

Report No.: 1

Test Time: 11.12.2019 15:49

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 8X18LED 0,4A 52W 3000K opal (50)

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 50

Voltage: 221.2 V

Current: 0.242 A

Power: 52.81 W

Power Factor: 0.982

Photometric Results

CIE Class: Direct

Measurement Flux: 5228.6 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 5228.6 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.8, 164.5, 164.6, 164.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.9, 112.6, 112.7, 113.1

Luminaire Efficacy Rating (LER): 99.06

Central Intensity: 1785.81 cd

Max. Intensity: 1791.83 cd

Pos of Max. Intensity: H315 V1

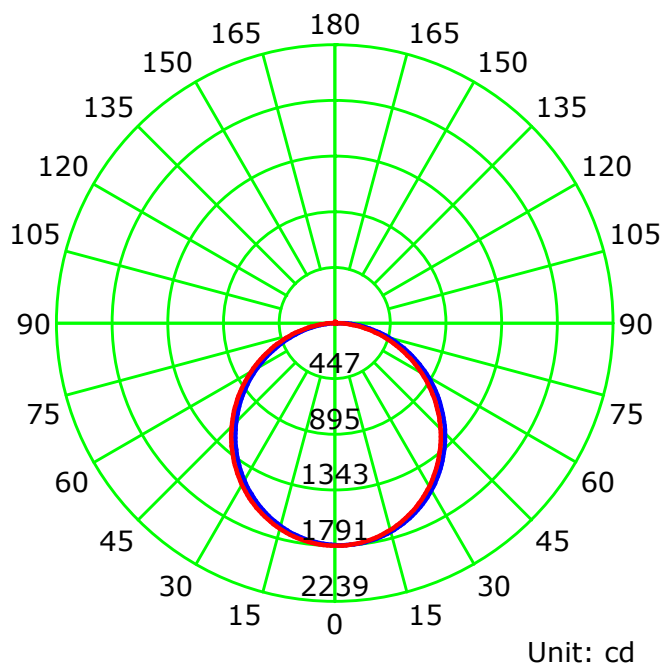
S/MH(C0/C180): 1.25

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

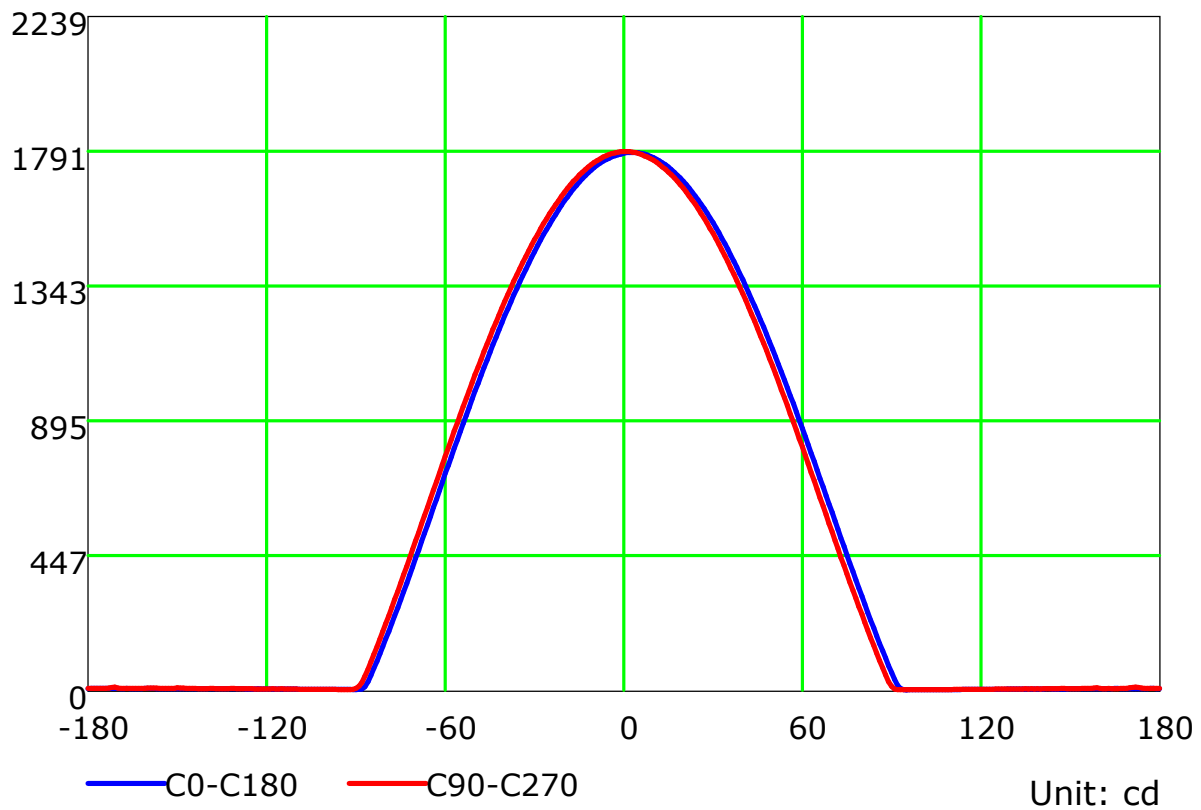
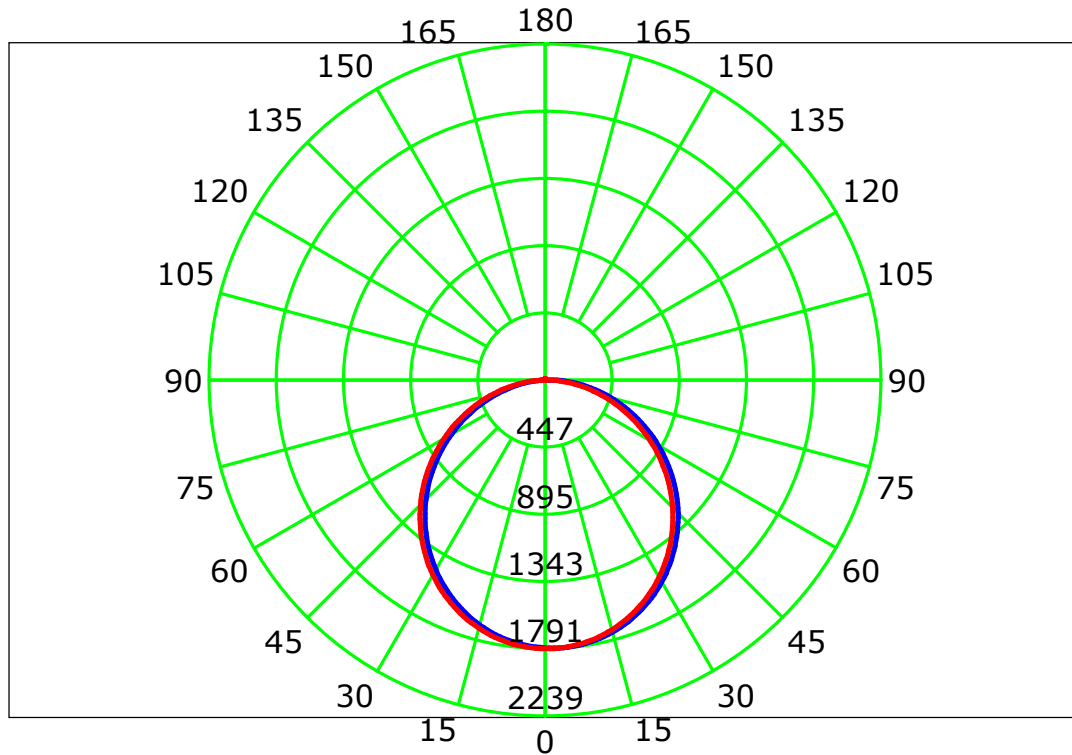
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

