

Report No.:

Test Time: 15.11.2019 21:48

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 40LED 0,3A 38W 4000K opal Hygiene

Number of Lamps: 1

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 80

Voltage: 221.3 V

Current: 0.171 A

Power: 36.71 W

Power Factor: 0.968

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 4258.7 lm

Measurement Flux: 4258.7 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.7, 164.5, 164.5, 164.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.1, 110.9, 111.0, 111.0

Luminaire Efficacy Rating (LER): 116.06

Central Intensity: 1484.07 cd

Max. Intensity: 1484.65 cd

Pos of Max. Intensity: H90 V2

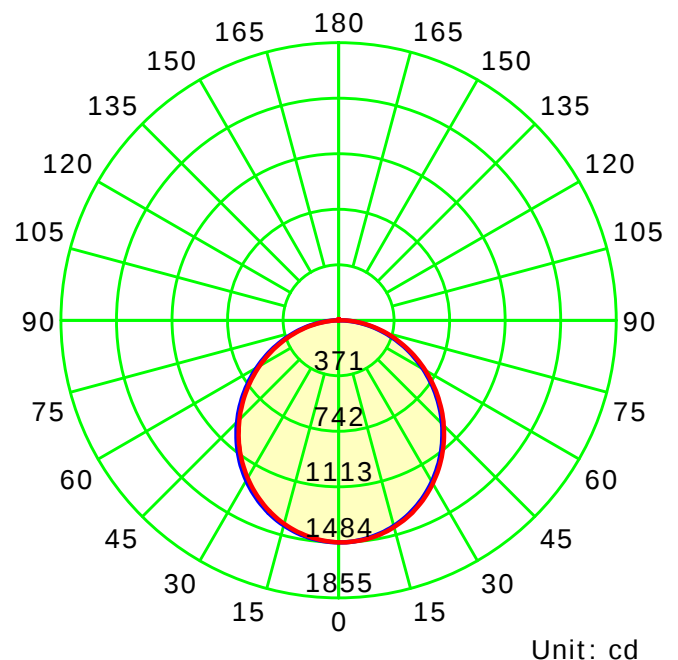
S/MH(C0/C180): 1.24

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

Gamma Plane (°):0.0-180.0:1.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

