

Report No.:

Test Time: 05.06.2020 18:25

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 100W 3000K 90гр. диод 3Т матовое стекло

Number of Lamps: 1

Lumens per Lamp: 11360.7 lm

Luminous Length (mm): 277 mm

Luminous Width (mm): 277 mm

Luminous Height (mm): 123 mm

Voltage: 221.4 V

Current: 0.449 A

Power: 98.50 W

Power Factor: 0.990

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 11360.7 lm

Measurement Flux: 11360.7 lm

Efficiency: 100.00%

Downward Ratio: 99.73%

Upward Ratio: 0.27%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 147.0, 145.5, 146.7, 146.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 92.7, 92.4, 92.3, 92.4

Luminaire Efficacy Rating (LER): 115.39

Central Intensity: 5064.7 cd

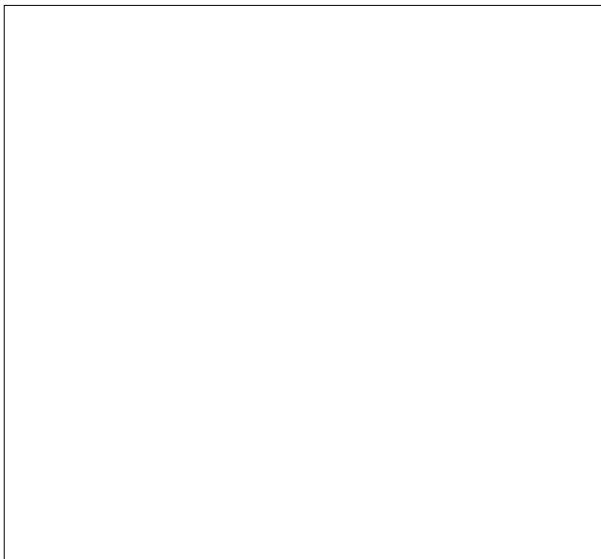
Max. Intensity: 5078.42 cd

Pos of Max. Intensity: H247.5 V6

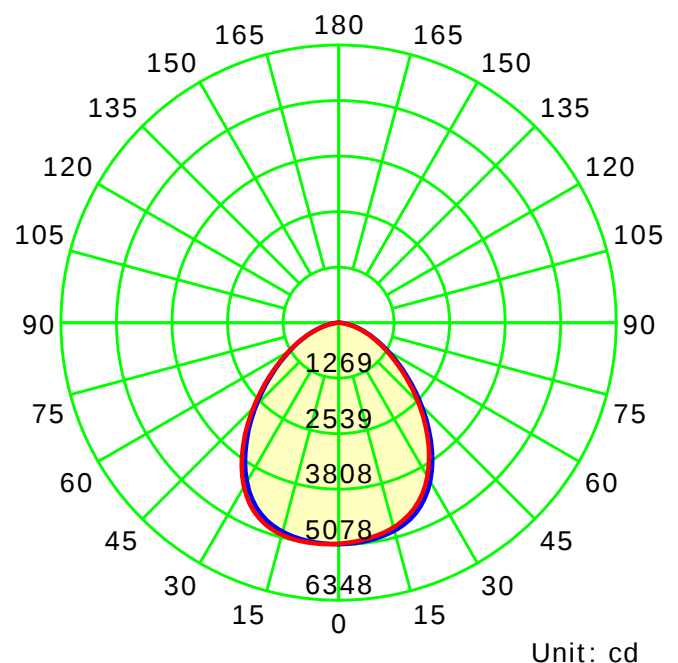
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.22

