

Report No.:

Test Time: 22.06.2020 22:50

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60/1000 30W 4000K frozen 1-10

Luminous Length (mm): 950

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.6 V

Current: 0.142 A

Power: 29.96 W

Power Factor: 0.946

Photometric Results

CIE Class: Direct

Measurement Flux: 3807.9 lm

Total Rated Lamp Lumens: 3807.9 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 148.5, 134.3, 141.9, 142.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 98.9, 88.5, 93.6, 94.2

Luminaire Efficacy Rating (LER): 127.15

Central Intensity: 1712.13 cd

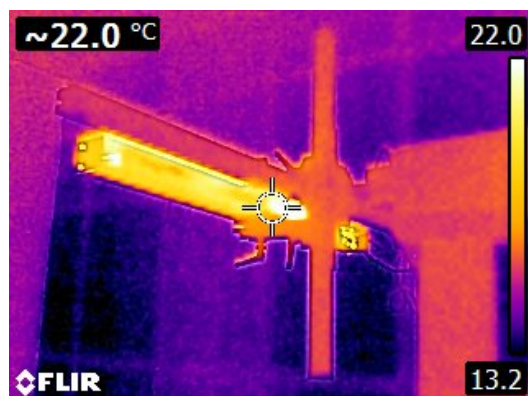
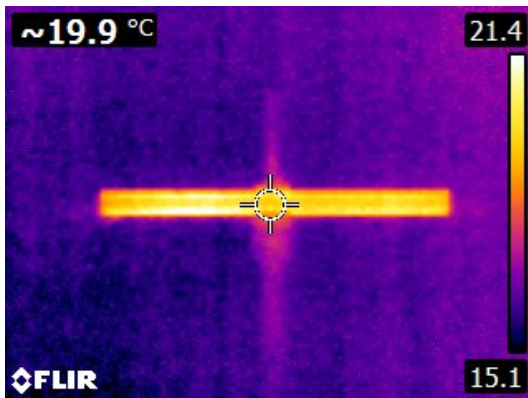
Max. Intensity: 1712.14 cd

Pos of Max. Intensity: H0 V0

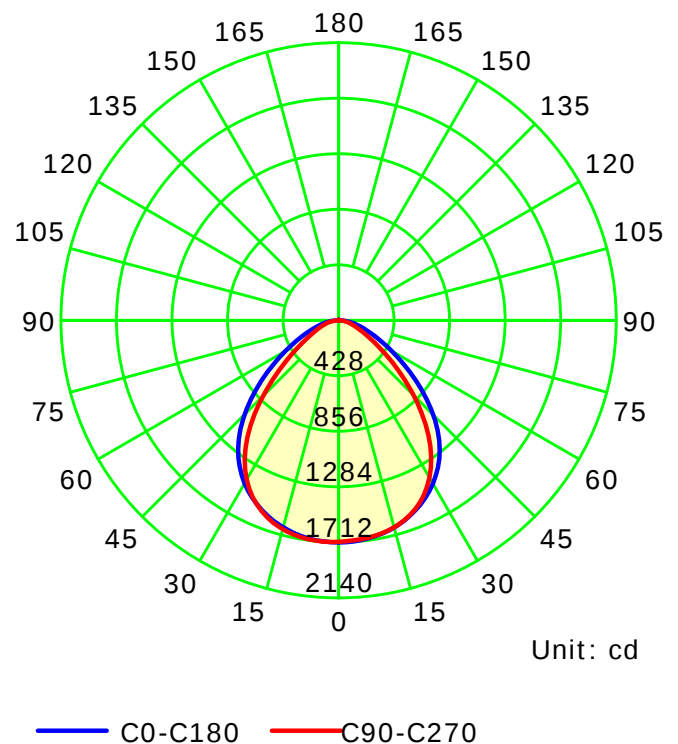
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.22

