

Report No.: 1

Test Time: 18.10.2019 14:21

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 48LED 0.35A 40W 4000K opal

Luminous Length (mm): 900

Luminous Width (mm): 55

Luminous Height (mm): 90

Voltage: 220.6 V

Current: 0.181 A

Power: 39.14 W

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Measurement Flux: 4706.3 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 4706.3 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.7, 163.4, 160.7, 160.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.7, 110.0, 109.2, 109.1

Luminaire Efficacy Rating (LER): 120.29

Central Intensity: 1668.16 cd

Max. Intensity: 1670.16 cd

Pos of Max. Intensity: H202.5 V1

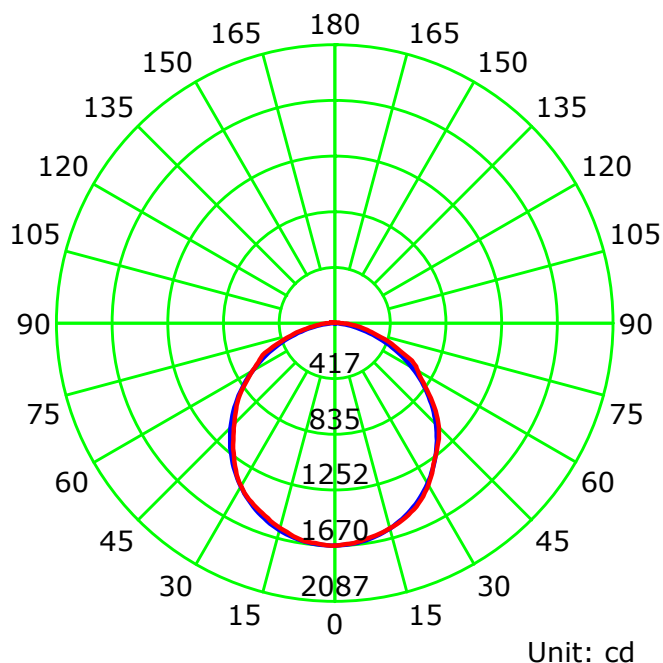
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.25

