

Report No.: 1

Test Time: 26.11.2019 13:10

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 300 40LED 0,3A 30W 5000K opal (40) Griliyato

Luminous Length (mm): 286

Luminous Width (mm): 286

Luminous Height (mm): 40

Voltage: 221.3 V

Current: 0.143 A

Power: 30.60 W

Power Factor: 0.966

Photometric Results

CIE Class: Direct

Measurement Flux: 2655.5 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 2655.5 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 165.0, 163.7, 164.5, 164.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.8, 113.7, 113.9, 113.8

Luminaire Efficacy Rating (LER): 86.83

Central Intensity: 892.52 cd

Max. Intensity: 900.2 cd

Pos of Max. Intensity: H90 V1

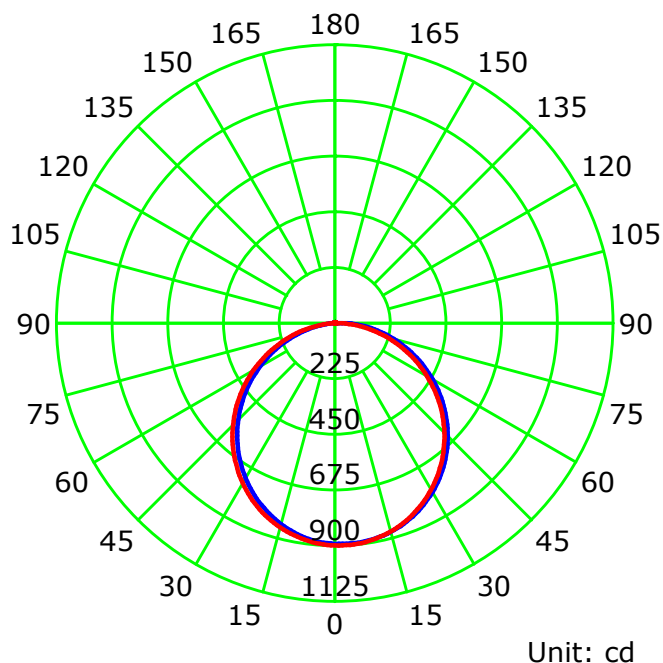
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.26

