

Report No.: 1

Test Time: 22.01.2020 20:29

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FT 185 N 62W 3000K 88x35gr.

Luminous Length (mm): 587

Luminous Width (mm): 177

Luminous Height (mm): 102

Voltage: 221.4 V

Current: 0.288 A

Power: 62.05 W

Power Factor: 0.970

Photometric Results

CIE Class: Direct

Measurement Flux: 8803.2 lm

Downward Ratio: 98%

Total Rated Lamp Lumens: 8803.2 lm

Efficiency: 100%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 135.4, 93.1, 101.8, 101.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 85.7, 34.4, 44.4, 44.3

Luminaire Efficacy Rating (LER): 141.92

Central Intensity: 7849.54 cd

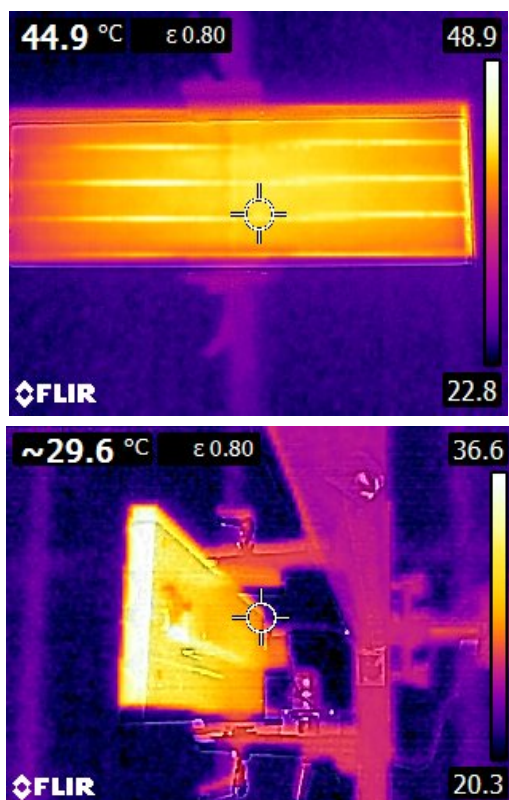
Max. Intensity: 7849.55 cd

Pos of Max. Intensity: H0 V0

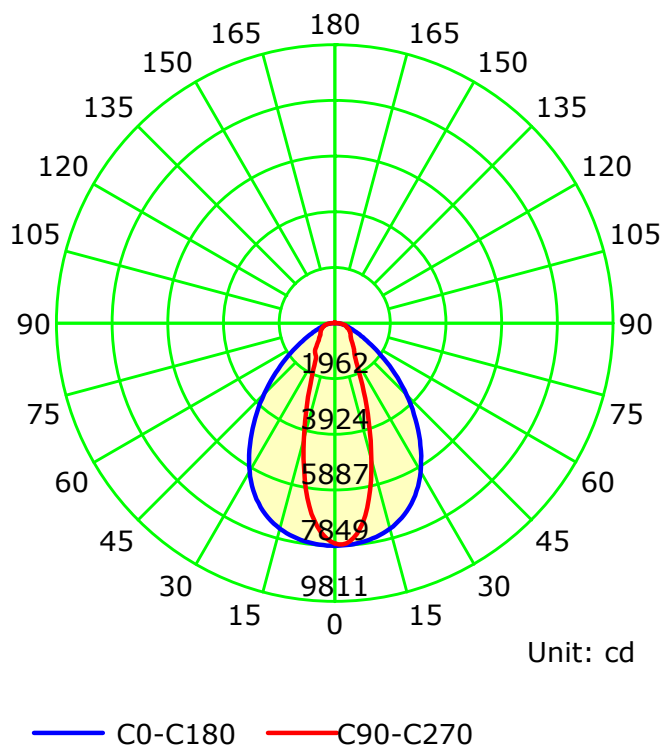
S/MH(C0/C180): 1.15

S/MH(C90/C270): 0.56

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

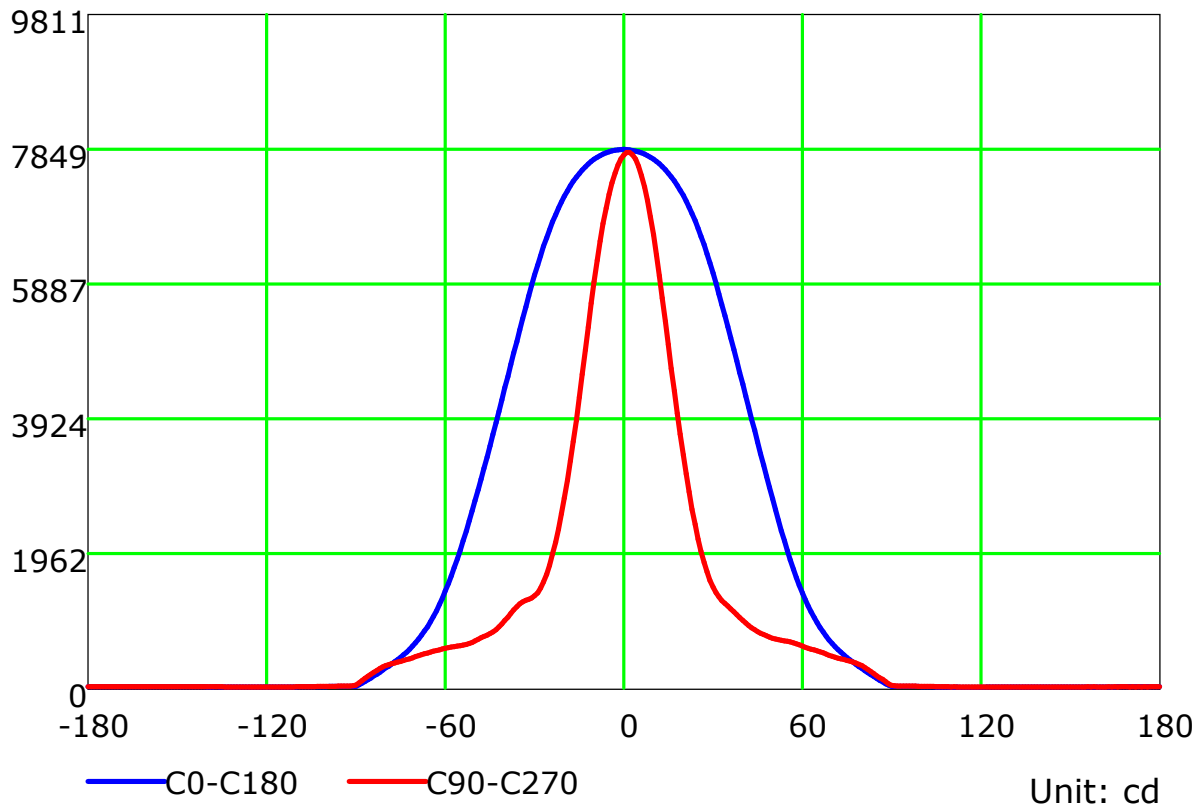
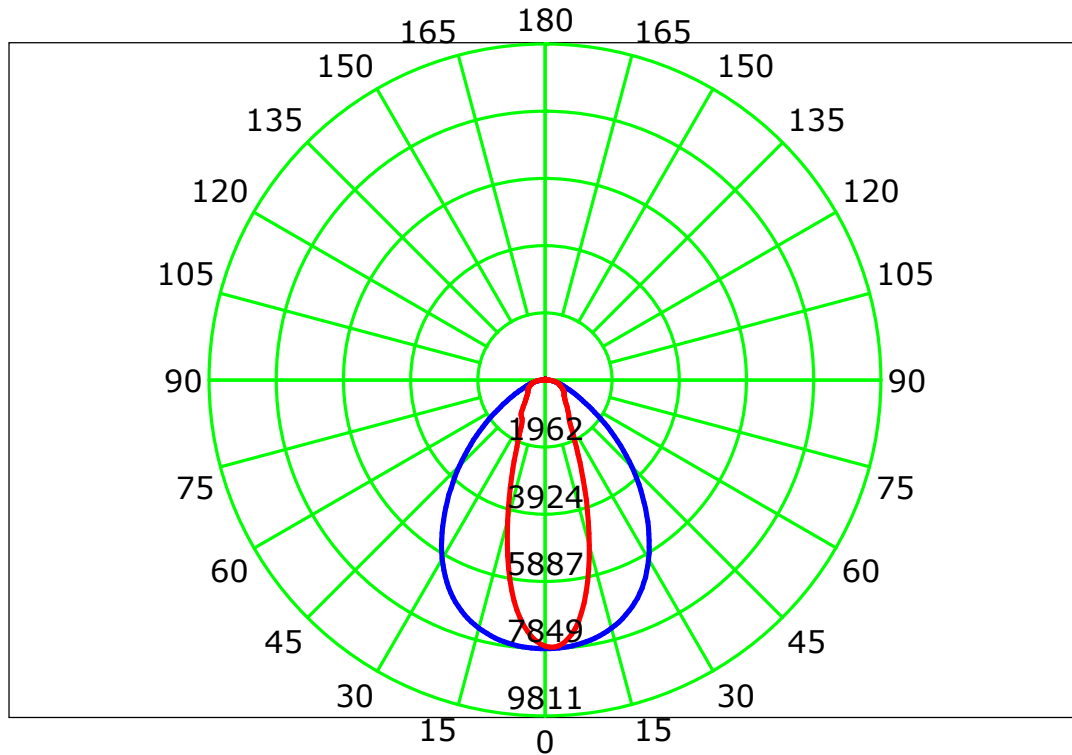
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

