

Report No.: 1

Test Time: 29.10.2019 22:52

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 4x18LED 0,3A 36W 3000K opal

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.3 V

Current: 0.170 A

Power: 36.70 W

Power Factor: 0.974

Photometric Results

CIE Class: Direct

Measurement Flux: 3642.4 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3642.4 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.6, 164.5, 164.5, 164.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.0, 110.9, 111.0, 110.9

Luminaire Efficacy Rating (LER): 99.30

Central Intensity: 1269.72 cd

Max. Intensity: 1270.98 cd

Pos of Max. Intensity: H22.5 V3

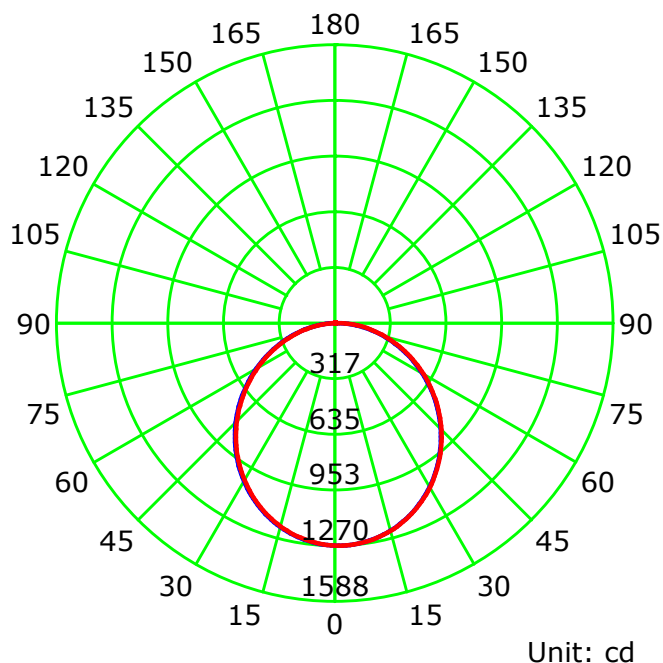
S/MH(C0/C180): 1.24

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

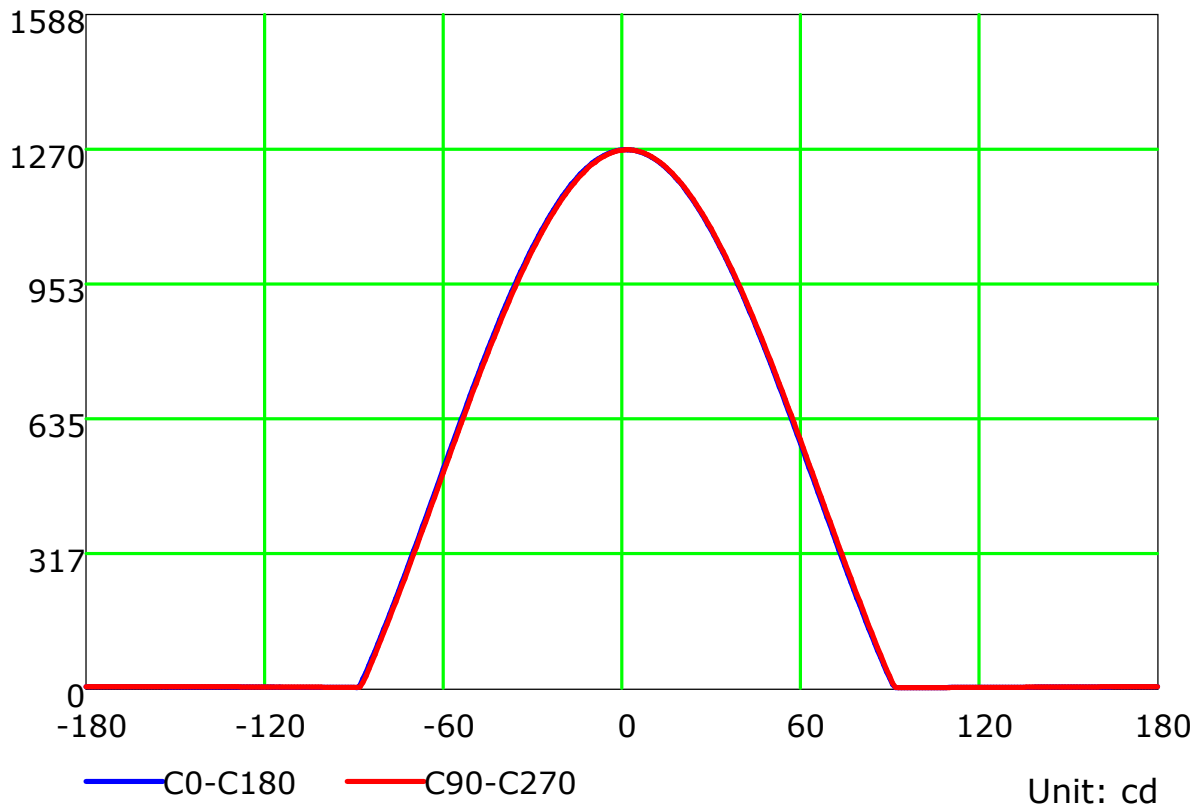
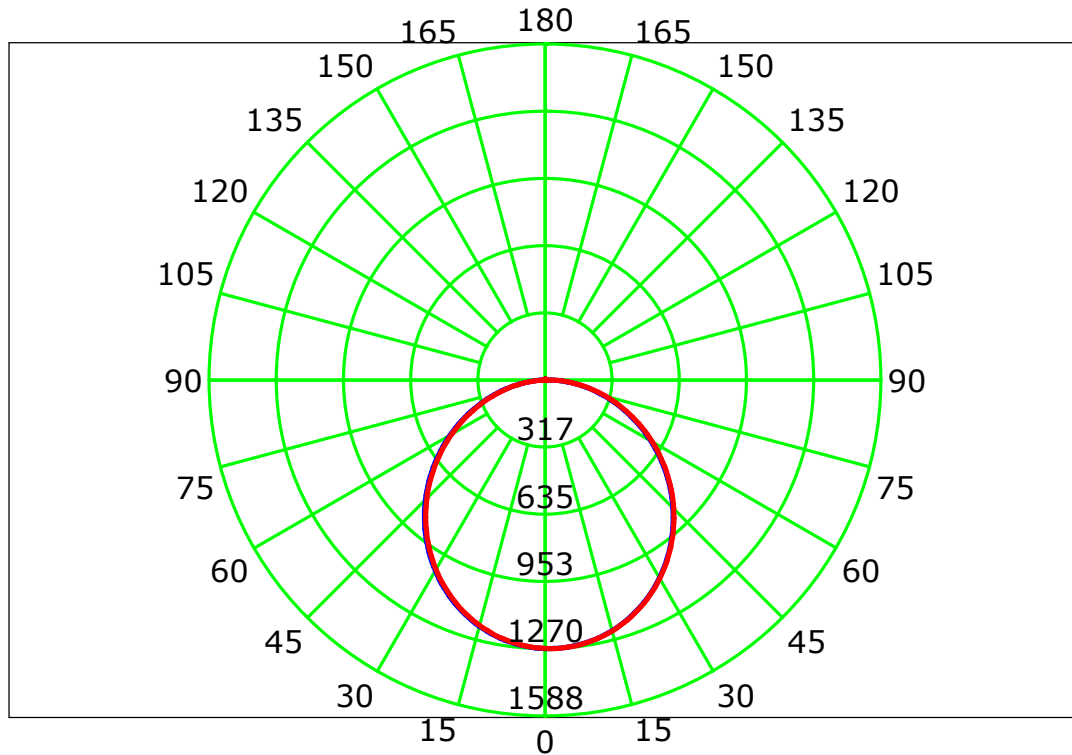
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

