

Report No.:

Test Time: 08.06.2020 23:36

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 100W 3000K 120гр. диод 3Т матовое стекло

Number of Lamps: 1

Lumens per Lamp: 11355.5 lm

Luminous Length (mm): 277 mm

Luminous Width (mm): 277 mm

Luminous Height (mm): 123 mm

Voltage: 222.1 V

Current: 0.448 A

Power: 98.50 W

Power Factor: 0.989

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 11355.5 lm

Measurement Flux: 11355.5 lm

Efficiency: 100.00%

Downward Ratio: 99.74%

Upward Ratio: 0.26%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.1, 153.6, 155.0, 155.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.4, 101.4, 101.2, 101.1

Luminaire Efficacy Rating (LER): 115.33

Central Intensity: 4549.42 cd

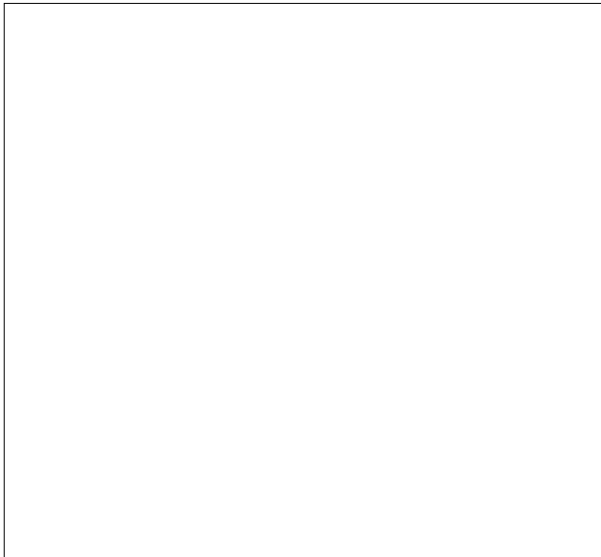
Max. Intensity: 4549.42 cd

Pos of Max. Intensity: H0 V0

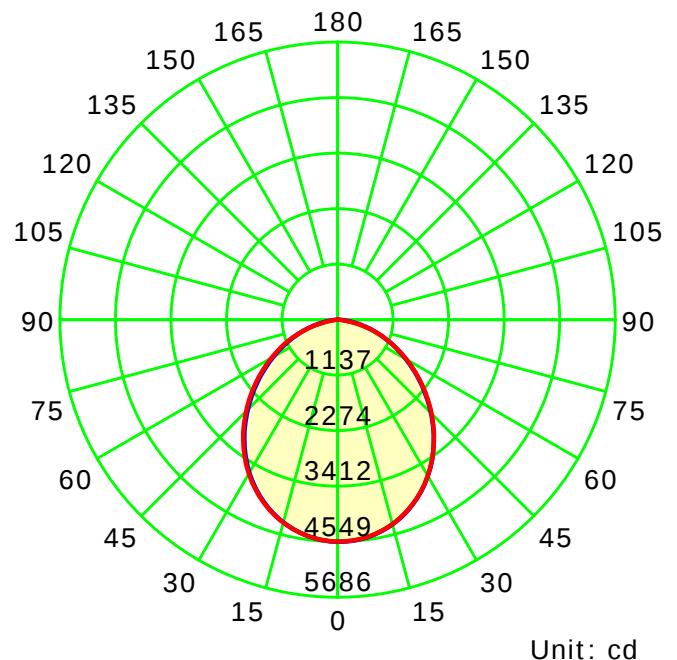
S/MH(C0/C180): 1.20

S/MH(C90/C270): 1.20

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

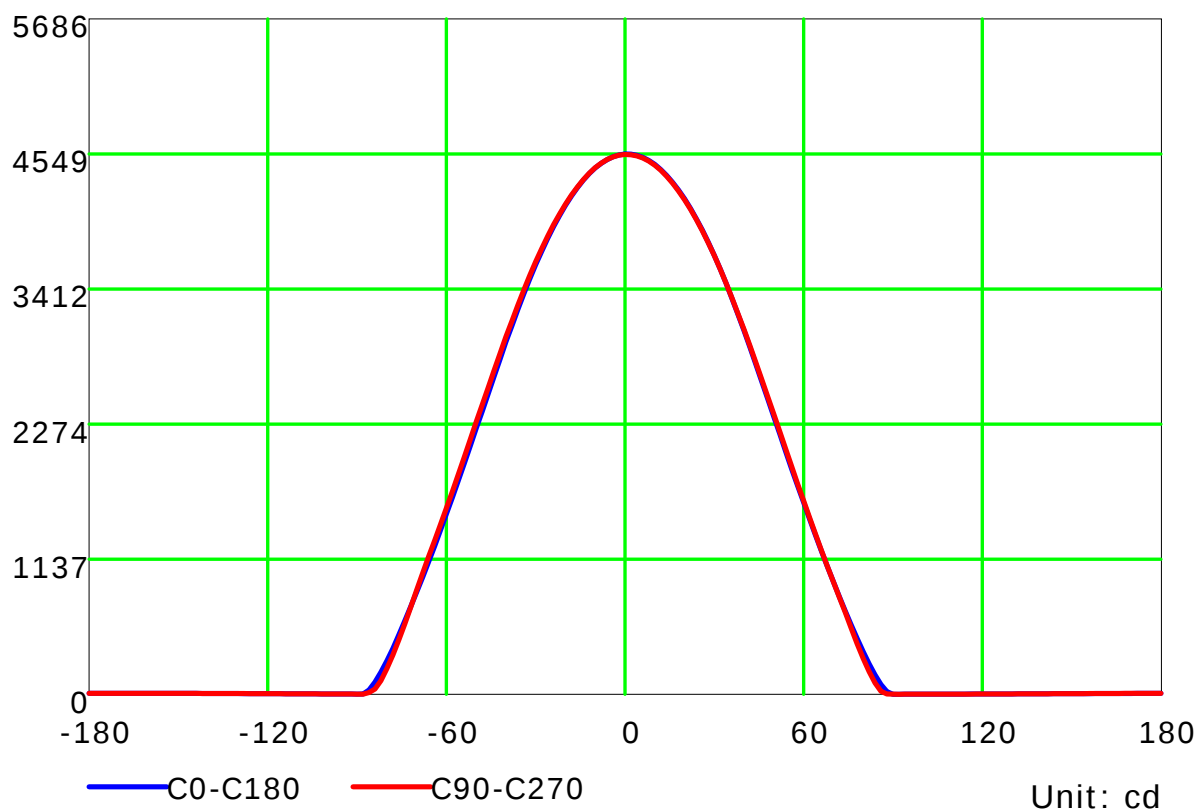
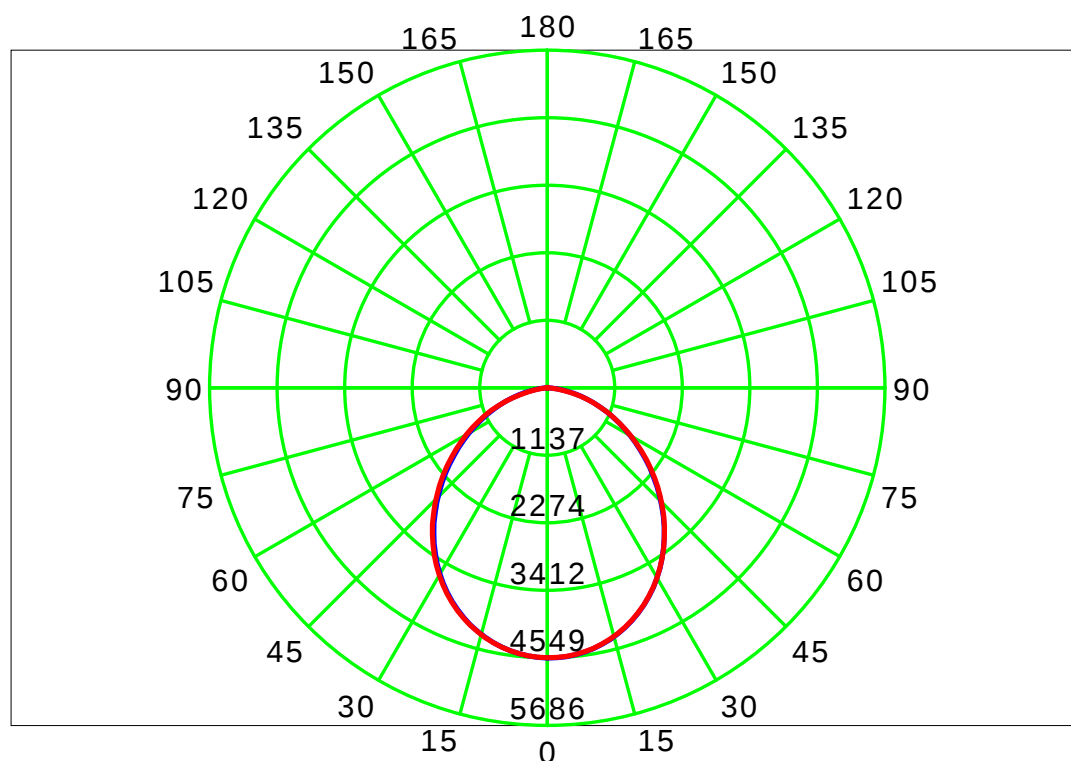
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