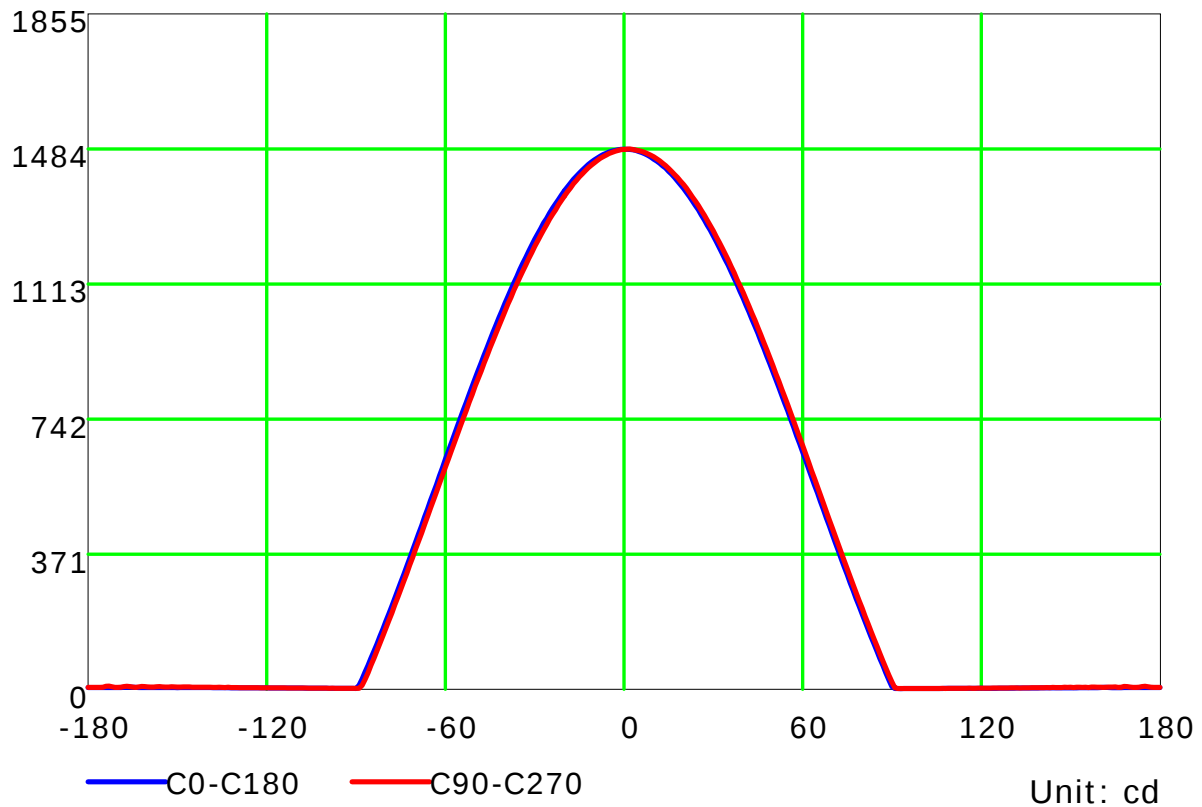
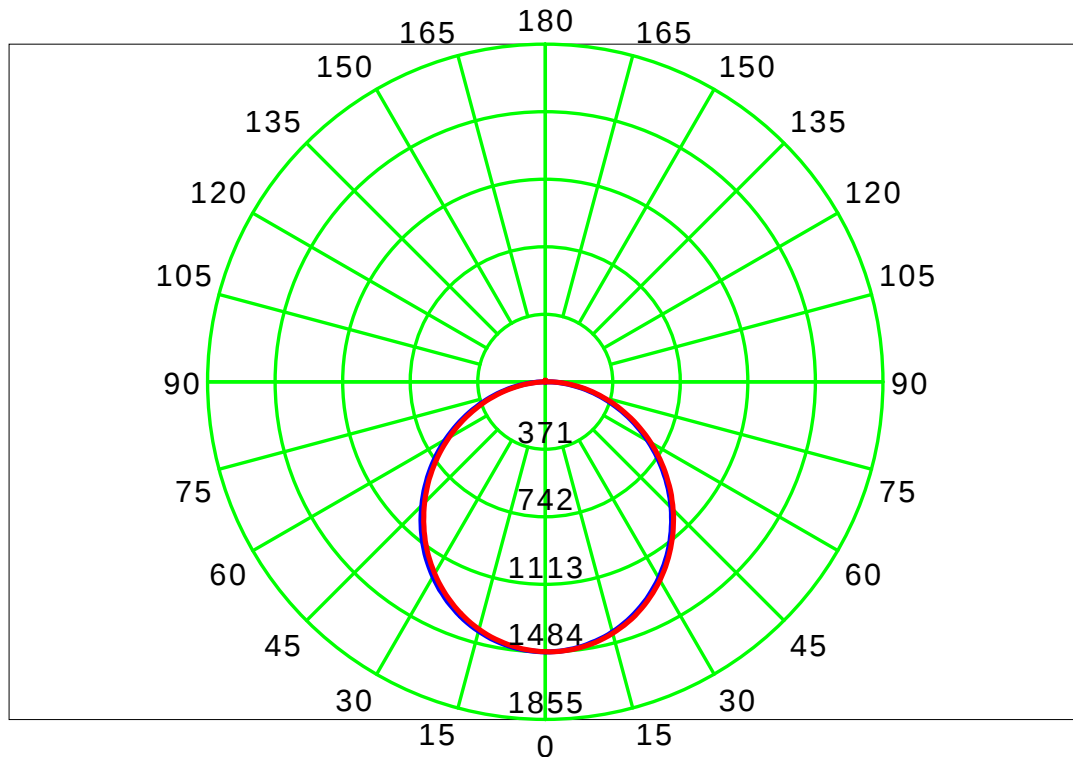
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

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Gamma Plane (°): 0.0-180.0: 1.0

