

Report No.: 1

Test Time: 27.11.2019 18:35

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 (1200) 4x48LED 0.7A 55W 5000K K B opal

Luminous Length (mm): 1245

Luminous Width (mm): 55

Luminous Height (mm): 80

Voltage: 221.5 V

Current: 0.243 A

Power: 53.06 W

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 7196.9 lm

Downward Ratio: 98%

Total Rated Lamp Lumens: 7196.9 lm

Efficiency: 100%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.6, 161.0, 158.9, 158.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.7, 112.4, 111.7, 112.6

Luminaire Efficacy Rating (LER): 135.69

Central Intensity: 2486.7 cd

Max. Intensity: 2515.1 cd

Pos of Max. Intensity: H270 V10

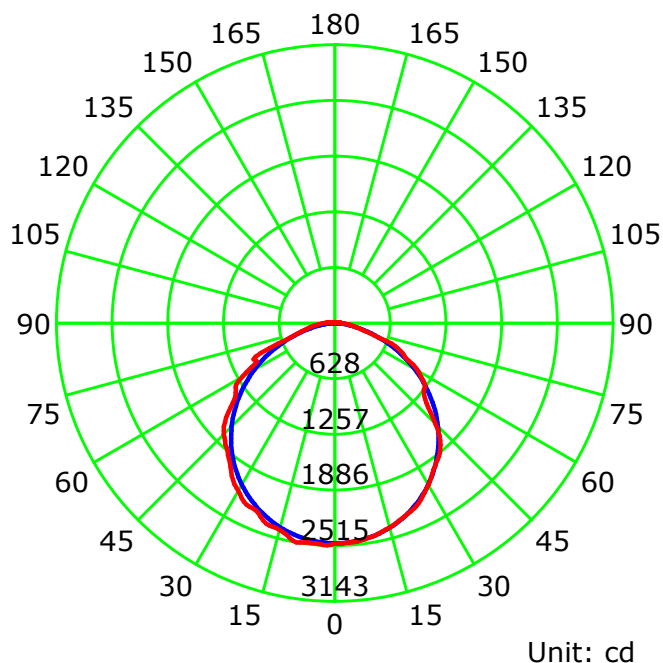
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.28