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Temperature:

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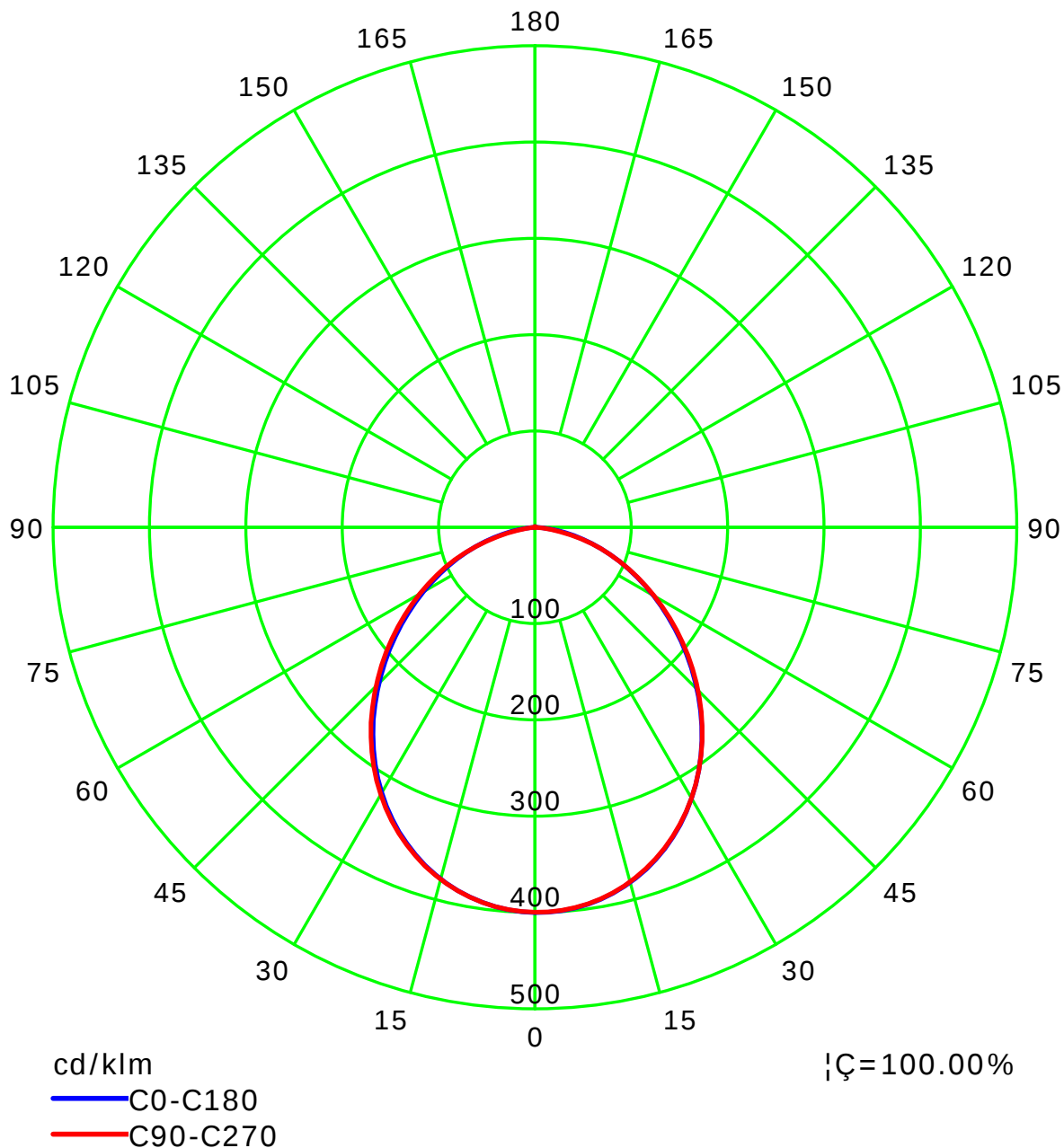
Test Device: LSG-1800B