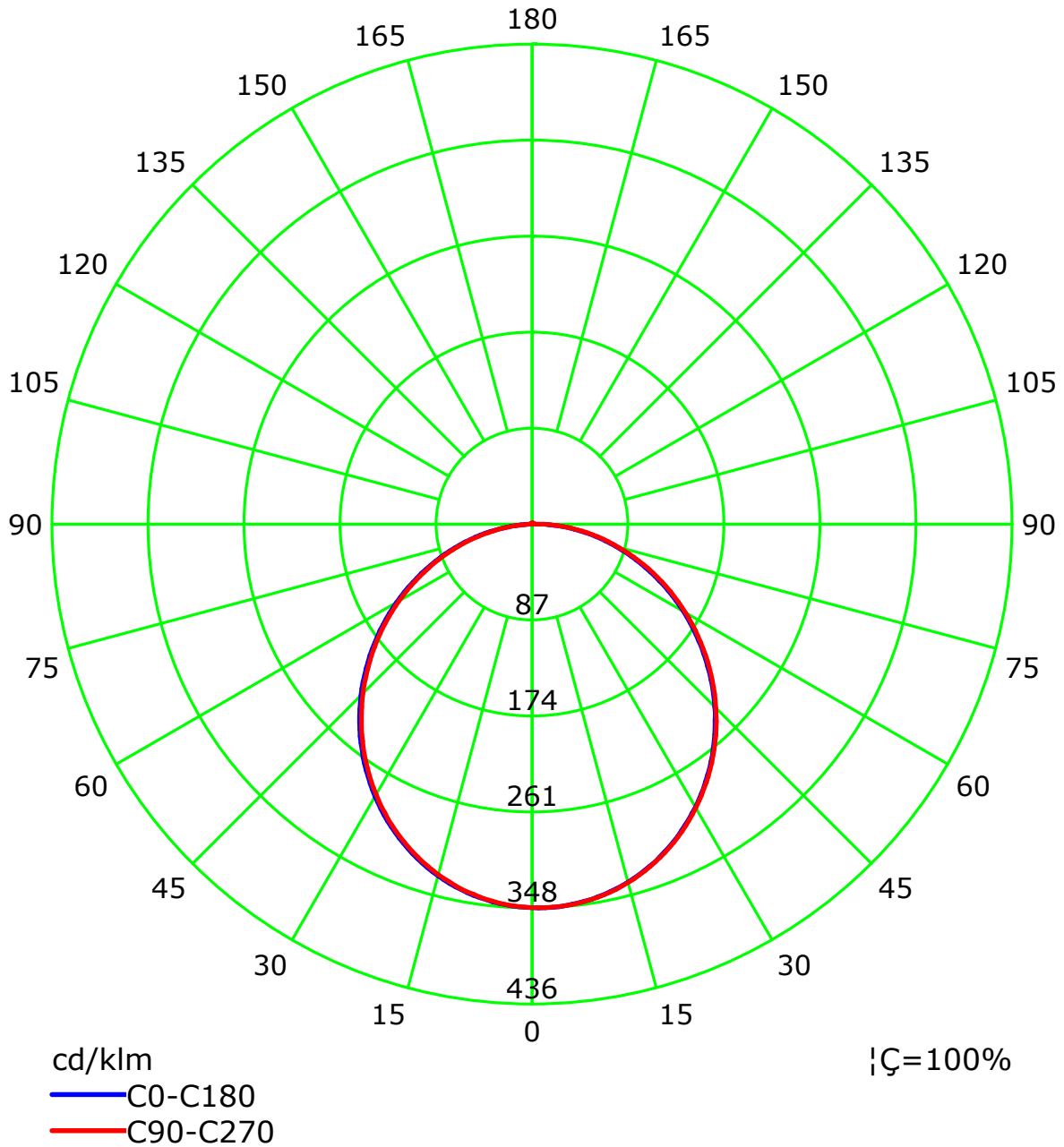
Luminous Intensity Distribution Curve



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

