

Report No.: 1

Test Time: 30.10.2019 16:25

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 250 4x40LED 0,3A 15W opal IP54

Luminous Length (mm): 250

Luminous Width (mm): 250

Luminous Height (mm): 48

Voltage: 221.4 V

Current: 0.071 A

Power: 14.88 W

Power Factor: 0.936

Photometric Results

CIE Class: Direct

Measurement Flux: 1847.6 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 1847.6 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 165.0, 164.9, 165.0, 165.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.9, 111.6, 111.8, 111.8

Luminaire Efficacy Rating (LER): 124.21

Central Intensity: 635.4 cd

Max. Intensity: 636.58 cd

Pos of Max. Intensity: H67.5 V3

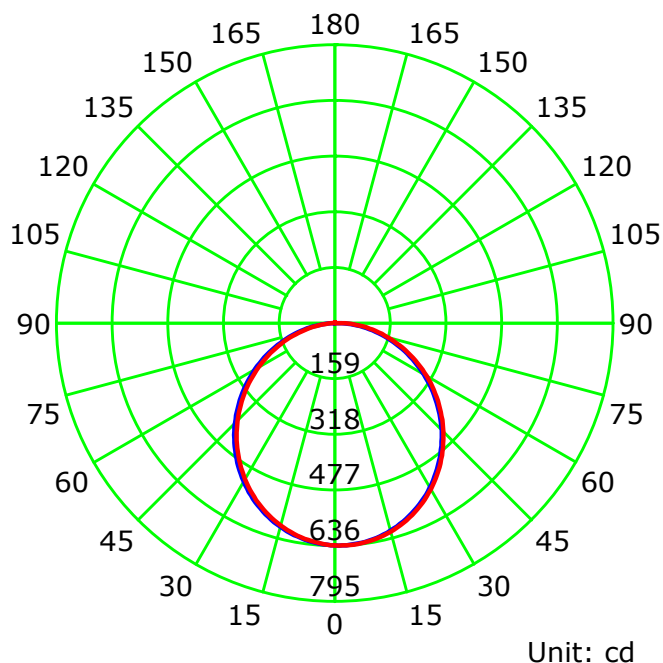
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.24