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

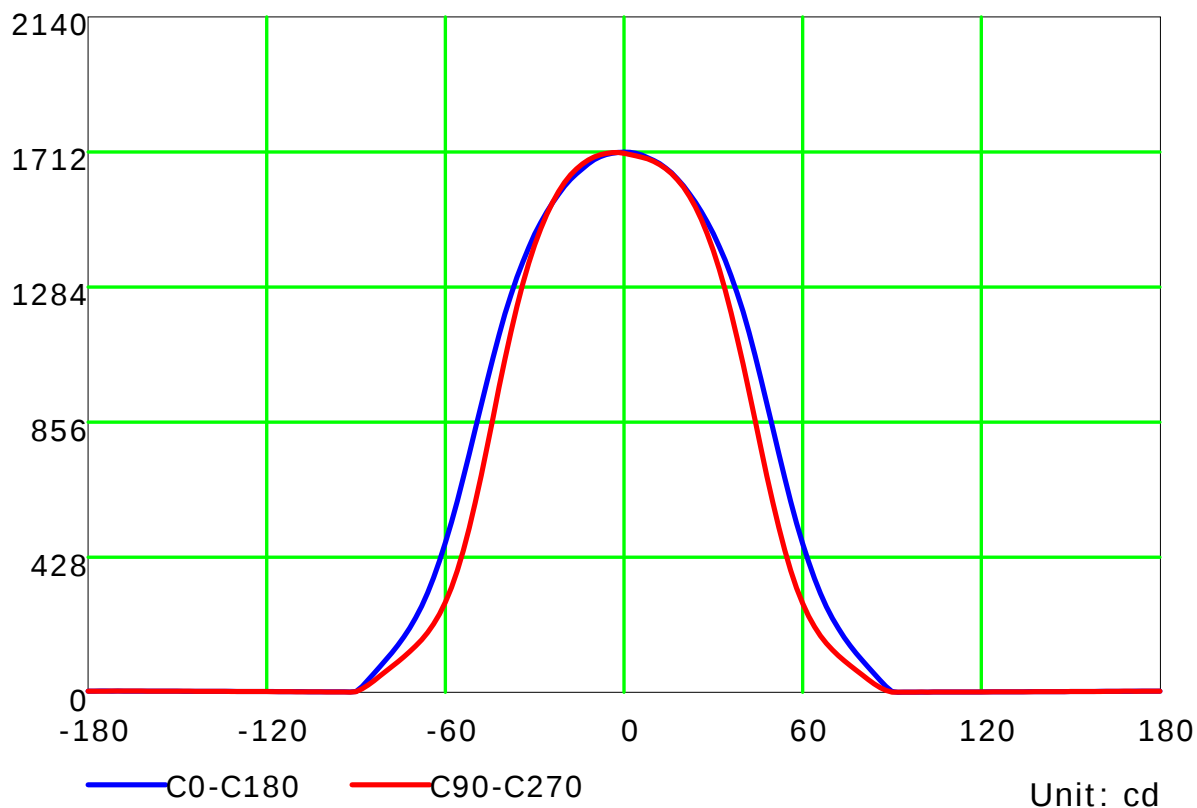
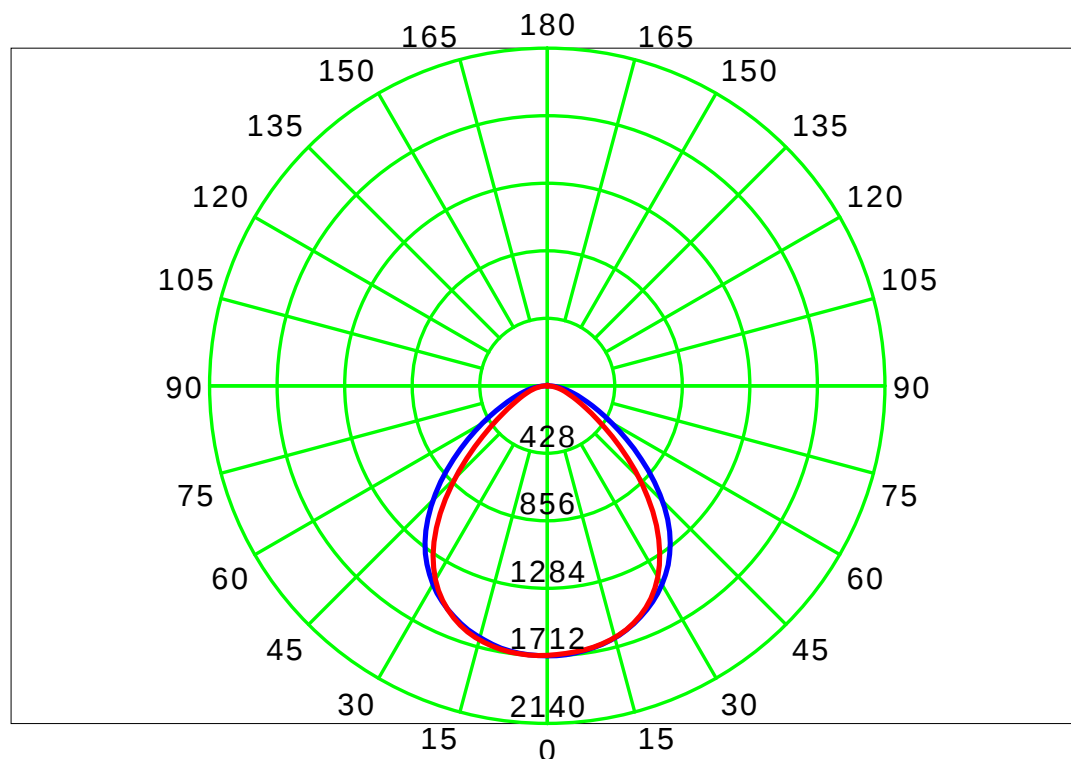
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