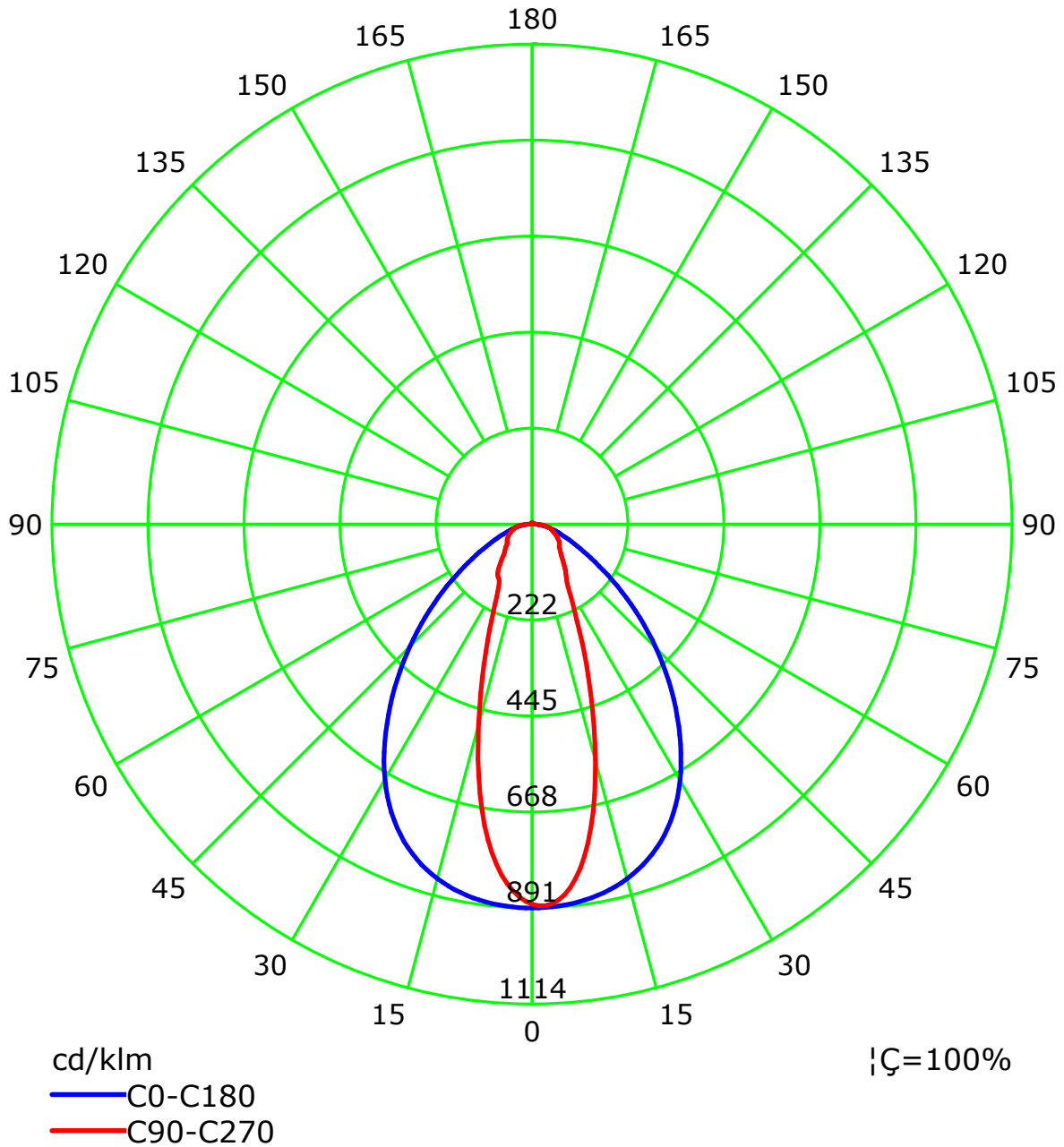
Luminous Intensity Distribution Curve



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)