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

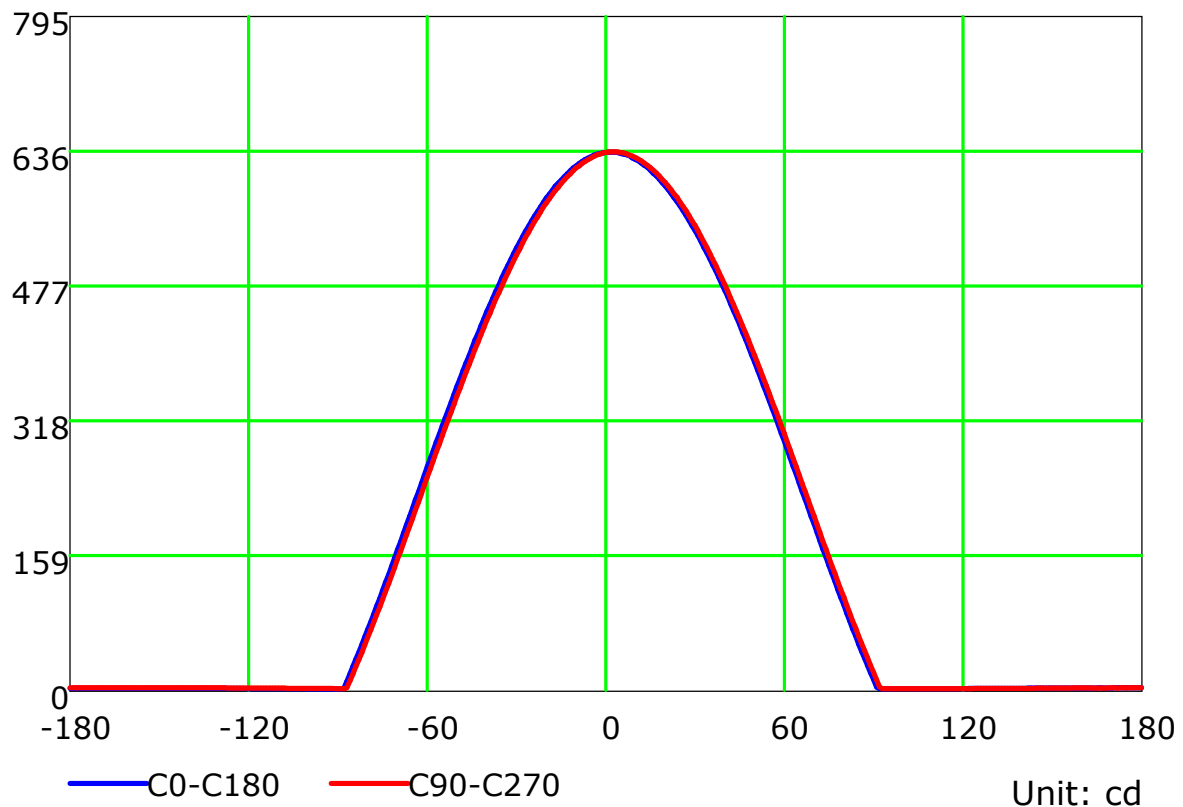
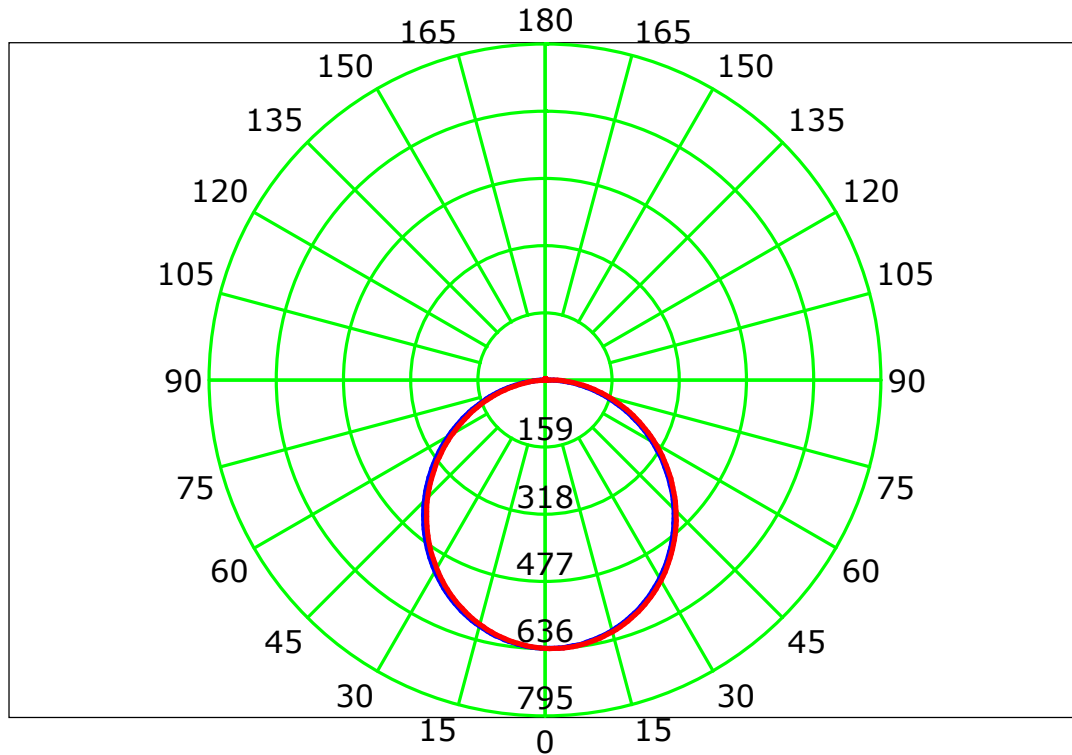
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