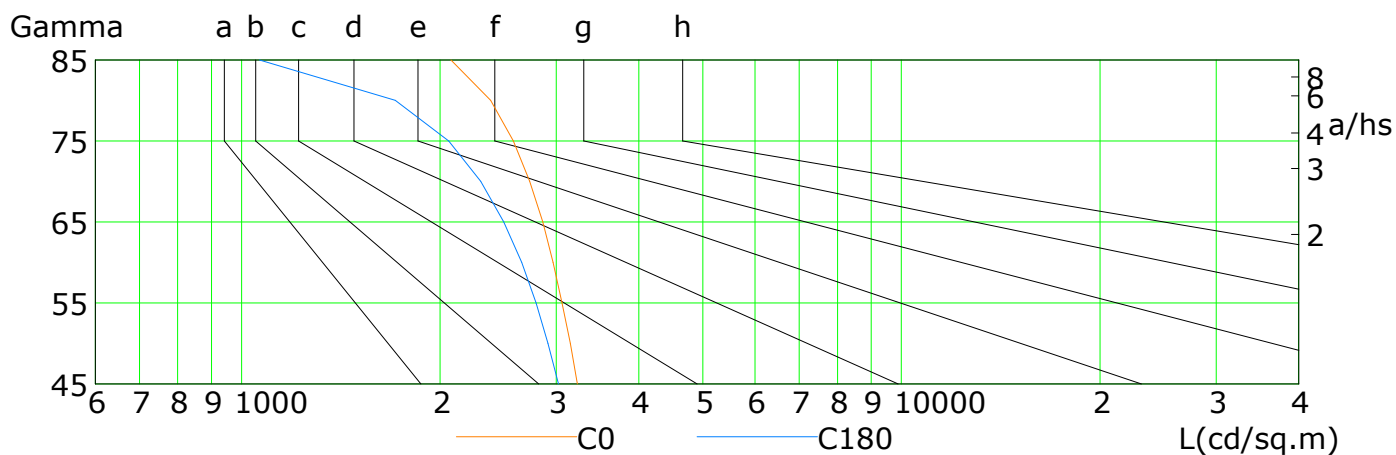
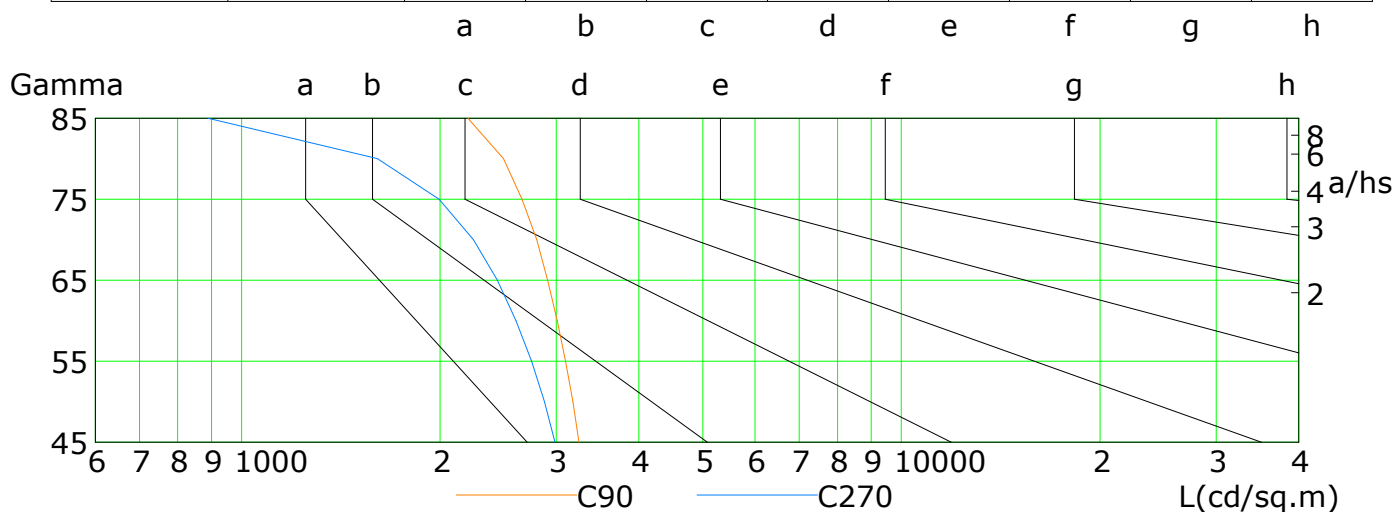
Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