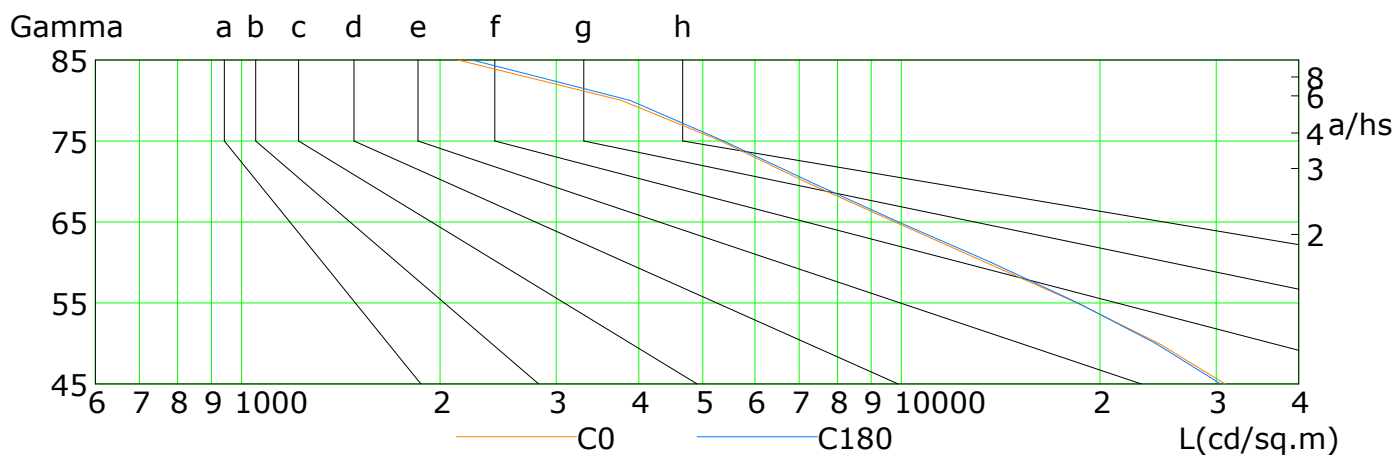
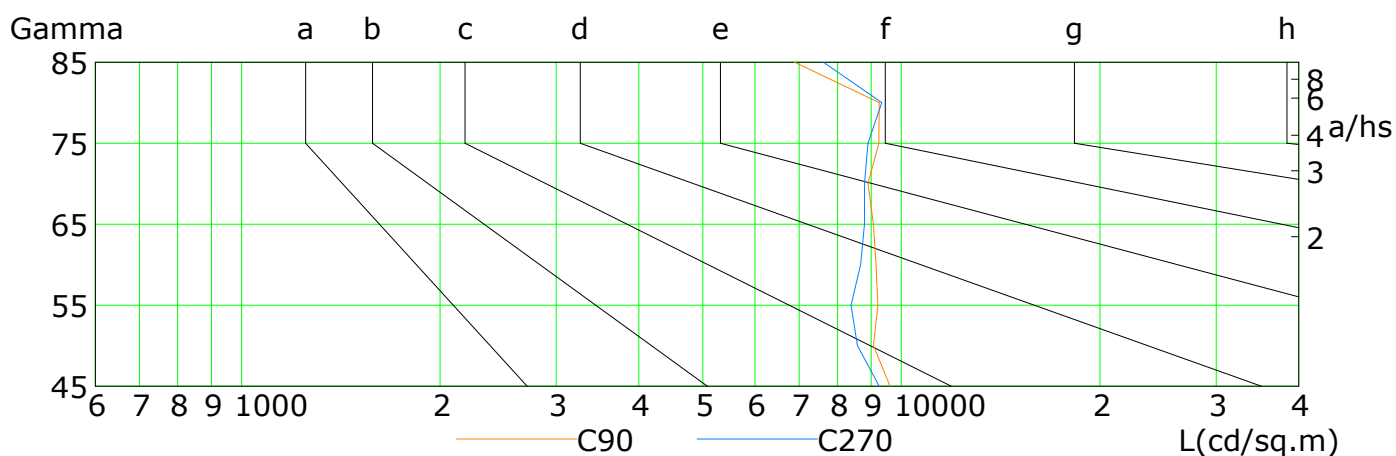
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