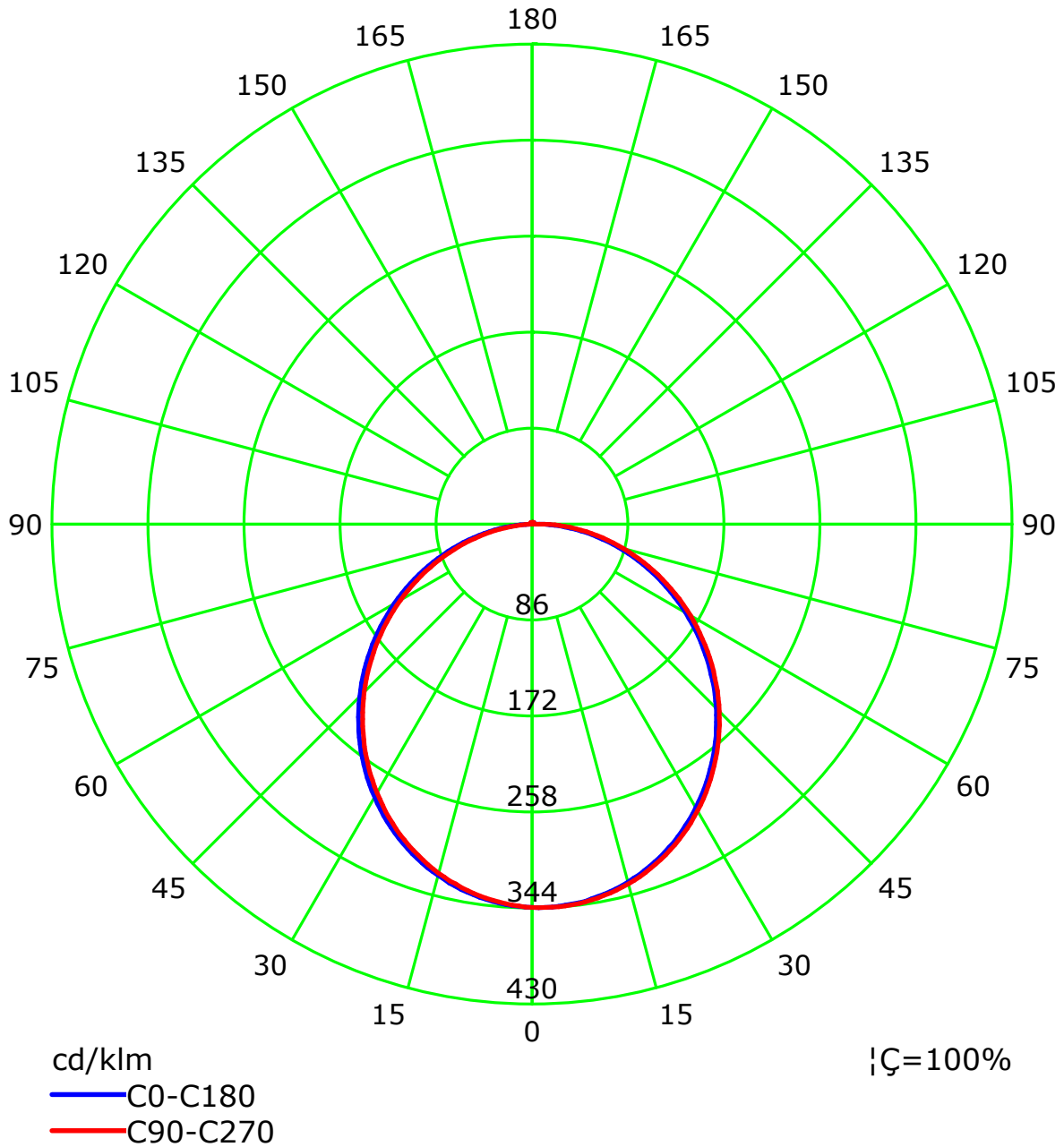
Luminous Intensity Distribution Curve



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:

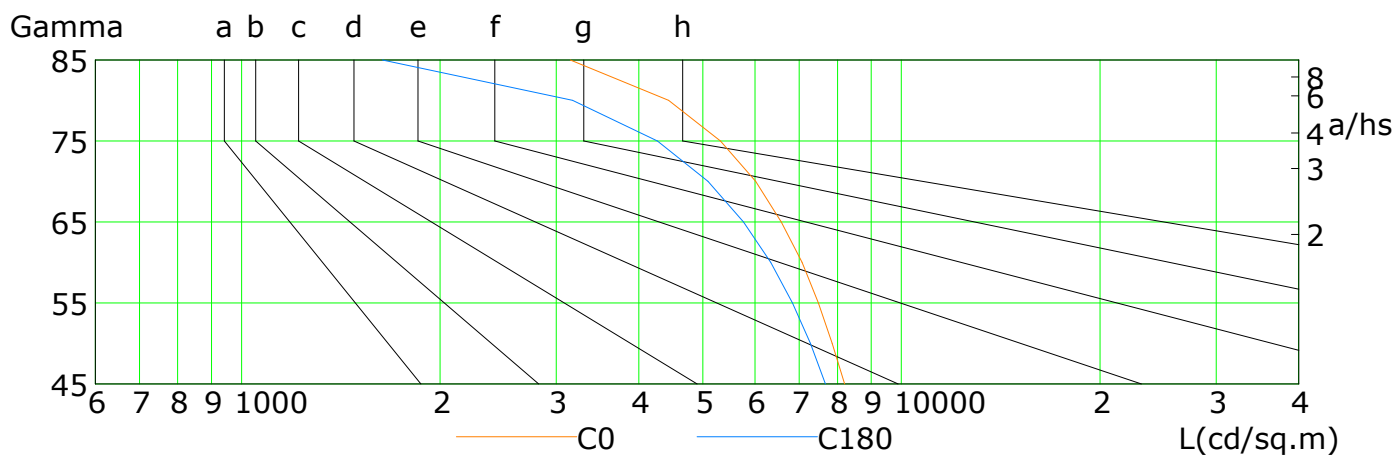
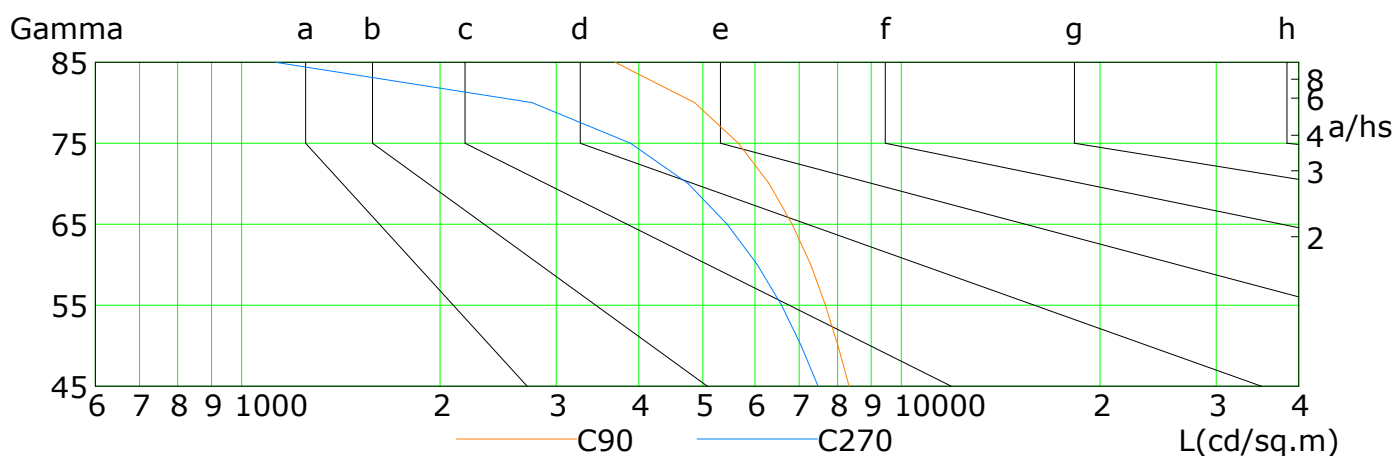
Luminous Intensity Distribution Curve(cd/klm)