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

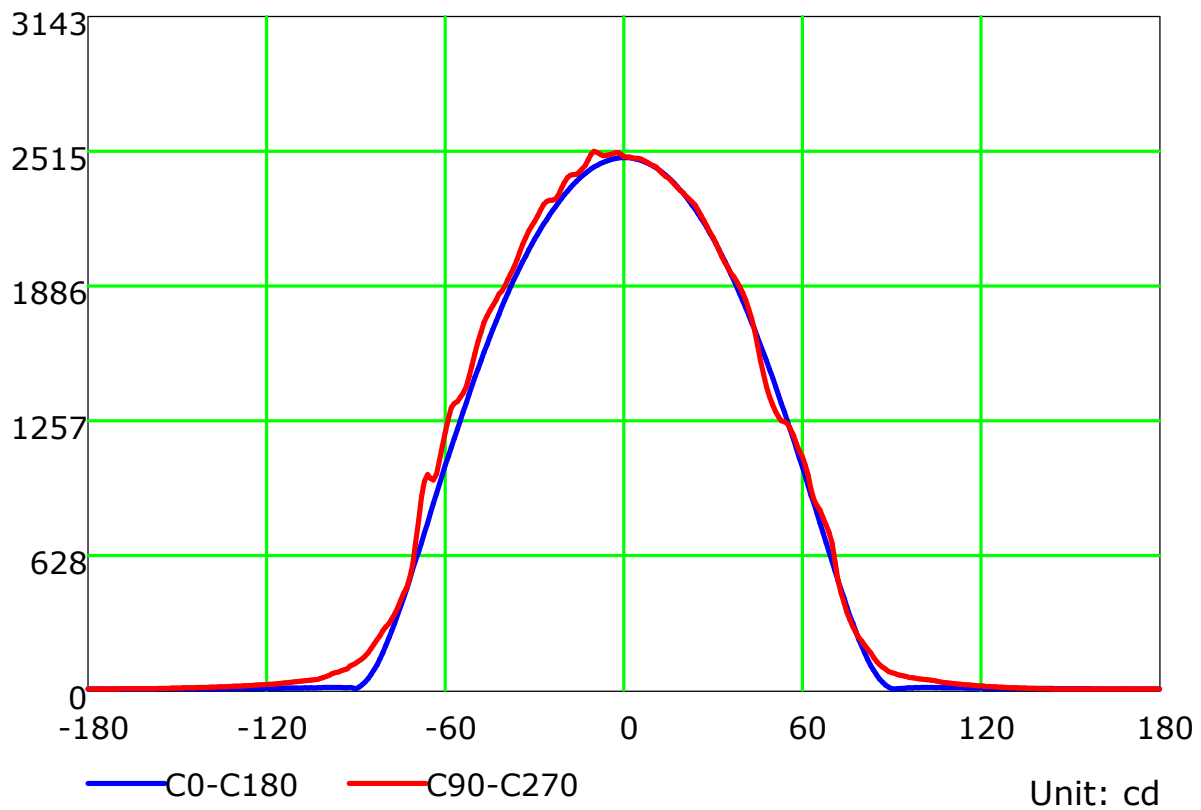
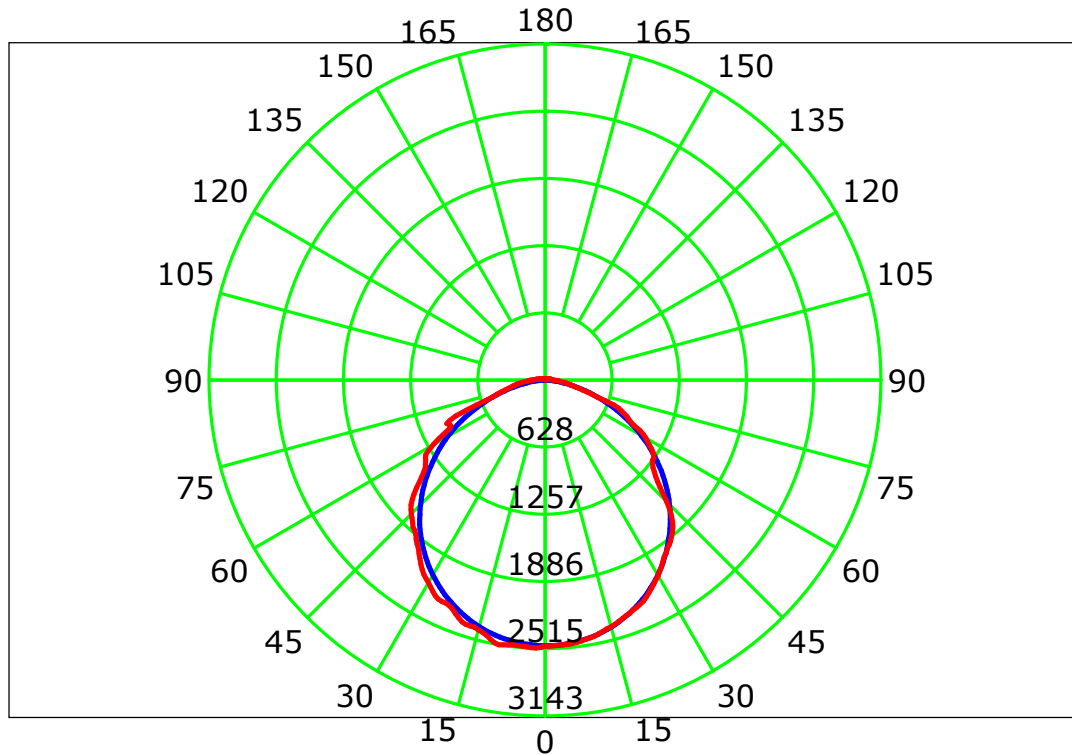
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