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

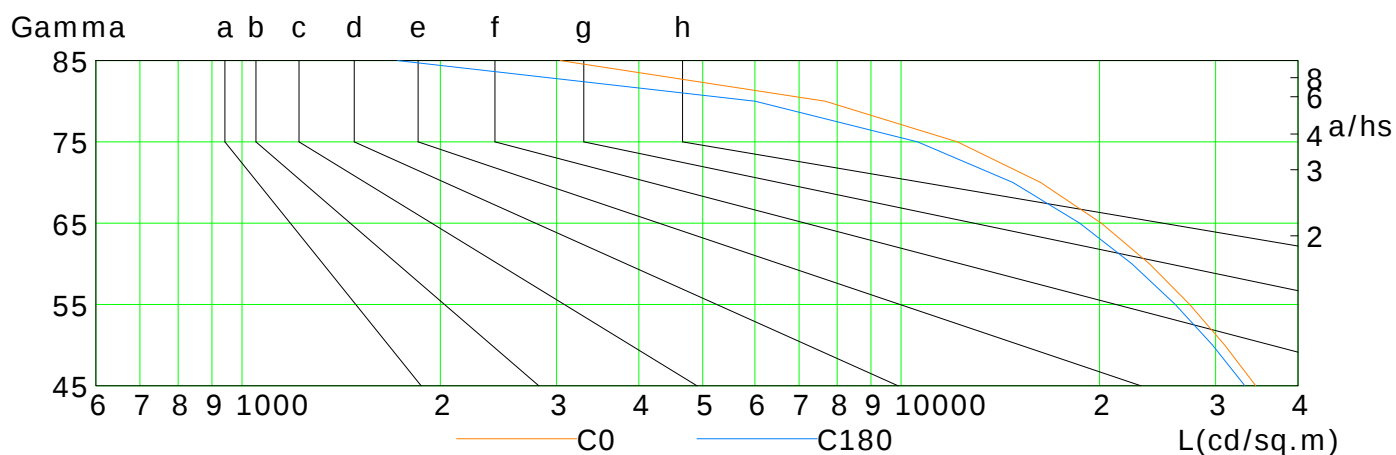
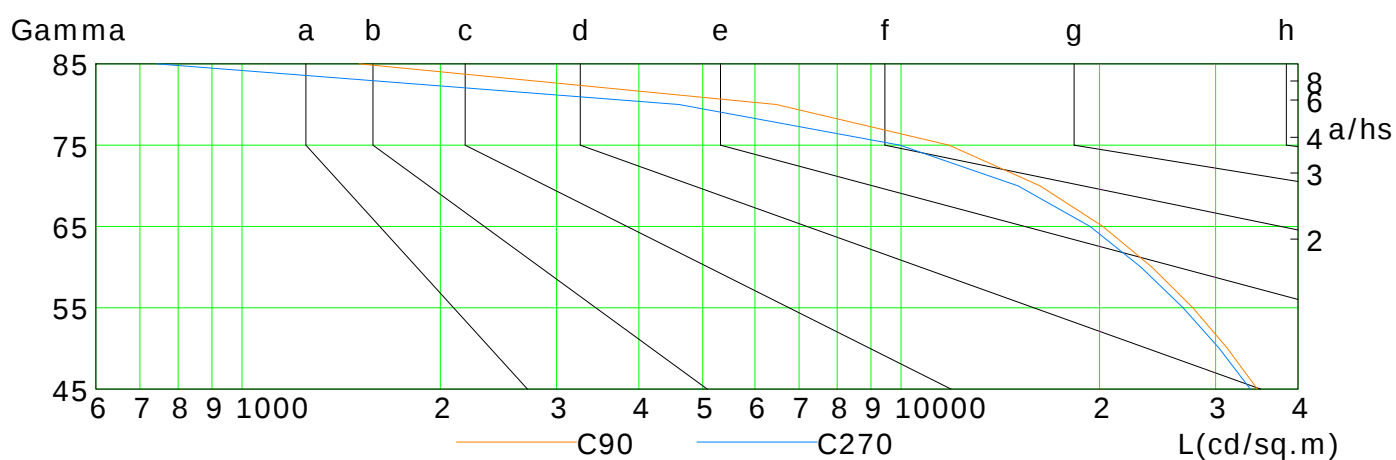
Humidity:

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	34510	30972	27400	23809	20123	16279	12171	7671	3040
C90	34715	31268	27704	24015	20233	16243	11821	6468	1506
C180	33235	29683	26051	22390	18659	14776	10593	6002	1722
C270	33872	30393	26782	23110	19355	15035	9958	4602	743

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

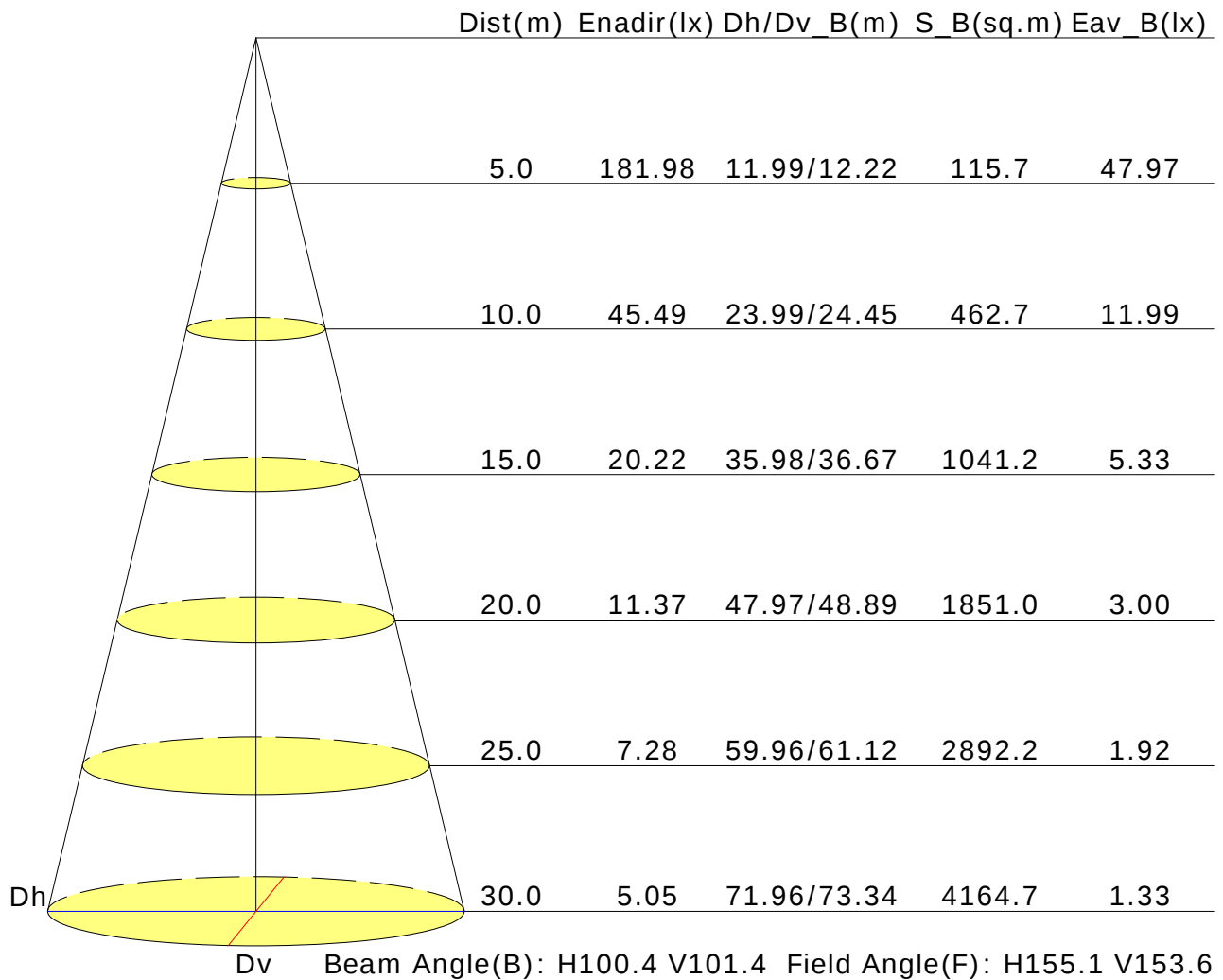
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

