

Report No.:

Test Time: 20.08.2020 21:47

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 100W 5000K 120 gr. prozrachnoe steclo

Luminous Length (mm): 277

Luminous Width (mm): 277

Luminous Height (mm): 123

Voltage: 221.5 V

Current: 0.448 A

Power: 98.40 W

Power Factor: 0.991

Photometric Results

CIE Class: Direct

Measurement Flux: 14817.4 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 14817.4 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 151.1, 150.7, 150.8, 151.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.5, 112.3, 112.0, 112.0

Luminaire Efficacy Rating (LER): 150.63

Central Intensity: 5439.44 cd

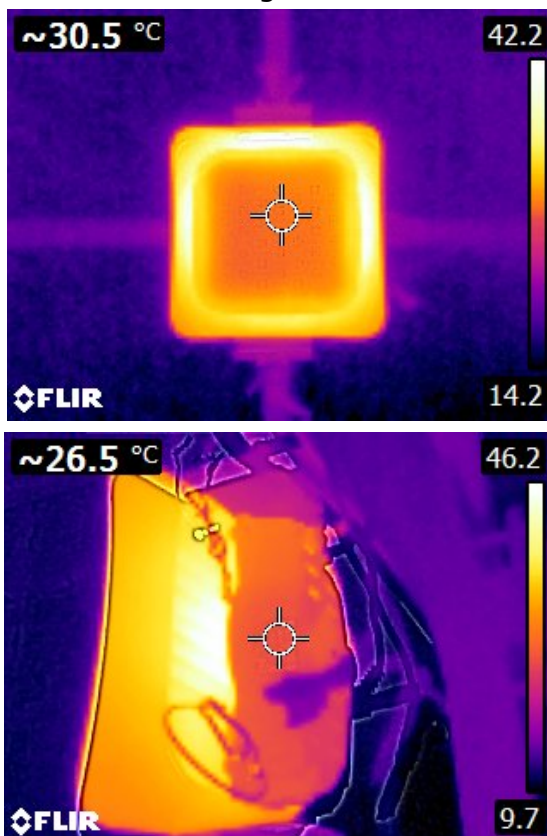
Max. Intensity: 5439.53 cd

Pos of Max. Intensity: H157.5 V0

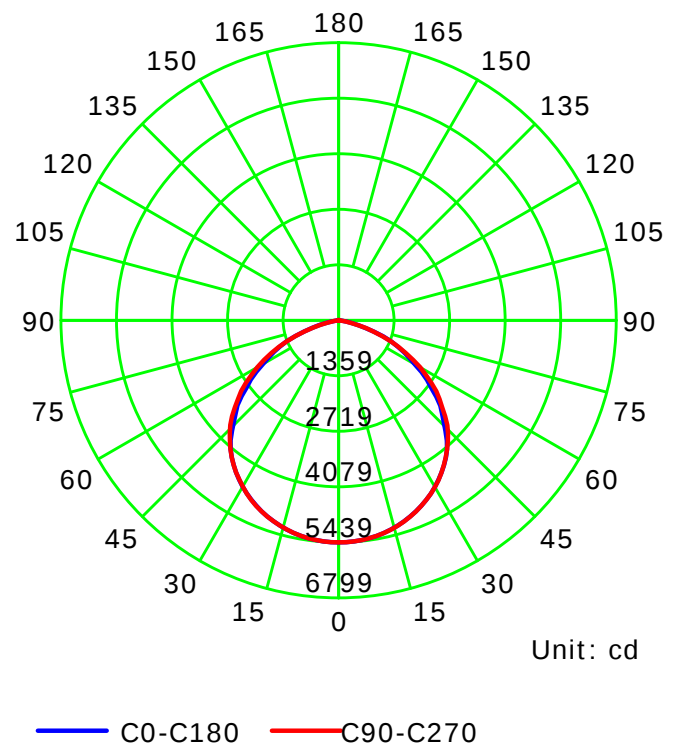
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.29