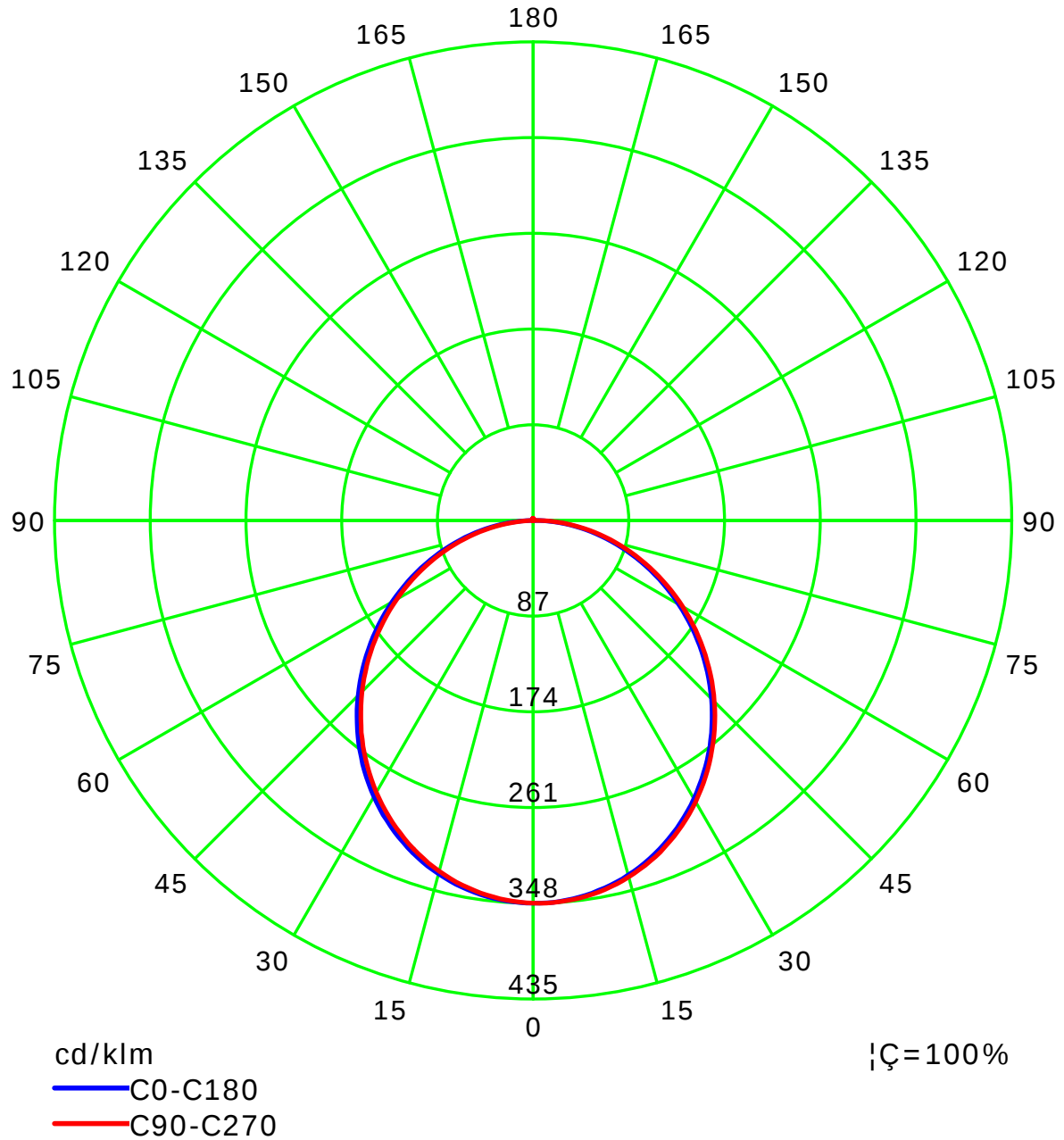
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