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

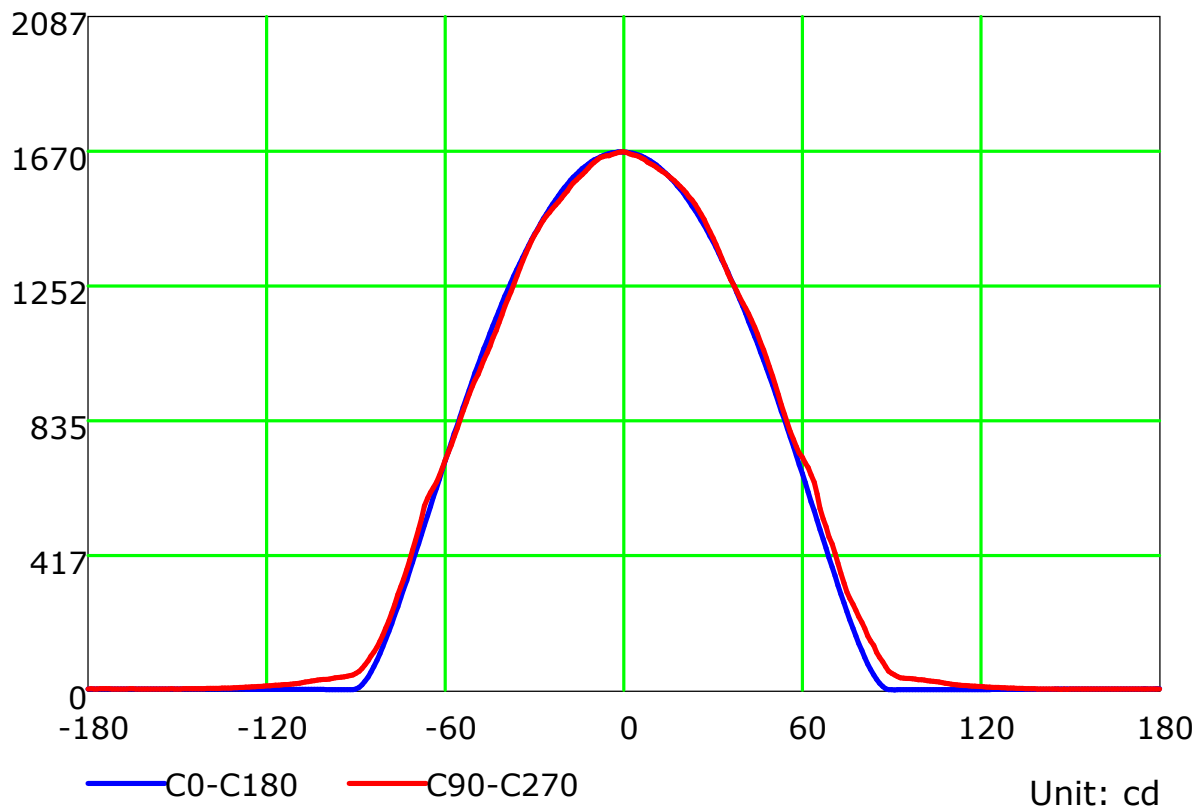
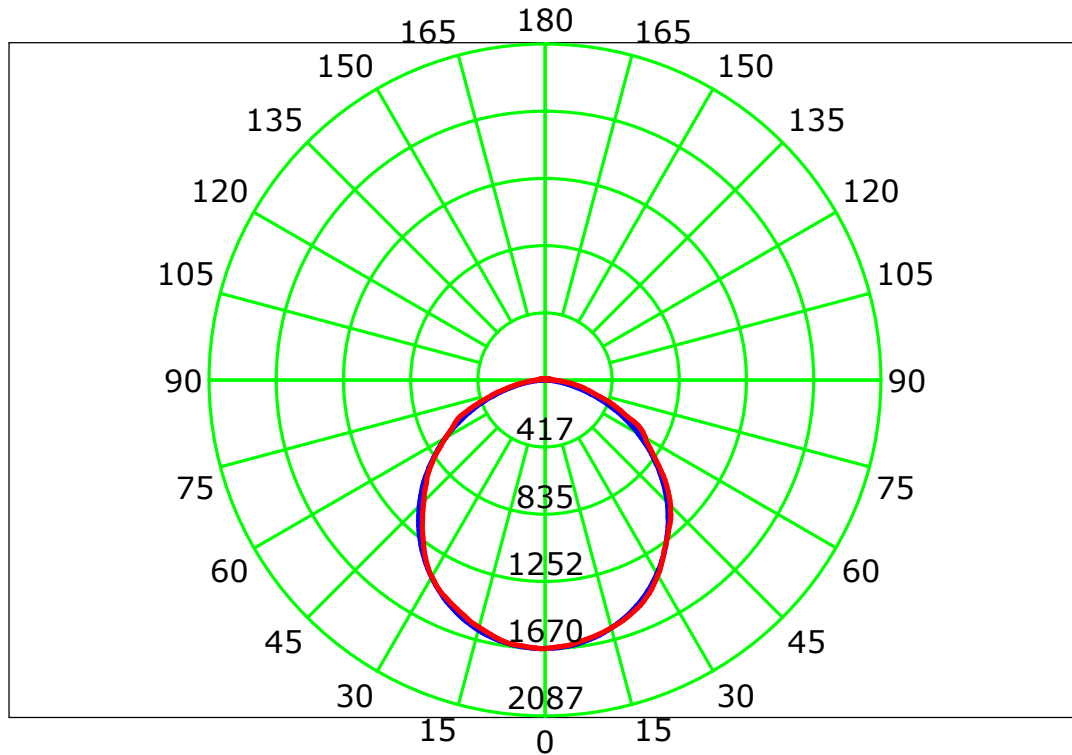
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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Temperature:

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Gamma Plane (°):0.0-180.0:1.0