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

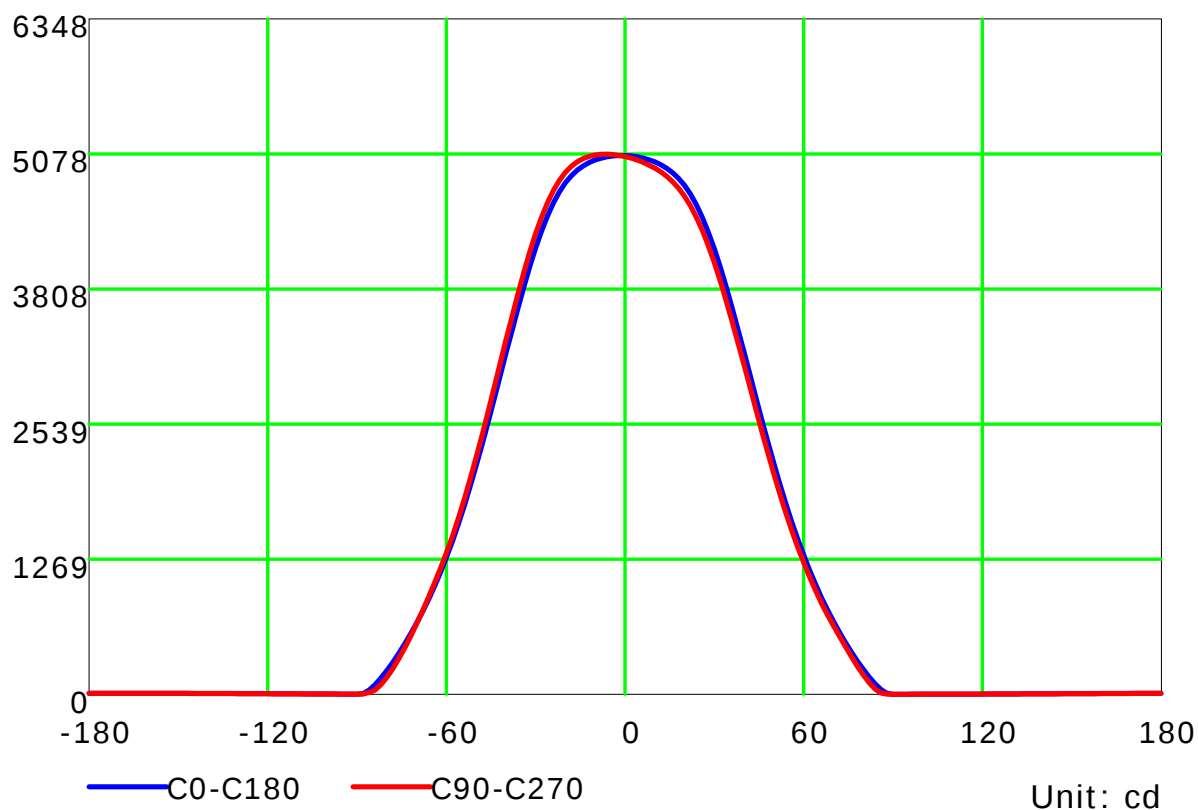
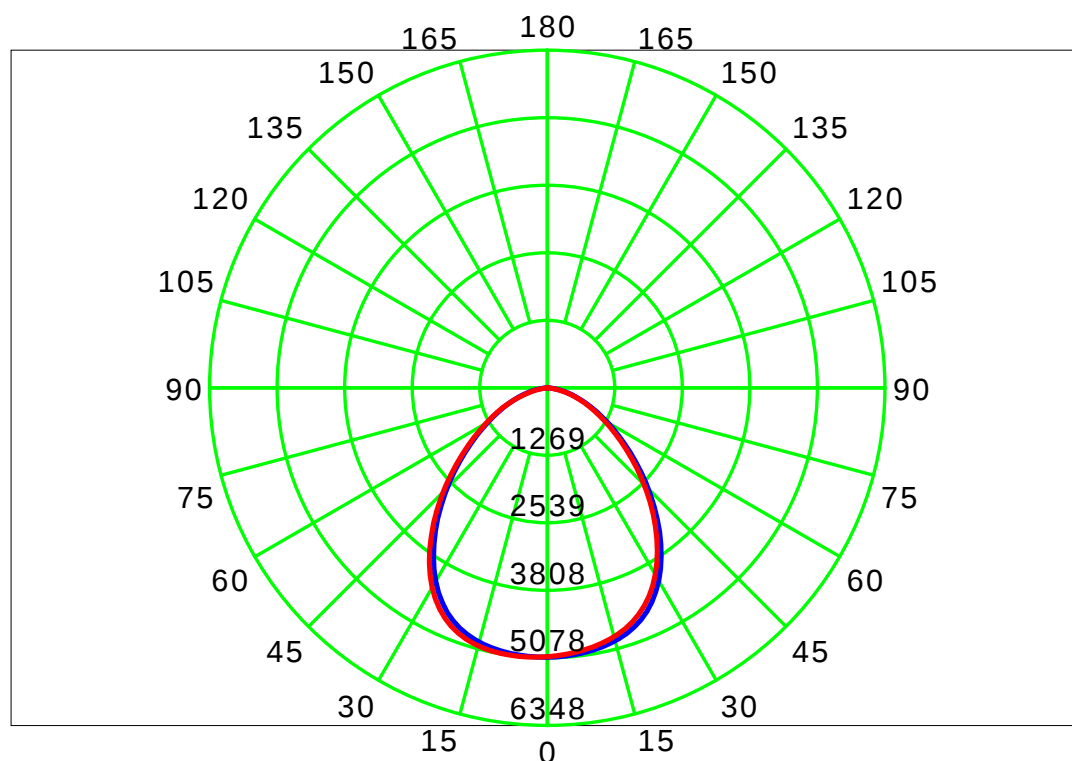