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

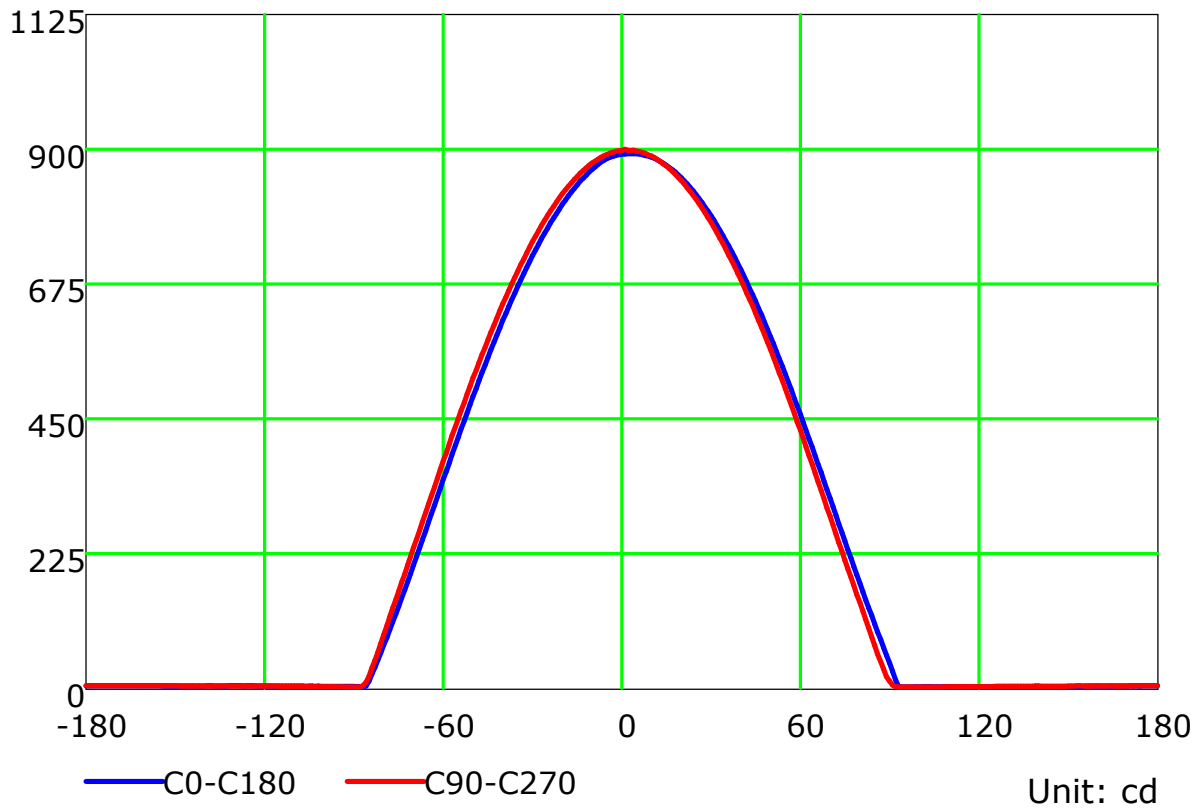
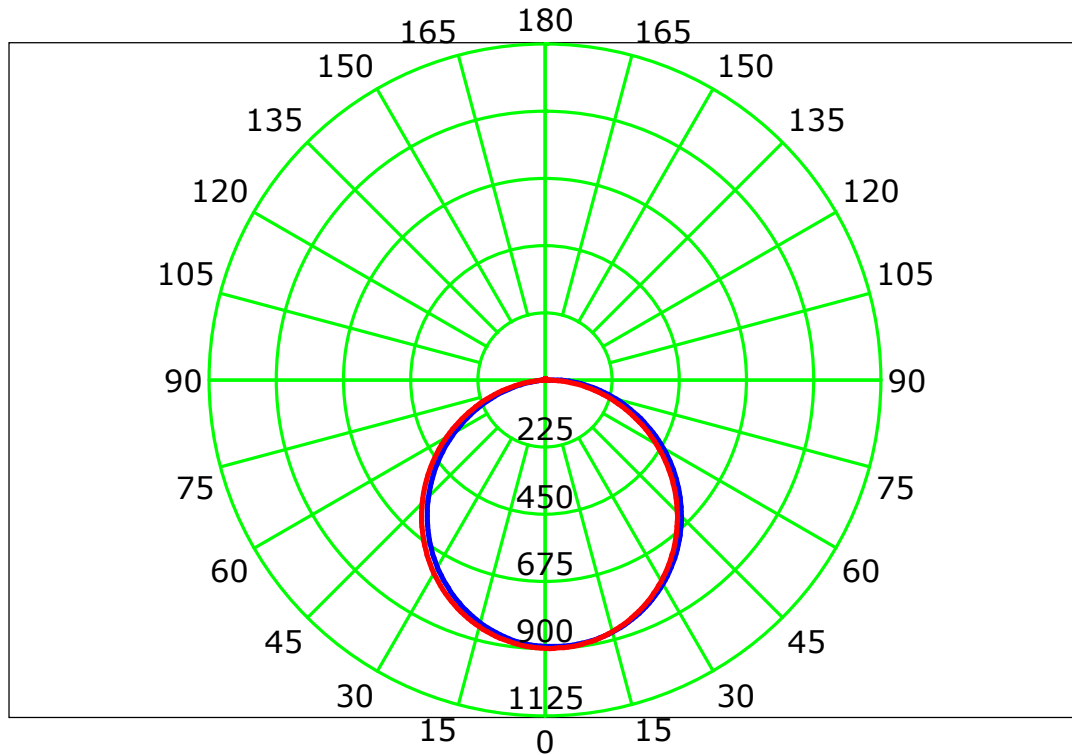
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