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

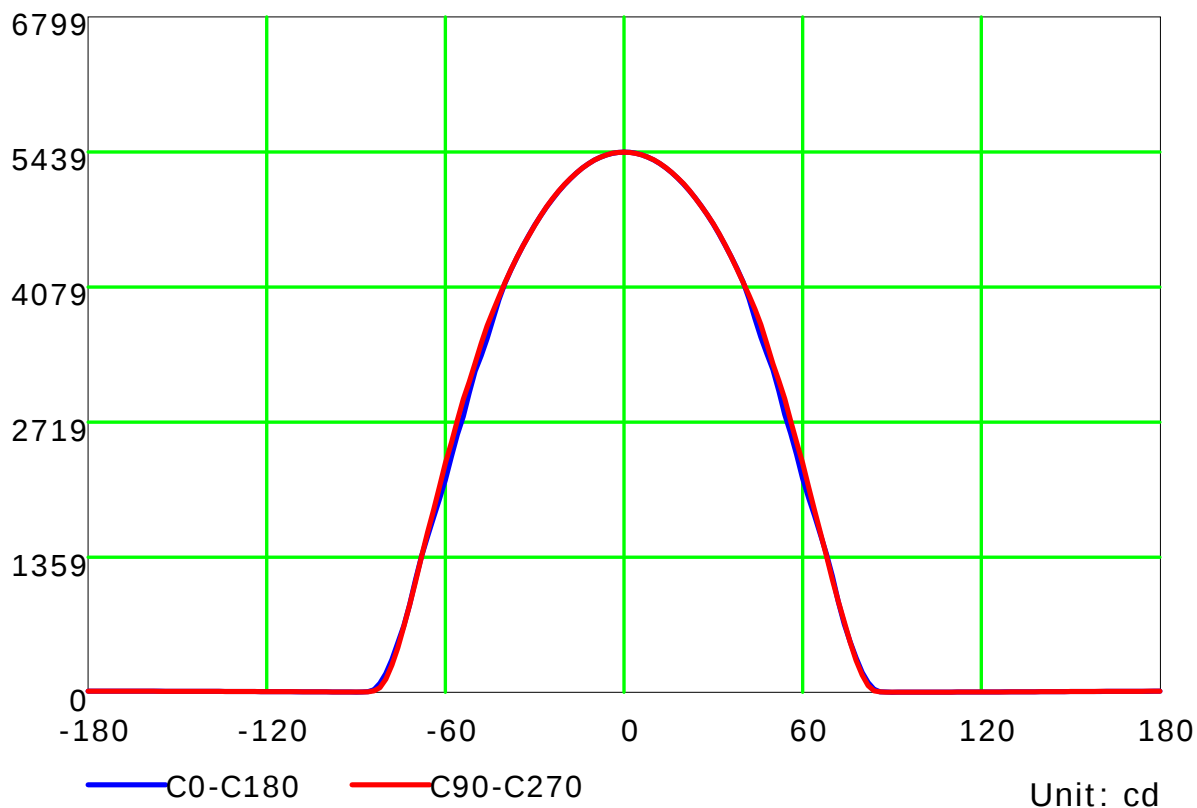
