

Report No.:

Test Time: 08.06.2020 22:58

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 100W 3000K 60гр. диод 3Т матовое стекло

Number of Lamps: 1

Lumens per Lamp: 11491.0 lm

Luminous Length (mm): 277 mm

Luminous Width (mm): 277 mm

Luminous Height (mm): 123 mm

Voltage: 221.2 V

Current: 0.448 A

Power: 98.00 W

Power Factor: 0.988

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 11491.0 lm

Measurement Flux: 11491 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): 117.31

Central Intensity: 7796.59 cd

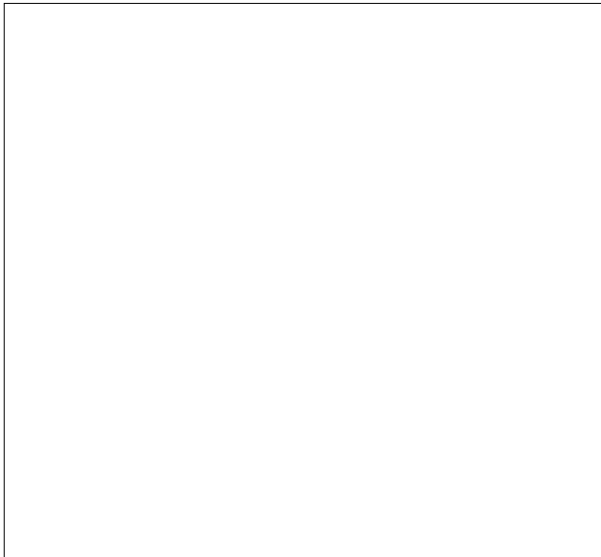
Max. Intensity: 7796.59 cd

Pos of Max. Intensity: H0 V0

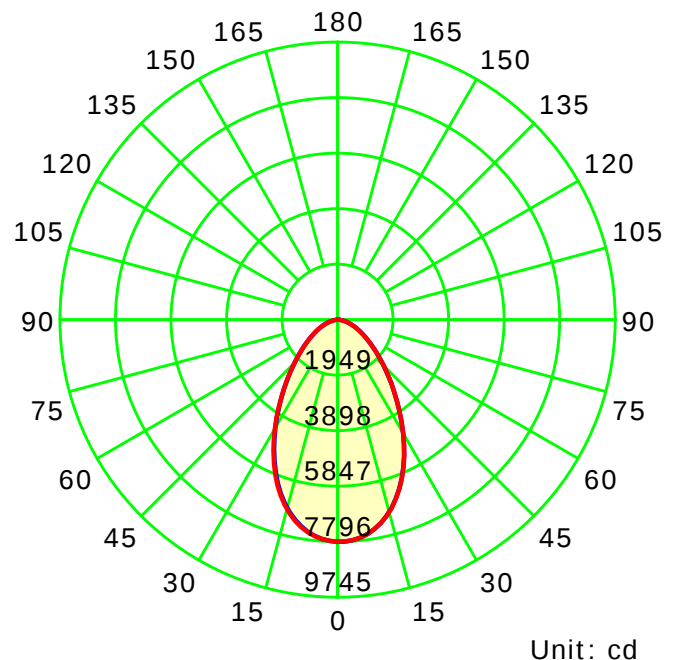
S/MH(C0/C180): 0.95

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

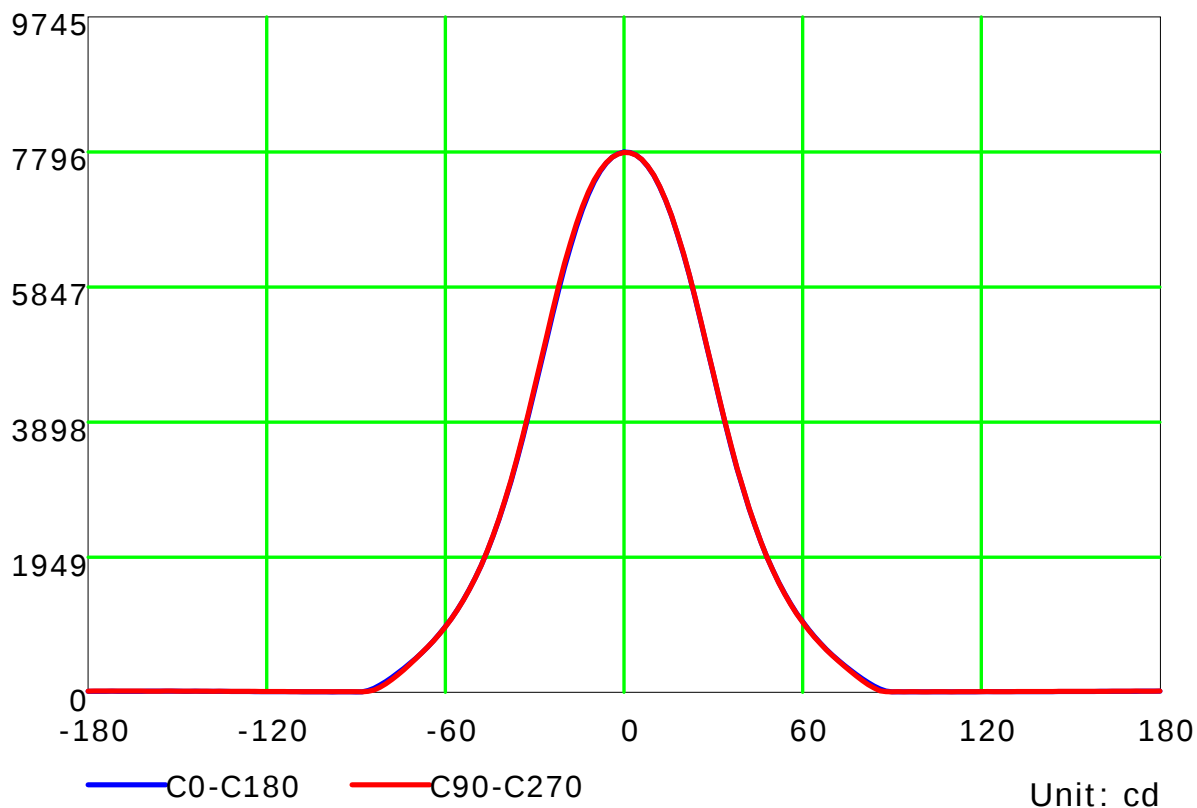
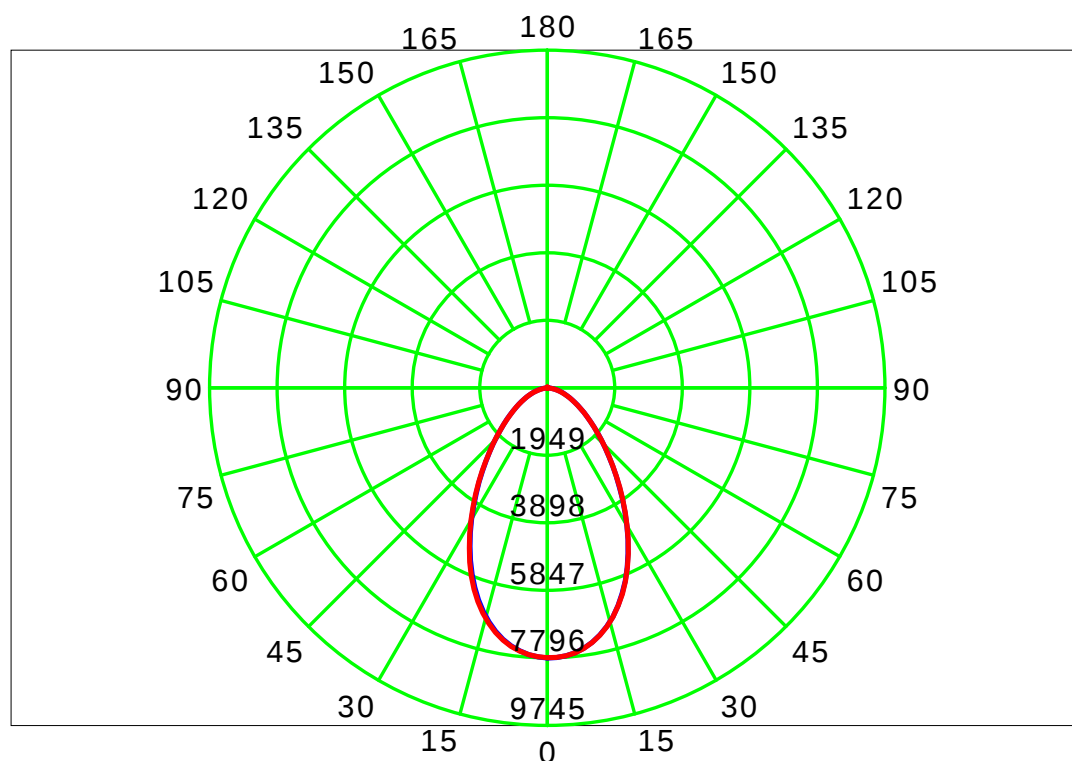
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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Temperature:

Operator:

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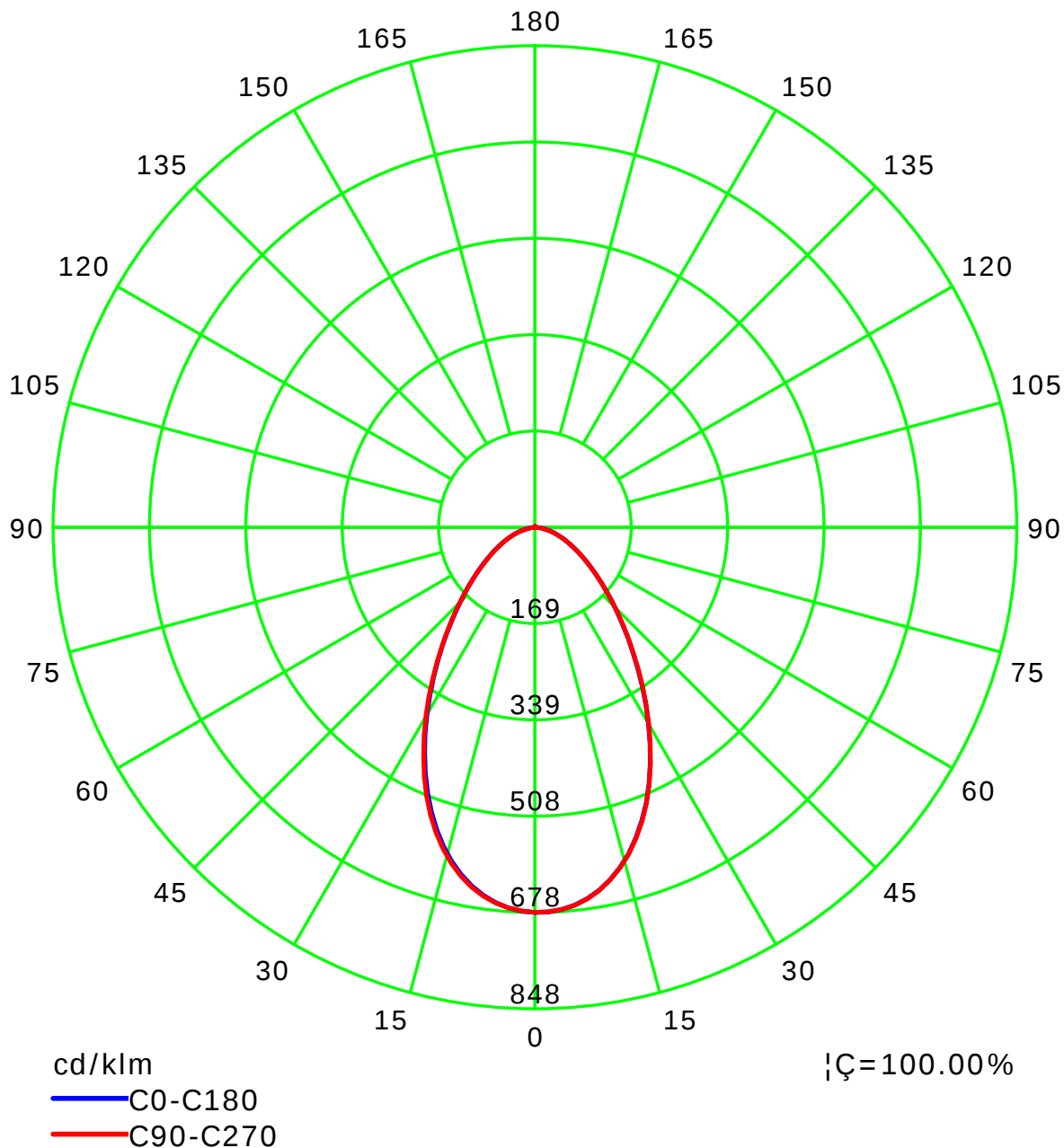
Test Device: LSG-1800B

