

Report No.: 1

Test Time: 28.10.2019 22:26

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 75 40LED 50W 4000K opal

Luminous Length (mm): 1275

Luminous Width (mm): 80

Luminous Height (mm): 75

Voltage: 221.1 V

Current: 0.227 A

Power: 49.50 W

Power Factor: 0.984

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 5513.2 lm

Downward Ratio: 85%

Total Rated Lamp Lumens: 5513.2 lm

Efficiency: 100%

Upward Ratio: 15%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 165.7, 277.7, 223.9, 226.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.5, 137.9, 124.2, 124.7

Luminaire Efficacy Rating (LER): 111.43

Central Intensity: 1366.99 cd

Max. Intensity: 1371.31 cd

Pos of Max. Intensity: H135 V1

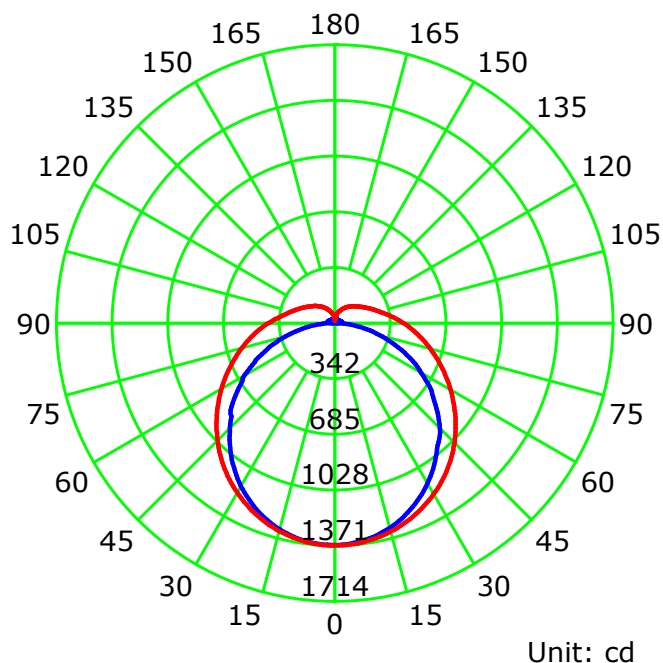
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.32

