

Report No.: 1

Test Time: 15.10.2019 13:15

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 130 8W 6000K sound-sensor

Luminous Length (mm): 135

Luminous Width (mm): 135

Luminous Height (mm): 50

Voltage: 221.1 V

Current: 0.064 A

Power: 7.46 W

Power Factor: 0.520

Photometric Results

CIE Class: Direct

Measurement Flux: 604.7 lm

Downward Ratio: 94%

Total Rated Lamp Lumens: 604.7 lm

Efficiency: 100%

Upward Ratio: 6%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 185.2, 178.3, 181.7, 181.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.8, 116.0, 116.3, 116.6

Luminaire Efficacy Rating (LER): 81.11

Central Intensity: 183.17 cd

Max. Intensity: 183.23 cd

Pos of Max. Intensity: H0 V2

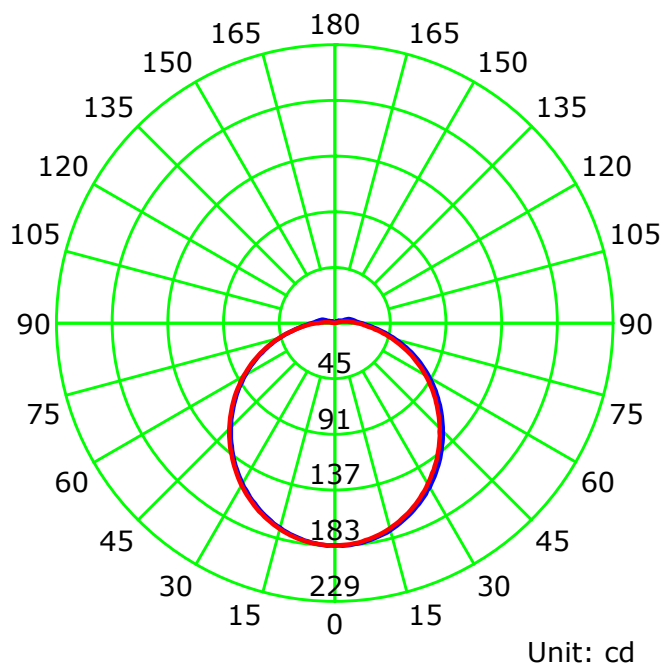
S/MH(C0/C180): 1.25

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

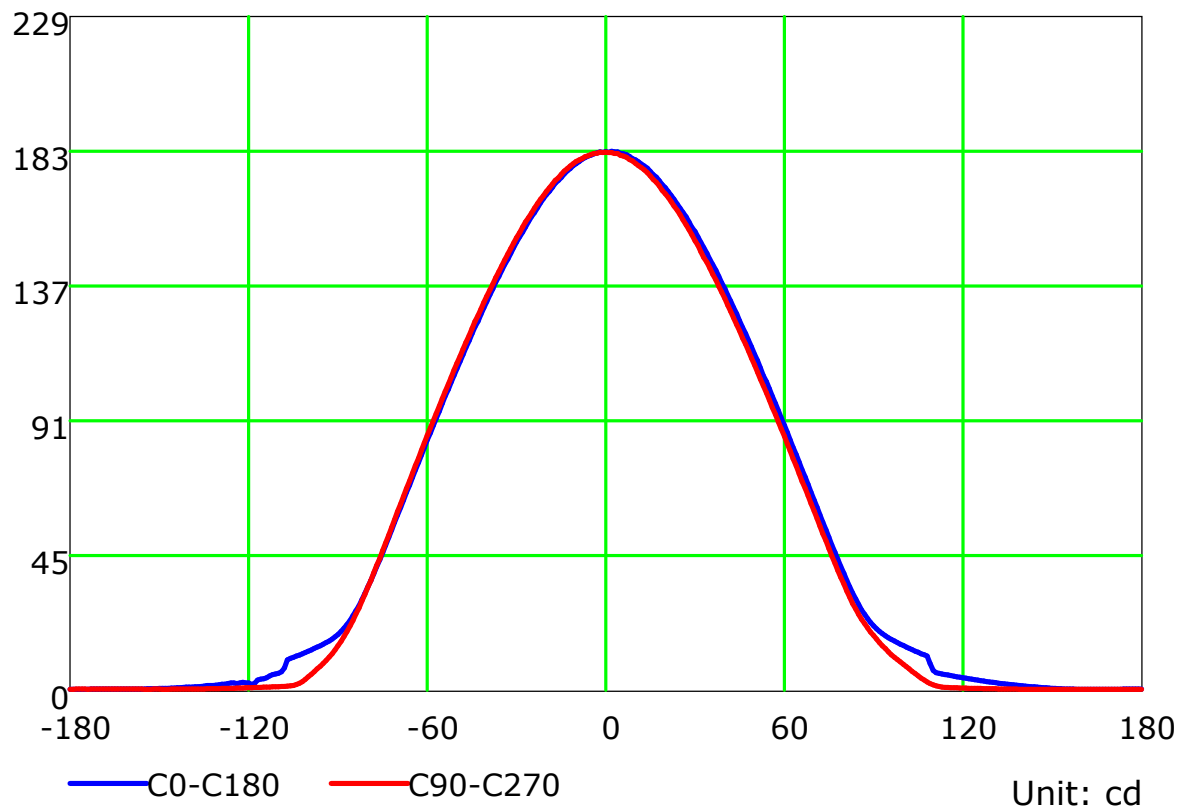
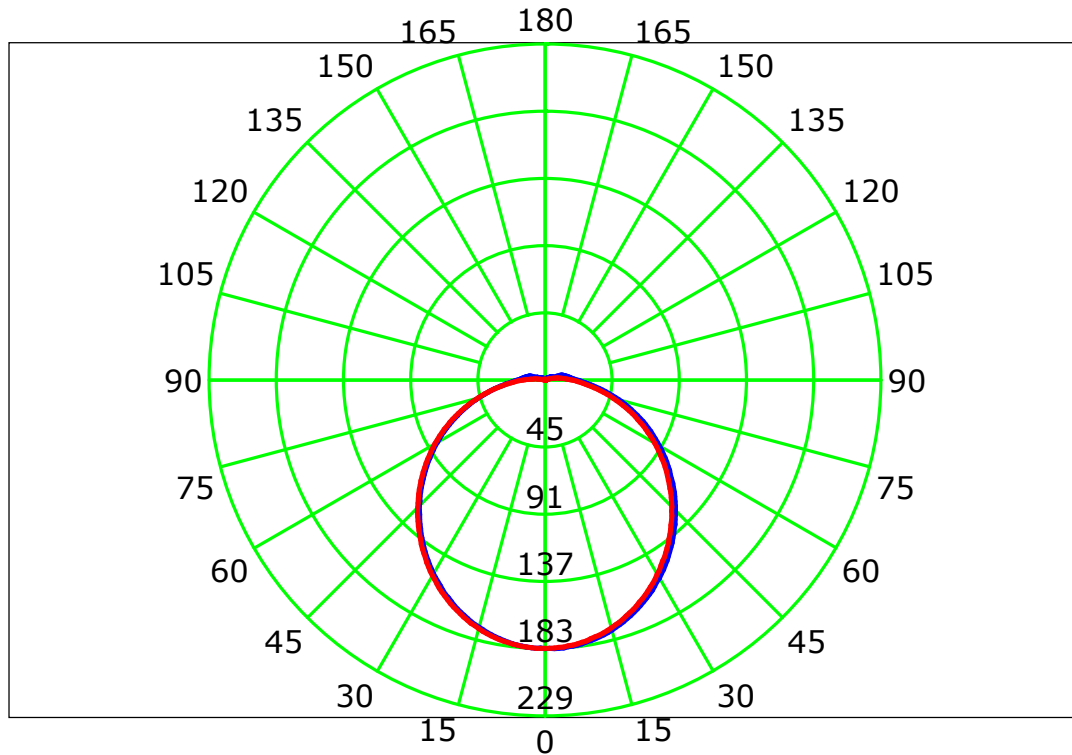
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