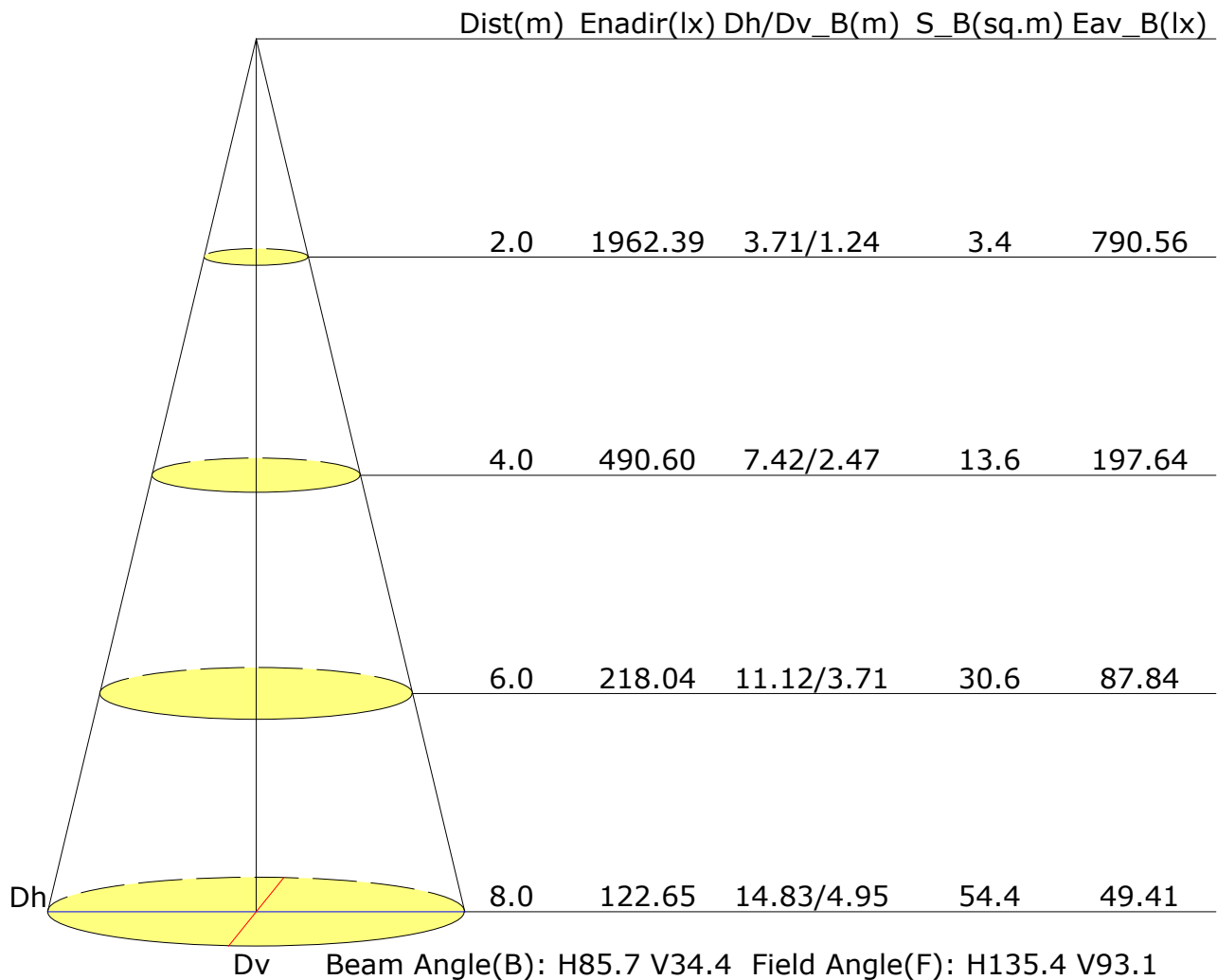


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	30963	24534	18464	13404	9773	7129	5323	3763	2128
C90	9612	9068	9218	9151	9067	8899	9243	9258	6890
C180	30476	24259	18524	13668	9893	7247	5379	3878	2235
C270	9257	8578	8390	8671	8793	8793	8904	9340	7620