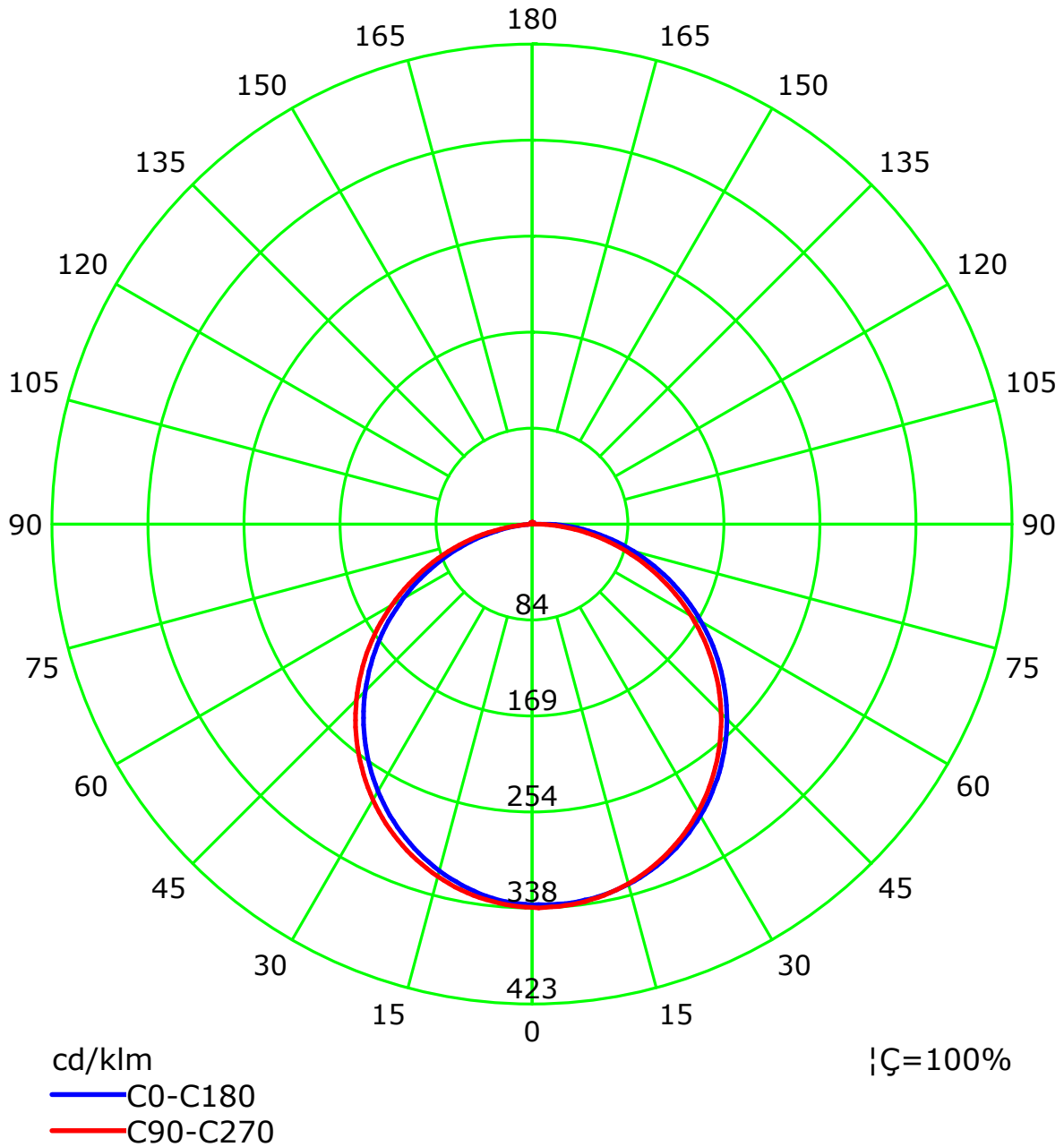
Luminous Intensity Distribution Curve



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)