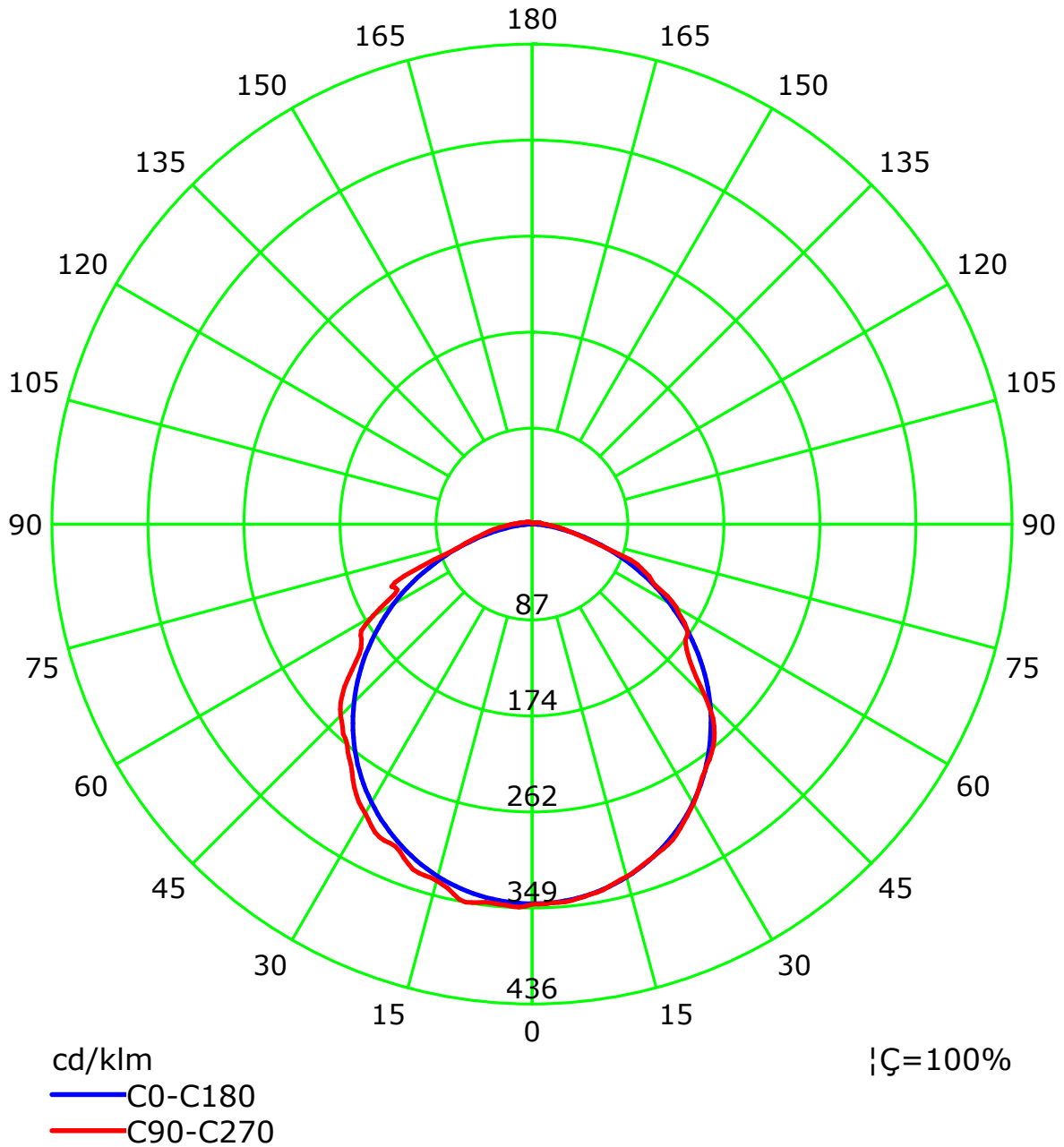
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