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

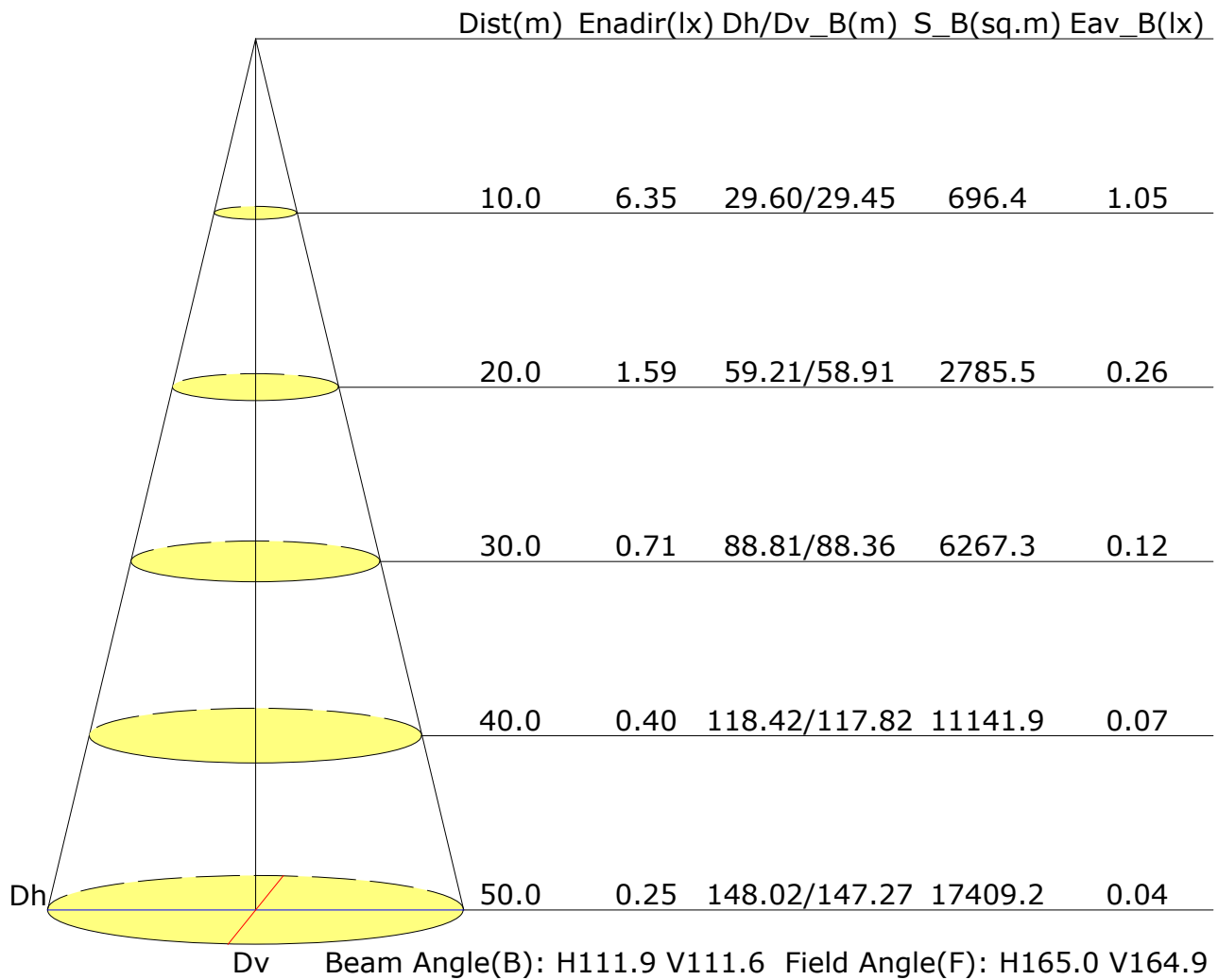


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	8204	7851	7485	7068	6577	6014	5318	4439	3148
C90	8331	8013	7673	7285	6828	6303	5660	4856	3685
C180	7674	7277	6836	6340	5766	5091	4269	3175	1635
C270	7474	7047	6581	6047	5443	4748	3885	2753	1125