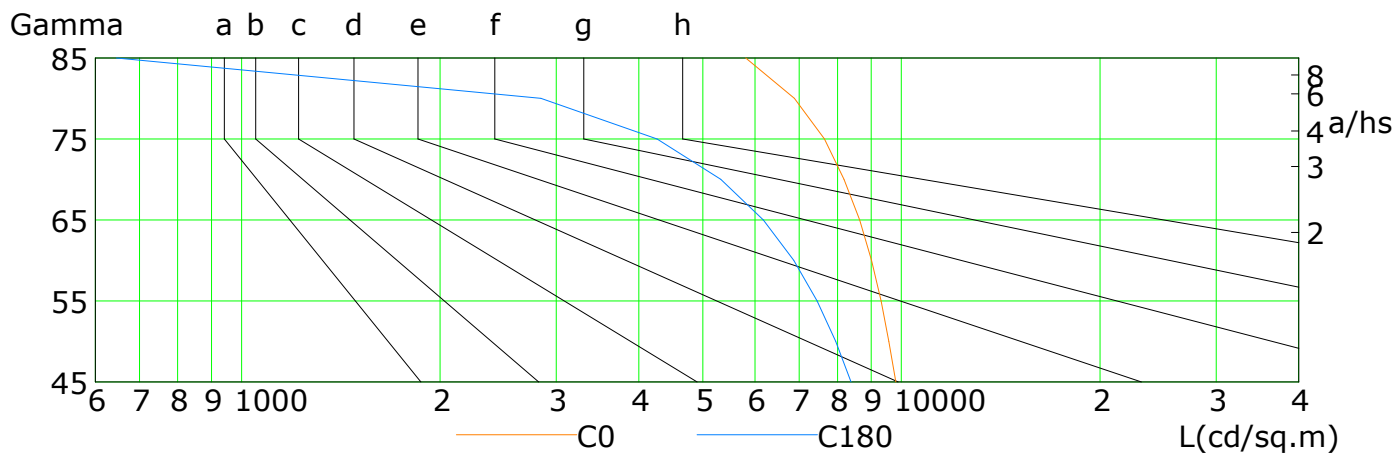
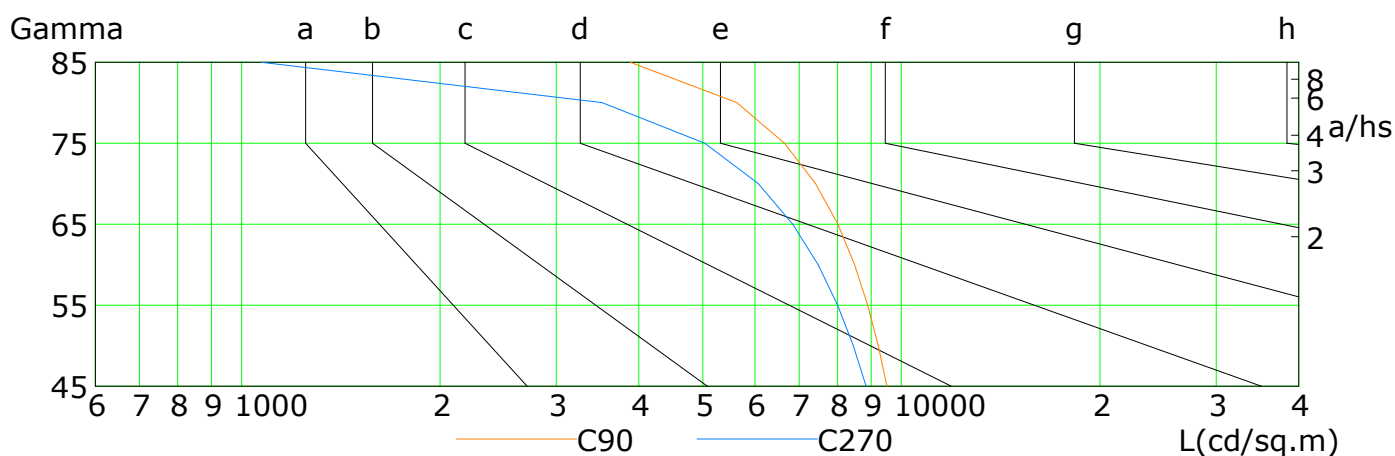
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