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

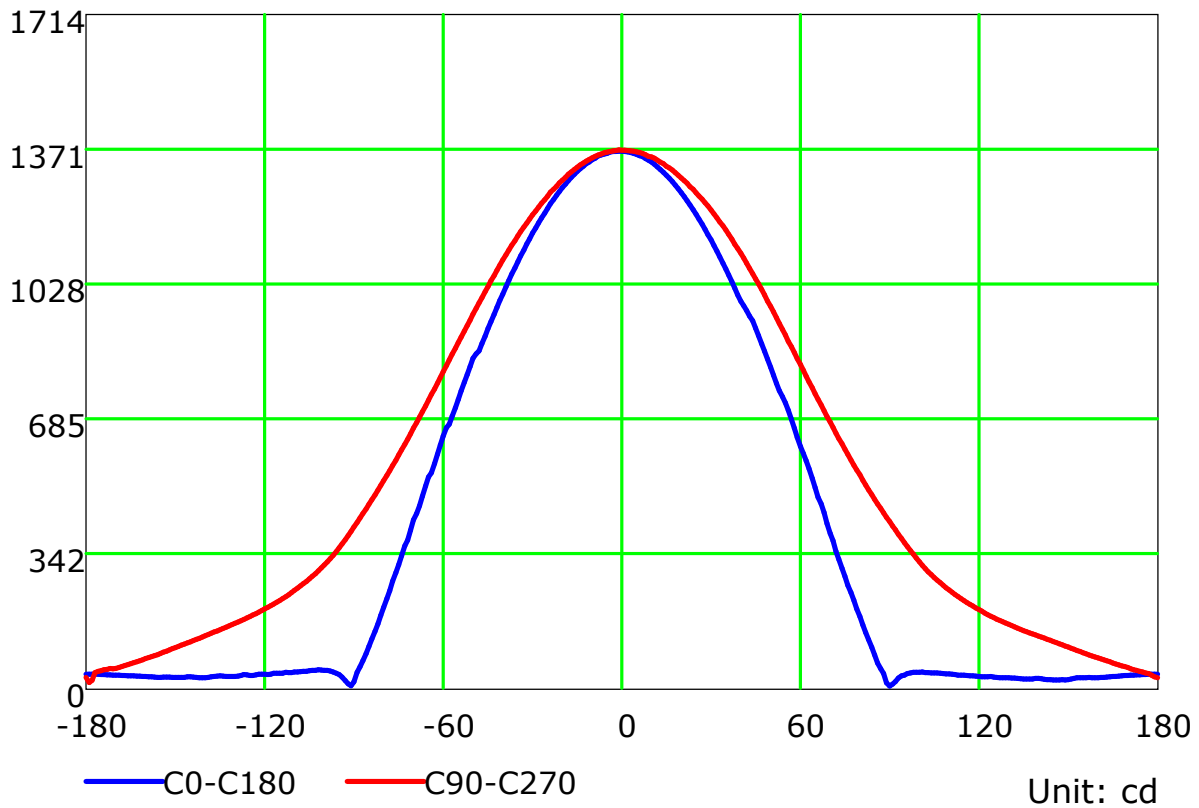
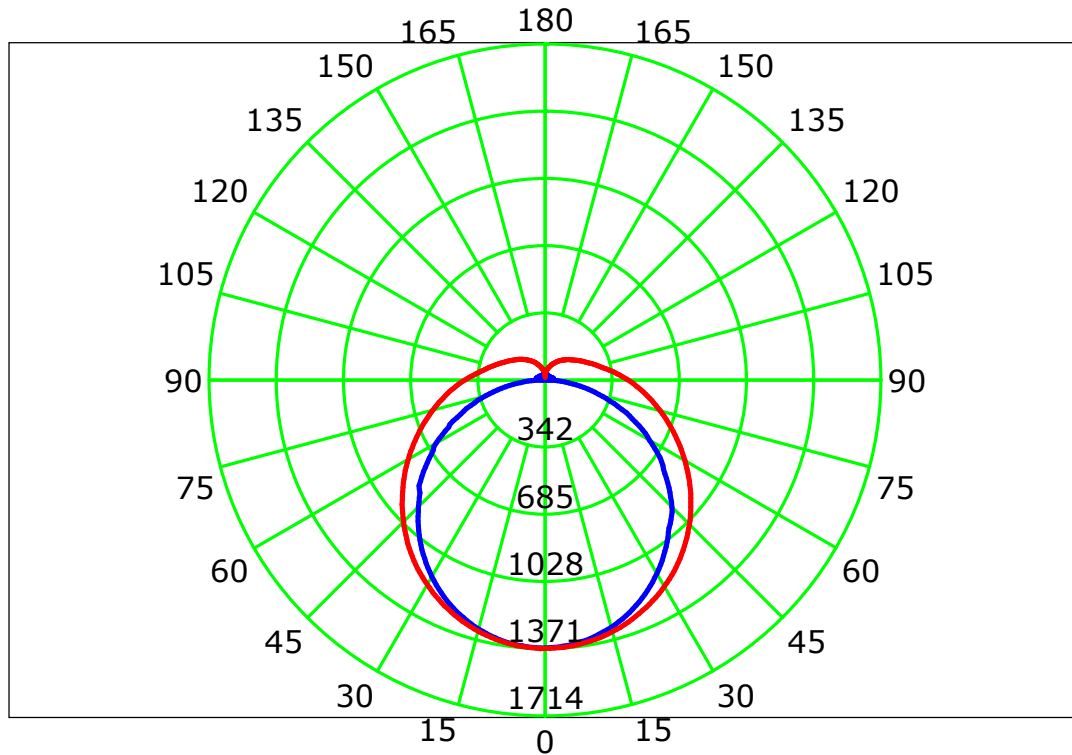
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

