

Report No.:

Test Time: 08.06.2020 22:58

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 100W 4000K 60гр. диод 3Т матовое стекло

Number of Lamps: 1

Lumens per Lamp: 11901.8 lm

Luminous Length (mm): 277 mm

Luminous Width (mm): 277 mm

Luminous Height (mm): 123 mm

Voltage: 221.3 V

Current: 0.448 A

Power: 98.00 W

Power Factor: 0.989

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 11901.8 lm

Measurement Flux: 11901.8 lm

Efficiency: 100.00%

Downward Ratio: 99.35%

Upward Ratio: 0.65%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 127.8, 127.6, 127.7, 127.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 66.6, 66.9, 66.5, 66.4

Luminaire Efficacy Rating (LER): 121.50

Central Intensity: 8075.31 cd

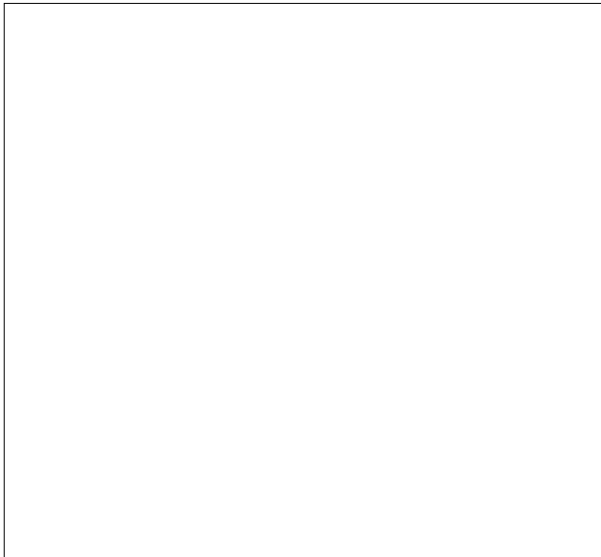
Max. Intensity: 8075.32 cd