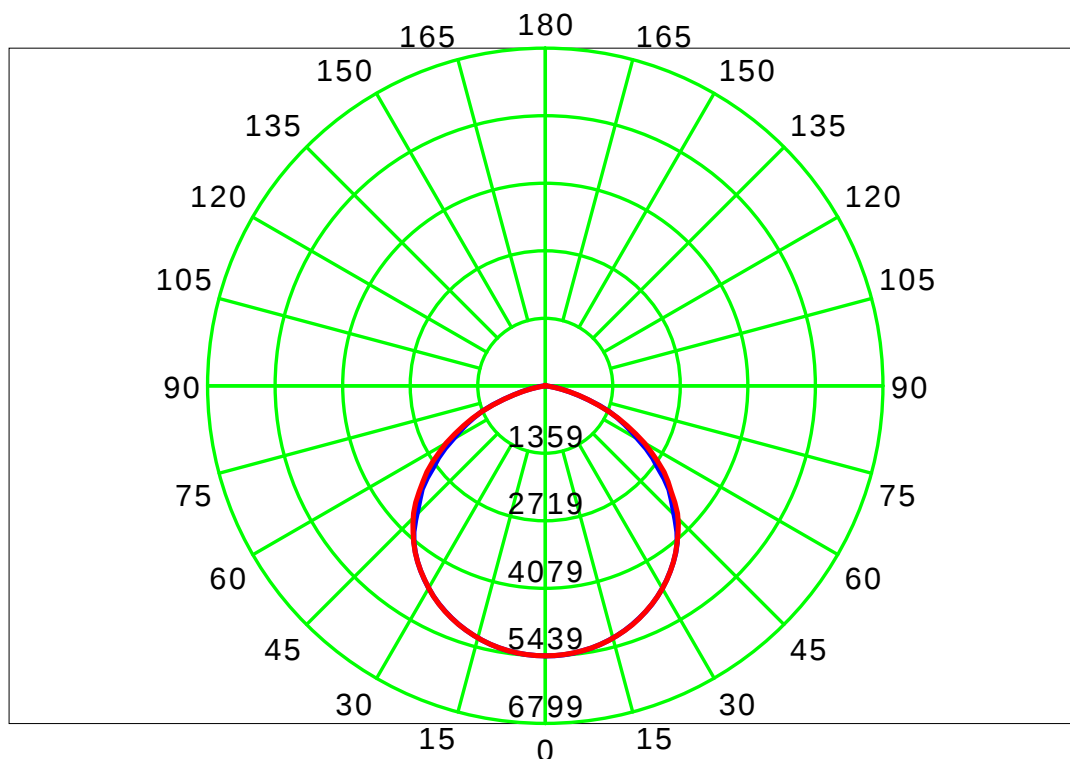
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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