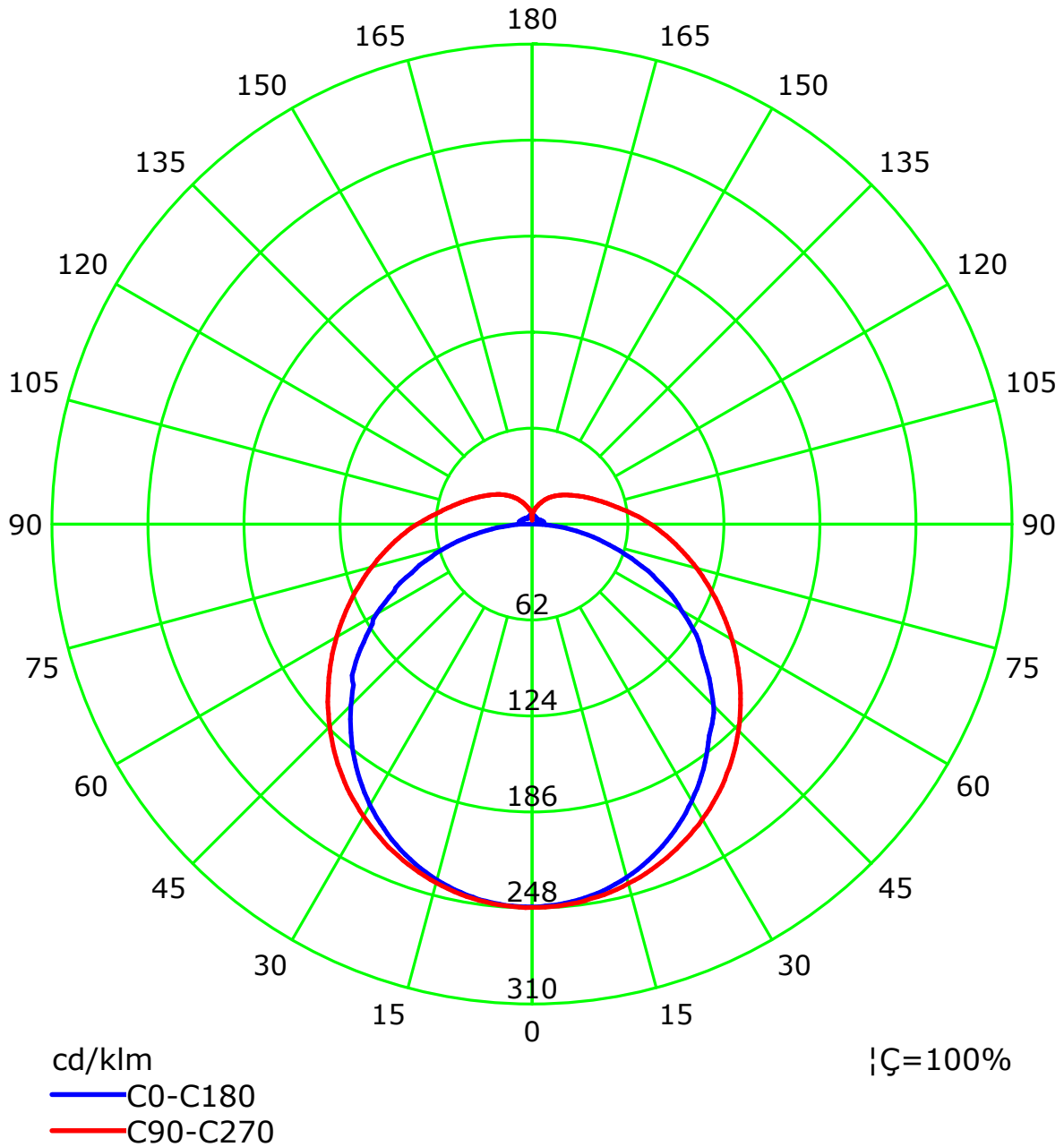
Luminous Intensity Distribution Curve



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)