Pos of Max. Intensity: H0 V0

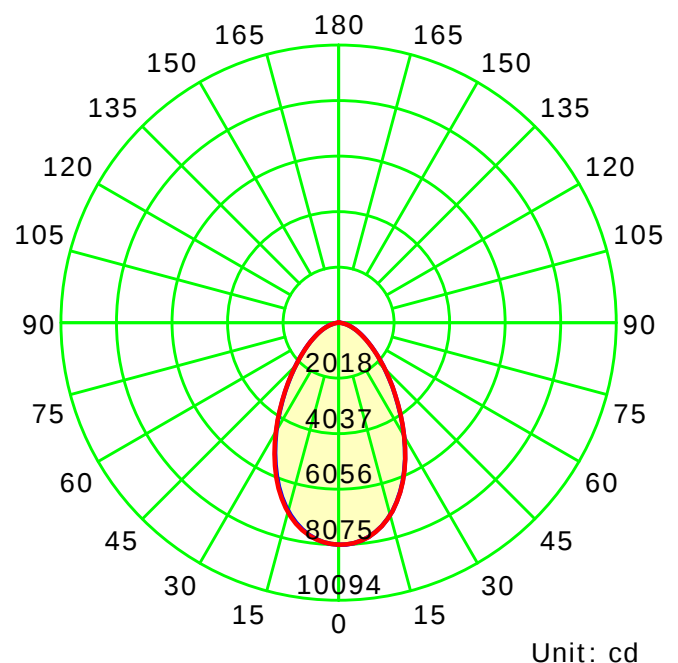
S/MH(C0/C180): 0.95

S/MH(C90/C270): 0.96

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

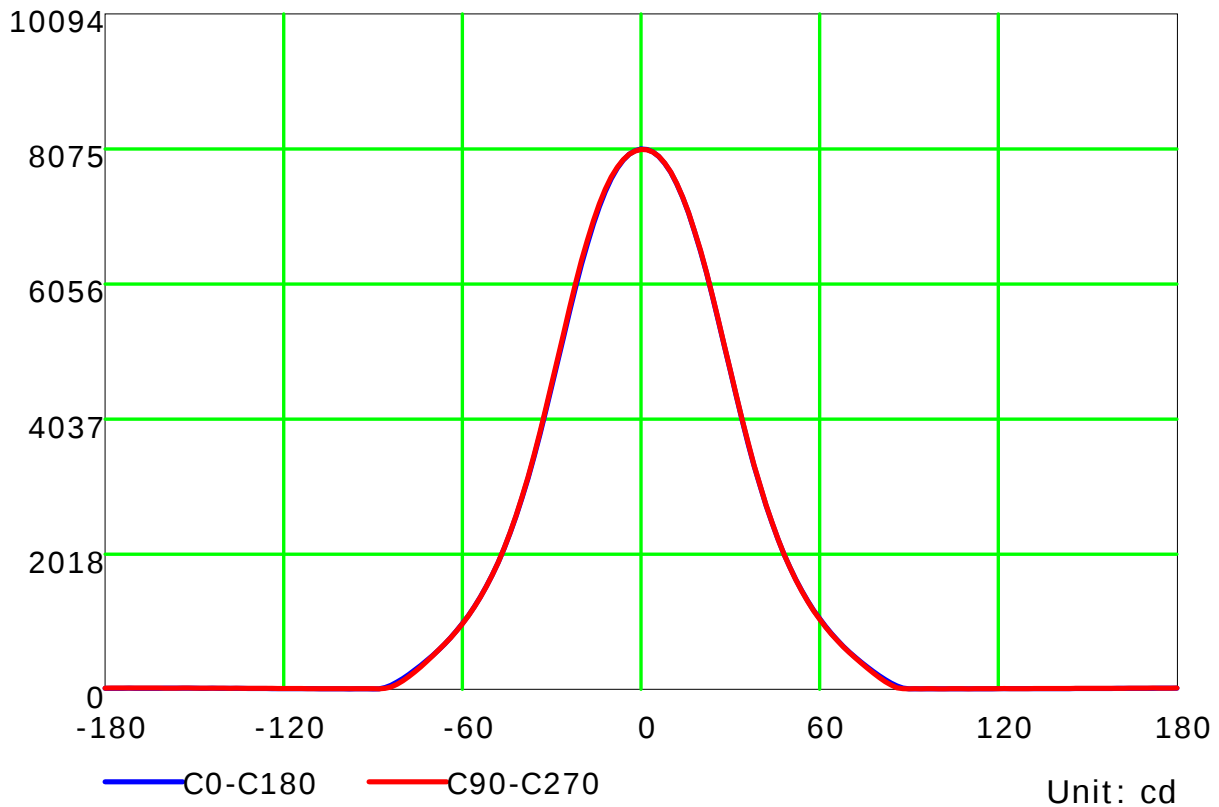
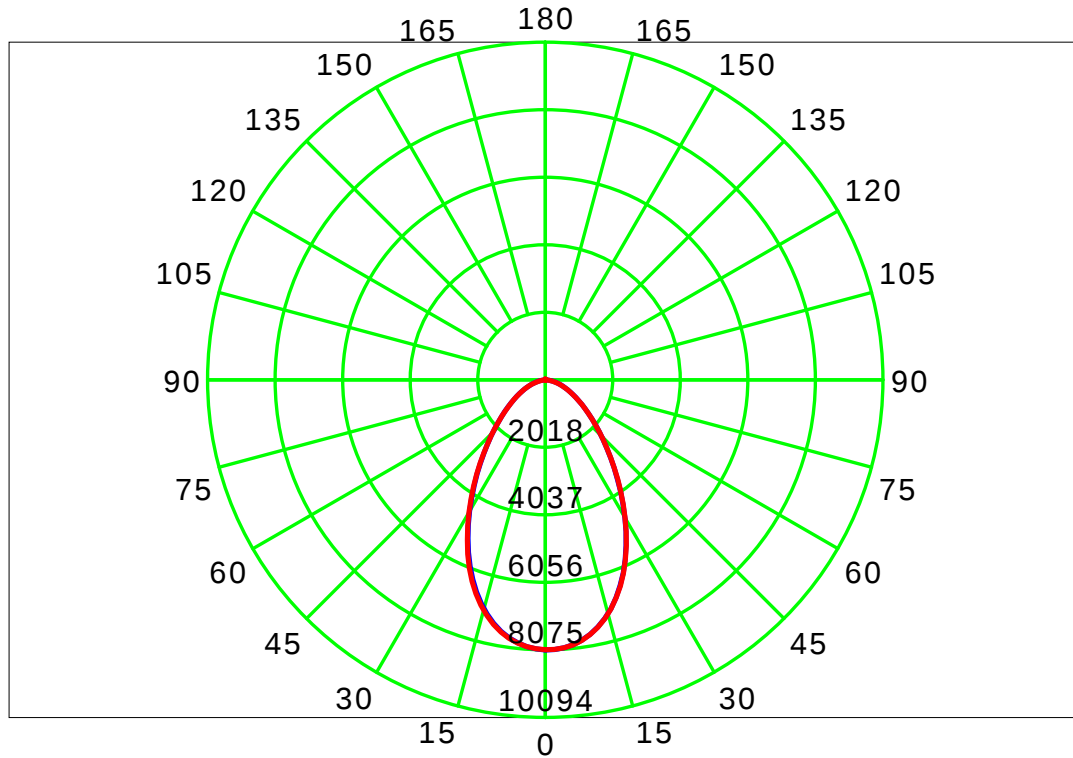
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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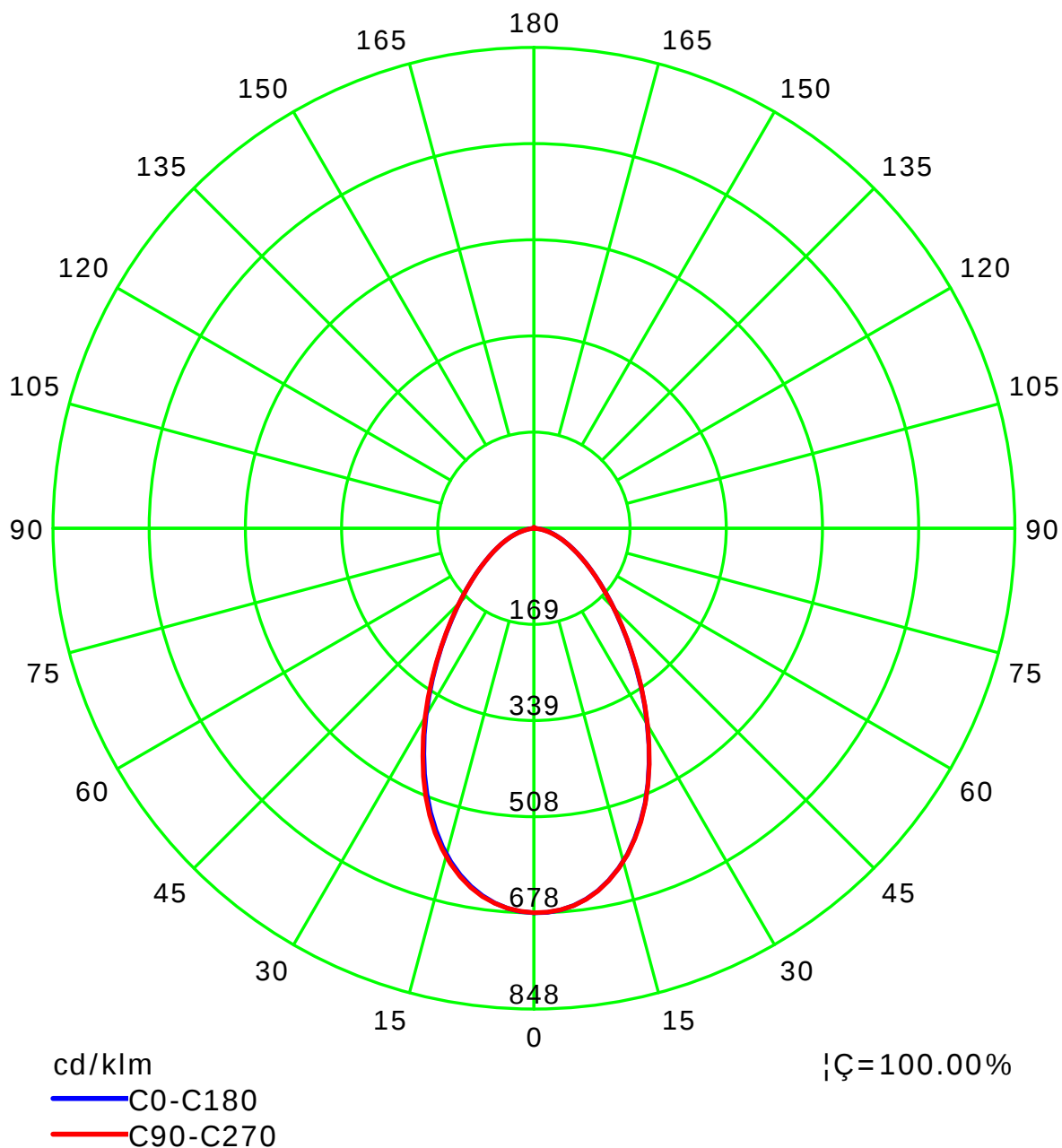
Test Device: LSG-1800B

