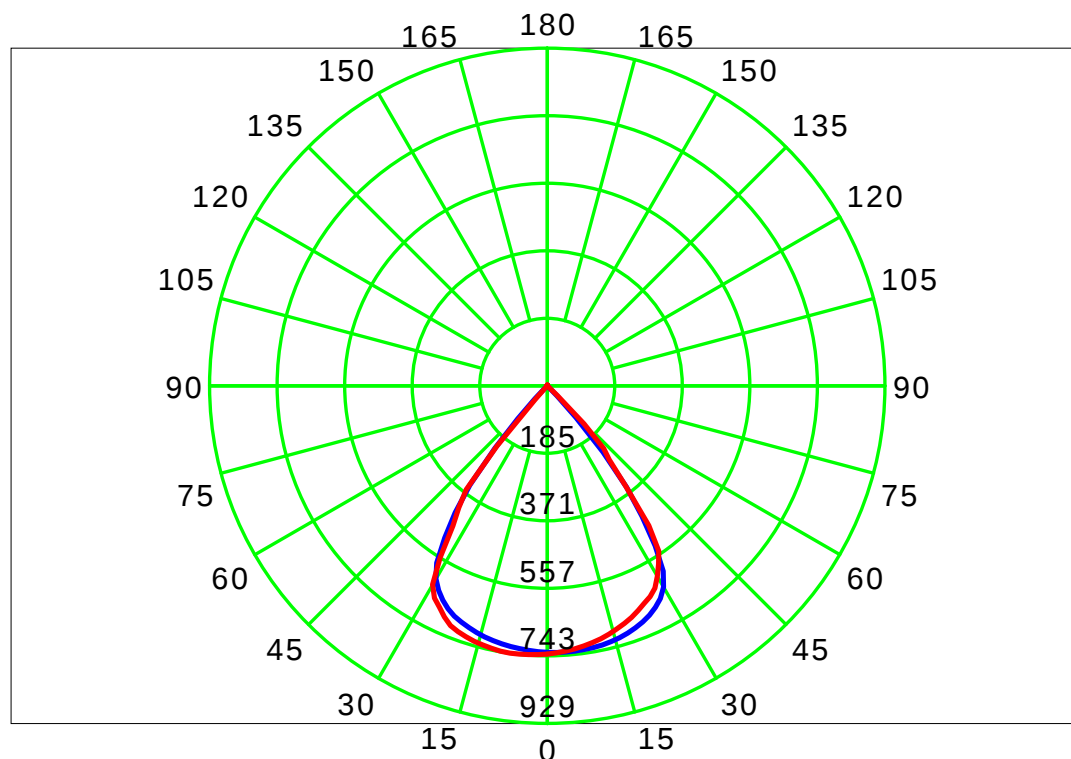
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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