

Report No.:

Test Time: 05.10.2020 15:43

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 80LED 0.78A 100W 4000K opal

Luminous Length (mm): 1545

Luminous Width (mm): 55

Luminous Height (mm): 90

Voltage: 221.5 V

Current: 0.469 A

Power: 101.81 W

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Measurement Flux: 10009 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 10009.0 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.9, 163.9, 162.3, 162.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.5, 115.1, 114.7, 114.8

Luminaire Efficacy Rating (LER): 98.36

Central Intensity: 3380.42 cd

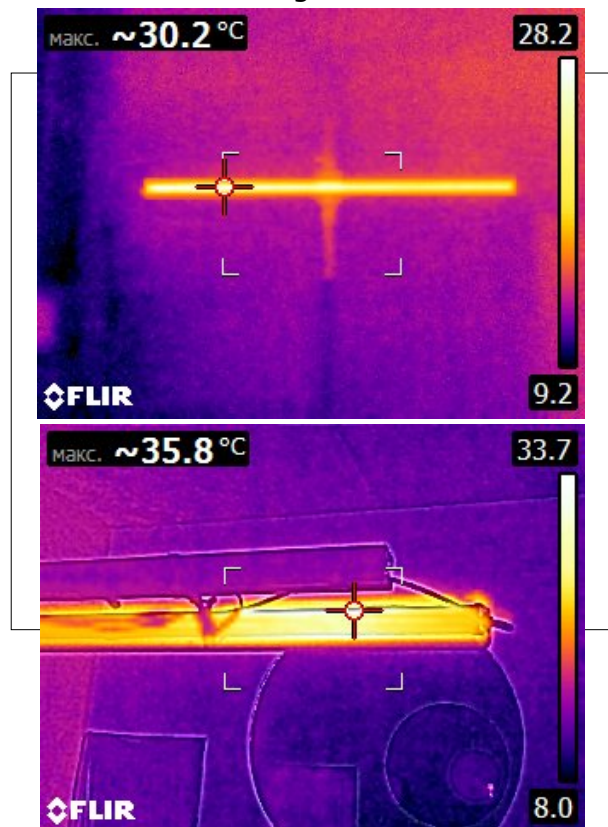
Max. Intensity: 3383.83 cd

Pos of Max. Intensity: H157.5 V0

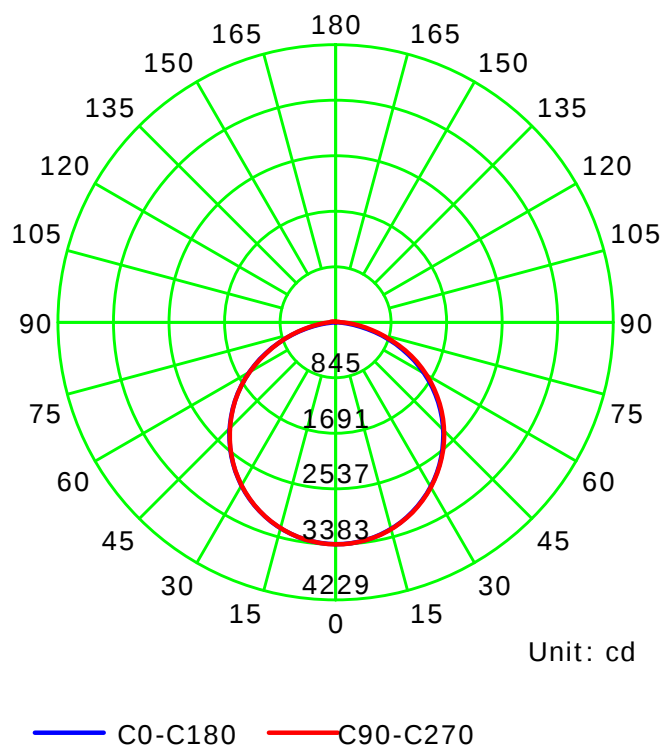
S/MH(C0/C180): 1.27

S/MH(C90/C270): 1.27

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

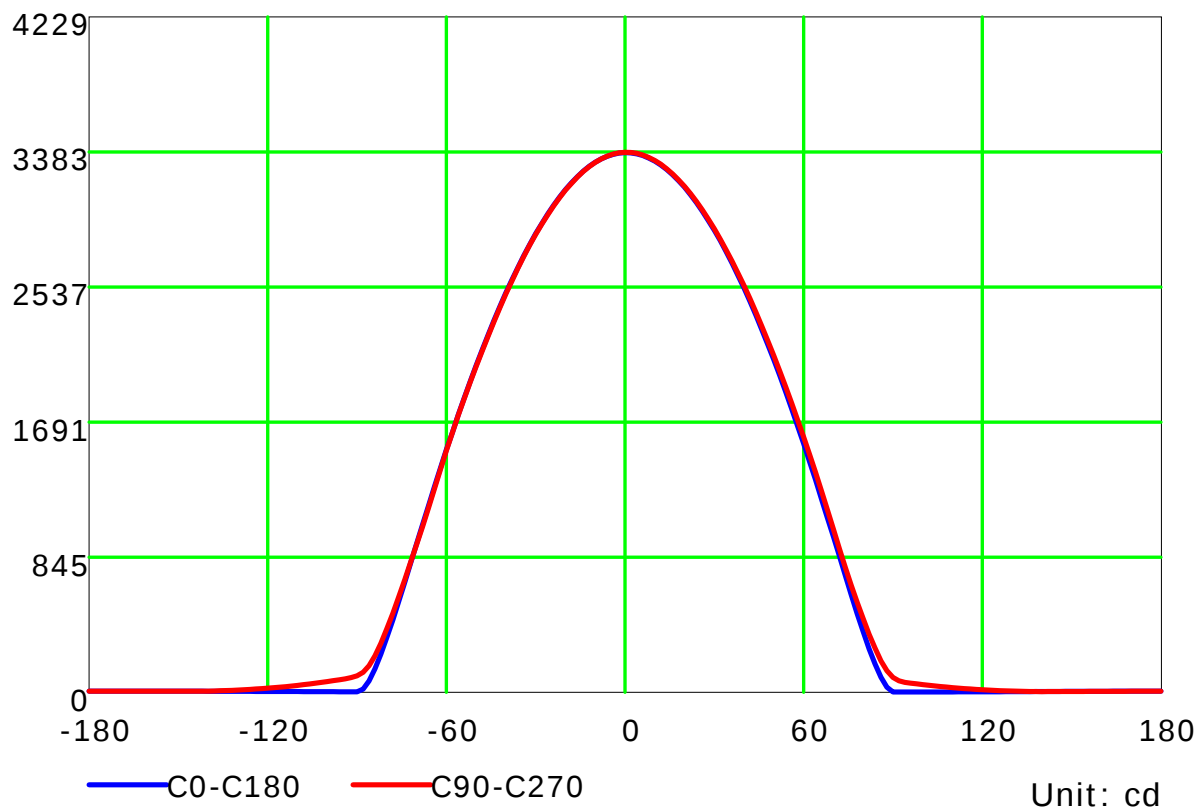
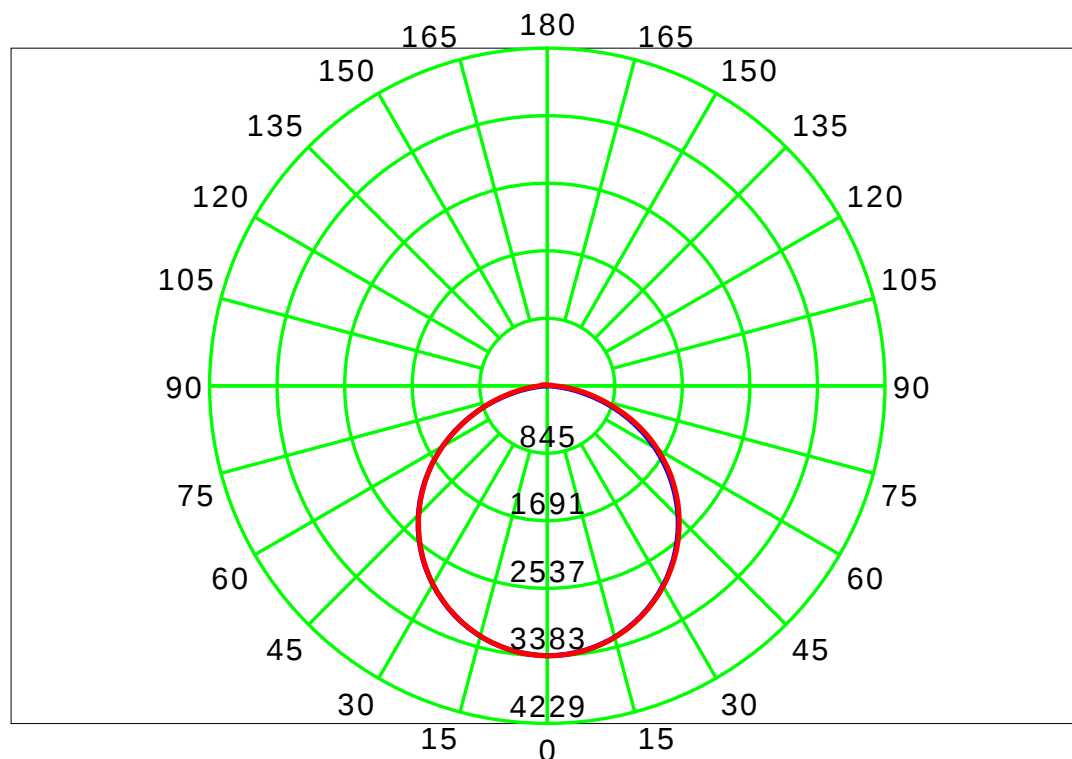
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