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

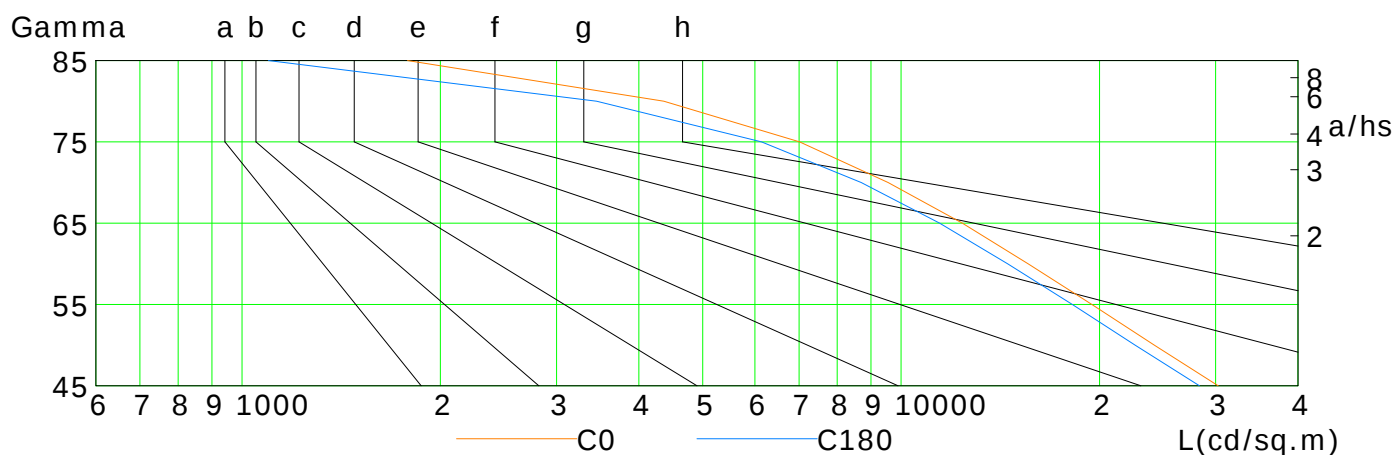
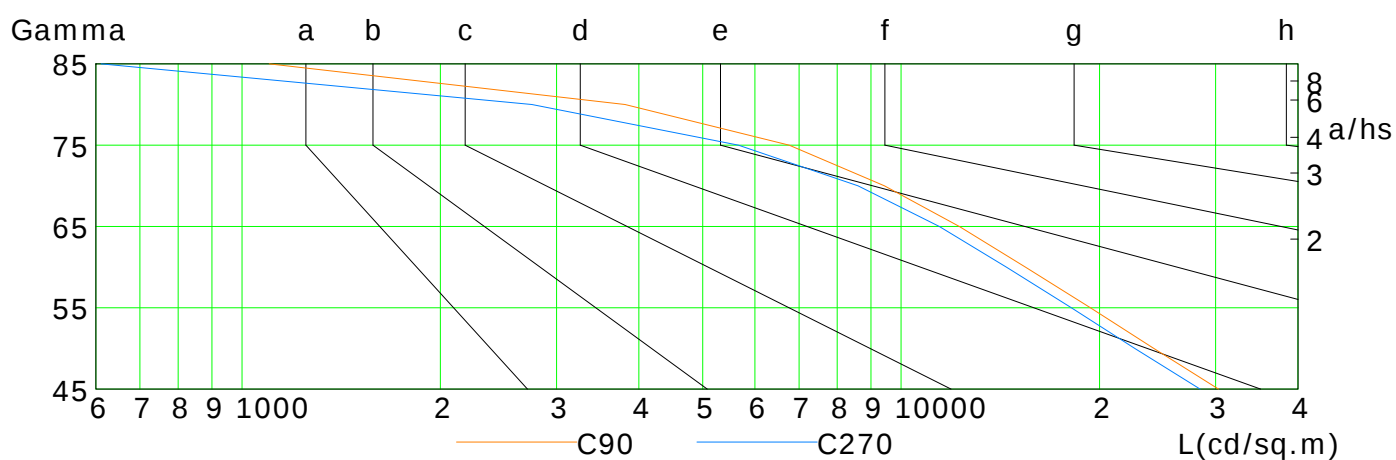
Humidity:

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	30267	24212	19474	15581	12386	9557	7014	4364	1783
C90	30308	24179	19368	15438	12257	9433	6762	3813	1100
C180	28354	22644	18183	14510	11439	8700	6138	3452	1096
C270	28421	22615	18129	14444	11426	8600	5665	2753	612

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

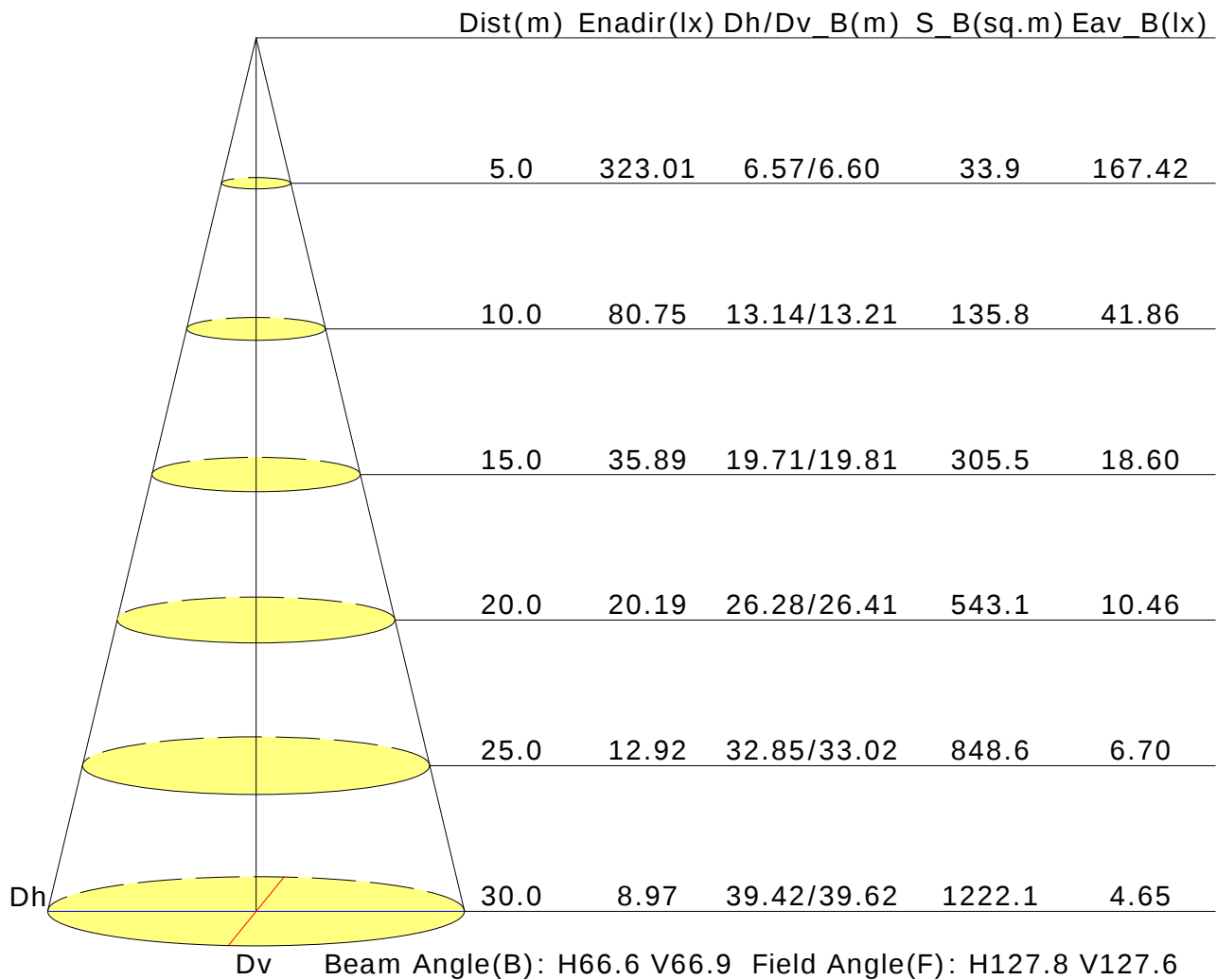
Test Device: LSG-1800B

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	21.8	22.9	22.1	23.2	23.4	21.6	22.8	21.9	23.0	23.2
3H	22.4	23.5	22.7	23.7	24.0	22.2	23.3	22.5	23.5	23.8
4H	22.6	23.6	23.0	23.9	24.2	22.4	23.4	22.7	23.7	24.0
6H	22.7	23.6	23.1	23.9	24.2	22.4	23.3	22.8	23.7	24.0
8H	22.7	23.6	23.1	23.9	24.2	22.4	23.3	22.8	23.6	24.0
12H	22.7	23.5	23.1	23.9	24.2	22.4	23.2	22.8	23.6	23.9
X=4H Y=2H	22.0	23.0	22.4	23.3	23.6	21.9	22.8	22.2	23.1	23.4
3H	22.8	23.6	23.2	24.0	24.3	22.6	23.4	23.0	23.8	24.1
4H	23.1	23.8	23.5	24.2	24.6	22.9	23.6	23.3	24.0	24.3
6H	23.2	23.9	23.7	24.3	24.7	23.0	23.6	23.4	24.0	24.4
8H	23.3	23.9	23.7	24.3	24.7	23.0	23.6	23.4	24.0	24.4
12H	23.2	23.8	23.7	24.2	24.7	22.9	23.5	23.4	23.9	24.4
X=8H Y=4H	23.1	23.7	23.6	24.1	24.6	22.9	23.5	23.4	23.9	24.4
6H	23.3	23.8	23.8	24.3	24.7	23.1	23.5	23.5	24.0	24.5
8H	23.4	23.8	23.9	24.3	24.8	23.1	23.5	23.6	24.0	24.5
12H	23.4	23.7	23.9	24.2	24.7	23.1	23.4	23.6	23.9	24.4
X=12H Y=4H	23.1	23.6	23.5	24.1	24.5	22.9	23.4	23.4	23.9	24.3
6H	23.3	23.7	23.8	24.2	24.7	23.1	23.5	23.5	23.9	24.4
8H	23.4	23.7	23.9	24.2	24.7	23.1	23.4	23.6	23.9	24.4
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.7					+0.5/-0.7				
S=1.5H	+1.1/-1.4					+1.1/-1.5				
S=2.0H	+2.1/-2.2					+2.1/-2.2				

Calculate in accordance with CIE Pub.117. The table is revised with 11902lm ($8\log(F/F_0) = 8.6$).

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 = 1.00									