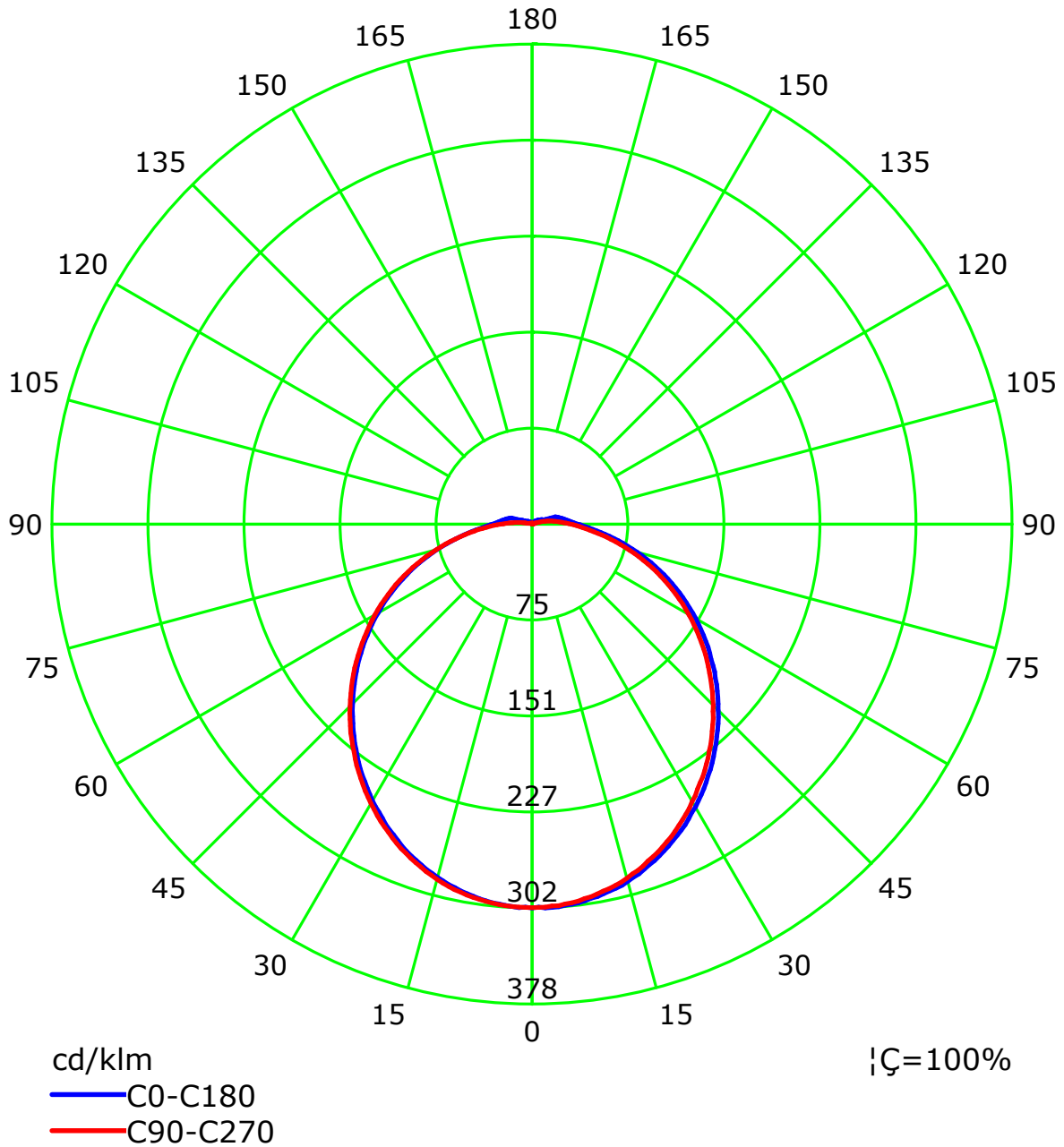
Luminous Intensity Distribution Curve



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)