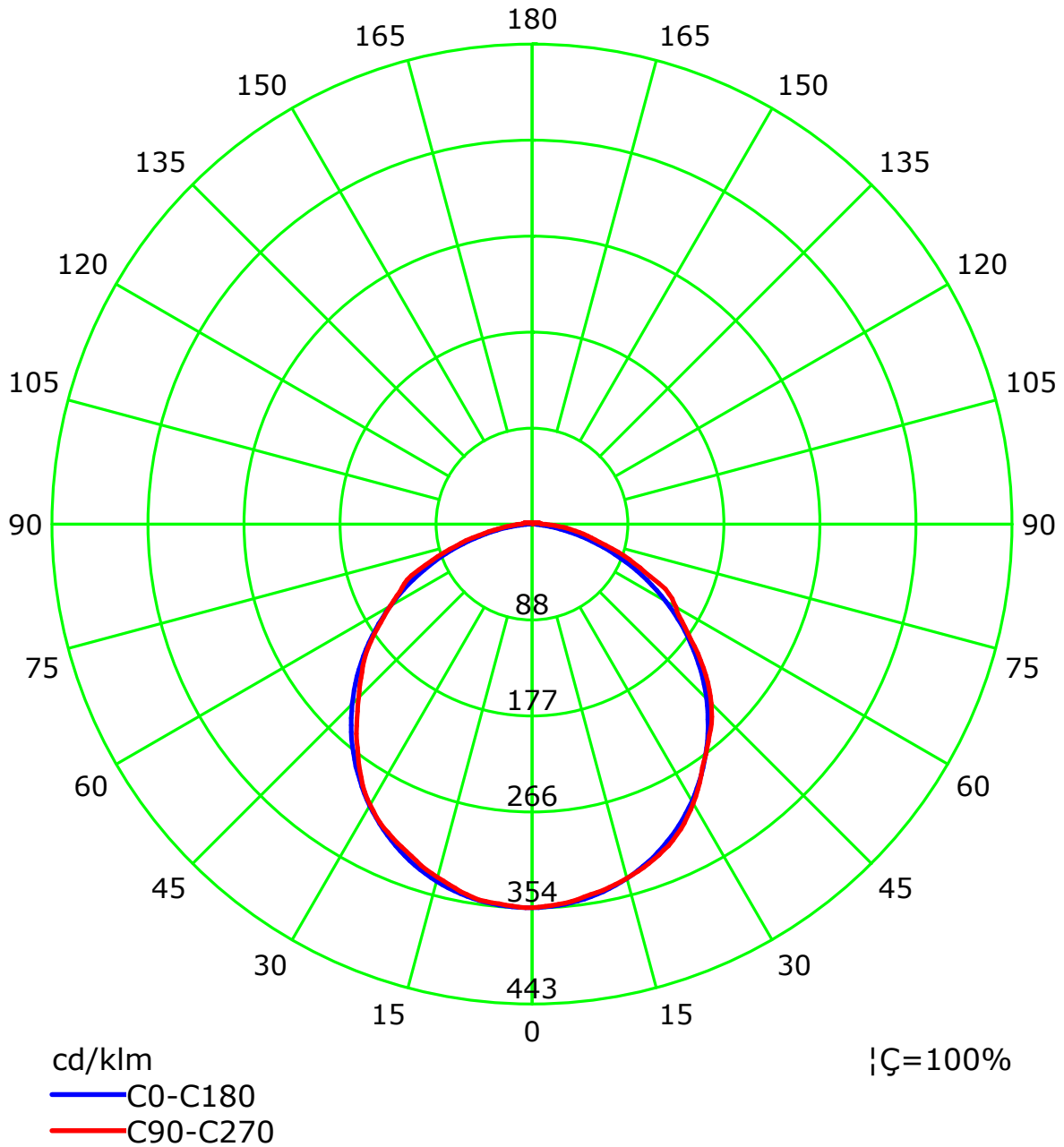
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