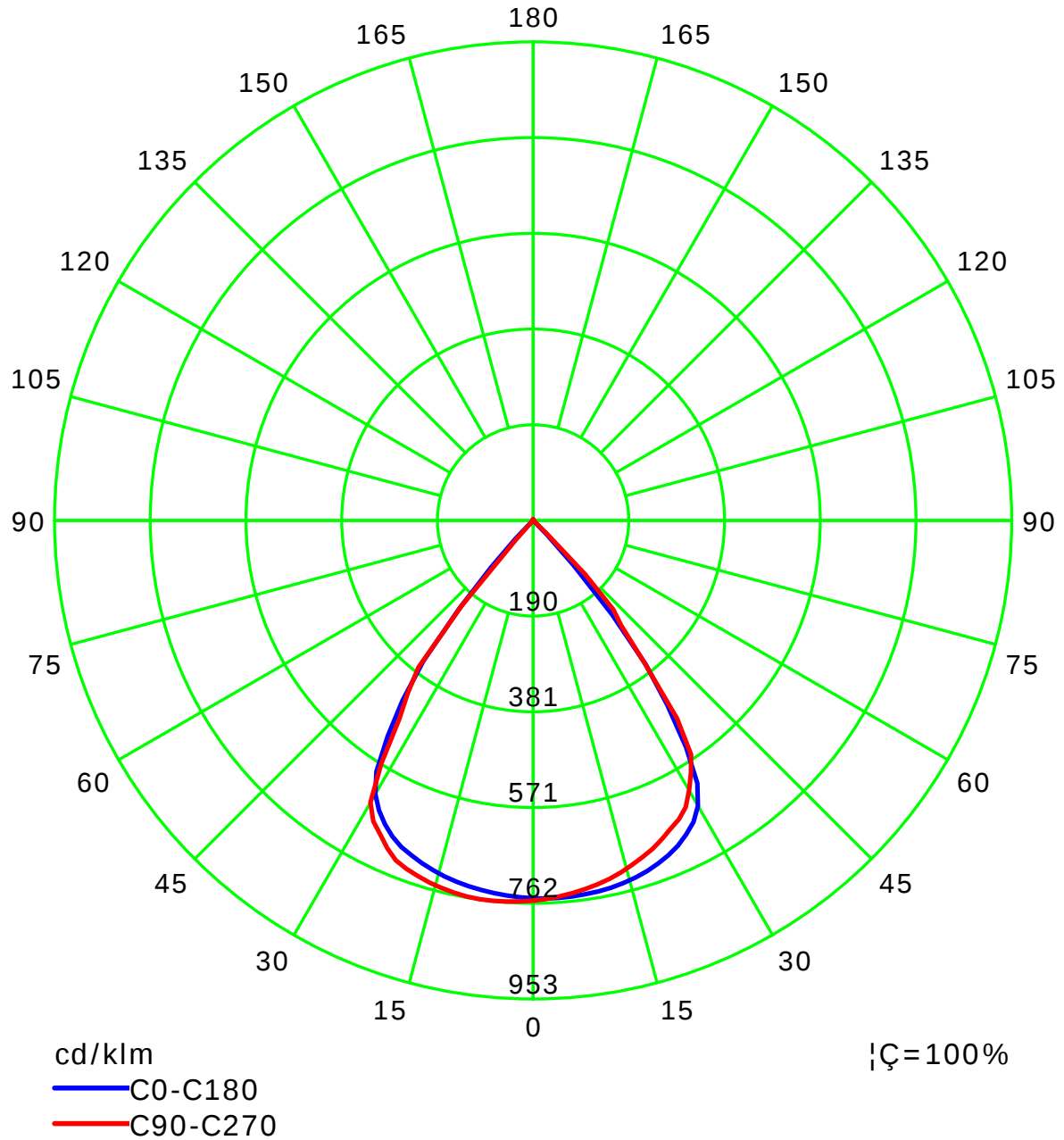
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