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

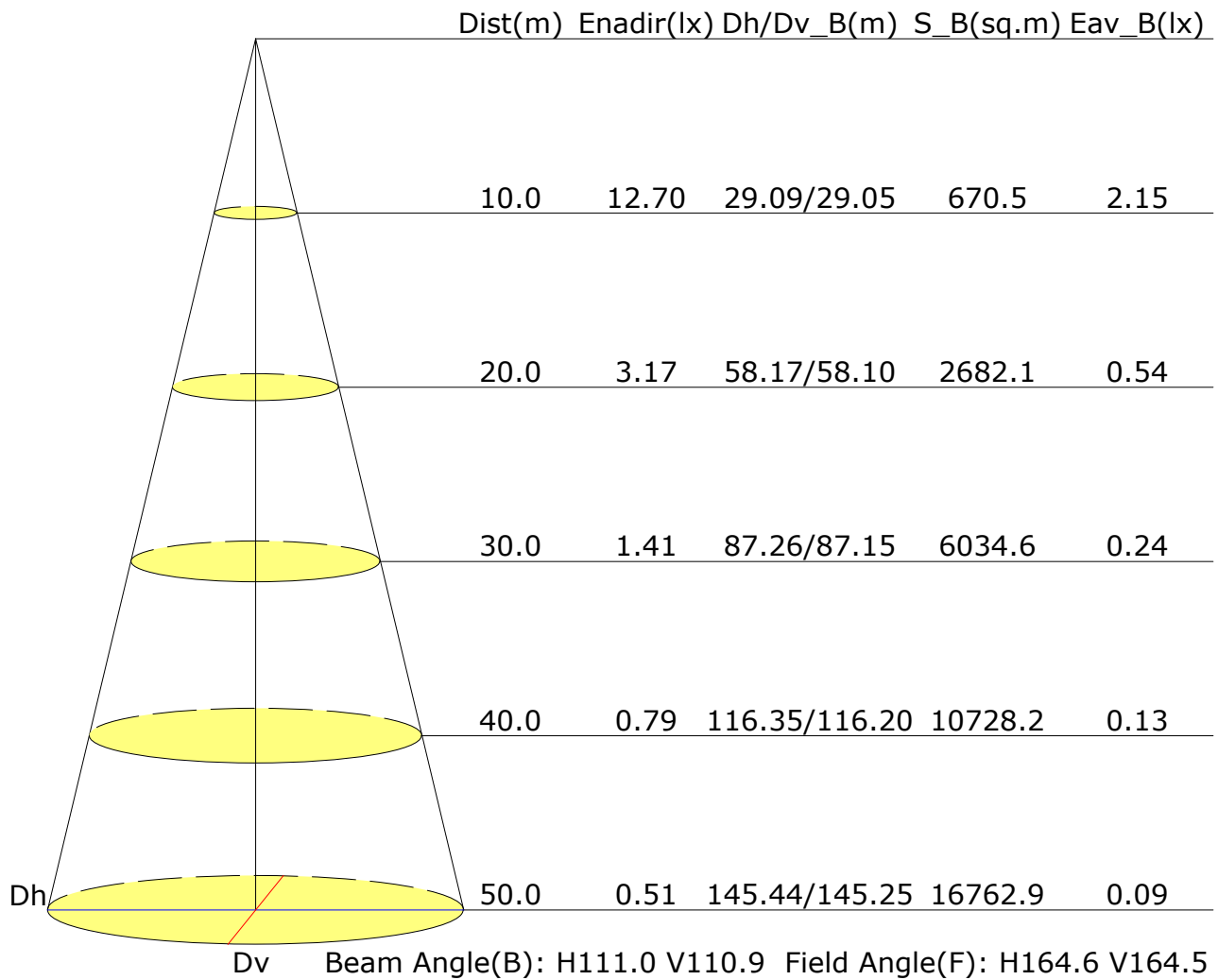


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3226	3148	3061	2966	2860	2732	2583	2386	2076
C90	3245	3176	3096	3009	2909	2800	2661	2495	2204
C180	3021	2913	2793	2658	2496	2303	2060	1709	1065
C270	2986	2876	2751	2606	2441	2246	1992	1606	889

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:

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	16.5	17.9	16.8	18.1	18.4	16.3	17.7	16.6	17.9	18.2
3H	18.1	19.4	18.5	19.7	20.0	17.8	19.1	18.2	19.4	19.7
4H	18.8	20.0	19.2	20.3	20.6	18.5	19.7	18.9	20.0	20.3
6H	19.4	20.5	19.8	20.8	21.2	19.0	20.1	19.4	20.5	20.8
8H	19.6	20.7	20.0	21.0	21.4	19.2	20.3	19.6	20.6	21.0
12H	19.8	20.8	20.2	21.1	21.5	19.3	20.3	19.7	20.7	21.0
X=4H Y=2H	17.1	18.3	17.5	18.6	18.9	17.0	18.2	17.3	18.5	18.8
3H	19.0	20.0	19.4	20.3	20.7	18.7	19.8	19.1	20.1	20.5
4H	19.8	20.7	20.2	21.1	21.5	19.5	20.5	19.9	20.8	21.2
6H	20.5	21.3	20.9	21.7	22.1	20.2	21.0	20.6	21.4	21.8
8H	20.8	21.5	21.2	22.0	22.4	20.4	21.2	20.8	21.6	22.0
12H	21.0	21.7	21.5	22.1	22.6	20.6	21.3	21.0	21.7	22.1
X=8H Y=4H	20.1	20.9	20.6	21.3	21.7	19.9	20.6	20.3	21.0	21.5
6H	21.0	21.6	21.4	22.0	22.5	20.7	21.3	21.1	21.7	22.2
8H	21.3	21.9	21.8	22.4	22.8	21.0	21.5	21.5	22.0	22.5
12H	21.6	22.1	22.2	22.6	23.1	21.2	21.7	21.7	22.2	22.7
X=12H Y=4H	20.1	20.8	20.6	21.2	21.7	19.9	20.6	20.4	21.0	21.5
6H	21.0	21.6	21.5	22.1	22.6	20.7	21.3	21.2	21.8	22.3
8H	21.5	21.9	22.0	22.4	22.9	21.1	21.6	21.6	22.1	22.6
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.1					+0.2/-0.2				
S=1.5H	+0.4/-0.4					+0.5/-0.6				
S=2.0H	+0.5/-0.8					+0.5/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3642lm ($8\log(F/F_0) = 4.5$).

C Plane (°):0.0-360.0: 22.5
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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	0.66	0.74	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	0.53	0.60	0.66	0.75	0.81	0.85	0.91	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.98	
	0.30		0.47	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.95	
	0.20		0.42	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.92	
0.30	0.50	0.20	0.53	0.62	0.69	0.73	0.80	0.84	0.88	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		0.42	0.51	0.58	0.64	0.72	0.77	0.81	0.86	0.90	
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85	
Rating:37W 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	0.71	0.62	0.50	0.42	0.36	0.28	0.23	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.62	0.55	0.50	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.48	0.43	0.34	0.26	0.22	
	0.30		0.82	0.70	0.60	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.62	0.54	0.48	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:37W 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	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.20	0.21	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	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	0.07	0.08	0.09	0.11	0.12	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:37W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												