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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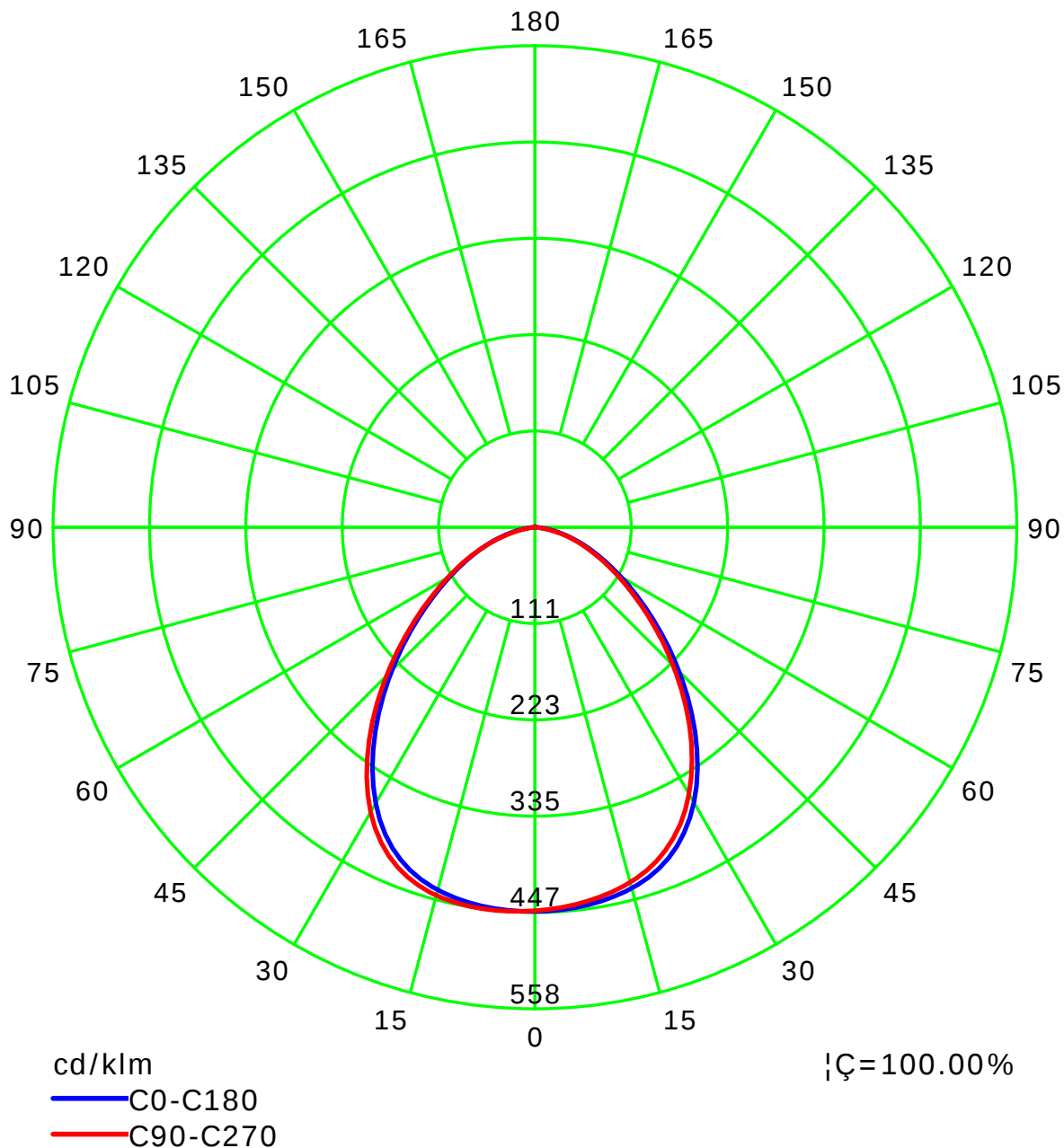
Test Device: LSG-1800B