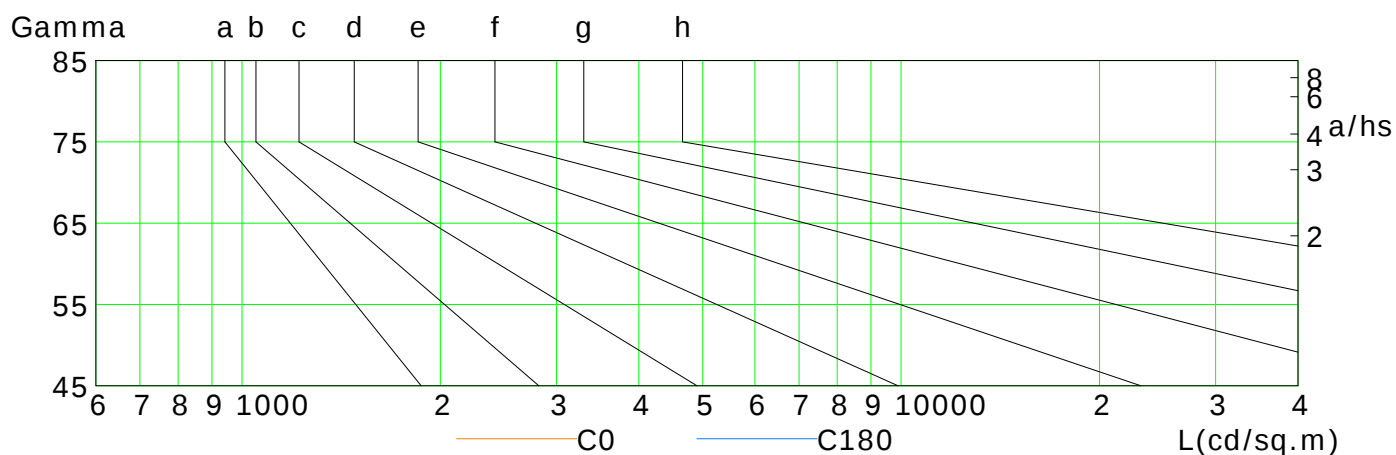
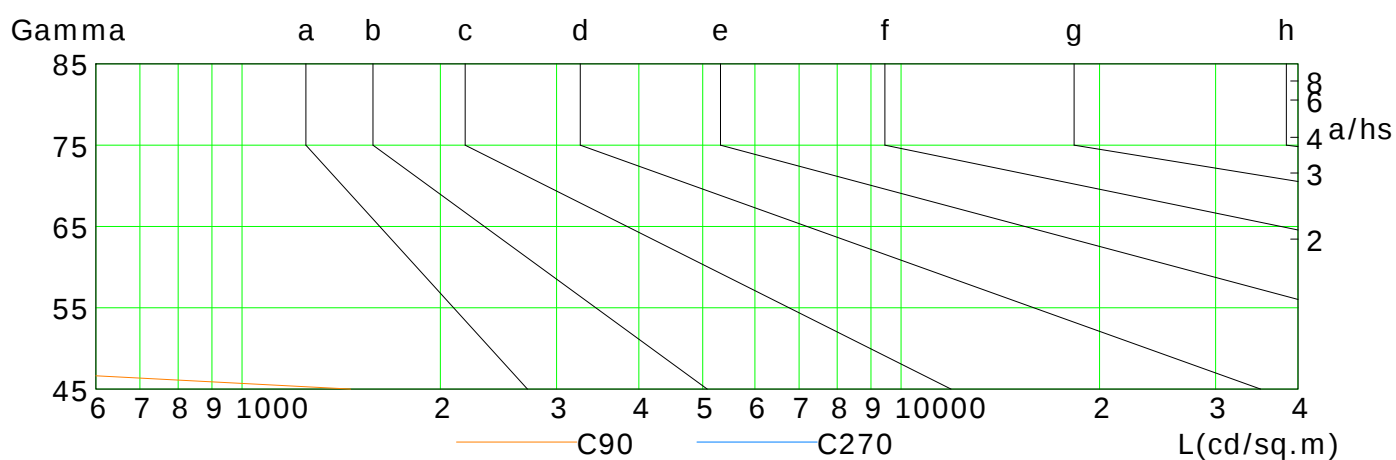
Luminous Intensity Distribution Curve(cd / klm)