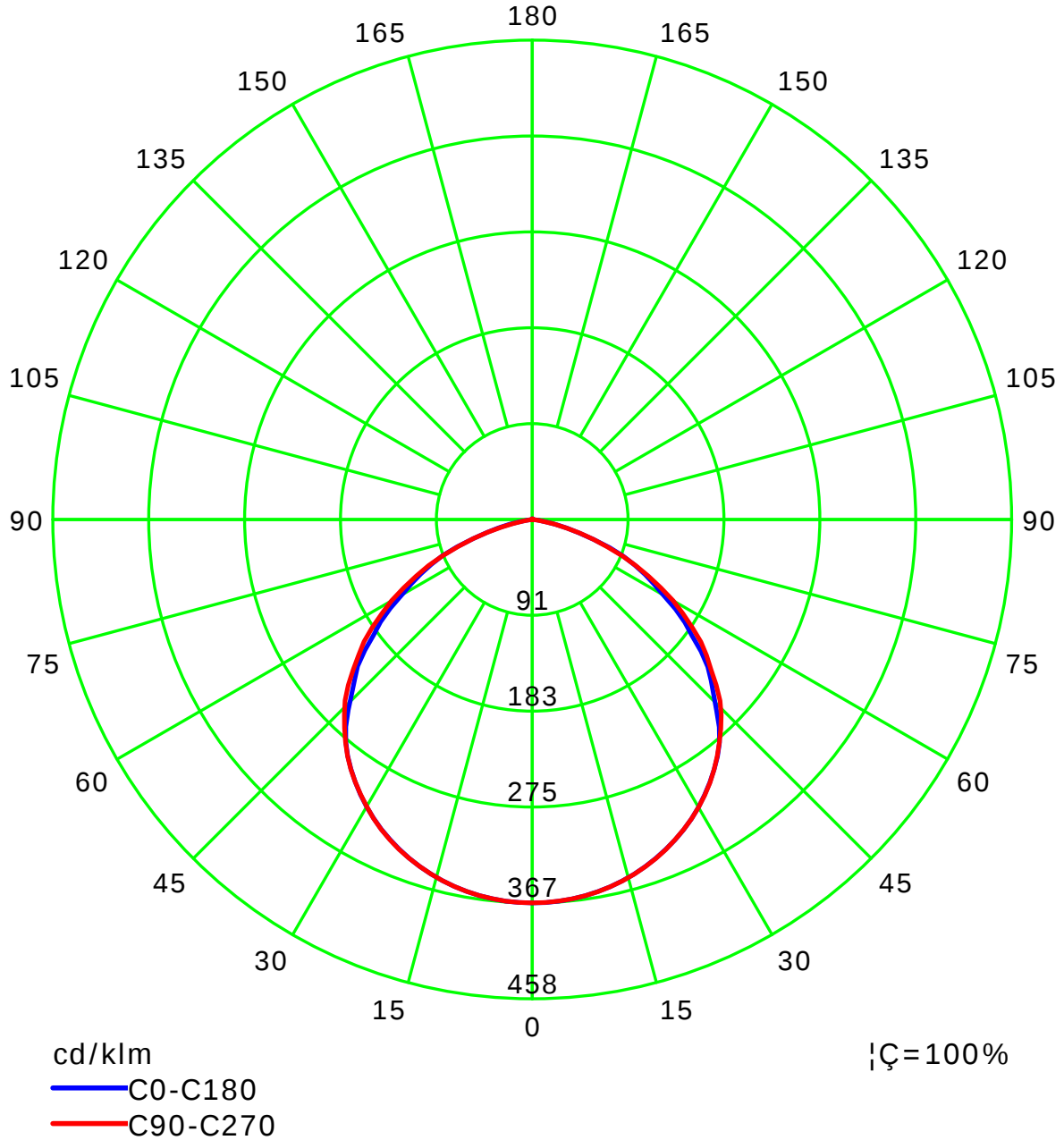
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