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

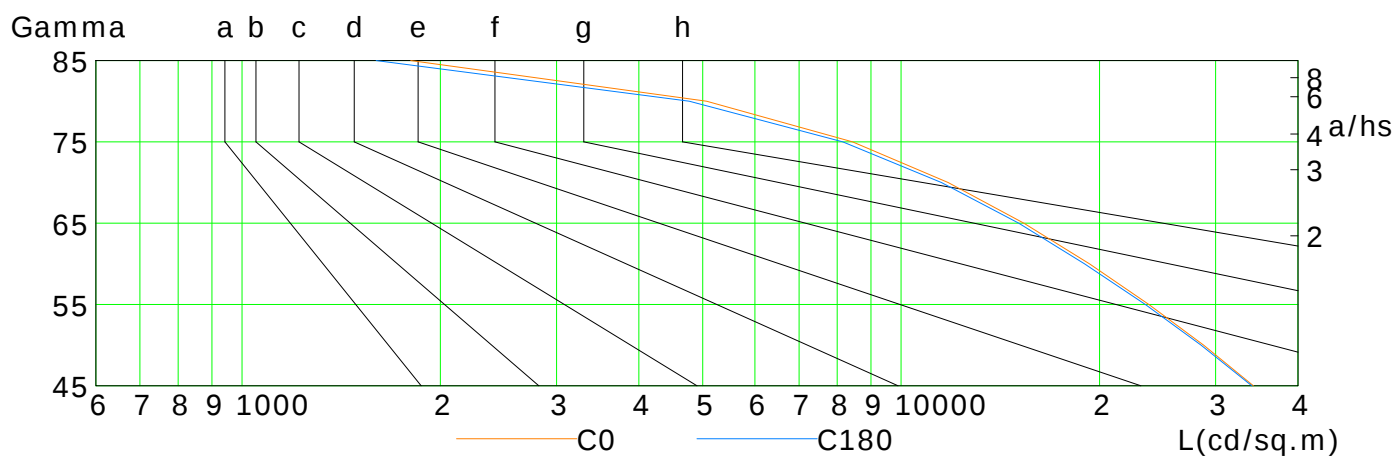
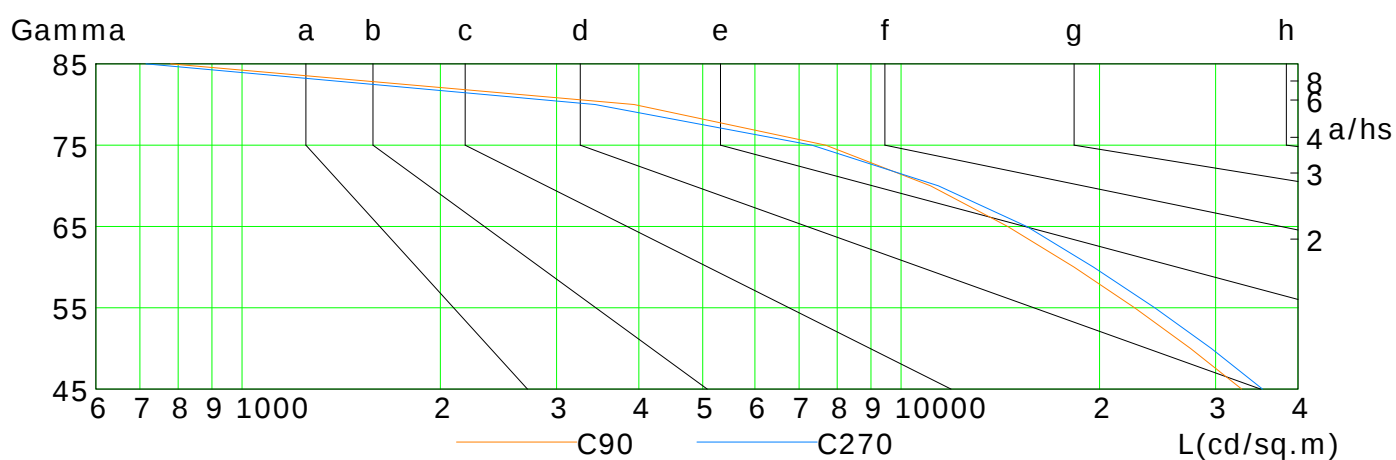
Humidity:

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	34239	28771	23761	19308	15354	11782	8440	5067	1803
C90	32854	27478	22602	18298	14506	11082	7681	3934	779
C180	34038	28504	23468	18974	15082	11511	8156	4769	1598
C270	35344	29542	24255	19578	15511	11391	7321	3432	715

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

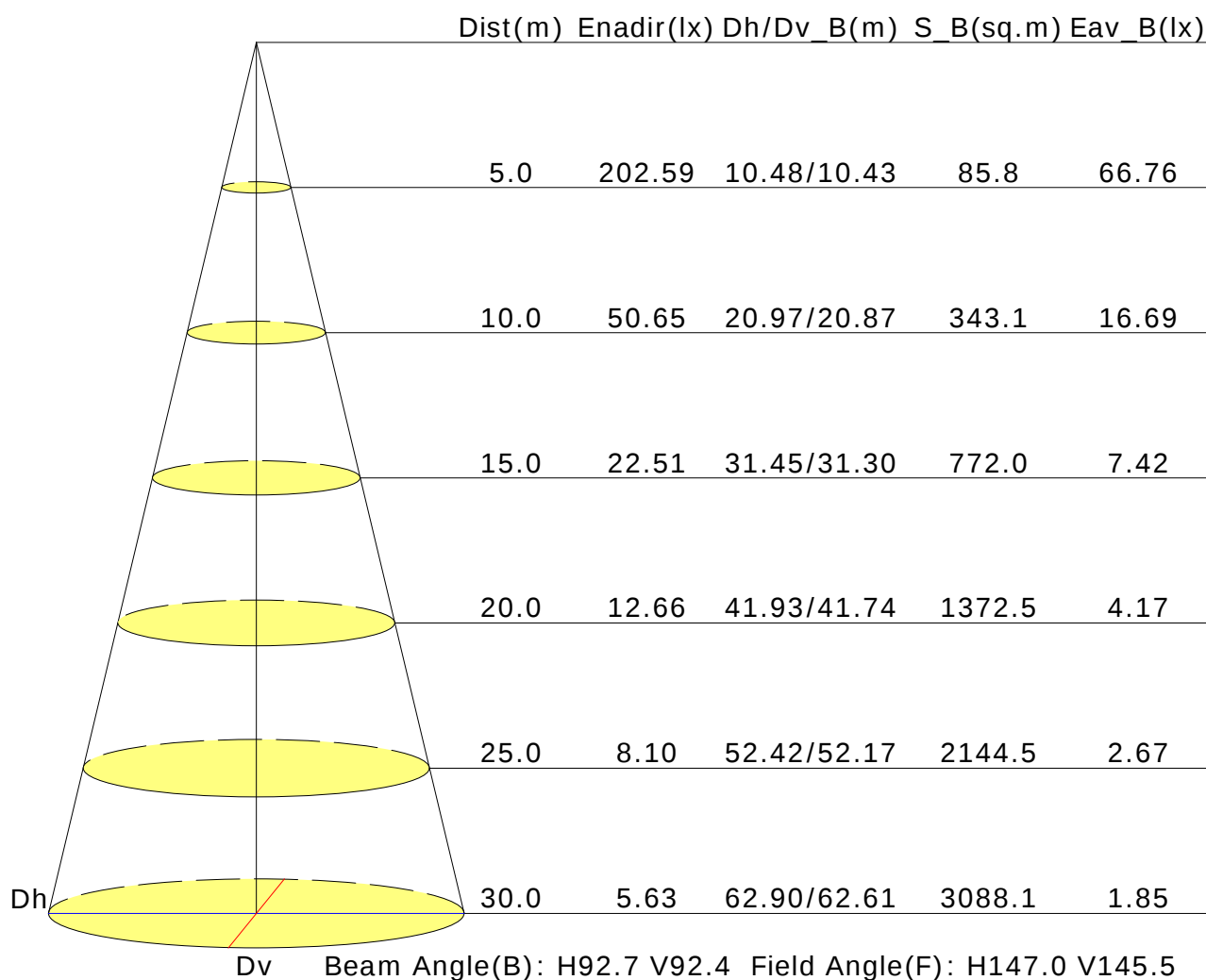
Test Device: LSG-1800B

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	22.9	24.2	23.2	24.4	24.7	22.9	24.2	23.2	24.4	24.7
3H	23.6	24.8	24.0	25.0	25.3	23.6	24.7	23.9	25.0	25.3
4H	23.9	24.9	24.2	25.2	25.5	23.8	24.9	24.1	25.1	25.4
6H	23.9	24.9	24.3	25.2	25.6	23.8	24.8	24.2	25.1	25.4
8H	23.9	24.9	24.3	25.2	25.6	23.8	24.8	24.2	25.1	25.4
12H	23.9	24.8	24.3	25.2	25.5	23.8	24.7	24.2	25.0	25.4
X=4H Y=2H	23.2	24.3	23.6	24.6	24.9	23.2	24.3	23.6	24.6	24.9
3H	24.1	25.0	24.4	25.3	25.7	24.0	25.0	24.4	25.3	25.6
4H	24.4	25.2	24.8	25.5	25.9	24.3	25.1	24.7	25.5	25.8
6H	24.5	25.2	24.9	25.6	26.0	24.4	25.1	24.8	25.5	25.9
8H	24.5	25.2	25.0	25.6	26.0	24.4	25.0	24.8	25.4	25.9
12H	24.5	25.1	25.0	25.5	26.0	24.3	24.9	24.8	25.4	25.8
X=8H Y=4H	24.4	25.1	24.9	25.5	25.9	24.4	25.0	24.8	25.4	25.8
6H	24.6	25.2	25.1	25.6	26.1	24.5	25.0	25.0	25.5	25.9
8H	24.7	25.1	25.1	25.6	26.1	24.5	25.0	25.0	25.4	25.9
12H	24.7	25.1	25.2	25.5	26.1	24.5	24.9	25.0	25.3	25.9
X=12H Y=4H	24.4	25.0	24.8	25.4	25.9	24.3	24.9	24.8	25.3	25.8
6H	24.6	25.1	25.1	25.5	26.0	24.5	24.9	25.0	25.4	25.9
8H	24.7	25.1	25.2	25.5	26.0	24.5	24.9	25.0	25.4	25.9
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.5					+0.3/-0.5				
S=1.5H	+0.7/-1.1					+0.8/-1.2				
S=2.0H	+1.6/-2.1					+1.7/-2.2				

Calculate in accordance with CIE Pub.117. The table is revised with 11361lm ($8\log(F/F_0) = 8.4$).