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	221	23	12	10	9	9	11	12	12
C90	1461	99	40	28	28	28	37	52	76
C180	265	22	10	8	8	7	7	8	8
C270	115	34	20	22	21	23	32	43	72

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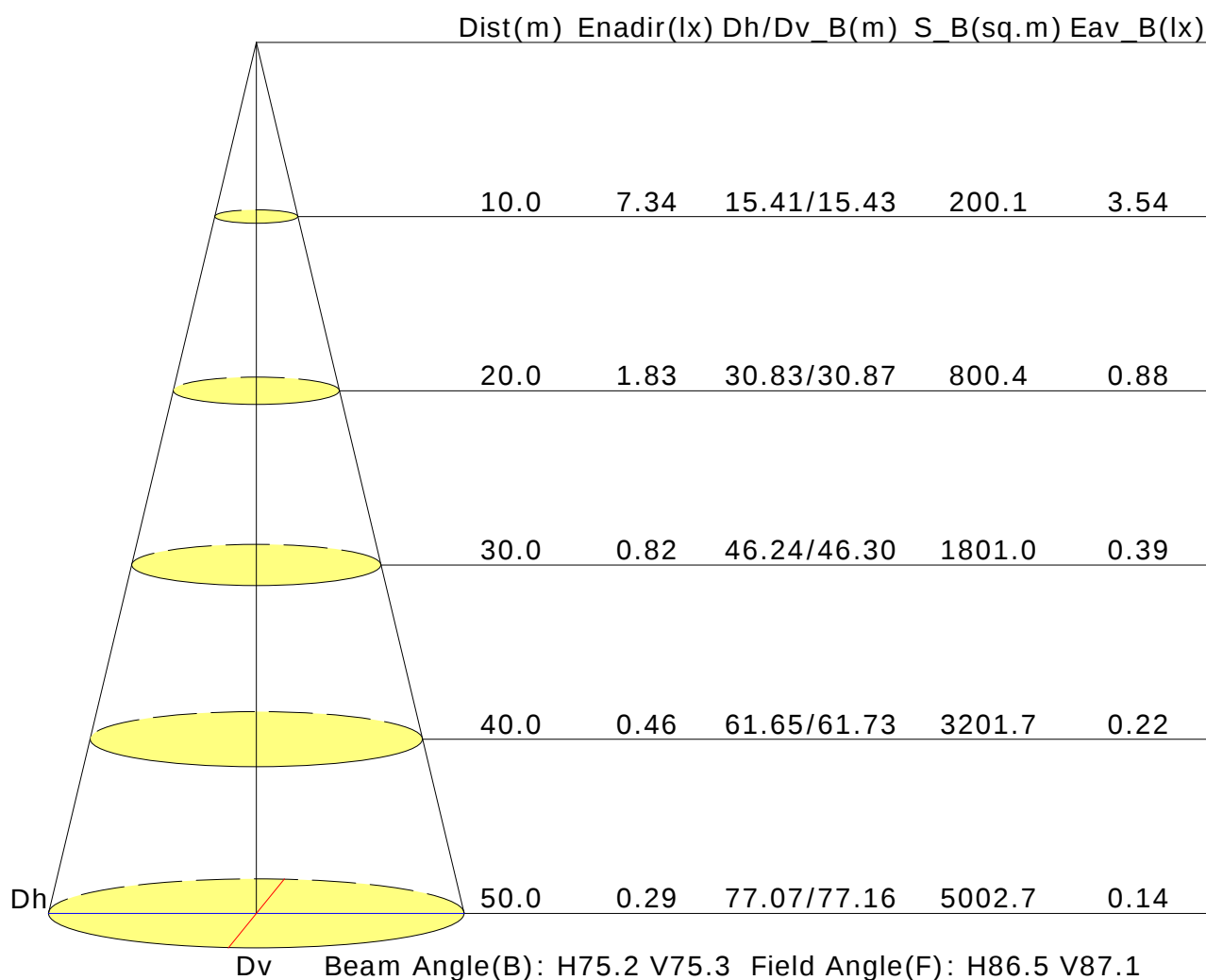
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Illuminance at a Distance