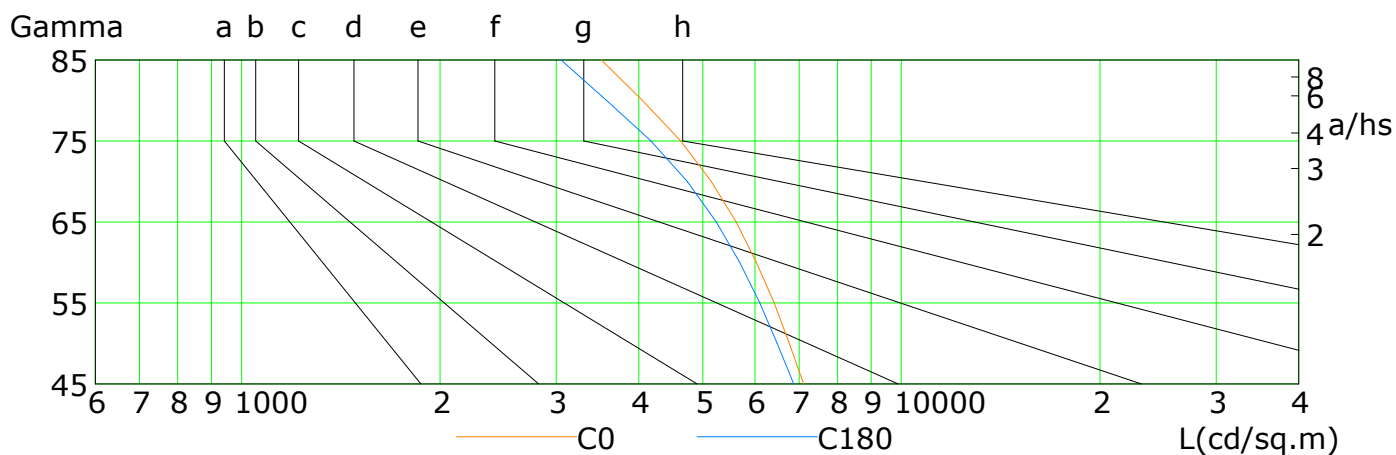
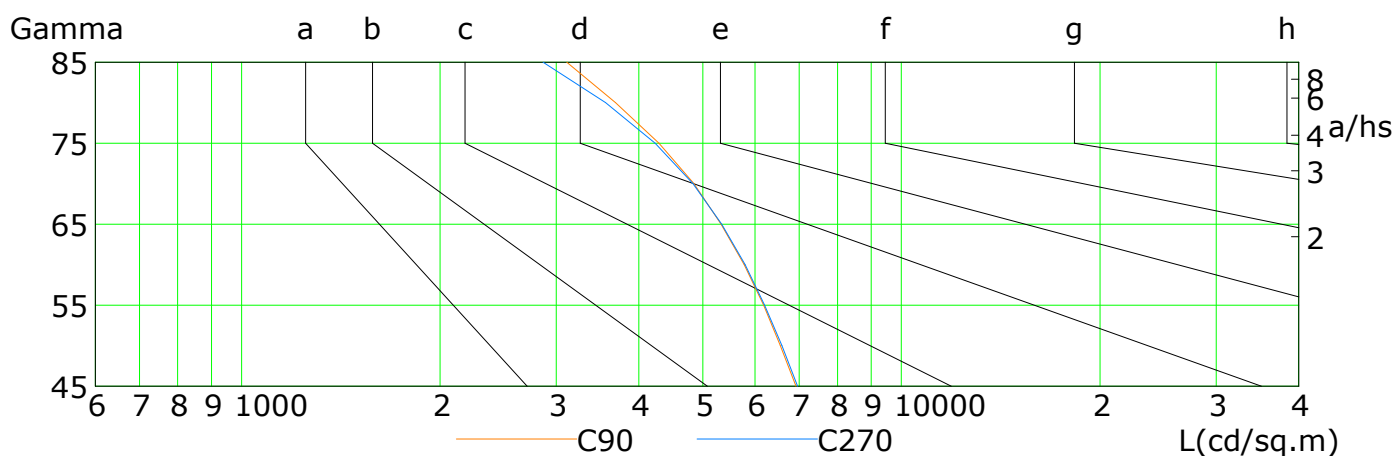
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