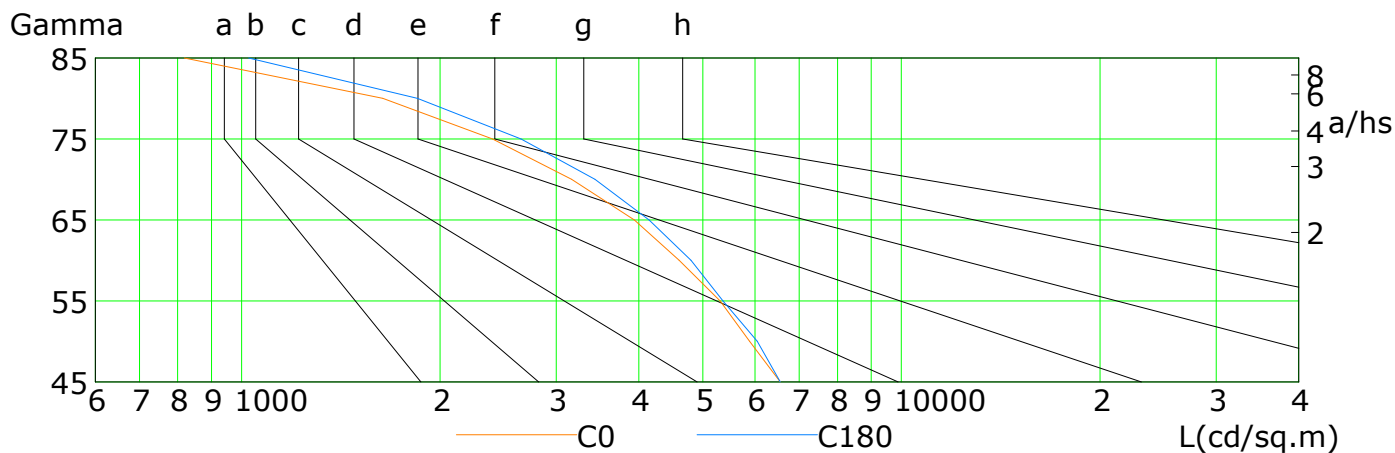
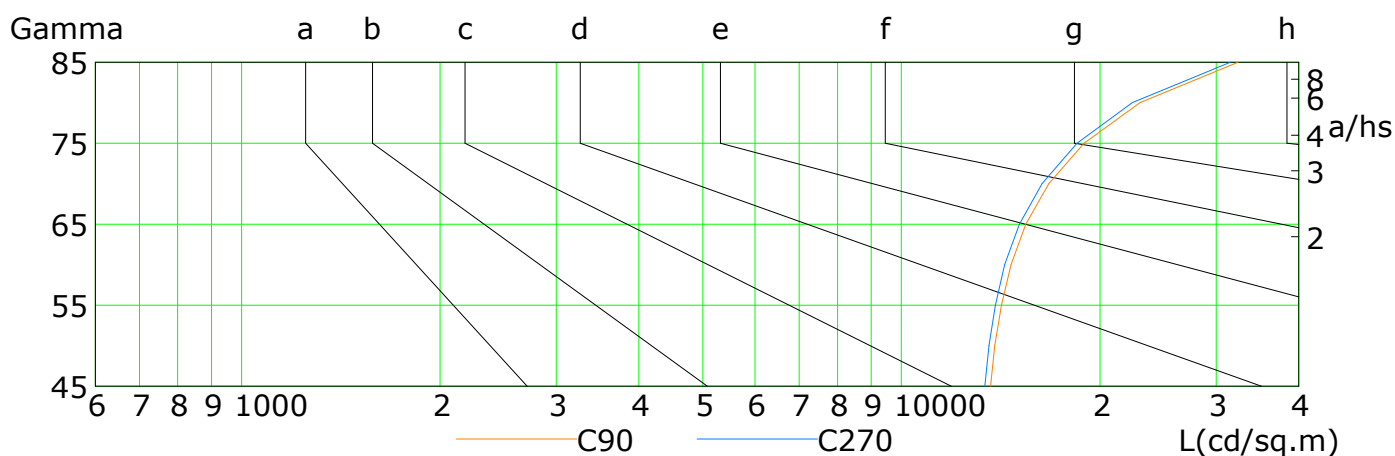
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