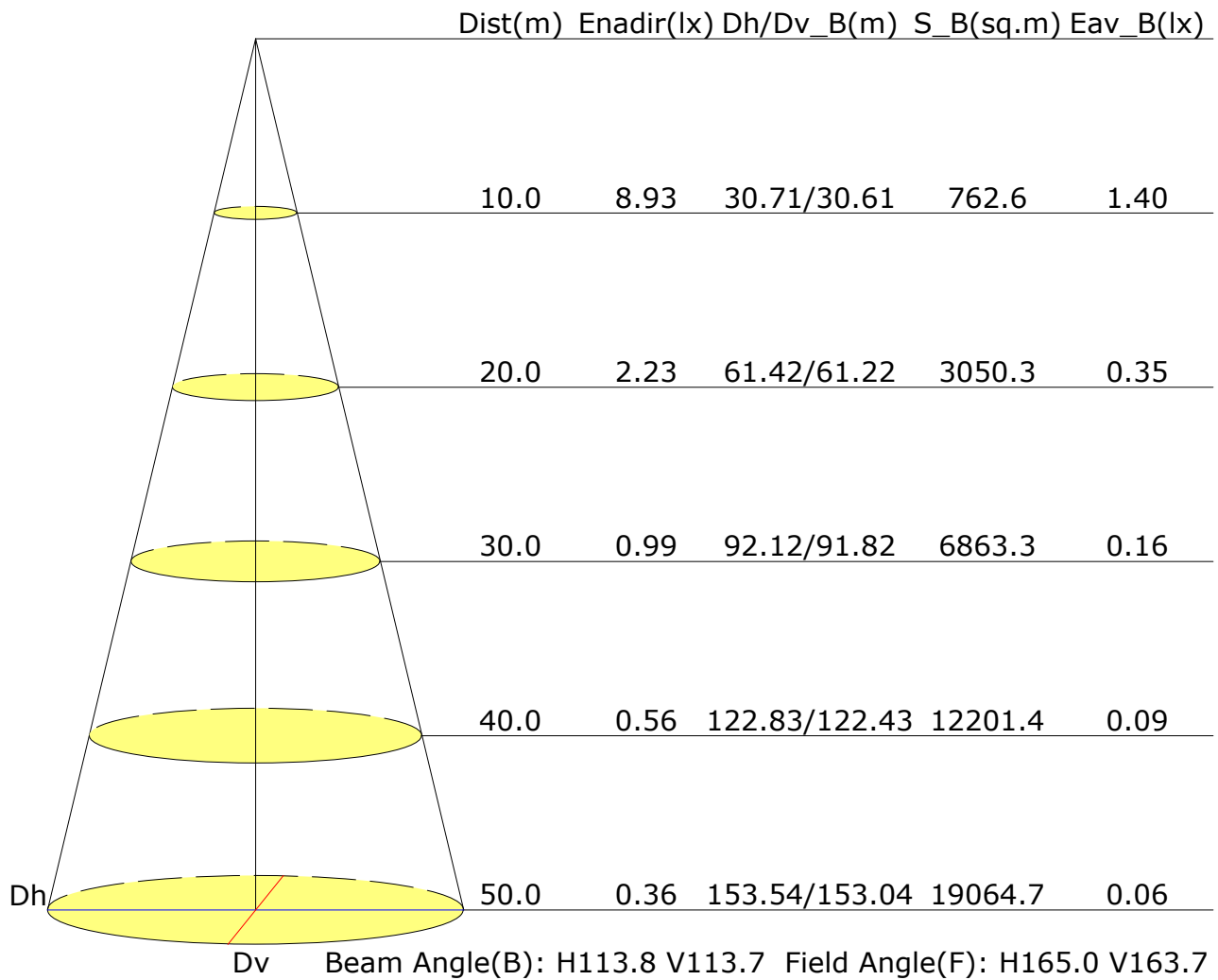


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	9803	9567	9321	9008	8646	8186	7647	6887	5806
C90	9505	9223	8892	8492	8010	7413	6650	5631	3880
C180	8387	7951	7449	6872	6176	5324	4262	2841	646
C270	8836	8454	8002	7480	6843	6068	5035	3519	1071

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	20.5	21.9	20.8	22.1	22.4	20.0	21.4	20.4	21.7	21.9
3H	22.2	23.5	22.5	23.7	24.0	21.5	22.8	21.9	23.1	23.4
4H	22.9	24.1	23.3	24.4	24.7	22.1	23.3	22.5	23.6	23.9
6H	23.5	24.6	23.9	25.0	25.3	22.5	23.7	22.9	24.0	24.3
8H	23.8	24.8	24.1	25.2	25.5	22.6	23.7	23.0	24.1	24.4
12H	23.9	25.0	24.3	25.3	25.7	22.7	23.7	23.1	24.1	24.5
X=4H Y=2H	21.1	22.3	21.5	22.6	22.9	20.7	21.9	21.1	22.3	22.6
3H	23.0	24.0	23.4	24.4	24.7	22.4	23.5	22.8	23.8	24.2
4H	23.9	24.8	24.3	25.2	25.6	23.2	24.1	23.6	24.5	24.9
6H	24.6	25.4	25.0	25.8	26.3	23.7	24.5	24.1	24.9	25.3
8H	24.9	25.7	25.4	26.1	26.5	23.9	24.6	24.3	25.0	25.5
12H	25.2	25.8	25.6	26.3	26.7	24.0	24.6	24.4	25.1	25.5
X=8H Y=4H	24.1	24.9	24.6	25.3	25.8	23.5	24.3	24.0	24.7	25.1
6H	25.0	25.6	25.5	26.1	26.6	24.2	24.8	24.7	25.3	25.7
8H	25.4	26.0	25.9	26.4	27.0	24.4	25.0	24.9	25.5	26.0
12H	25.8	26.3	26.3	26.7	27.3	24.6	25.1	25.1	25.6	26.1
X=12H Y=4H	24.1	24.8	24.6	25.3	25.7	23.5	24.2	24.0	24.7	25.1
6H	25.1	25.6	25.6	26.1	26.6	24.3	24.8	24.8	25.3	25.8
8H	25.5	26.0	26.0	26.5	27.0	24.6	25.0	25.1	25.5	26.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.1					+0.2/-0.2				
S=1.5H	+0.3/-0.4					+0.4/-0.6				
S=2.0H	+0.5/-0.7					+0.5/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2656lm ($8\log(F/F_0) = 3.4$).

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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	0.55	0.66	0.73	0.78	0.86	0.91	0.95	0.99	1.02	
	0.30		0.47	0.58	0.66	0.71	0.79	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		0.46	0.57	0.64	0.69	0.77	0.83	0.86	0.92	0.95	
	0.20		0.41	0.51	0.59	0.64	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	0.55	0.62	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:31W 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	0.98	0.81	0.69	0.60	0.48	0.43	0.34	0.26	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.72	0.62	0.54	0.49	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.77	0.66	0.57	0.46	0.38	0.32	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	0.61	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
Rating:31W 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	0.21	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	0.21	0.22	
	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	0.12	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:31W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												