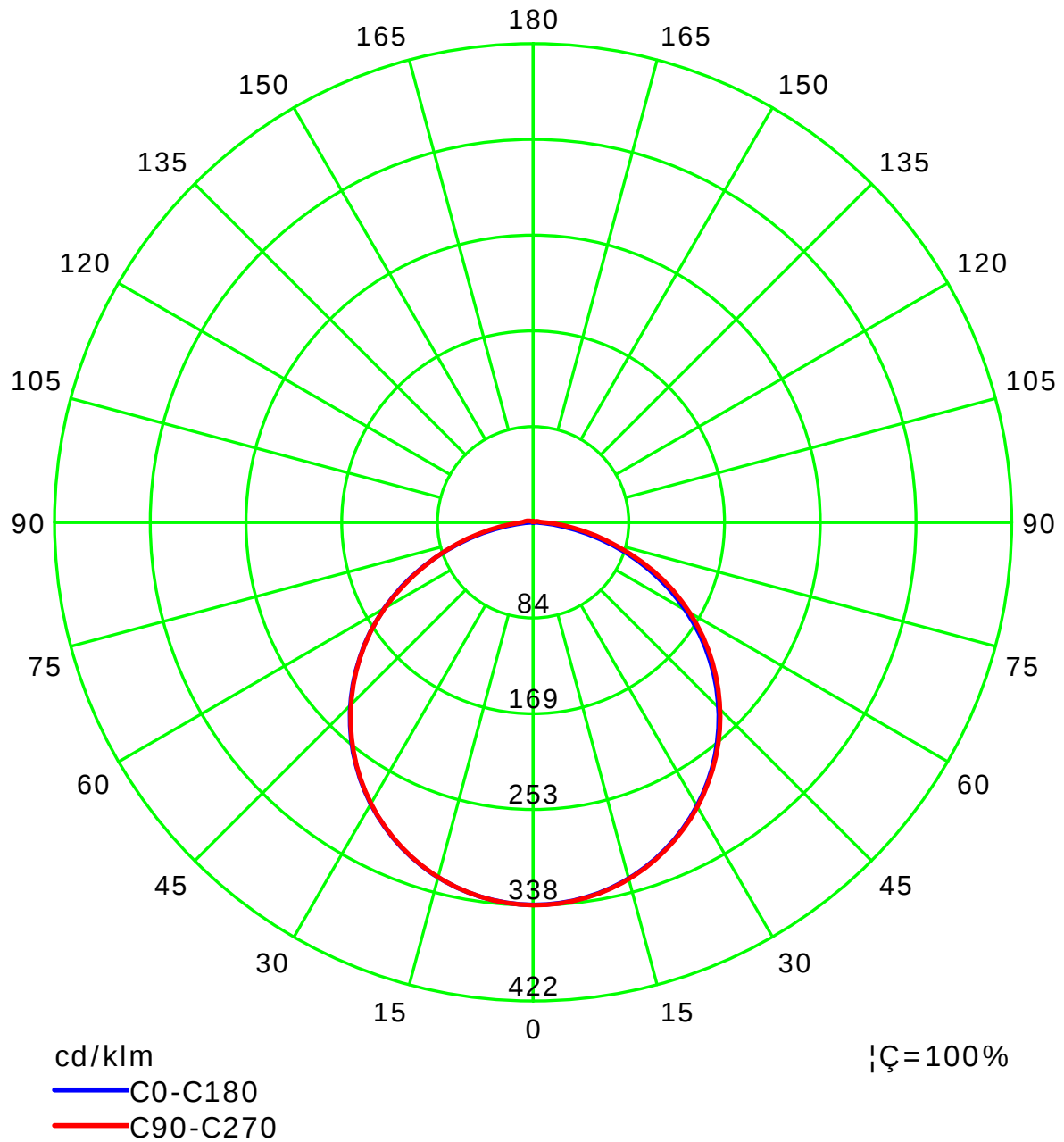
Luminous Intensity Distribution Curve



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