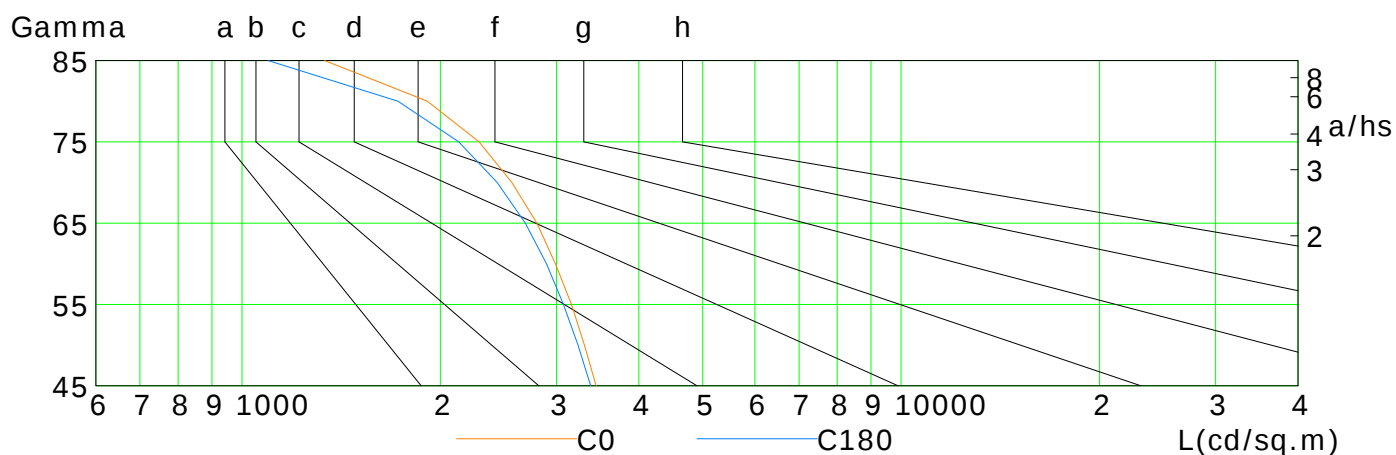
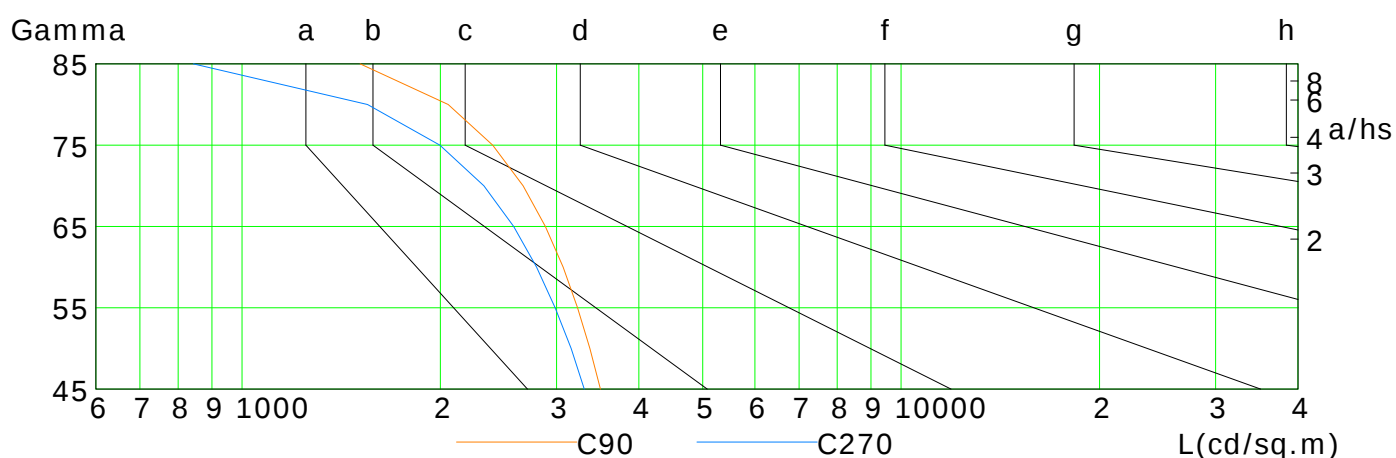
Luminous Intensity Distribution Curve(cd / klm)



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	3444	3307	3162	2989	2801	2567	2289	1911	1335
C90	3497	3371	3229	3070	2885	2670	2401	2055	1511
C180	3380	3235	3074	2897	2691	2438	2132	1724	1095
C270	3305	3157	2986	2798	2583	2328	1996	1550	844