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	10.2	11.1	10.4	11.3	11.5	10.9	11.8	11.2	12.0	12.3
3H	10.0	10.8	10.3	11.1	11.4	10.7	11.6	11.1	11.8	12.1
4H	9.9	10.7	10.3	11.0	11.3	10.7	11.4	11.0	11.7	12.0
6H	9.9	10.6	10.2	10.9	11.2	10.6	11.3	10.9	11.6	11.9
8H	9.8	10.5	10.2	10.8	11.1	10.6	11.2	10.9	11.6	11.9
12H	9.8	10.4	10.2	10.8	11.1	10.5	11.2	10.9	11.5	11.8
X=4H Y=2H	9.9	10.7	10.3	11.0	11.3	10.7	11.4	11.0	11.7	12.0
3H	9.8	10.4	10.2	10.8	11.1	10.5	11.2	10.9	11.5	11.8
4H	9.7	10.3	10.1	10.6	11.0	10.4	11.0	10.8	11.4	11.7
6H	9.6	10.1	10.0	10.5	10.9	10.3	10.9	10.8	11.2	11.7
8H	9.6	10.0	10.0	10.4	10.9	10.3	10.8	10.7	11.2	11.6
12H	9.5	10.0	10.0	10.4	10.8	10.3	10.7	10.7	11.1	11.6
X=8H Y=4H	9.6	10.0	10.0	10.4	10.9	10.3	10.8	10.7	11.2	11.6
6H	9.5	9.9	10.0	10.3	10.8	10.2	10.6	10.7	11.0	11.5
8H	9.4	9.8	9.9	10.2	10.7	10.2	10.5	10.7	11.0	11.5
12H	9.4	9.7	9.9	10.2	10.7	10.1	10.4	10.6	10.9	11.4
X=12H Y=4H	9.5	9.9	10.0	10.4	10.8	10.3	10.7	10.7	11.1	11.6
6H	9.4	9.8	9.9	10.2	10.7	10.2	10.5	10.7	11.0	11.5
8H	9.4	9.7	9.9	10.2	10.7	10.1	10.4	10.6	10.9	11.4
Variations with the observer position at spacings:										
S=1.0H	+4.3/-22.4					+4.5/-21.1				
S=1.5H	+7.0/-23.0					+7.4/-21.6				
S=2.0H	+9.0/-23.4					+9.4/-22.1				

Calculate in accordance with CIE Pub.117. The table is revised with 976lm ($8\log(F/F_0) = -0.1$).

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Test Lab:

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Temperature:

Operator:

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Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.00									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.80	0.88	0.93	0.96	1.01	1.04	1.05	1.08	1.09	
	0.30		0.75	0.84	0.89	0.92	0.97	1.00	1.03	1.05	1.07	
	0.20		0.72	0.80	0.85	0.89	0.94	0.98	1.00	1.03	1.06	
0.50	0.50	0.20	0.79	0.86	0.91	0.94	0.98	1.00	1.02	1.04	1.05	
	0.30		0.75	0.82	0.87	0.90	0.95	0.98	1.00	1.02	1.04	
	0.20		0.71	0.79	0.84	0.88	0.92	0.95	0.98	1.00	1.02	
0.30	0.50	0.20	0.78	0.85	0.89	0.92	0.95	0.97	0.99	1.00	1.01	
	0.30		0.74	0.81	0.86	0.89	0.93	0.95	0.97	0.99	1.00	
	0.20		0.71	0.79	0.83	0.86	0.91	0.93	0.95	0.98	0.99	
0.00	0.00	0.00	0.69	0.77	0.81	0.84	0.87	0.90	0.91	0.93	0.94	
Rating:10W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.00									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.63	0.49	0.41	0.35	0.27	0.23	0.19	0.15	0.12	
	0.30		0.52	0.42	0.36	0.31	0.25	0.21	0.18	0.14	0.11	
	0.20		0.45	0.37	0.32	0.28	0.23	0.19	0.16	0.13	0.11	
0.50	0.50	0.20	0.60	0.47	0.38	0.33	0.25	0.25	0.18	0.13	0.11	
	0.30		0.51	0.40	0.34	0.29	0.23	0.19	0.16	0.13	0.10	
	0.20		0.44	0.36	0.30	0.27	0.21	0.18	0.15	0.12	0.10	
0.30	0.50	0.20	0.57	0.44	0.36	0.31	0.24	0.19	0.16	0.12	0.10	
	0.30		0.49	0.39	0.32	0.28	0.22	0.18	0.15	0.12	0.10	
	0.20		0.43	0.35	0.29	0.25	0.20	0.17	0.14	0.11	0.09	
0.00	0.00	0.00	0.30	0.22	0.18	0.15	0.12	0.09	0.08	0.06	0.05	
Rating:10W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.00									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.14	0.15	0.16	0.17	0.19	0.19	0.20	0.21	0.21	
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.08	0.10	0.12	0.14	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.13	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.21	
	0.30		0.09	0.11	0.13	0.14	0.15	0.16	0.17	0.19	0.19	
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18	
0.30	0.50	0.20	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.19	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:10W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												