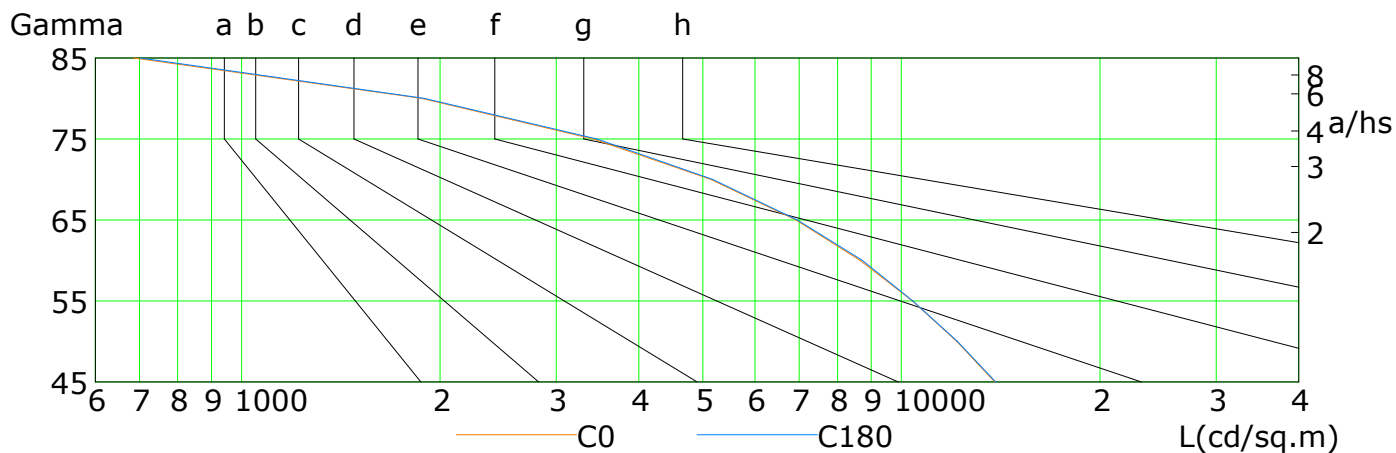
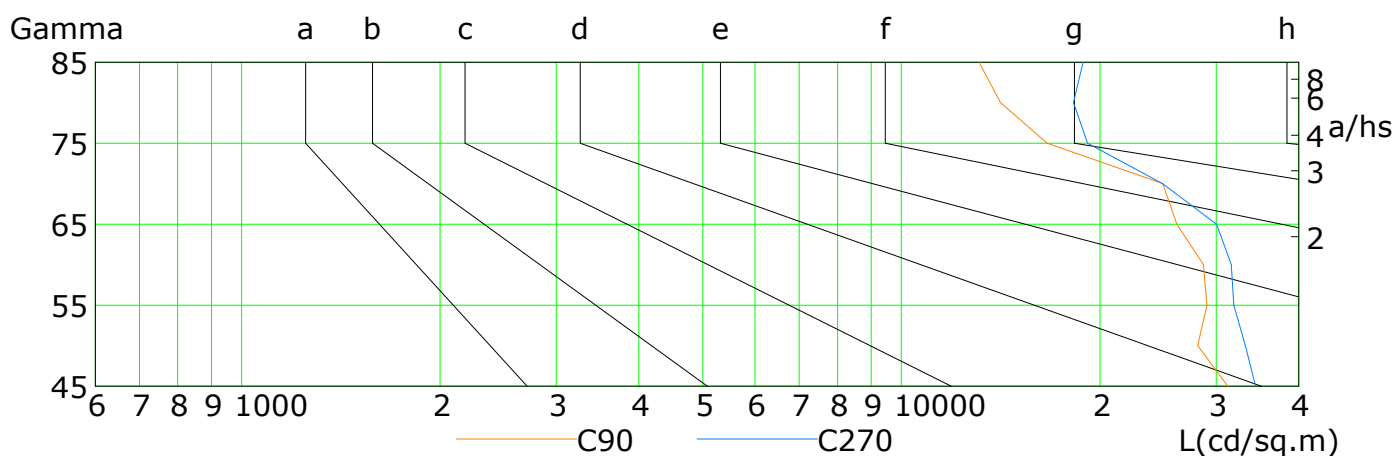
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
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