C Plane (°):0.0-360.0: 22.5
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 Temperature:
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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	21.2	22.3	21.5	22.6	22.8	17.1	18.2	17.4	18.5	18.8
3H	21.9	22.9	22.2	23.2	23.5	19.0	20.1	19.4	20.4	20.7
4H	22.2	23.2	22.5	23.5	23.8	20.0	21.0	20.4	21.3	21.6
6H	22.4	23.3	22.8	23.6	24.0	21.0	21.9	21.3	22.2	22.6
8H	22.4	23.3	22.8	23.7	24.0	21.4	22.3	21.8	22.6	23.0
12H	22.4	23.3	22.8	23.6	24.0	21.6	22.5	22.0	22.8	23.2
X=4H Y=2H	21.2	22.2	21.6	22.5	22.8	17.7	18.7	18.1	19.0	19.4
3H	22.1	22.9	22.5	23.3	23.7	19.9	20.7	20.3	21.1	21.4
4H	22.5	23.2	22.9	23.6	24.0	21.0	21.7	21.4	22.1	22.5
6H	22.8	23.5	23.2	23.9	24.3	22.1	22.8	22.5	23.2	23.6
8H	22.9	23.5	23.3	23.9	24.4	22.6	23.2	23.0	23.6	24.1
12H	22.9	23.5	23.4	23.9	24.4	22.9	23.5	23.4	23.9	24.4
X=8H Y=4H	22.6	23.2	23.1	23.7	24.1	21.2	21.9	21.7	22.3	22.7
6H	23.0	23.5	23.5	24.0	24.5	22.5	23.0	23.0	23.5	24.0
8H	23.2	23.6	23.7	24.1	24.6	23.1	23.6	23.6	24.1	24.6
12H	23.3	23.6	23.8	24.1	24.7	23.6	24.0	24.1	24.5	25.0
X=12H Y=4H	22.6	23.2	23.1	23.6	24.1	21.2	21.8	21.7	22.2	22.7
6H	23.1	23.5	23.6	24.0	24.5	22.6	23.0	23.1	23.5	24.0
8H	23.2	23.6	23.8	24.1	24.7	23.2	23.6	23.8	24.1	24.7
Variations with the observer position at spacings:										
S=1.0H	+0.7/-0.8					+0.2/-0.2				
S=1.5H	+2.0/-1.6					+0.3/-0.5				
S=2.0H	+3.3/-2.2					+0.5/-0.6				

Calculate in accordance with CIE Pub.117. The table is revised with 8803lm ($8\log(F/F_0) = 7.6$).

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 = 0.75									
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	0.66	0.75	0.81	0.85	0.91	0.96	0.99	1.02	1.05	
	0.30		0.59	0.68	0.74	0.79	0.86	0.91	0.94	0.99	1.02	
	0.20		0.54	0.63	0.69	0.74	0.82	0.87	0.90	0.96	0.99	
0.50	0.50	0.20	0.64	0.72	0.78	0.82	0.88	0.92	0.95	0.98	1.00	
	0.30		0.58	0.67	0.73	0.77	0.84	0.88	0.91	0.95	0.98	
	0.20		0.54	0.62	0.68	0.73	0.80	0.84	0.88	0.93	0.95	
0.30	0.50	0.20	0.63	0.70	0.76	0.80	0.85	0.89	0.91	0.94	0.96	
	0.30		0.57	0.65	0.71	0.75	0.81	0.85	0.88	0.92	0.94	
	0.20		0.53	0.61	0.67	0.72	0.78	0.82	0.85	0.90	0.92	
0.00	0.00	0.00	0.51	0.59	0.64	0.69	0.74	0.78	0.81	0.85	0.87	
Rating:62W 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 = 0.75									
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	0.86	0.71	0.61	0.53	0.42	0.35	0.30	0.24	0.19	
	0.30		0.71	0.61	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.61	0.53	0.47	0.42	0.35	0.30	0.26	0.21	0.18	
0.50	0.50	0.20	0.82	0.68	0.58	0.50	0.40	0.37	0.29	0.22	0.18	
	0.30		0.69	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.18	
	0.20		0.60	0.52	0.46	0.41	0.34	0.29	0.25	0.20	0.17	
0.30	0.50	0.20	0.79	0.65	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.30		0.67	0.57	0.49	0.43	0.35	0.30	0.25	0.20	0.17	
	0.20		0.59	0.51	0.44	0.40	0.33	0.28	0.24	0.19	0.16	
0.00	0.00	0.00	0.48	0.40	0.34	0.30	0.25	0.21	0.18	0.14	0.12	
Rating:62W 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 = 0.75									
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	0.22	0.22	0.23	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.16	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18	
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.19	
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Rating:62W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												