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

Gamma Plane (°):0.0-180.0:1.0
 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	19.5	20.9	19.8	21.1	21.4	19.3	20.7	19.6	20.9	21.2
3H	21.0	22.3	21.3	22.6	22.8	20.7	22.0	21.1	22.3	22.6
4H	21.6	22.8	22.0	23.1	23.4	21.3	22.5	21.7	22.8	23.2
6H	22.1	23.2	22.5	23.6	23.9	21.8	22.9	22.1	23.2	23.5
8H	22.3	23.4	22.7	23.7	24.0	21.9	23.0	22.3	23.3	23.7
12H	22.4	23.4	22.8	23.8	24.1	22.0	23.0	22.4	23.4	23.7
X=4H Y=2H	20.0	21.2	20.4	21.6	21.9	19.9	21.1	20.3	21.4	21.7
3H	21.8	22.8	22.2	23.2	23.5	21.6	22.6	21.9	22.9	23.3
4H	22.5	23.5	22.9	23.8	24.2	22.3	23.2	22.7	23.6	24.0
6H	23.1	24.0	23.6	24.4	24.8	22.8	23.6	23.3	24.0	24.5
8H	23.3	24.1	23.8	24.5	25.0	23.0	23.8	23.5	24.2	24.6
12H	23.5	24.2	24.0	24.6	25.1	23.1	23.8	23.6	24.3	24.7
X=8H Y=4H	22.8	23.5	23.2	24.0	24.4	22.5	23.3	23.0	23.7	24.2
6H	23.5	24.1	24.0	24.6	25.1	23.2	23.9	23.7	24.3	24.8
8H	23.8	24.4	24.3	24.8	25.3	23.5	24.1	24.0	24.5	25.0
12H	24.1	24.5	24.6	25.0	25.5	23.7	24.2	24.2	24.7	25.2
X=12H Y=4H	22.8	23.5	23.3	23.9	24.4	22.6	23.3	23.0	23.7	24.2
6H	23.6	24.1	24.1	24.6	25.1	23.3	23.9	23.8	24.3	24.8
8H	23.9	24.4	24.4	24.9	25.4	23.6	24.1	24.1	24.6	25.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.2				
S=1.5H	+0.3/-0.4					+0.5/-0.6				
S=2.0H	+0.5/-0.8					+0.5/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 1848lm ($8\log(F/F_0) = 2.1$).

C Plane (°):0.0-360.0: 22.5
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Gamma Plane (°):0.0-180.0:1.0
 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	0.66	0.73	0.79	0.86	0.91	0.95	0.99	1.02	
	0.30		0.48	0.58	0.66	0.71	0.80	0.85	0.89	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.74	0.80	0.85	0.91	0.95	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.87	0.91	0.95	0.98	
	0.30		0.47	0.57	0.64	0.70	0.77	0.83	0.86	0.92	0.95	
	0.20		0.42	0.52	0.59	0.65	0.73	0.78	0.83	0.88	0.92	
0.30	0.50	0.20	0.52	0.62	0.68	0.73	0.80	0.84	0.87	0.91	0.94	
	0.30		0.46	0.56	0.63	0.68	0.75	0.80	0.84	0.88	0.91	
	0.20		0.41	0.51	0.58	0.63	0.71	0.76	0.80	0.86	0.89	
0.00	0.00	0.00	0.39	0.48	0.55	0.60	0.67	0.73	0.76	0.81	0.84	
Rating:15W 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	0.84	0.72	0.63	0.50	0.42	0.36	0.28	0.23	
	0.30		0.84	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.63	0.55	0.50	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.97	0.80	0.69	0.60	0.48	0.43	0.34	0.27	0.22	
	0.30		0.82	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.62	0.54	0.49	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.94	0.77	0.66	0.57	0.46	0.38	0.33	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.53	0.48	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
Rating:15W 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	0.19	0.20	0.21	0.22	0.22	0.22	0.23	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.15	0.16	0.17	
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	0.15	0.17	0.17	0.19	0.19	
	0.20		0.05	0.07	0.08	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	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16	
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:15W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												