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	23.7	25.1	24.0	25.3	25.5	23.7	25.0	24.0	25.3	25.5
3H	24.8	26.0	25.1	26.3	26.5	24.7	25.9	25.1	26.2	26.5
4H	25.1	26.3	25.5	26.5	26.8	25.0	26.2	25.4	26.5	26.8
6H	25.3	26.4	25.7	26.7	27.0	25.1	26.2	25.5	26.5	26.8
8H	25.3	26.3	25.7	26.7	27.0	25.1	26.1	25.5	26.5	26.8
12H	25.3	26.3	25.7	26.6	27.0	25.1	26.1	25.5	26.4	26.7
X=4H Y=2H	24.2	25.3	24.5	25.6	25.9	24.1	25.3	24.5	25.6	25.9
3H	25.4	26.3	25.7	26.7	27.0	25.3	26.3	25.7	26.6	27.0
4H	25.8	26.7	26.2	27.0	27.4	25.7	26.6	26.1	26.9	27.3
6H	26.1	26.8	26.5	27.2	27.6	25.9	26.6	26.3	27.0	27.4
8H	26.1	26.8	26.5	27.2	27.6	25.9	26.6	26.3	27.0	27.4
12H	26.1	26.8	26.6	27.2	27.6	25.9	26.5	26.3	26.9	27.4
X=8H Y=4H	25.9	26.6	26.4	27.0	27.5	25.8	26.5	26.3	26.9	27.4
6H	26.2	26.8	26.7	27.3	27.7	26.1	26.6	26.5	27.1	27.5
8H	26.3	26.8	26.8	27.3	27.8	26.1	26.6	26.6	27.0	27.5
12H	26.4	26.8	26.9	27.3	27.8	26.1	26.5	26.6	27.0	27.5
X=12H Y=4H	25.9	26.5	26.4	27.0	27.4	25.8	26.5	26.3	26.9	27.3
6H	26.2	26.7	26.7	27.2	27.7	26.1	26.6	26.5	27.0	27.5
8H	26.3	26.8	26.8	27.2	27.8	26.1	26.5	26.6	27.0	27.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.3				
S=1.5H	+0.4/-0.7					+0.4/-0.8				
S=2.0H	+0.9/-1.3					+0.9/-1.4				

Calculate in accordance with CIE Pub.117. The table is revised with 11356lm ($8\log(F/F_0) = 8.4$).

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:

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	0.60	0.70	0.77	0.82	0.89	0.94	0.97	1.02	1.04	
	0.30		0.52	0.63	0.70	0.76	0.83	0.89	0.93	0.98	1.01	
	0.20		0.47	0.57	0.65	0.70	0.79	0.85	0.89	0.95	0.98	
0.50	0.50	0.20	0.58	0.68	0.75	0.79	0.86	0.91	0.94	0.98	1.00	
	0.30		0.51	0.61	0.69	0.74	0.81	0.86	0.90	0.95	0.98	
	0.20		0.46	0.56	0.64	0.69	0.77	0.83	0.86	0.92	0.95	
0.30	0.50	0.20	0.57	0.66	0.72	0.77	0.83	0.87	0.90	0.94	0.96	
	0.30		0.50	0.60	0.67	0.72	0.79	0.84	0.87	0.91	0.94	
	0.20		0.46	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.44	0.53	0.60	0.65	0.72	0.77	0.80	0.85	0.87	
Rating:99W 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	0.95	0.78	0.66	0.57	0.45	0.37	0.32	0.25	0.20	
	0.30		0.79	0.67	0.58	0.51	0.41	0.34	0.30	0.23	0.19	
	0.20		0.68	0.58	0.51	0.45	0.37	0.32	0.28	0.22	0.18	
0.50	0.50	0.20	0.92	0.75	0.63	0.55	0.43	0.39	0.30	0.23	0.19	
	0.30		0.78	0.65	0.56	0.49	0.40	0.33	0.28	0.22	0.18	
	0.20		0.67	0.57	0.50	0.44	0.36	0.31	0.27	0.21	0.17	
0.30	0.50	0.20	0.89	0.72	0.61	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.76	0.63	0.54	0.47	0.38	0.32	0.27	0.21	0.17	
	0.20		0.67	0.56	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.56	0.46	0.40	0.35	0.28	0.23	0.20	0.15	0.12	
Rating:99W 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	0.17	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		0.09	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:99W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												