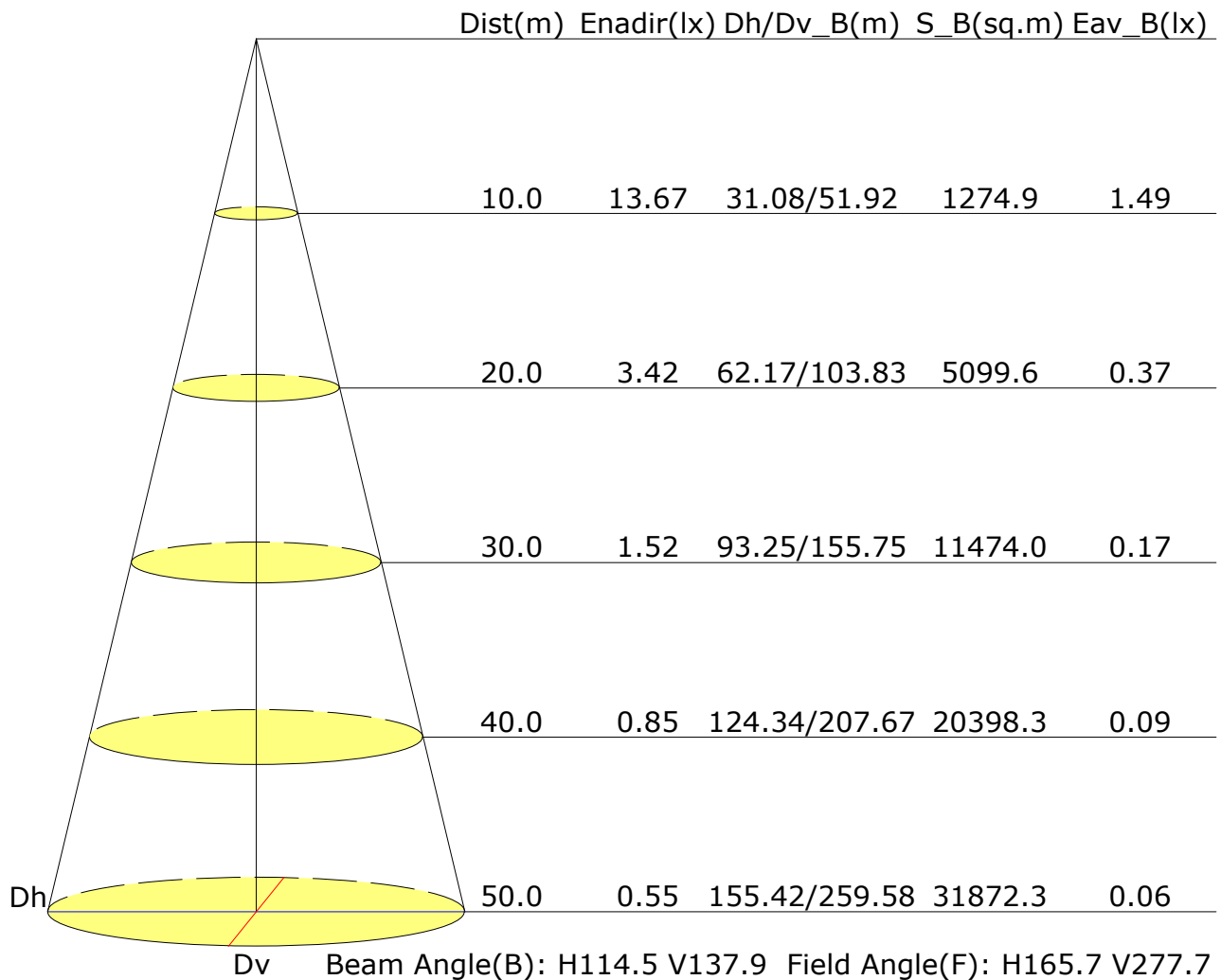


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	6557	5884	5310	4605	3937	3165	2401	1636	819
C90	13647	13849	14178	14667	15444	16731	18905	22997	32361
C180	6552	6049	5368	4798	4148	3434	2651	1846	1026
C270	13386	13572	13876	14343	15098	16338	18450	22380	31507

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	17.3	18.6	17.8	19.1	19.6	19.9	21.2	20.4	21.7	22.2
3H	18.5	19.6	19.0	20.1	20.7	22.3	23.4	22.8	23.9	24.5
4H	18.9	19.9	19.4	20.5	21.1	23.5	24.6	24.1	25.1	25.7
6H	19.1	20.1	19.7	20.7	21.3	24.8	25.9	25.4	26.4	27.0
8H	19.1	20.1	19.7	20.7	21.3	25.5	26.5	26.1	27.1	27.7
12H	19.2	20.1	19.7	20.7	21.3	26.3	27.3	26.9	27.8	28.5
X=4H Y=2H	18.2	19.3	18.7	19.8	20.4	20.3	21.3	20.8	21.9	22.5
3H	19.5	20.5	20.1	21.0	21.7	22.7	23.7	23.3	24.3	24.9
4H	20.0	20.9	20.6	21.5	22.2	24.1	25.0	24.7	25.6	26.3
6H	20.4	21.1	21.0	21.8	22.5	25.6	26.4	26.2	27.0	27.7
8H	20.5	21.2	21.1	21.8	22.5	26.4	27.1	27.1	27.8	28.5
12H	20.5	21.2	21.2	21.8	22.6	27.3	27.9	28.0	28.6	29.3
X=8H Y=4H	20.7	21.4	21.3	22.0	22.7	24.2	24.9	24.9	25.6	26.3
6H	21.2	21.8	21.9	22.4	23.2	25.9	26.5	26.6	27.1	27.9
8H	21.4	21.9	22.1	22.6	23.4	26.8	27.3	27.5	28.0	28.8
12H	21.5	21.9	22.2	22.6	23.4	27.9	28.3	28.6	29.0	29.8
X=12H Y=4H	20.8	21.5	21.5	22.1	22.9	24.2	24.8	24.9	25.5	26.2
6H	21.5	22.0	22.2	22.7	23.5	25.9	26.4	26.6	27.1	27.9
8H	21.7	22.2	22.4	22.9	23.7	26.9	27.3	27.6	28.0	28.8
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.3				
S=1.5H	+0.3/-0.5					+0.5/-0.5				
S=2.0H	+0.5/-1.0					+0.9/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 5513lm ($8\log(F/F_0) = 5.9$).