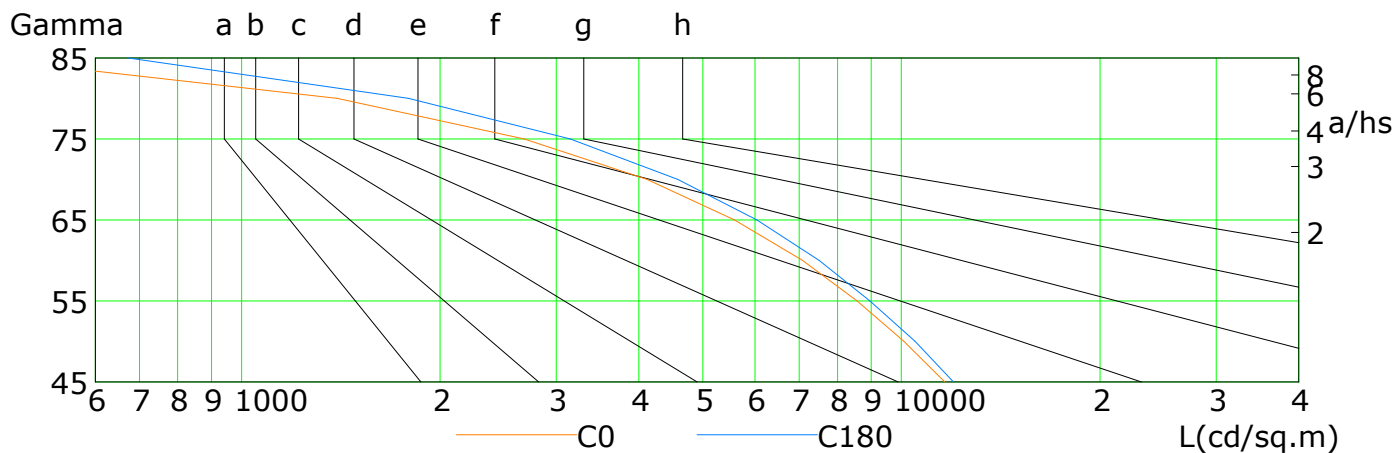
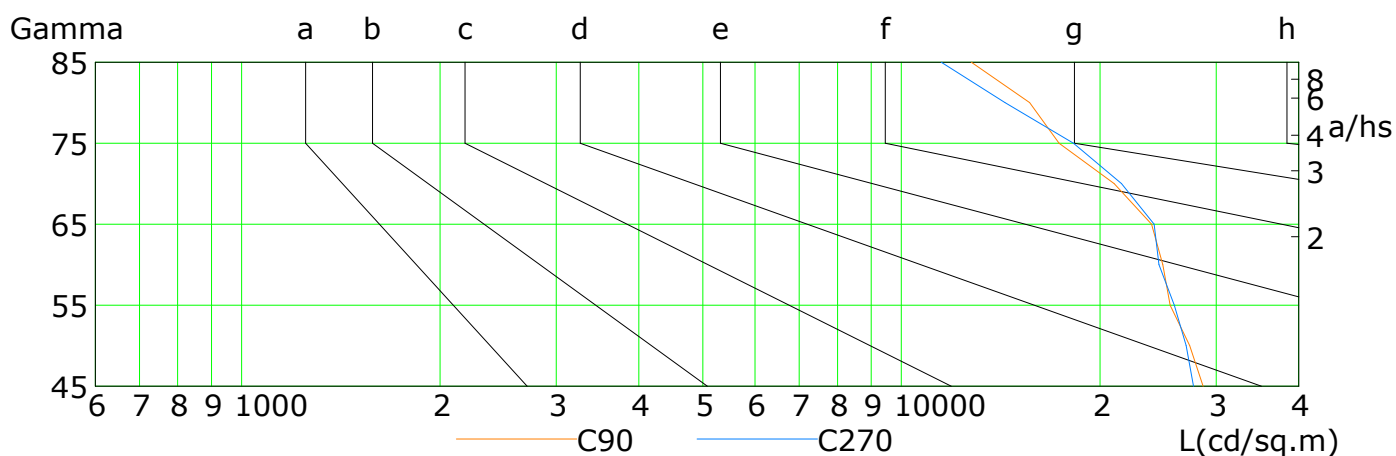
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