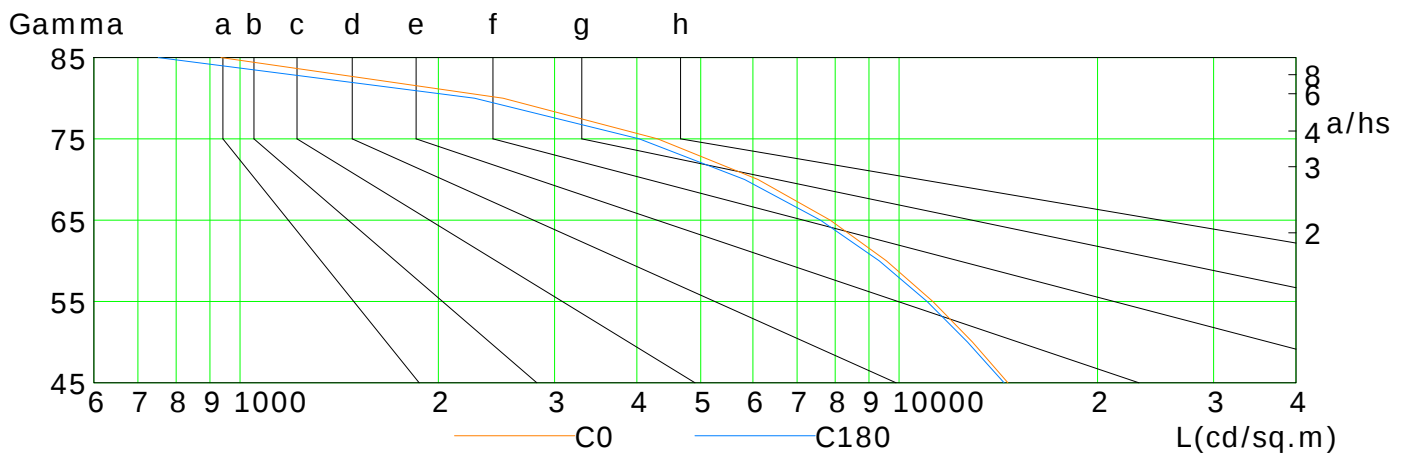
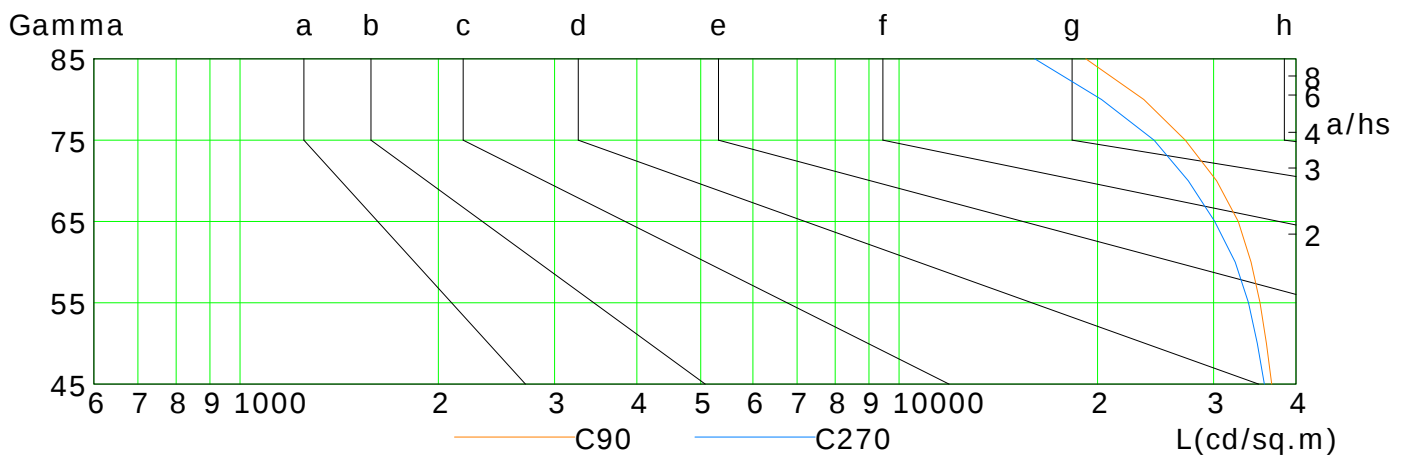
Luminous Intensity Distribution Curve(cd / klm)