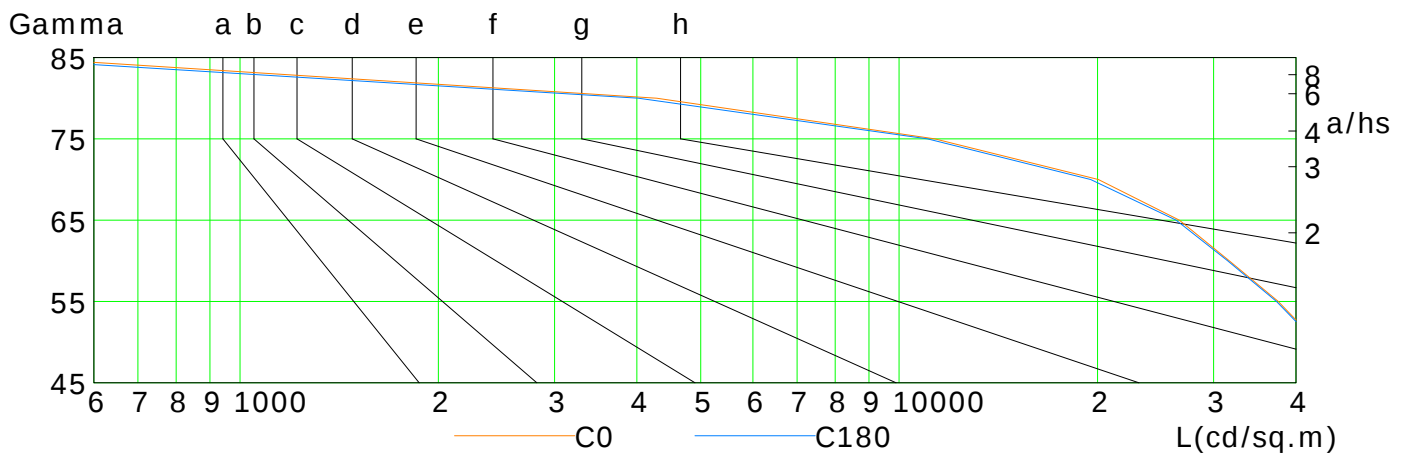
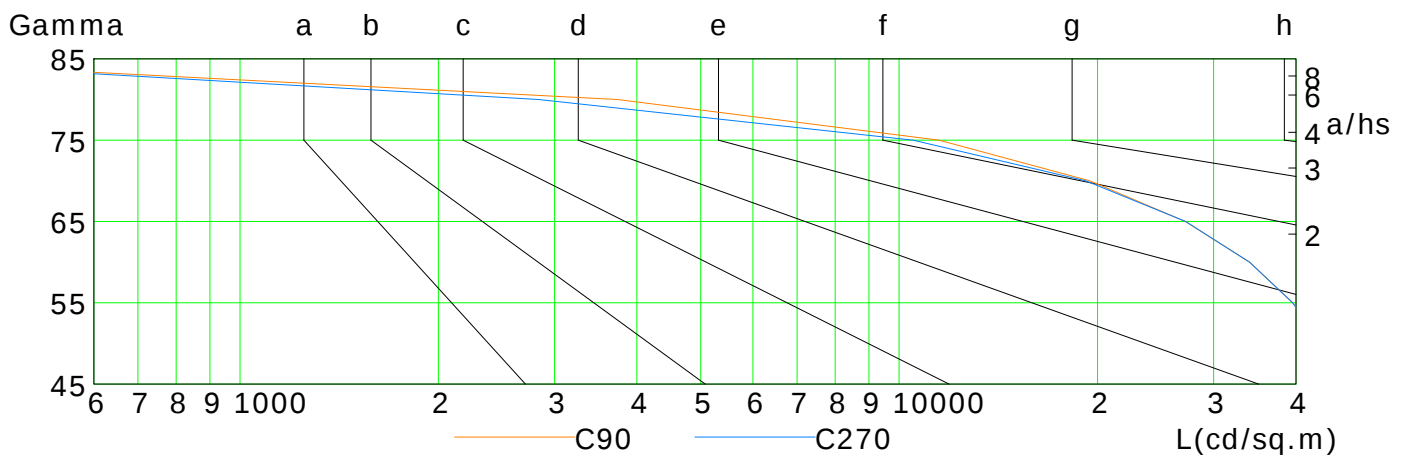
Luminous Intensity Distribution Curve(cd / klm)