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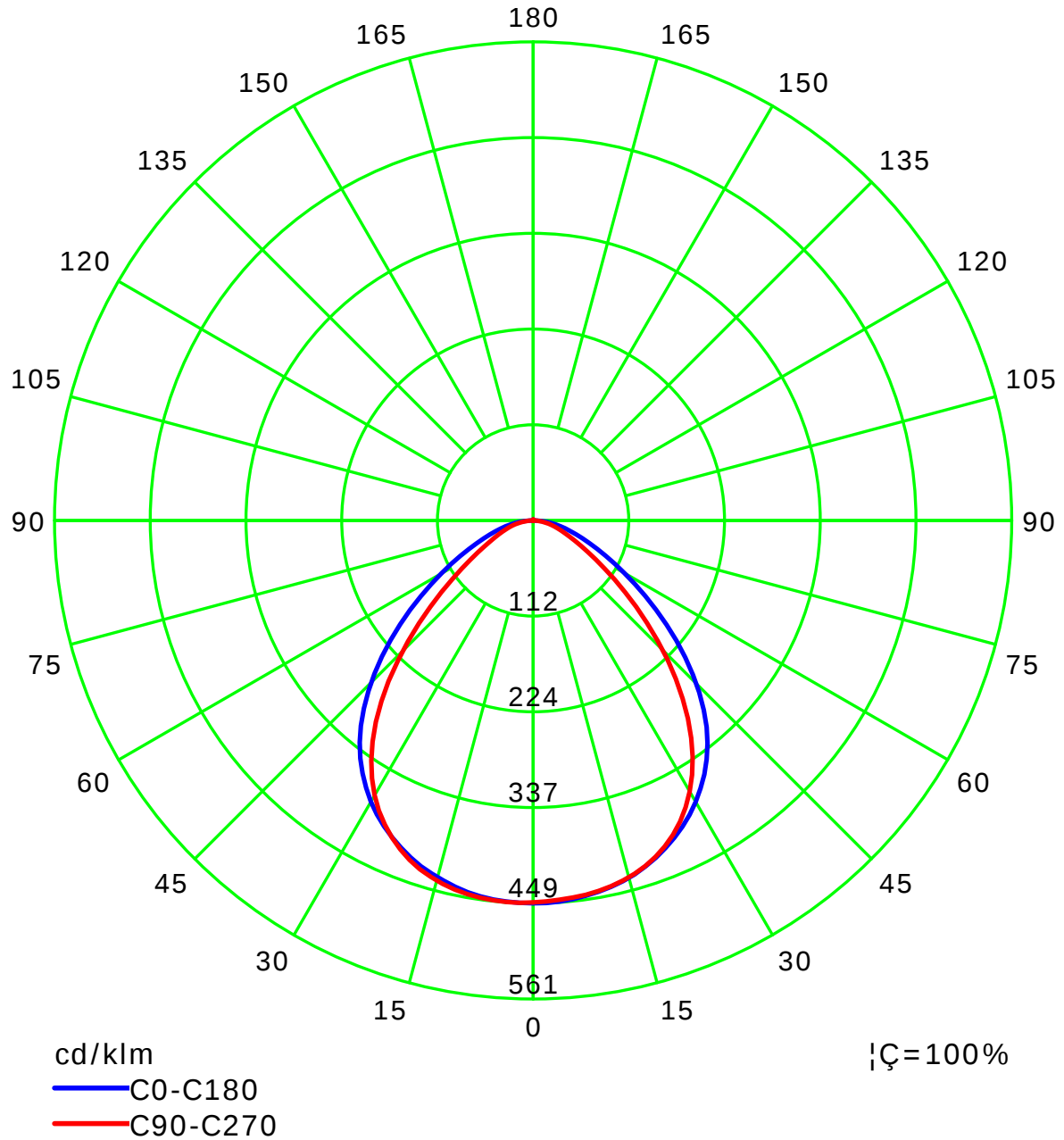
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