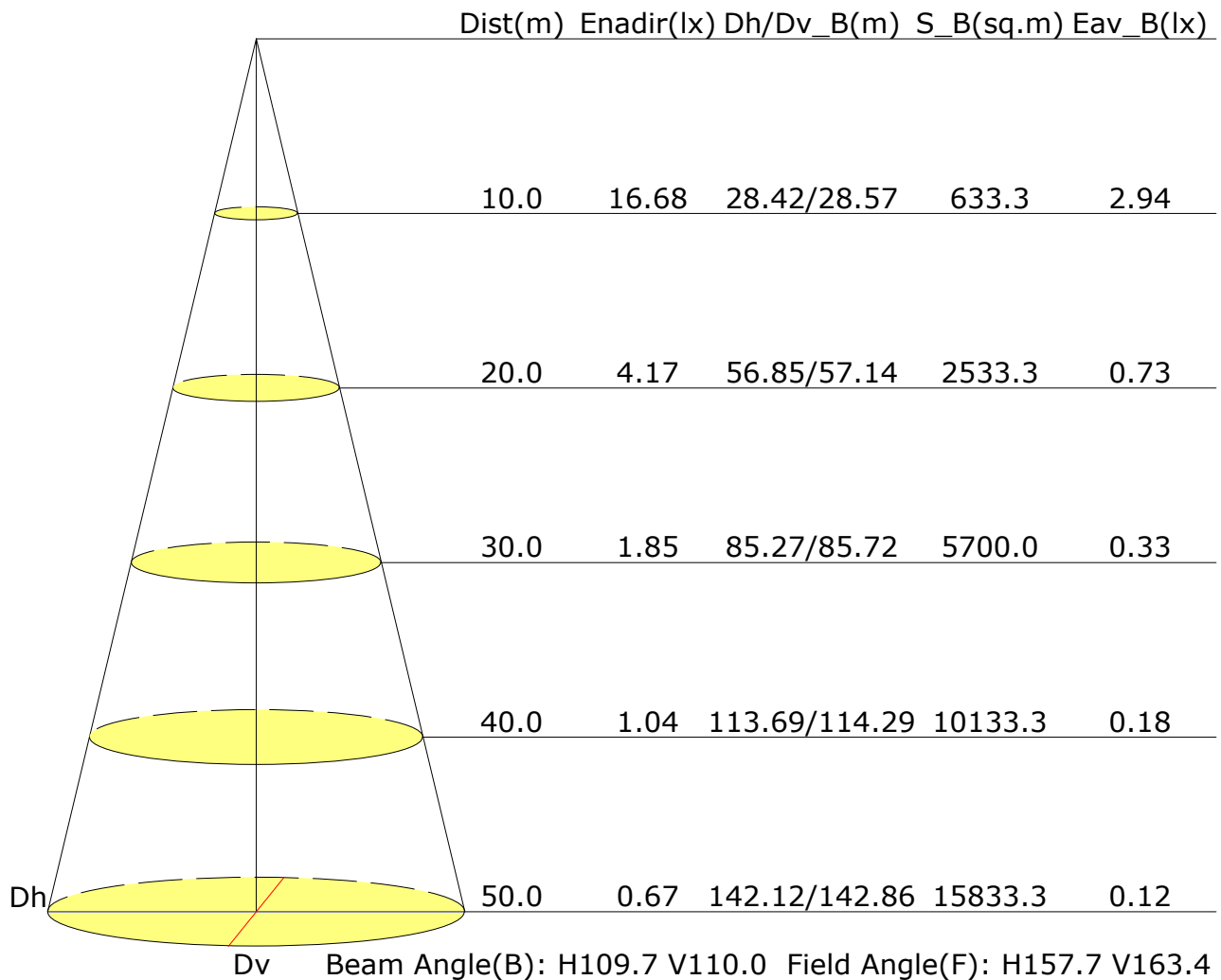


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	11640	10083	8568	7082	5585	4114	2682	1395	400
C90	28648	27345	25543	24894	23939	21018	17343	15651	12763
C180	11997	10485	8961	7503	6043	4581	3149	1790	673
C270	27707	27008	25909	24576	24153	21547	18225	14348	11497