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

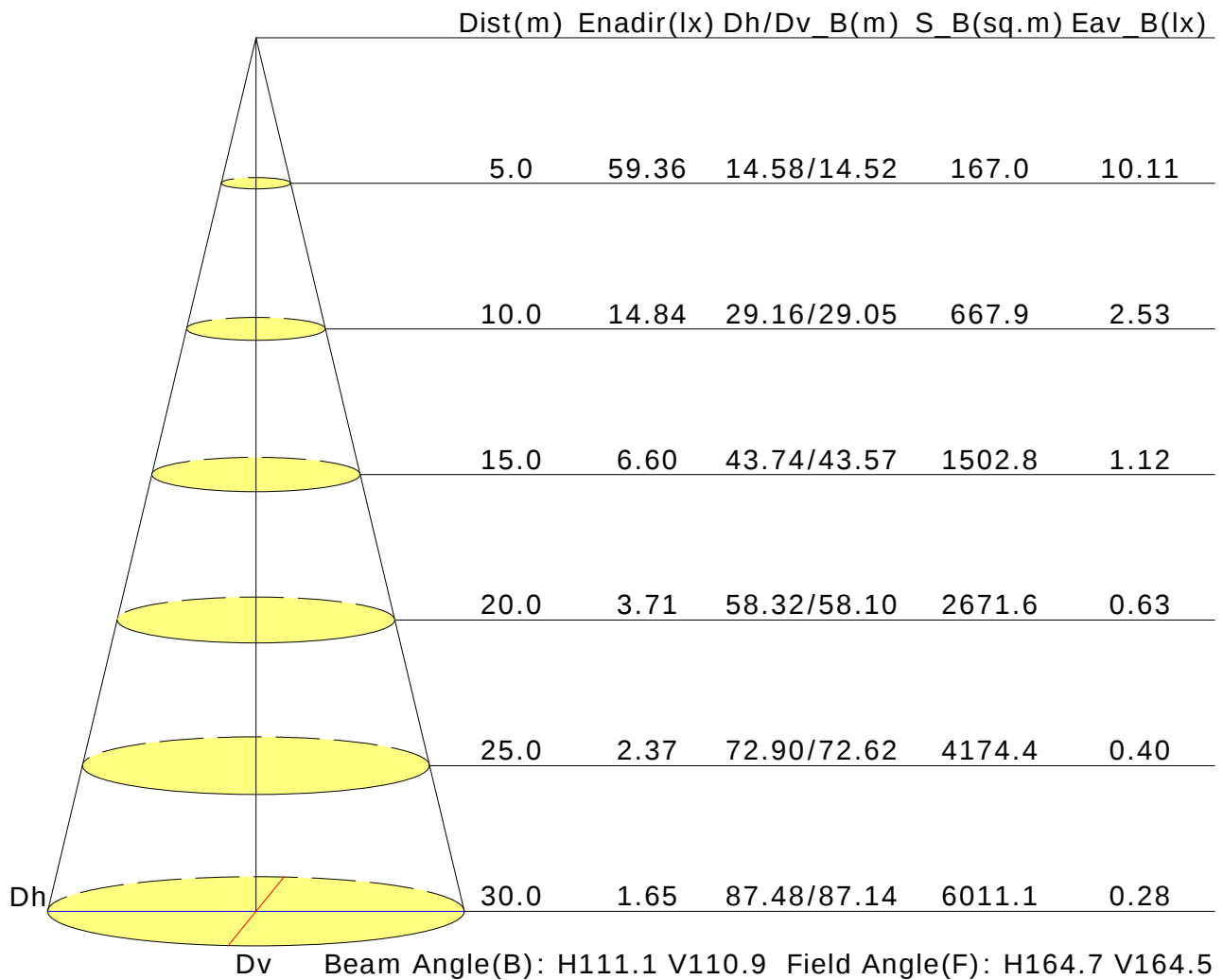
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

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	16.4	17.8	16.7	18.1	18.3	16.4	17.7	16.7	18.0	18.2
3H	17.9	19.2	18.3	19.5	19.8	17.8	19.1	18.2	19.4	19.7
4H	18.5	19.7	18.9	20.0	20.4	18.4	19.6	18.8	19.9	20.3
6H	19.0	20.1	19.4	20.4	20.8	18.9	20.0	19.3	20.3	20.7
8H	19.2	20.2	19.5	20.6	20.9	19.0	20.1	19.4	20.4	20.8
12H	19.2	20.3	19.6	20.6	21.0	19.1	20.1	19.5	20.5	20.8
X=4H Y=2H	17.0	18.2	17.4	18.5	18.8	17.0	18.2	17.3	18.5	18.8
3H	18.7	19.7	19.1	20.1	20.4	18.6	19.7	19.0	20.0	20.4
4H	19.4	20.4	19.9	20.7	21.1	19.4	20.3	19.8	20.7	21.1
6H	20.0	20.9	20.5	21.2	21.7	19.9	20.7	20.4	21.1	21.6
8H	20.2	21.0	20.7	21.4	21.8	20.1	20.9	20.6	21.3	21.7
12H	20.4	21.1	20.8	21.5	21.9	20.2	20.9	20.7	21.3	21.8
X=8H Y=4H	19.7	20.5	20.2	20.9	21.3	19.6	20.4	20.1	20.8	21.2
6H	20.4	21.0	20.9	21.5	22.0	20.3	20.9	20.8	21.4	21.9
8H	20.7	21.2	21.2	21.7	22.2	20.6	21.1	21.1	21.6	22.1
12H	20.9	21.4	21.4	21.9	22.4	20.8	21.2	21.3	21.7	22.2
X=12H Y=4H	19.7	20.4	20.2	20.8	21.3	19.7	20.3	20.1	20.8	21.2
6H	20.5	21.0	21.0	21.5	22.0	20.4	20.9	20.9	21.4	21.9
8H	20.8	21.3	21.3	21.7	22.3	20.7	21.2	21.2	21.6	22.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.5					+0.4/-0.5				
S=2.0H	+0.5/-0.8					+0.5/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 4259lm ($8\log(F/F_0) = 5.0$).

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:

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	0.92	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	0.93	
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	0.72	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	0.12	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												