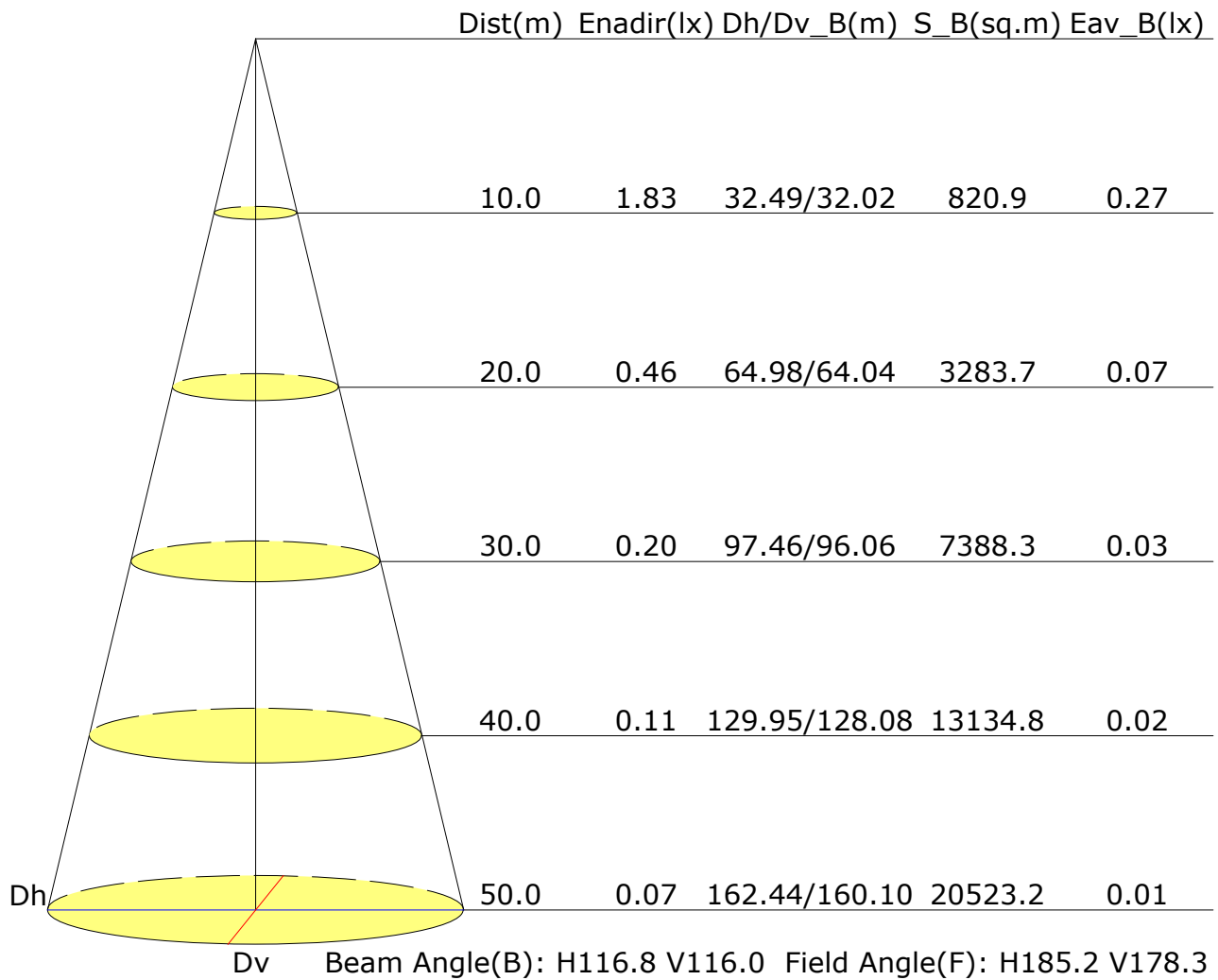


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	7112	6763	6413	6027	5618	5146	4628	4049	3511
C90	6921	6552	6181	5779	5332	4848	4294	3685	3110
C180	6865	6481	6100	5689	5239	4736	4173	3573	3051
C270	6962	6591	6202	5797	5341	4831	4234	3562	2865