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	46835	43091	37598	31694	26623	20055	11324	4287	465
C90	48253	43872	39549	34014	27189	19458	11494	3740	244
C180	46729	42892	37367	31520	26313	19524	11047	4023	405
C270	48054	43955	39552	33999	27201	19187	10500	2839	245

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Temperature:

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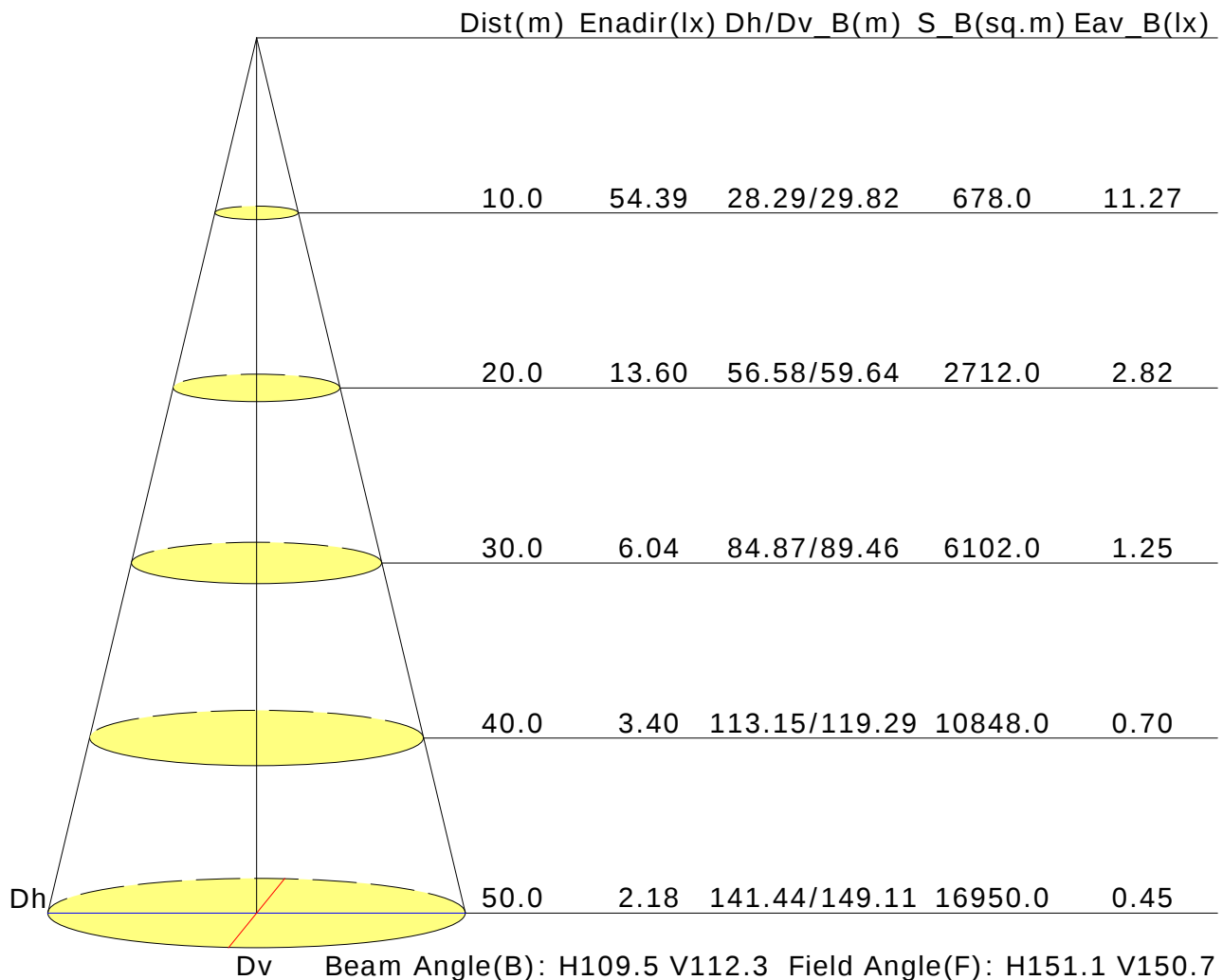
Test Device: LSG-1800B