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	0.64	0.74	0.81	0.86	0.92	0.96	0.99	1.03	1.06	
	0.30		0.57	0.67	0.74	0.79	0.87	0.92	0.95	1.00	1.03	
	0.20		0.52	0.62	0.69	0.75	0.82	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.63	0.72	0.78	0.83	0.89	0.93	0.96	0.99	1.02	
	0.30		0.56	0.66	0.73	0.78	0.85	0.89	0.92	0.97	0.99	
	0.20		0.52	0.62	0.68	0.74	0.81	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.61	0.70	0.76	0.80	0.86	0.90	0.92	0.96	0.98	
	0.30		0.56	0.65	0.71	0.76	0.82	0.87	0.90	0.93	0.96	
	0.20		0.51	0.61	0.68	0.72	0.79	0.84	0.87	0.91	0.94	
0.00	0.00	0.00	0.49	0.59	0.65	0.70	0.76	0.80	0.83	0.87	0.89	
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	0.88	0.72	0.60	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.74	0.61	0.53	0.46	0.37	0.31	0.27	0.21	0.17	
	0.20		0.63	0.54	0.47	0.42	0.34	0.29	0.25	0.20	0.16	
0.50	0.50	0.20	0.85	0.69	0.58	0.50	0.39	0.36	0.27	0.21	0.17	
	0.30		0.72	0.60	0.51	0.45	0.36	0.30	0.26	0.20	0.16	
	0.20		0.62	0.53	0.46	0.40	0.33	0.28	0.24	0.19	0.16	
0.30	0.50	0.20	0.82	0.66	0.55	0.48	0.37	0.31	0.26	0.20	0.16	
	0.30		0.70	0.58	0.49	0.43	0.34	0.29	0.24	0.19	0.15	
	0.20		0.62	0.52	0.45	0.39	0.32	0.27	0.23	0.18	0.15	
0.00	0.00	0.00	0.51	0.41	0.35	0.30	0.24	0.20	0.17	0.13	0.11	
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	0.18	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	0.20	
	0.20		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	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	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.17	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	0.10	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												