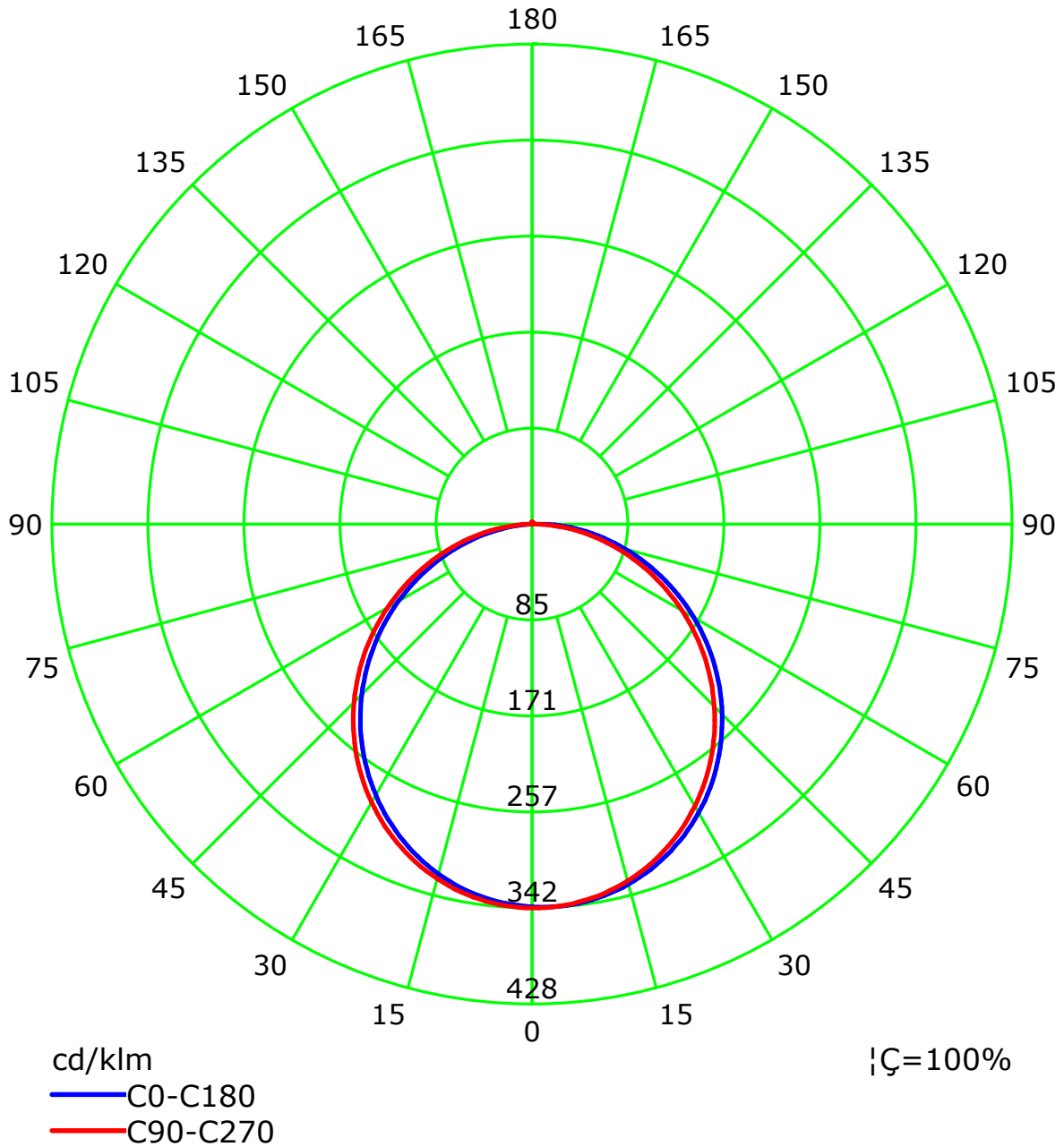
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