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:

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Test Device: LSG-1800B

Distance: 12.677 m

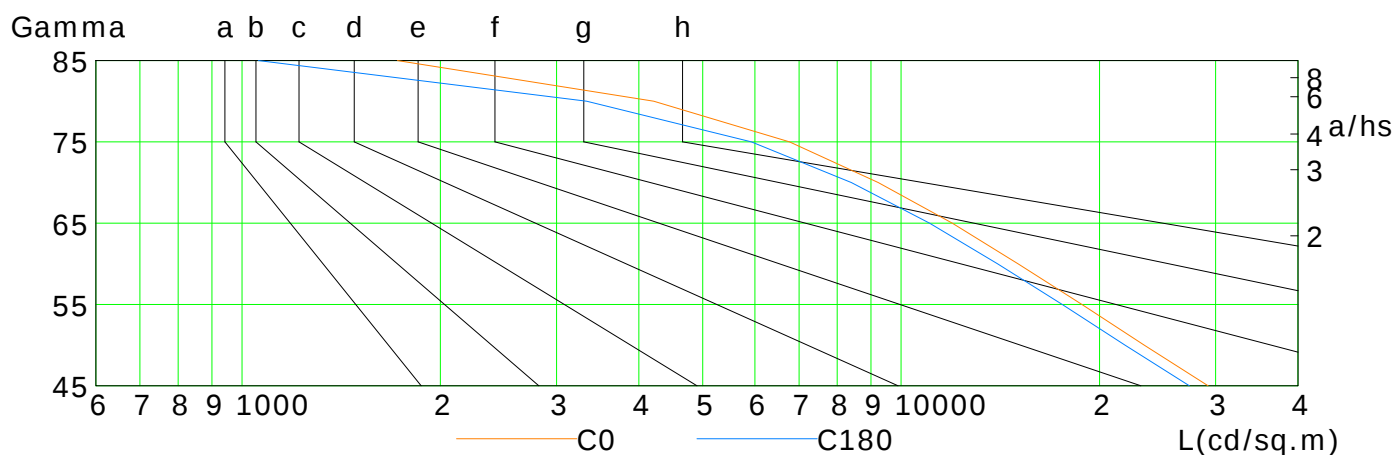
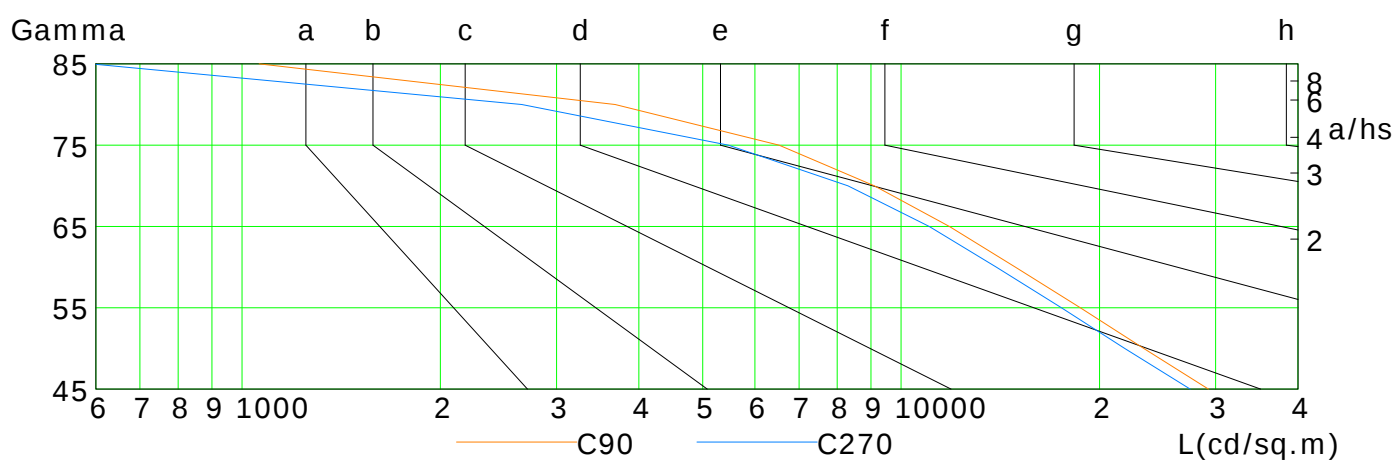
Humidity:

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	29222	23376	18802	15043	11958	9227	6772	4213	1721
C90	29262	23344	18699	14905	11834	9108	6528	3681	1062
C180	27375	21862	17556	14009	11044	8399	5926	3333	1059
C270	27440	21834	17503	13946	11031	8303	5469	2658	590

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

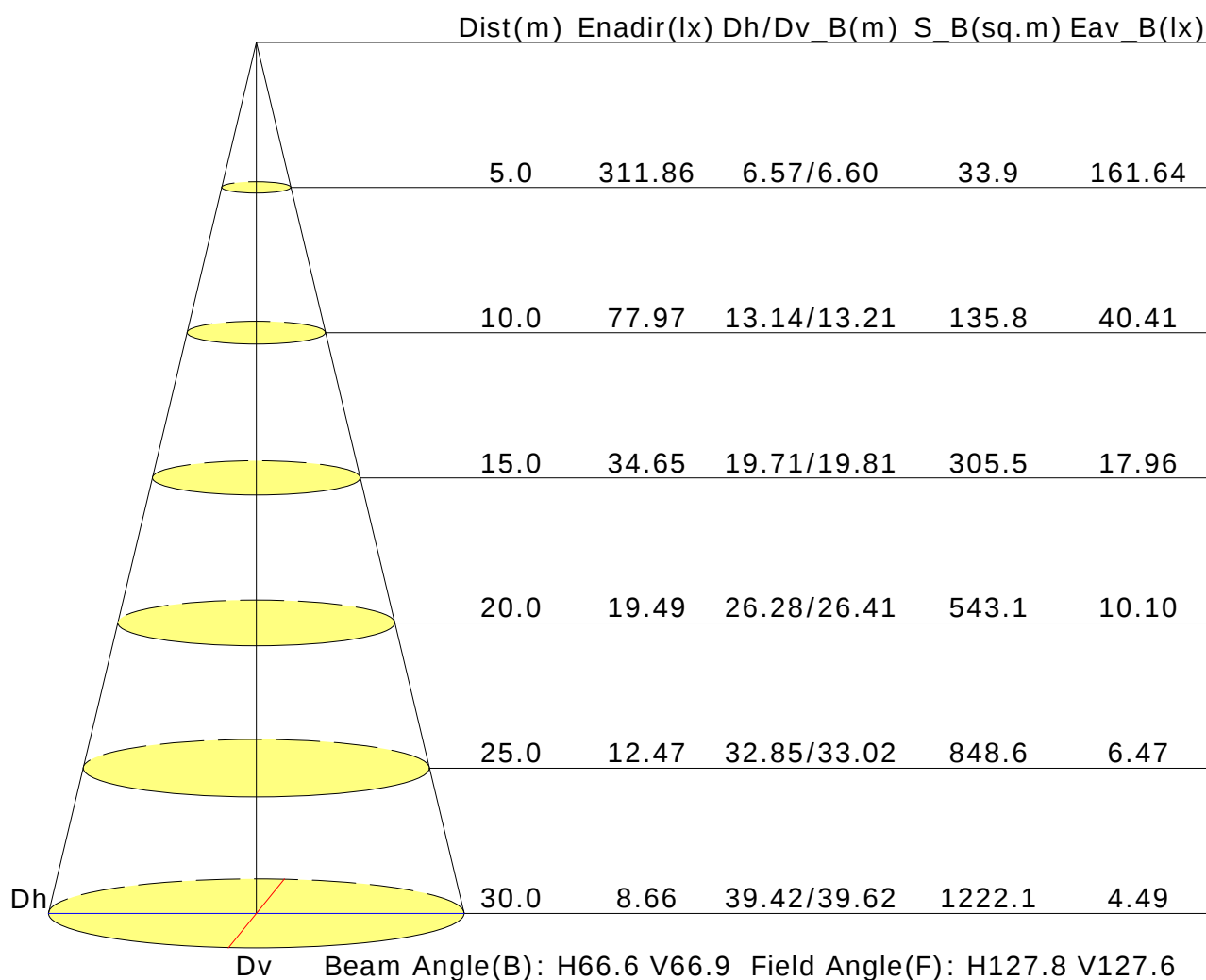
Test Device: LSG-1800B

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	21.7	22.8	22.0	23.0	23.3	21.5	22.6	21.8	22.9	23.1
3H	22.3	23.3	22.6	23.6	23.9	22.1	23.1	22.4	23.4	23.7
4H	22.5	23.5	22.8	23.8	24.1	22.3	23.2	22.6	23.5	23.8
6H	22.6	23.5	22.9	23.8	24.1	22.3	23.2	22.7	23.5	23.9
8H	22.6	23.5	23.0	23.8	24.1	22.3	23.2	22.7	23.5	23.8
12H	22.6	23.4	23.0	23.7	24.1	22.3	23.1	22.7	23.4	23.8
X=4H Y=2H	21.9	22.9	22.2	23.2	23.5	21.7	22.7	22.1	23.0	23.3