C Plane (°):0.0-360.0: 22.5
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 Test Type: TYPE C
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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 = 1.50									
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	0.52	0.60	0.67	0.72	0.79	0.84	0.87	0.92	0.95	
	0.30		0.44	0.52	0.59	0.64	0.72	0.77	0.81	0.87	0.91	
	0.20		0.38	0.45	0.53	0.58	0.66	0.72	0.77	0.83	0.87	
0.50	0.50	0.20	0.49	0.56	0.62	0.67	0.73	0.78	0.81	0.85	0.88	
	0.30		0.42	0.49	0.56	0.61	0.68	0.73	0.76	0.81	0.85	
	0.20		0.37	0.44	0.51	0.56	0.63	0.68	0.72	0.78	0.82	
0.30	0.50	0.20	0.46	0.52	0.58	0.62	0.68	0.72	0.75	0.79	0.82	
	0.30		0.40	0.46	0.53	0.57	0.64	0.68	0.71	0.76	0.79	
	0.20		0.36	0.42	0.48	0.53	0.60	0.65	0.68	0.73	0.77	
0.00	0.00	0.00	0.32	0.38	0.44	0.48	0.54	0.58	0.61	0.66	0.69	
Rating:50W 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 = 1.50									
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	0.99	0.86	0.74	0.65	0.53	0.45	0.39	0.32	0.26	
	0.30		0.83	0.73	0.64	0.58	0.48	0.42	0.37	0.30	0.25	
	0.20		0.71	0.64	0.57	0.52	0.44	0.38	0.34	0.28	0.24	
0.50	0.50	0.20	0.93	0.80	0.69	0.61	0.50	0.45	0.37	0.29	0.24	
	0.30		0.79	0.69	0.61	0.55	0.46	0.39	0.34	0.28	0.23	
	0.20		0.68	0.61	0.54	0.49	0.42	0.36	0.32	0.26	0.22	
0.30	0.50	0.20	0.87	0.75	0.64	0.57	0.46	0.39	0.34	0.27	0.23	
	0.30		0.74	0.66	0.57	0.51	0.43	0.37	0.32	0.26	0.22	
	0.20		0.65	0.59	0.52	0.47	0.40	0.35	0.31	0.25	0.21	
0.00	0.00	0.00	0.53	0.48	0.42	0.38	0.32	0.27	0.24	0.20	0.17	
Rating:50W 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 = 1.50									
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	0.31	0.32	0.33	0.33	0.34	0.35	0.35	0.36	0.36	
	0.30		0.24	0.25	0.27	0.27	0.29	0.30	0.31	0.32	0.33	
	0.20		0.19	0.20	0.22	0.23	0.25	0.26	0.27	0.29	0.30	
0.50	0.50	0.20	0.29	0.31	0.32	0.32	0.33	0.33	0.34	0.34	0.34	
	0.30		0.23	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	
	0.20		0.19	0.20	0.21	0.22	0.24	0.25	0.26	0.28	0.29	
0.30	0.50	0.20	0.29	0.30	0.31	0.31	0.32	0.32	0.32	0.33	0.33	
	0.30		0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	
	0.20		0.19	0.20	0.21	0.22	0.24	0.25	0.26	0.27	0.28	
0.00	0.00	0.00	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	
Rating:50W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												