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	20.0	21.4	20.3	21.6	21.9	22.2	23.6	22.6	23.9	24.1
3H	20.8	22.1	21.2	22.4	22.7	23.8	25.0	24.1	25.3	25.6
4H	21.1	22.2	21.4	22.5	22.9	24.3	25.5	24.7	25.8	26.2
6H	21.1	22.2	21.5	22.6	22.9	24.7	25.8	25.1	26.2	26.5
8H	21.1	22.2	21.5	22.5	22.9	24.9	25.9	25.3	26.3	26.6
12H	21.1	22.1	21.5	22.5	22.8	25.0	26.0	25.4	26.4	26.7
X=4H Y=2H	20.6	21.8	21.0	22.1	22.4	22.5	23.6	22.8	23.9	24.3
3H	21.6	22.6	22.0	22.9	23.3	24.1	25.1	24.5	25.5	25.9
4H	21.9	22.8	22.3	23.2	23.6	24.8	25.7	25.2	26.0	26.4
6H	22.0	22.8	22.4	23.2	23.6	25.2	26.0	25.7	26.4	26.9
8H	22.0	22.7	22.5	23.2	23.6	25.4	26.2	25.9	26.6	27.0
12H	22.0	22.7	22.5	23.1	23.6	25.6	26.2	26.1	26.7	27.2
X=8H Y=4H	22.1	22.8	22.5	23.2	23.7	24.8	25.5	25.2	25.9	26.4
6H	22.3	22.9	22.8	23.3	23.8	25.3	25.9	25.8	26.4	26.9
8H	22.3	22.8	22.8	23.3	23.8	25.6	26.1	26.1	26.6	27.1
12H	22.3	22.8	22.8	23.3	23.8	25.8	26.2	26.3	26.7	27.2
X=12H Y=4H	22.1	22.8	22.6	23.2	23.7	24.8	25.4	25.2	25.9	26.3
6H	22.3	22.8	22.8	23.3	23.8	25.3	25.8	25.8	26.3	26.8
8H	22.4	22.8	22.9	23.3	23.8	25.6	26.0	26.1	26.5	27.0
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.2				
S=1.5H	+0.5/-0.9					+0.6/-0.7				
S=2.0H	+1.0/-1.6					+1.3/-1.4				

Calculate in accordance with CIE Pub.117. The table is revised with 4706lm ($8\log(F/F_0) = 5.4$).

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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	0.57	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	0.54	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	0.84	0.88	0.91	0.96	0.98	
	0.30		0.48	0.58	0.65	0.71	0.78	0.84	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	0.81	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	0.78	0.81	0.87	0.90	
0.00	0.00	0.00	0.40	0.50	0.56	0.62	0.69	0.74	0.77	0.82	0.85	
Rating:39W 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	0.82	0.70	0.61	0.48	0.40	0.34	0.27	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.50	0.50	0.20	0.95	0.78	0.67	0.58	0.46	0.42	0.33	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.31	0.24	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.92	0.75	0.64	0.56	0.44	0.36	0.31	0.24	0.20	
	0.30		0.79	0.66	0.57	0.50	0.41	0.34	0.29	0.23	0.19	
	0.20		0.69	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.59	0.49	0.42	0.37	0.30	0.25	0.22	0.17	0.14	
Rating:39W 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	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.20	
	0.20		0.06	0.08	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	0.20	0.20	0.21	0.21	0.22	0.22	
	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	0.16	0.17	
0.30	0.50	0.20	0.16	0.18	0.18	0.19	0.20	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		0.06	0.07	0.09	0.10	0.12	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:39W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												