3H	22.7	23.5	23.0	23.8	24.2	22.5	23.3	22.9	23.7	24.0
4H	22.9	23.7	23.4	24.1	24.4	22.7	23.5	23.1	23.8	24.2
6H	23.1	23.8	23.5	24.1	24.6	22.8	23.5	23.3	23.9	24.3
8H	23.1	23.7	23.6	24.1	24.6	22.8	23.4	23.3	23.8	24.3
12H	23.1	23.7	23.6	24.1	24.5	22.8	23.4	23.3	23.8	24.2
X=8H Y=4H	23.0	23.6	23.4	24.0	24.4	22.8	23.4	23.2	23.8	24.2
6H	23.2	23.7	23.7	24.1	24.6	22.9	23.4	23.4	23.9	24.3
8H	23.3	23.7	23.7	24.1	24.6	23.0	23.4	23.4	23.8	24.3
12H	23.3	23.6	23.8	24.1	24.6	22.9	23.3	23.4	23.8	24.3
X=12H Y=4H	23.0	23.5	23.4	23.9	24.4	22.8	23.3	23.2	23.7	24.2
6H	23.2	23.6	23.7	24.1	24.6	22.9	23.4	23.4	23.8	24.3
8H	23.2	23.6	23.7	24.1	24.6	23.0	23.3	23.5	23.8	24.3
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 11491lm ($8\log(F/F_0) = 8.5$).

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												