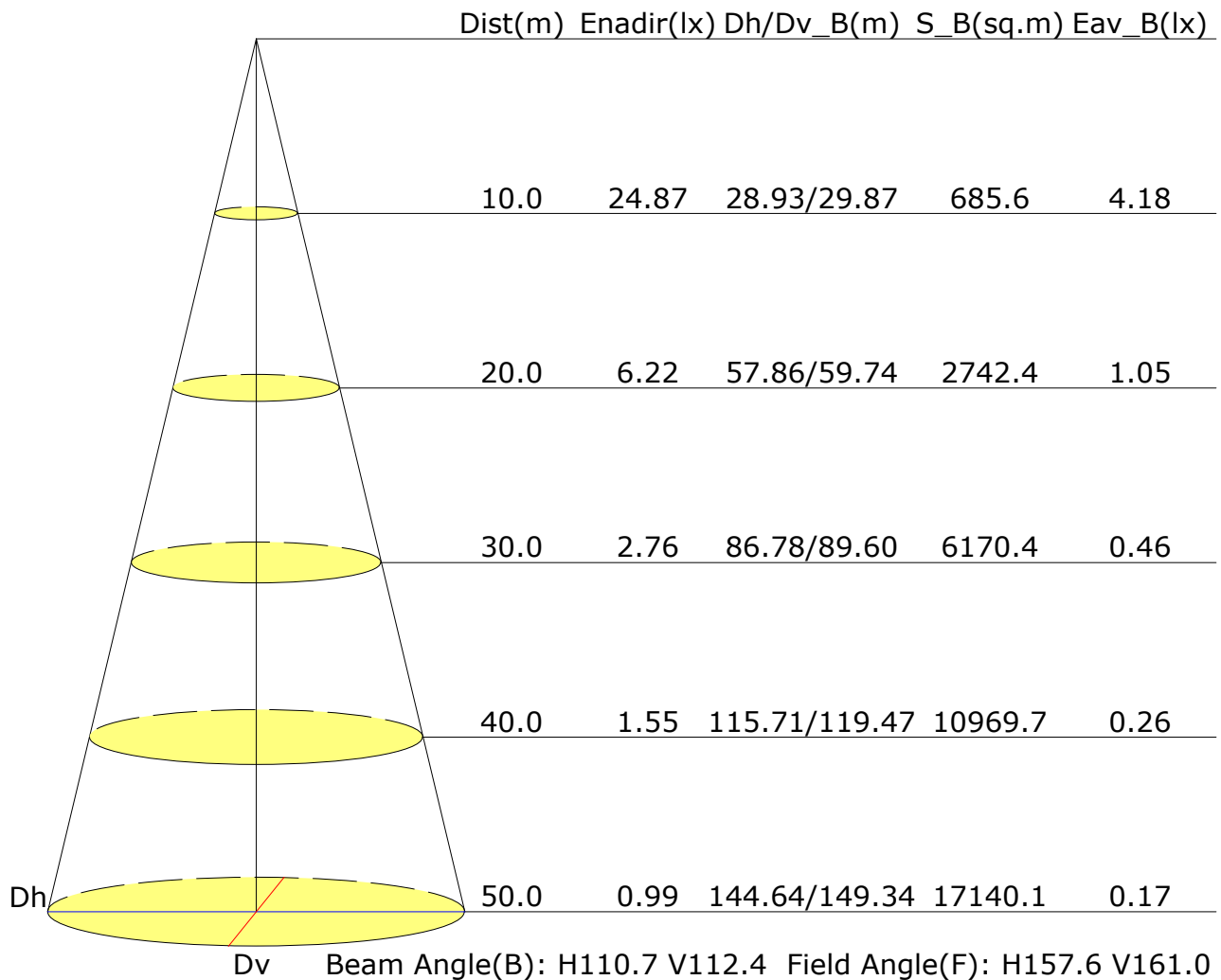


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	13854	12130	10394	8659	6920	5138	3415	1874	686
C90	31237	28131	29048	28688	26161	24887	16641	14127	13107
C180	13890	12153	10410	8725	6951	5172	3455	1891	702
C270	34418	33212	31899	31632	30047	24867	19150	18233	18858