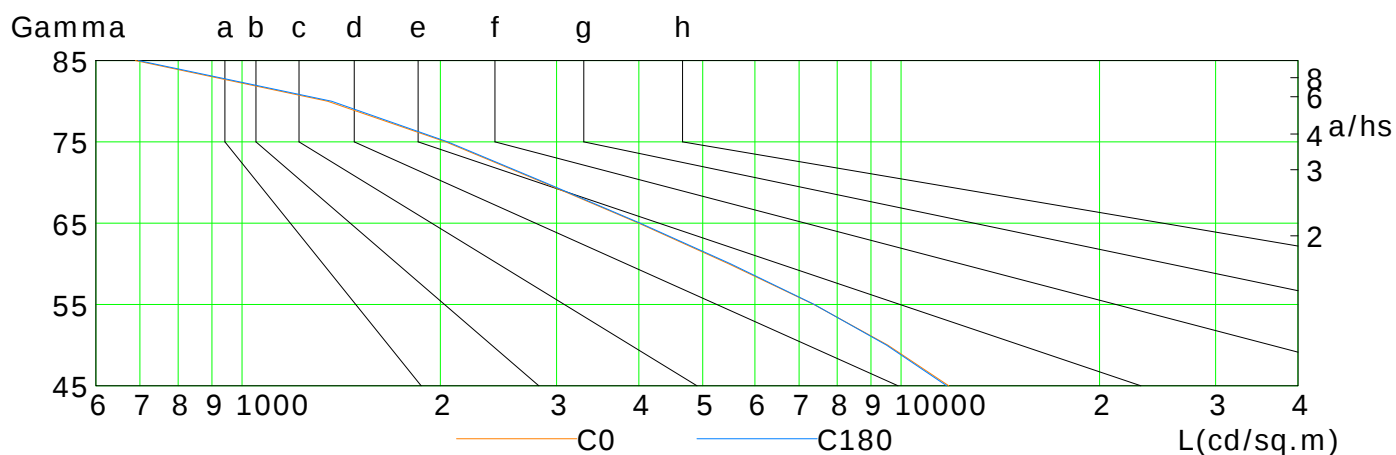
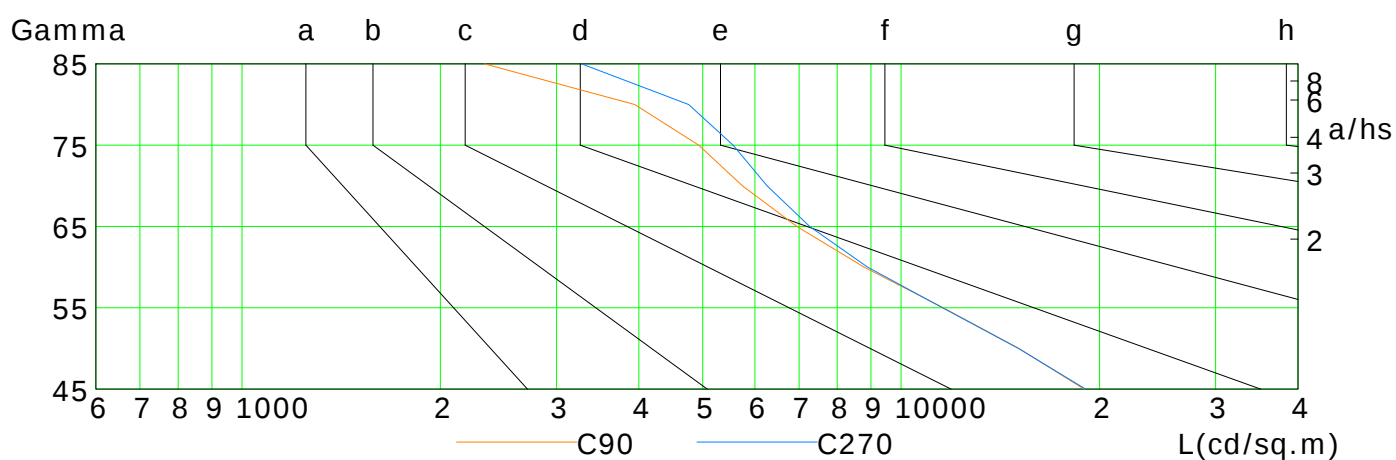
Luminous Intensity Distribution Curve(cd / klm)