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	0.68	0.77	0.84	0.88	0.94	0.98	1.01	1.04	1.07	
	0.30		0.62	0.71	0.78	0.82	0.89	0.94	0.97	1.01	1.04	
	0.20		0.57	0.66	0.73	0.78	0.85	0.90	0.94	0.98	1.02	
0.50	0.50	0.20	0.67	0.75	0.81	0.85	0.91	0.95	0.97	1.00	1.02	
	0.30		0.61	0.70	0.76	0.81	0.87	0.91	0.94	0.98	1.00	
	0.20		0.57	0.66	0.72	0.77	0.83	0.88	0.91	0.95	0.98	
0.30	0.50	0.20	0.65	0.74	0.79	0.83	0.88	0.91	0.94	0.97	0.99	
	0.30		0.60	0.69	0.75	0.79	0.85	0.88	0.91	0.95	0.97	
	0.20		0.56	0.65	0.71	0.76	0.82	0.86	0.89	0.93	0.95	
0.00	0.00	0.00	0.54	0.63	0.69	0.73	0.78	0.82	0.85	0.88	0.90	
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 = 1.00									
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	0.82	0.67	0.56	0.49	0.38	0.32	0.27	0.21	0.17	
	0.30		0.69	0.57	0.49	0.43	0.35	0.29	0.25	0.19	0.16	
	0.20		0.59	0.50	0.43	0.39	0.32	0.27	0.23	0.18	0.15	
0.50	0.50	0.20	0.79	0.64	0.54	0.46	0.36	0.33	0.25	0.19	0.16	
	0.30		0.67	0.55	0.47	0.41	0.33	0.28	0.24	0.18	0.15	
	0.20		0.58	0.49	0.42	0.37	0.31	0.26	0.22	0.17	0.14	
0.30	0.50	0.20	0.76	0.61	0.51	0.44	0.34	0.28	0.24	0.18	0.15	
	0.30		0.65	0.54	0.46	0.40	0.32	0.26	0.22	0.17	0.14	
	0.20		0.57	0.48	0.41	0.36	0.29	0.25	0.21	0.17	0.14	
0.00	0.00	0.00	0.45	0.37	0.31	0.27	0.21	0.18	0.15	0.11	0.09	
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 = 1.00									
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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.21	0.21	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.14	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	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
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:98W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												