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	25.0	26.3	25.3	26.6	26.8	25.2	26.5	25.5	26.8	27.0
3H	25.9	27.1	26.2	27.4	27.7	26.0	27.3	26.4	27.5	27.8
4H	26.1	27.2	26.4	27.5	27.8	26.2	27.3	26.5	27.6	27.9
6H	26.1	27.1	26.4	27.4	27.7	26.2	27.2	26.5	27.5	27.9
8H	26.0	27.0	26.4	27.4	27.7	26.1	27.2	26.5	27.5	27.8
12H	26.0	27.0	26.4	27.3	27.6	26.1	27.1	26.5	27.4	27.7
X=4H Y=2H	25.4	26.5	25.8	26.8	27.1	25.6	26.7	25.9	27.0	27.3
3H	26.4	27.4	26.8	27.7	28.1	26.5	27.5	26.9	27.8	28.2
4H	26.6	27.5	27.0	27.9	28.2	26.7	27.6	27.1	27.9	28.3
6H	26.7	27.4	27.1	27.8	28.2	26.7	27.5	27.2	27.9	28.3
8H	26.6	27.3	27.1	27.7	28.2	26.7	27.4	27.1	27.8	28.2
12H	26.6	27.2	27.1	27.7	28.1	26.7	27.3	27.1	27.7	28.2
X=8H Y=4H	26.7	27.4	27.1	27.8	28.2	26.7	27.4	27.2	27.8	28.3
6H	26.7	27.3	27.2	27.7	28.2	26.8	27.3	27.2	27.8	28.2
8H	26.7	27.2	27.2	27.6	28.1	26.8	27.2	27.2	27.7	28.2
12H	26.7	27.1	27.2	27.6	28.1	26.7	27.1	27.2	27.6	28.1
X=12H Y=4H	26.6	27.3	27.1	27.7	28.1	26.7	27.3	27.2	27.8	28.2
6H	26.7	27.2	27.2	27.6	28.1	26.7	27.2	27.2	27.7	28.2
8H	26.7	27.1	27.2	27.6	28.1	26.7	27.1	27.2	27.6	28.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.3				
S=1.5H	+0.6/-1.0					+0.5/-0.9				
S=2.0H	+1.1/-1.7					+1.2/-1.9				

Calculate in accordance with CIE Pub.117. The table is revised with 14817lm ($8\log(F/F_0) = 9.4$).

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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 = 1.25									
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	0.59	0.69	0.77	0.82	0.90	0.94	0.98	1.02	1.05	
	0.30		0.51	0.62	0.70	0.76	0.84	0.89	0.93	0.98	1.02	
	0.20		0.45	0.56	0.64	0.71	0.79	0.85	0.89	0.95	0.99	
0.50	0.50	0.20	0.57	0.67	0.74	0.80	0.86	0.91	0.94	0.98	1.01	
	0.30		0.50	0.61	0.68	0.74	0.82	0.87	0.90	0.95	0.98	
	0.20		0.45	0.56	0.64	0.69	0.78	0.83	0.87	0.92	0.96	
0.30	0.50	0.20	0.55	0.65	0.72	0.77	0.84	0.88	0.91	0.94	0.97	
	0.30		0.49	0.60	0.67	0.72	0.79	0.84	0.88	0.92	0.95	
	0.20		0.45	0.55	0.63	0.68	0.76	0.81	0.85	0.90	0.93	
0.00	0.00	0.00	0.42	0.53	0.60	0.65	0.73	0.77	0.81	0.85	0.88	
Rating:98W 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 = 1.25									
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	0.97	0.79	0.66	0.57	0.45	0.37	0.31	0.24	0.19	
	0.30		0.81	0.67	0.58	0.50	0.41	0.34	0.29	0.22	0.18	
	0.20		0.69	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.18	
0.50	0.50	0.20	0.93	0.76	0.63	0.55	0.43	0.38	0.30	0.23	0.18	
	0.30		0.79	0.66	0.56	0.49	0.39	0.32	0.28	0.21	0.17	
	0.20		0.68	0.58	0.50	0.44	0.36	0.30	0.26	0.20	0.17	
0.30	0.50	0.20	0.91	0.73	0.61	0.52	0.41	0.33	0.28	0.21	0.17	
	0.30		0.77	0.64	0.54	0.47	0.38	0.31	0.27	0.20	0.17	
	0.20		0.68	0.57	0.49	0.43	0.35	0.29	0.25	0.20	0.16	
0.00	0.00	0.00	0.57	0.47	0.40	0.34	0.27	0.22	0.19	0.15	0.12	
Rating:98W 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 = 1.25								
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	0.16	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.22
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.17	0.19	0.19
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.14	0.16	0.16	0.17	0.18
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rating:98W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											