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	11810	9543	7370	5473	3997	2864	2037	1348	689
C90	18939	15086	11588	8785	6945	5744	4932	3942	2332
C180	11724	9504	7383	5511	4018	2881	2052	1367	696
C270	19053	15060	11553	8896	7264	6260	5560	4760	3274

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Temperature:

Operator:

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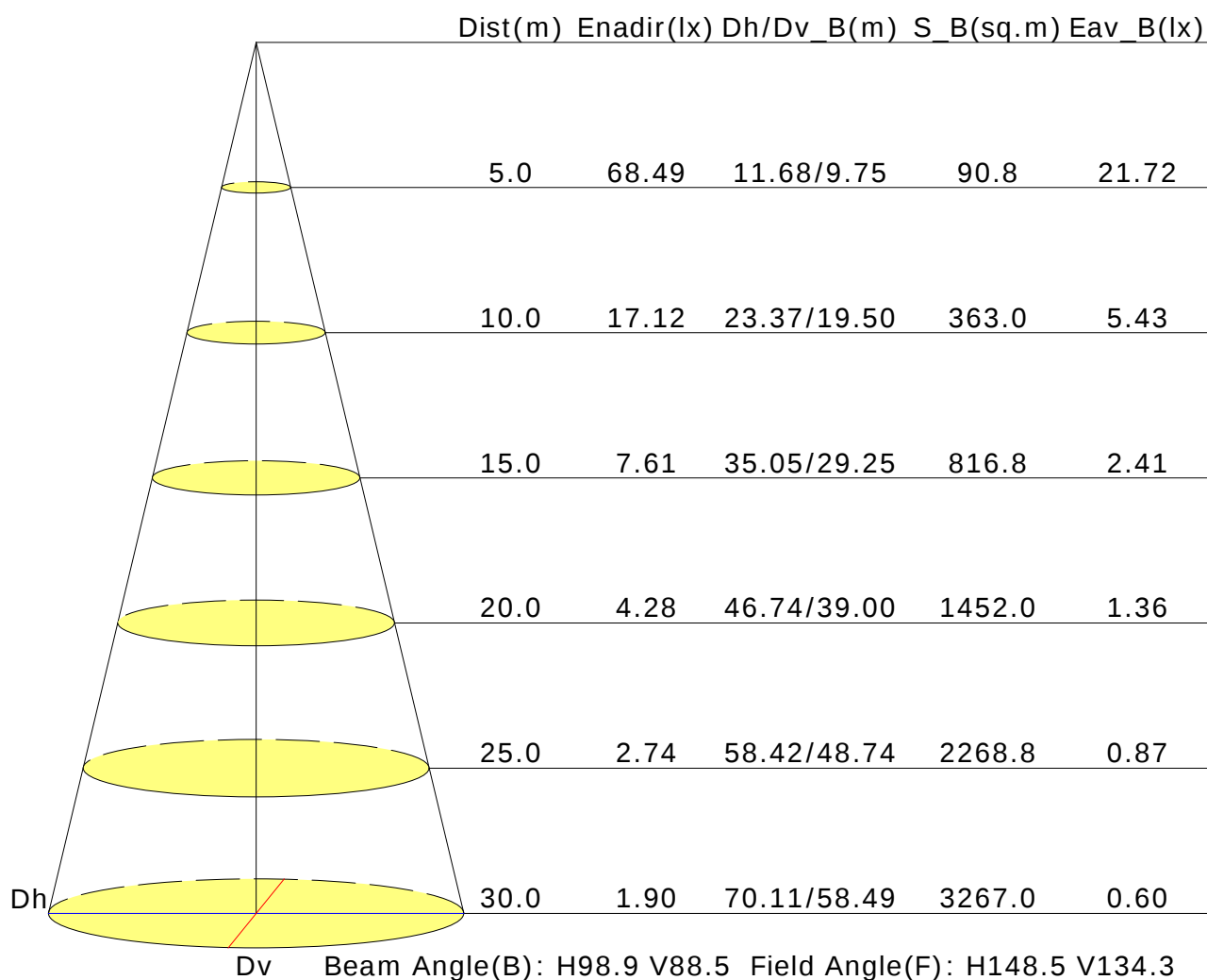
Test Device: LSG-1800B