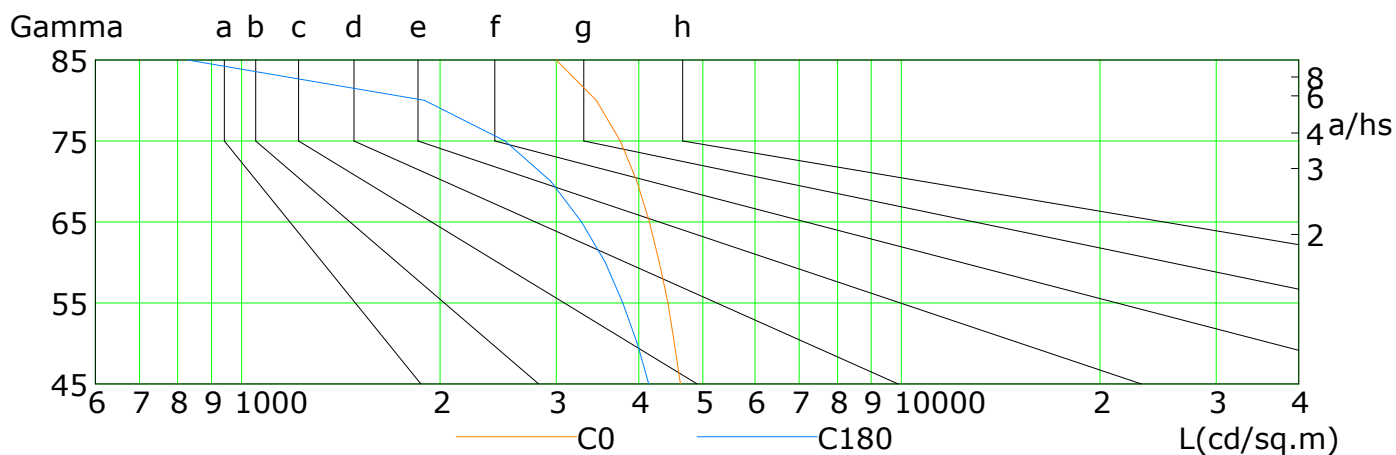
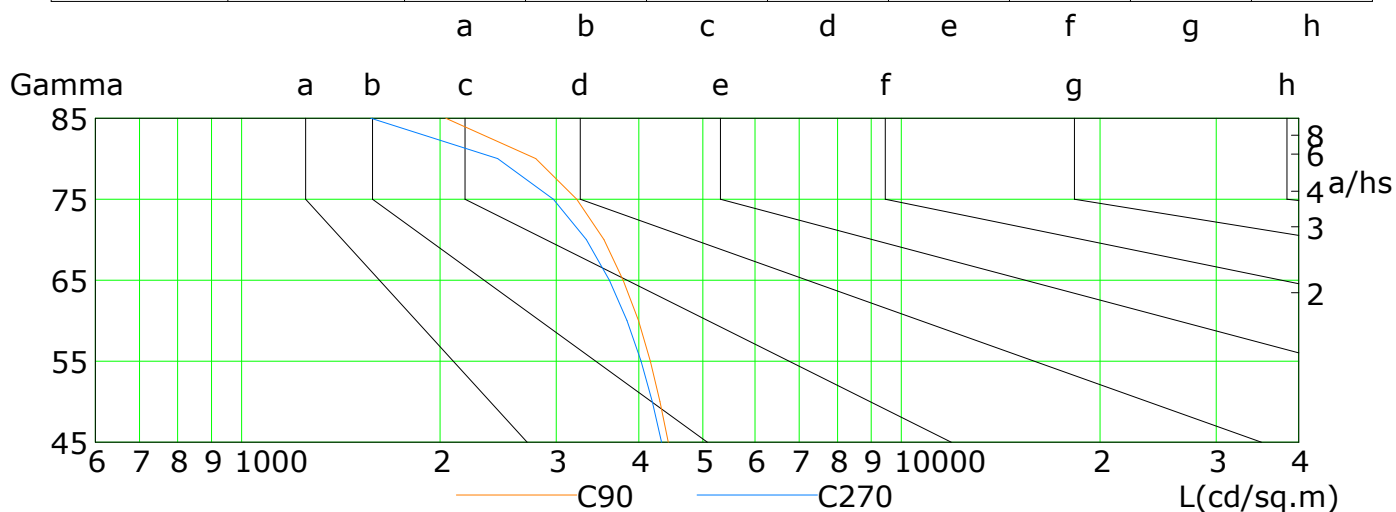
Inspector:

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

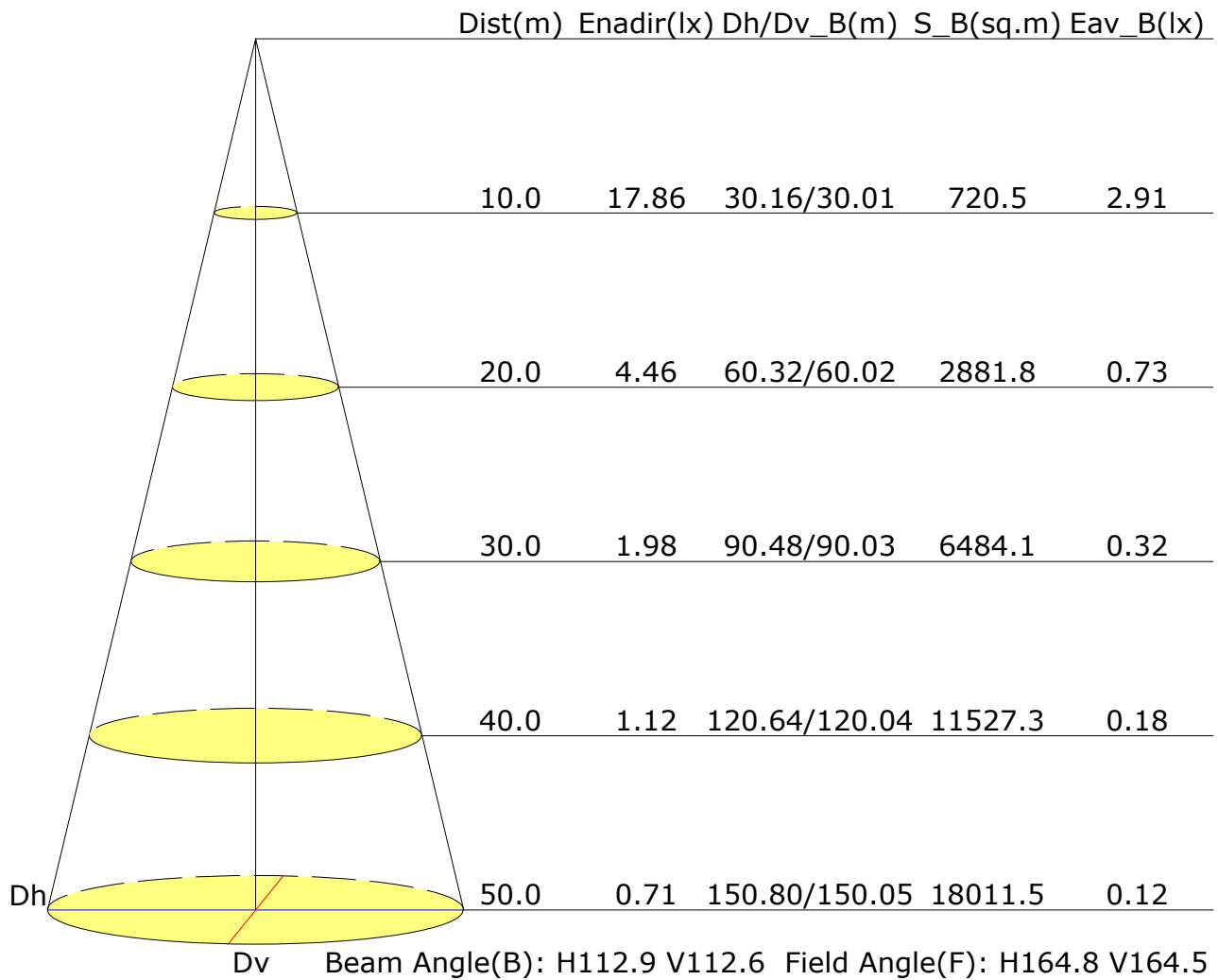


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4625	4529	4426	4296	4150	3972	3748	3446	2998
C90	4431	4307	4165	3993	3787	3540	3219	2791	2041
C180	4142	3976	3784	3558	3277	2943	2507	1893	828
C270	4332	4194	4032	3838	3610	3331	2969	2444	1571

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	17.8	19.2	18.1	19.5	19.7	17.5	18.9	17.8	19.1	19.4
3H	19.5	20.8	19.8	21.0	21.3	19.0	20.3	19.3	20.6	20.9
4H	20.2	21.4	20.6	21.7	22.0	19.6	20.8	20.0	21.1	21.4
6H	20.8	21.9	21.2	22.3	22.6	20.1	21.2	20.5	21.5	21.9
8H	21.0	22.1	21.4	22.5	22.8	20.2	21.3	20.6	21.6	22.0
12H	21.2	22.3	21.6	22.6	23.0	20.3	21.4	20.7	21.7	22.1
X=4H Y=2H	18.4	19.6	18.8	19.9	20.2	18.2	19.4	18.5	19.7	20.0
3H	20.3	21.3	20.7	21.7	22.0	19.9	20.9	20.3	21.3	21.6
4H	21.2	22.1	21.6	22.5	22.9	20.6	21.6	21.1	22.0	22.3
6H	21.9	22.7	22.3	23.1	23.5	21.2	22.1	21.7	22.5	22.9
8H	22.2	23.0	22.6	23.4	23.8	21.4	22.2	21.9	22.6	23.0
12H	22.4	23.1	22.9	23.5	24.0	21.6	22.2	22.0	22.7	23.1
X=8H Y=4H	21.4	22.2	21.9	22.6	23.1	21.0	21.8	21.4	22.2	22.6
6H	22.3	22.9	22.8	23.4	23.9	21.7	22.3	22.2	22.8	23.3
8H	22.7	23.3	23.2	23.7	24.2	22.0	22.5	22.5	23.0	23.5
12H	23.0	23.5	23.5	24.0	24.5	22.2	22.7	22.7	23.2	23.7
X=12H Y=4H	21.5	22.2	21.9	22.6	23.0	21.0	21.7	21.5	22.1	22.6
6H	22.4	22.9	22.9	23.4	23.9	21.8	22.4	22.3	22.8	23.3
8H	22.8	23.3	23.3	23.8	24.3	22.1	22.6	22.6	23.1	23.6
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/-0.5				
S=2.0H	+0.5/-0.7					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 5229lm ($8\log(F/F_0) = 5.7$).

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	1.00	1.03	
	0.30		0.48	0.58	0.66	0.71	0.80	0.85	0.90	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.74	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	0.95	0.98	
	0.30		0.47	0.57	0.64	0.70	0.77	0.83	0.87	0.92	0.95	
	0.20		0.41	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.92	
0.30	0.50	0.20	0.52	0.62	0.68	0.73	0.80	0.84	0.87	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		0.41	0.51	0.58	0.64	0.71	0.77	0.81	0.86	0.89	
0.00	0.00	0.00	0.39	0.48	0.55	0.60	0.68	0.73	0.77	0.81	0.85	
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	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	0.27	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.72	0.62	0.54	0.49	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.78	0.66	0.58	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	0.54	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: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	0.17	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:53W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												