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	14624	12920	11246	9564	7859	6108	4303	2507	936
C90	36741	36083	35273	34193	32689	30321	27165	23502	19200
C180	14425	12704	11023	9330	7597	5828	4033	2269	751
C270	35820	34941	33892	32360	30116	27468	24367	20279	16062

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Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

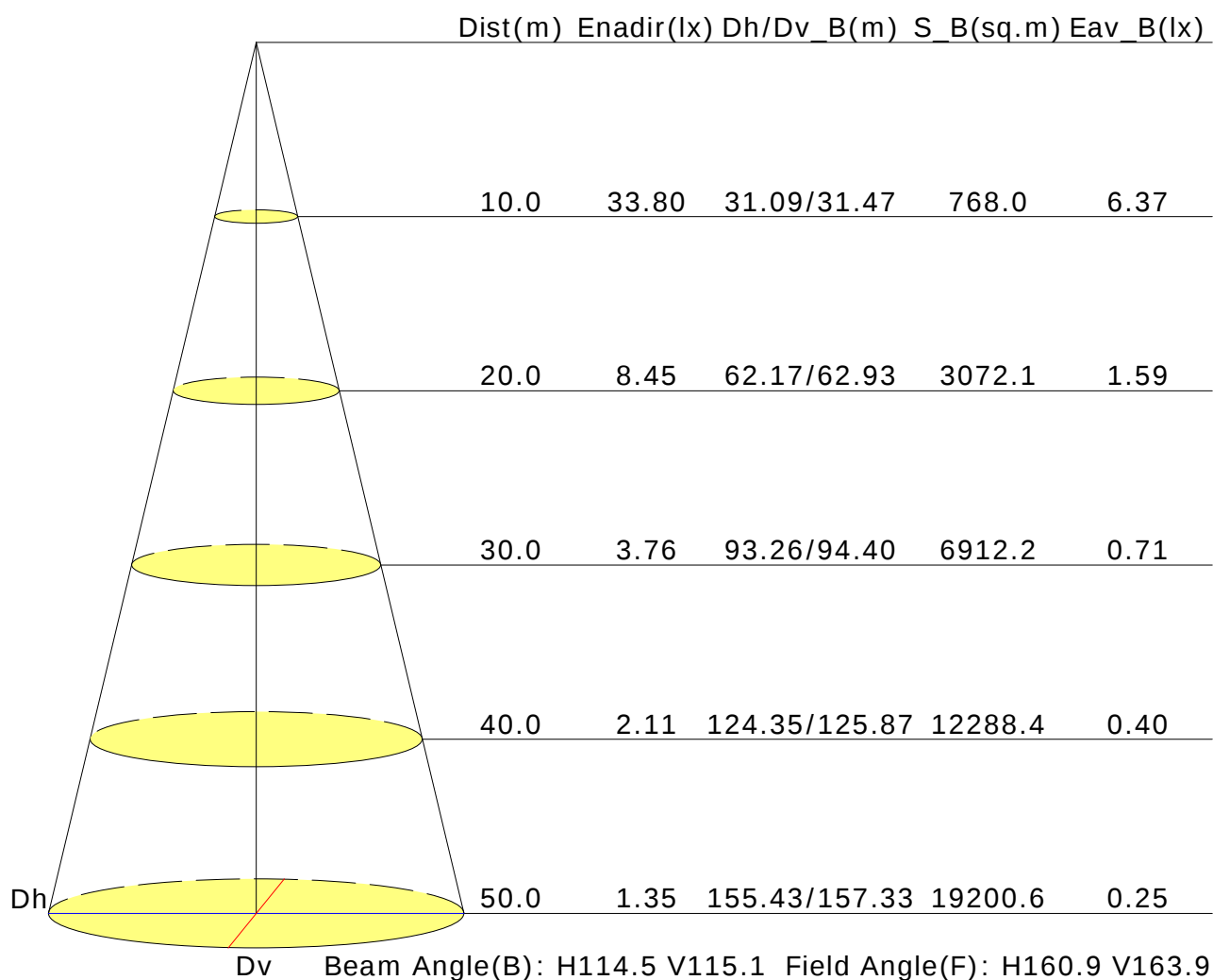
Test Device: LSG-1800B

Distance: 12.682 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	21.2	22.6	21.5	22.8	23.1	23.3	24.7	23.6	24.9	25.2
3H	22.2	23.5	22.6	23.8	24.1	24.8	26.1	25.2	26.4	26.7
4H	22.5	23.7	22.9	24.0	24.4	25.4	26.6	25.8	26.9	27.2
6H	22.7	23.8	23.1	24.1	24.5	25.8	27.0	26.2	27.3	27.6
8H	22.7	23.8	23.1	24.1	24.5	26.0	27.1	26.4	27.4	27.8
12H	22.7	23.7	23.1	24.1	24.4	26.1	27.1	26.5	27.5	27.8
X=4H Y=2H	21.8	23.0	22.2	23.3	23.7	23.6	24.8	23.9	25.1	25.4
3H	23.0	24.0	23.4	24.4	24.8	25.2	26.2	25.6	26.6	27.0
4H	23.4	24.3	23.8	24.7	25.1	25.9	26.8	26.3	27.2	27.6
6H	23.6	24.5	24.1	24.9	25.3	26.4	27.2	26.8	27.6	28.0
8H	23.7	24.4	24.1	24.9	25.3	26.6	27.3	27.0	27.7	28.2
12H	23.7	24.4	24.2	24.8	25.3	26.7	27.4	27.2	27.8	28.3
X=8H Y=4H	23.6	24.4	24.1	24.8	25.3	25.9	26.7	26.4	27.1	27.5
6H	24.0	24.6	24.4	25.0	25.5	26.5	27.1	27.0	27.6	28.1
8H	24.0	24.6	24.5	25.0	25.5	26.7	27.3	27.2	27.7	28.3
12H	24.0	24.5	24.6	25.0	25.5	26.9	27.4	27.4	27.9	28.4
X=12H Y=4H	23.7	24.3	24.1	24.8	25.2	25.9	26.6	26.4	27.0	27.5
6H	24.0	24.5	24.5	25.0	25.5	26.5	27.0	27.0	27.5	28.0
8H	24.1	24.5	24.6	25.0	25.6	26.7	27.2	27.3	27.7	28.2
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.1/-0.2				
S=1.5H	+0.4/-0.8					+0.5/-0.6				