C Plane (°):0.0-360.0: 22.5
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 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	20.8	22.2	21.2	22.5	22.7	23.0	24.4	23.3	24.6	24.9
3H	21.7	22.9	22.0	23.2	23.5	24.5	25.8	24.9	26.1	26.4
4H	21.9	23.1	22.3	23.4	23.7	24.9	26.1	25.3	26.4	26.7
6H	22.0	23.1	22.4	23.4	23.8	25.2	26.3	25.6	26.6	27.0
8H	22.0	23.0	22.4	23.4	23.8	25.3	26.4	25.7	26.7	27.1
12H	22.0	23.0	22.4	23.3	23.7	25.4	26.4	25.8	26.8	27.2
X=4H Y=2H	21.4	22.6	21.8	22.9	23.3	23.2	24.4	23.6	24.7	25.0
3H	22.4	23.4	22.8	23.8	24.2	24.9	25.9	25.3	26.2	26.6
4H	22.7	23.6	23.2	24.0	24.4	25.3	26.2	25.7	26.6	27.0
6H	22.9	23.7	23.3	24.1	24.5	25.7	26.5	26.1	26.9	27.3
8H	22.9	23.6	23.4	24.0	24.5	25.8	26.6	26.3	27.0	27.5
12H	22.9	23.5	23.4	24.0	24.5	26.0	26.7	26.5	27.1	27.6
X=8H Y=4H	22.9	23.6	23.4	24.1	24.5	25.3	26.1	25.8	26.5	27.0
6H	23.1	23.7	23.6	24.2	24.7	25.7	26.3	26.2	26.8	27.3
8H	23.2	23.7	23.7	24.2	24.7	26.0	26.5	26.5	27.0	27.5
12H	23.2	23.6	23.7	24.1	24.7	26.2	26.6	26.7	27.1	27.7
X=12H Y=4H	22.9	23.6	23.4	24.0	24.5	25.3	26.0	25.8	26.4	26.9
6H	23.2	23.7	23.7	24.2	24.7	25.7	26.3	26.2	26.7	27.3
8H	23.2	23.7	23.7	24.2	24.7	26.0	26.4	26.5	26.9	27.5
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.2/-0.2				
S=1.5H	+0.5/-0.9					+0.8/-0.9				
S=2.0H	+0.9/-1.6					+1.4/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 7197lm ($8\log(F/F_0) = 6.9$).

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 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	0.56	0.67	0.74	0.80	0.87	0.92	0.95	1.00	1.03	
	0.30		0.49	0.59	0.67	0.73	0.81	0.86	0.90	0.96	0.99	
	0.20		0.43	0.53	0.61	0.67	0.76	0.82	0.86	0.92	0.96	
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.83	0.88	0.91	0.96	0.98	
	0.30		0.48	0.58	0.65	0.71	0.78	0.83	0.87	0.92	0.95	
	0.20		0.43	0.53	0.60	0.66	0.74	0.80	0.84	0.89	0.93	
0.30	0.50	0.20	0.53	0.63	0.69	0.74	0.80	0.85	0.88	0.92	0.94	
	0.30		0.47	0.57	0.64	0.69	0.76	0.81	0.84	0.89	0.92	
	0.20		0.42	0.52	0.59	0.65	0.72	0.77	0.81	0.86	0.89	
0.00	0.00	0.00	0.40	0.49	0.56	0.61	0.69	0.73	0.77	0.82	0.84	
Rating:53W 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	0.99	0.81	0.69	0.60	0.48	0.40	0.34	0.26	0.22	
	0.30		0.82	0.70	0.60	0.53	0.43	0.36	0.31	0.25	0.21	
	0.20		0.71	0.61	0.53	0.48	0.40	0.34	0.29	0.23	0.20	
0.50	0.50	0.20	0.95	0.78	0.66	0.57	0.46	0.41	0.32	0.25	0.20	
	0.30		0.80	0.68	0.58	0.51	0.42	0.35	0.30	0.24	0.20	
	0.20		0.70	0.60	0.52	0.47	0.38	0.33	0.28	0.23	0.19	
0.30	0.50	0.20	0.92	0.75	0.63	0.55	0.43	0.36	0.31	0.24	0.19	
	0.30		0.78	0.66	0.57	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.69	0.59	0.51	0.45	0.37	0.32	0.27	0.22	0.18	
0.00	0.00	0.00	0.58	0.49	0.42	0.37	0.30	0.25	0.21	0.17	0.14	
Rating:53W 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	0.18	0.19	0.20	0.21	0.22	0.22	0.22	0.23	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17	0.18	
0.50	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.22	
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.19	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Rating:53W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												