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	19.5	20.8	19.8	21.0	21.2	19.4	20.7	19.7	20.9	21.1
3H	20.0	21.1	20.3	21.4	21.7	19.9	21.0	20.2	21.3	21.6
4H	20.2	21.2	20.5	21.5	21.8	20.1	21.1	20.4	21.4	21.7
6H	20.2	21.2	20.6	21.5	21.8	20.2	21.2	20.6	21.5	21.8
8H	20.2	21.2	20.6	21.5	21.8	20.3	21.2	20.6	21.5	21.9
12H	20.2	21.1	20.6	21.5	21.8	20.3	21.2	20.7	21.5	21.9
X=4H Y=2H	19.7	20.7	20.0	21.0	21.3	19.6	20.7	19.9	20.9	21.2
3H	20.3	21.2	20.7	21.5	21.9	20.2	21.1	20.6	21.4	21.8
4H	20.5	21.3	20.9	21.7	22.1	20.4	21.2	20.8	21.6	22.0
6H	20.7	21.4	21.1	21.8	22.2	20.7	21.4	21.1	21.8	22.2
8H	20.7	21.4	21.2	21.8	22.2	20.7	21.4	21.2	21.8	22.2
12H	20.7	21.3	21.2	21.7	22.2	20.8	21.3	21.2	21.8	22.2
X=8H Y=4H	20.6	21.2	21.0	21.6	22.0	20.5	21.1	20.9	21.5	22.0
6H	20.8	21.3	21.3	21.7	22.2	20.8	21.3	21.2	21.7	22.2
8H	20.9	21.3	21.3	21.8	22.3	20.9	21.3	21.3	21.8	22.3
12H	20.9	21.3	21.4	21.8	22.3	20.9	21.3	21.4	21.8	22.3
X=12H Y=4H	20.5	21.1	21.0	21.6	22.0	20.5	21.0	20.9	21.5	21.9
6H	20.8	21.2	21.3	21.7	22.2	20.8	21.2	21.2	21.7	22.2
8H	20.9	21.3	21.4	21.7	22.3	20.9	21.3	21.4	21.7	22.2
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.7					+0.5/-0.8				
S=1.5H	+0.9/-1.6					+1.5/-1.9				
S=2.0H	+2.0/-2.5					+2.7/-3.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3808lm ($8\log(F/F_0) = 4.6$).

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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	0.65	0.75	0.81	0.86	0.92	0.97	1.00	1.03	1.06	
	0.30		0.58	0.68	0.75	0.80	0.87	0.92	0.95	1.00	1.03	
	0.20		0.53	0.63	0.70	0.76	0.83	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.63	0.73	0.79	0.83	0.89	0.93	0.96	0.99	1.02	
	0.30		0.57	0.67	0.74	0.78	0.85	0.89	0.92	0.97	0.99	
	0.20		0.53	0.62	0.69	0.74	0.81	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.90	0.93	0.96	0.98	
	0.30		0.56	0.66	0.72	0.77	0.83	0.87	0.90	0.93	0.96	
	0.20		0.52	0.62	0.68	0.73	0.80	0.84	0.87	0.91	0.94	
0.00	0.00	0.00	0.50	0.59	0.66	0.70	0.76	0.80	0.83	0.87	0.89	
Rating:30W 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	0.87	0.71	0.60	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.73	0.61	0.52	0.46	0.37	0.31	0.27	0.21	0.17	
	0.20		0.63	0.53	0.46	0.41	0.34	0.29	0.25	0.20	0.16	
0.50	0.50	0.20	0.84	0.68	0.57	0.49	0.39	0.35	0.27	0.21	0.17	
	0.30		0.71	0.59	0.50	0.44	0.35	0.29	0.25	0.20	0.16	
	0.20		0.62	0.52	0.45	0.40	0.33	0.27	0.24	0.19	0.16	
0.30	0.50	0.20	0.81	0.65	0.54	0.47	0.37	0.30	0.26	0.20	0.16	
	0.30		0.70	0.57	0.49	0.42	0.34	0.28	0.24	0.19	0.15	
	0.20		0.61	0.51	0.44	0.39	0.32	0.26	0.23	0.18	0.15	
0.00	0.00	0.00	0.50	0.40	0.34	0.30	0.24	0.19	0.17	0.13	0.11	
Rating:30W 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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.18	0.18	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rating:30W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												