S=2.0H	+0.7/-1.4					+1.3/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 10009lm ($8\log(F/F_0) = 8.0$).

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Temperature:

Operator:

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Test Device: LSG-1800B

Distance: 12.682 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	0.56	0.66	0.73	0.79	0.86	0.91	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.75	0.81	0.85	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.95	0.98	
	0.30		0.47	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.95	
	0.20		0.41	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.93	
0.30	0.50	0.20	0.52	0.62	0.68	0.73	0.80	0.84	0.87	0.92	0.94	
	0.30		0.46	0.56	0.63	0.68	0.75	0.80	0.84	0.89	0.92	
	0.20		0.41	0.51	0.58	0.64	0.71	0.77	0.81	0.86	0.89	
0.00	0.00	0.00	0.39	0.48	0.55	0.61	0.68	0.73	0.77	0.81	0.85	
Rating:102W 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	1.01	0.83	0.71	0.62	0.50	0.41	0.35	0.27	0.22	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	0.59	0.47	0.42	0.34	0.26	0.21	
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.29	0.23	0.20	
0.30	0.50	0.20	0.94	0.77	0.65	0.57	0.45	0.37	0.32	0.25	0.20	
	0.30		0.80	0.68	0.58	0.52	0.42	0.35	0.30	0.24	0.19	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.28	0.23	0.19	
0.00	0.00	0.00	0.60	0.51	0.44	0.39	0.31	0.26	0.22	0.18	0.15	
Rating:102W 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	0.17	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.11	0.13	0.14	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:102W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												