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	18.4	19.8	18.8	20.2	20.5	18.3	19.7	18.7	20.0	20.4
3H	20.1	21.3	20.5	21.7	22.1	19.9	21.1	20.3	21.5	21.9
4H	20.8	22.0	21.2	22.3	22.8	20.6	21.7	21.0	22.1	22.5
6H	21.4	22.5	21.8	22.9	23.3	21.1	22.2	21.5	22.6	23.1
8H	21.6	22.7	22.1	23.1	23.6	21.3	22.4	21.8	22.8	23.3
12H	21.8	22.9	22.3	23.3	23.8	21.5	22.5	21.9	22.9	23.4
X=4H Y=2H	19.0	20.2	19.5	20.6	21.0	18.9	20.1	19.4	20.5	20.9
3H	20.8	21.9	21.3	22.3	22.8	20.7	21.7	21.2	22.2	22.6
4H	21.7	22.6	22.2	23.1	23.6	21.5	22.4	22.0	22.9	23.4
6H	22.4	23.2	22.9	23.7	24.2	22.2	23.0	22.7	23.5	24.0
8H	22.7	23.5	23.3	24.0	24.5	22.4	23.2	23.0	23.7	24.3
12H	23.0	23.7	23.6	24.2	24.8	22.7	23.4	23.2	23.9	24.5
X=8H Y=4H	22.0	22.7	22.5	23.2	23.8	21.8	22.5	22.3	23.1	23.6
6H	22.9	23.5	23.4	24.0	24.6	22.6	23.3	23.2	23.8	24.4
8H	23.3	23.8	23.8	24.4	25.0	23.0	23.6	23.6	24.1	24.7
12H	23.7	24.2	24.3	24.7	25.4	23.4	23.9	23.9	24.4	25.1
X=12H Y=4H	22.0	22.7	22.5	23.2	23.8	21.8	22.5	22.4	23.0	23.6
6H	22.9	23.5	23.5	24.0	24.6	22.7	23.3	23.3	23.8	24.4
8H	23.4	23.9	24.0	24.5	25.1	23.2	23.6	23.7	24.2	24.8
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					+0.3/-0.4				
S=2.0H	+0.5/-0.7					+0.5/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 605lm ($8\log(F/F_0) = -1.7$).

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 Test Lab:
 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 = 1.25									
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	0.52	0.62	0.69	0.75	0.82	0.87	0.91	0.96	0.99	
	0.30		0.44	0.54	0.62	0.67	0.75	0.81	0.85	0.91	0.95	
	0.20		0.38	0.48	0.56	0.61	0.70	0.76	0.80	0.87	0.91	
0.50	0.50	0.20	0.50	0.60	0.66	0.71	0.78	0.83	0.86	0.91	0.94	
	0.30		0.43	0.53	0.59	0.65	0.72	0.78	0.81	0.87	0.90	
	0.20		0.38	0.47	0.54	0.60	0.67	0.73	0.77	0.83	0.87	
0.30	0.50	0.20	0.48	0.57	0.63	0.68	0.74	0.79	0.82	0.86	0.89	
	0.30		0.42	0.51	0.58	0.62	0.69	0.74	0.78	0.83	0.86	
	0.20		0.37	0.46	0.53	0.58	0.65	0.71	0.75	0.80	0.83	
0.00	0.00	0.00	0.34	0.43	0.49	0.54	0.61	0.66	0.69	0.74	0.77	
Rating:7W 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	1.03	0.86	0.74	0.66	0.53	0.45	0.39	0.31	0.25	
	0.30		0.86	0.74	0.65	0.58	0.48	0.41	0.36	0.29	0.24	
	0.20		0.74	0.64	0.58	0.52	0.44	0.38	0.33	0.27	0.23	
0.50	0.50	0.20	0.98	0.82	0.71	0.62	0.50	0.45	0.37	0.29	0.24	
	0.30		0.83	0.71	0.62	0.56	0.46	0.39	0.34	0.27	0.23	
	0.20		0.72	0.63	0.56	0.50	0.42	0.37	0.32	0.26	0.22	
0.30	0.50	0.20	0.94	0.78	0.67	0.59	0.48	0.40	0.35	0.27	0.23	
	0.30		0.81	0.69	0.60	0.54	0.44	0.38	0.33	0.26	0.22	
	0.20		0.71	0.61	0.54	0.49	0.41	0.35	0.31	0.25	0.21	
0.00	0.00	0.00	0.60	0.51	0.45	0.40	0.33	0.29	0.25	0.20	0.17	
Rating:7W 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	0.22	0.24	0.24	0.25	0.26	0.26	0.27	0.27	0.28	
	0.30		0.15	0.17	0.18	0.19	0.21	0.22	0.23	0.24	0.25	
	0.20		0.10	0.12	0.13	0.14	0.16	0.18	0.19	0.21	0.22	
0.50	0.50	0.20	0.21	0.23	0.23	0.24	0.25	0.25	0.26	0.26	0.26	
	0.30		0.15	0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	
	0.20		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.20	0.21	
0.30	0.50	0.20	0.21	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.25	
	0.30		0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	
	0.20		0.10	0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	
0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	
Rating:7W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												