

Report No.: 1

Test Time: 18.12.2019 22:43

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 4x40LED 0,39A 49W 4000K matoviy

Luminous Length (mm): 1280

Luminous Width (mm): 350

Luminous Height (mm): 100

Voltage: 221.4 V

Current: 0.225 A

Power: 49.05 W

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 6050.2 lm

Downward Ratio: 92%

Total Rated Lamp Lumens: 6050.2 lm

Efficiency: 100%

Upward Ratio: 8%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.4, 218.0, 194.0, 193.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.1, 125.3, 115.6, 115.6

Luminaire Efficacy Rating (LER): 123.40

Central Intensity: 1786.27 cd

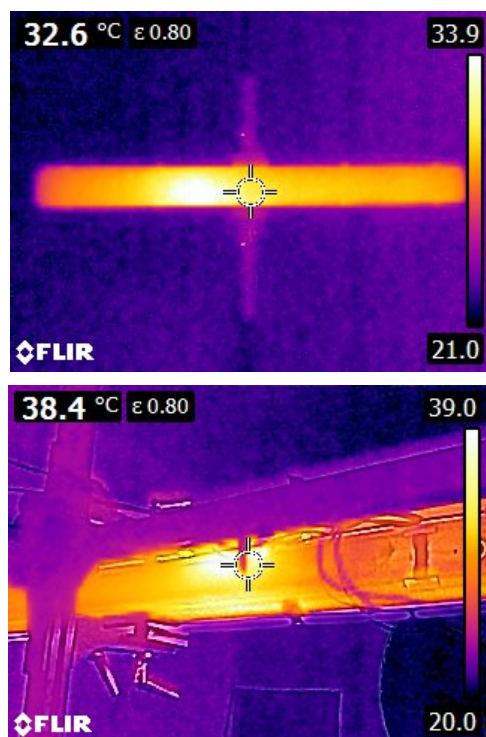
Max. Intensity: 1786.81 cd

Pos of Max. Intensity: H22.5 V0

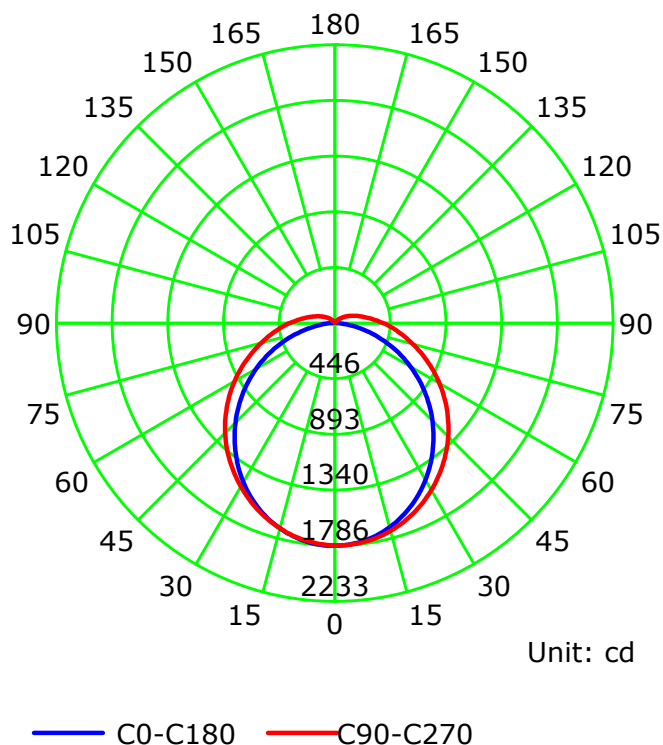
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.28

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

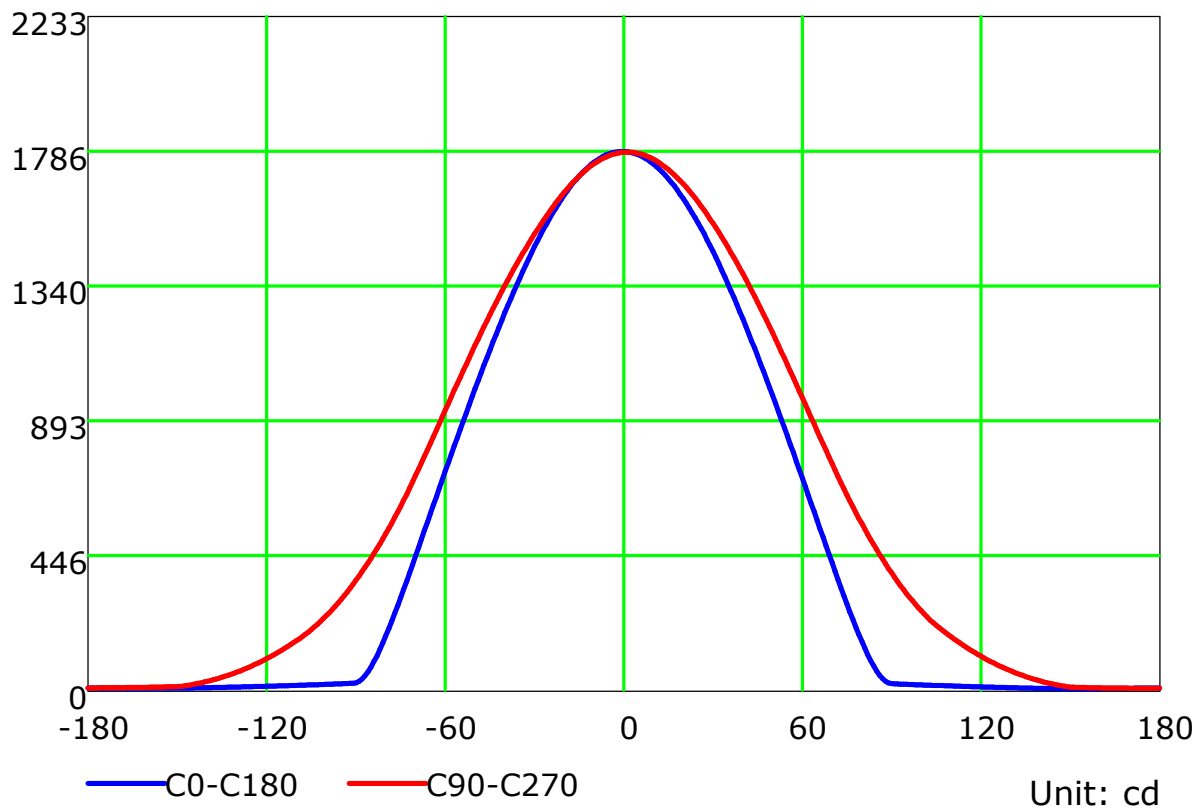
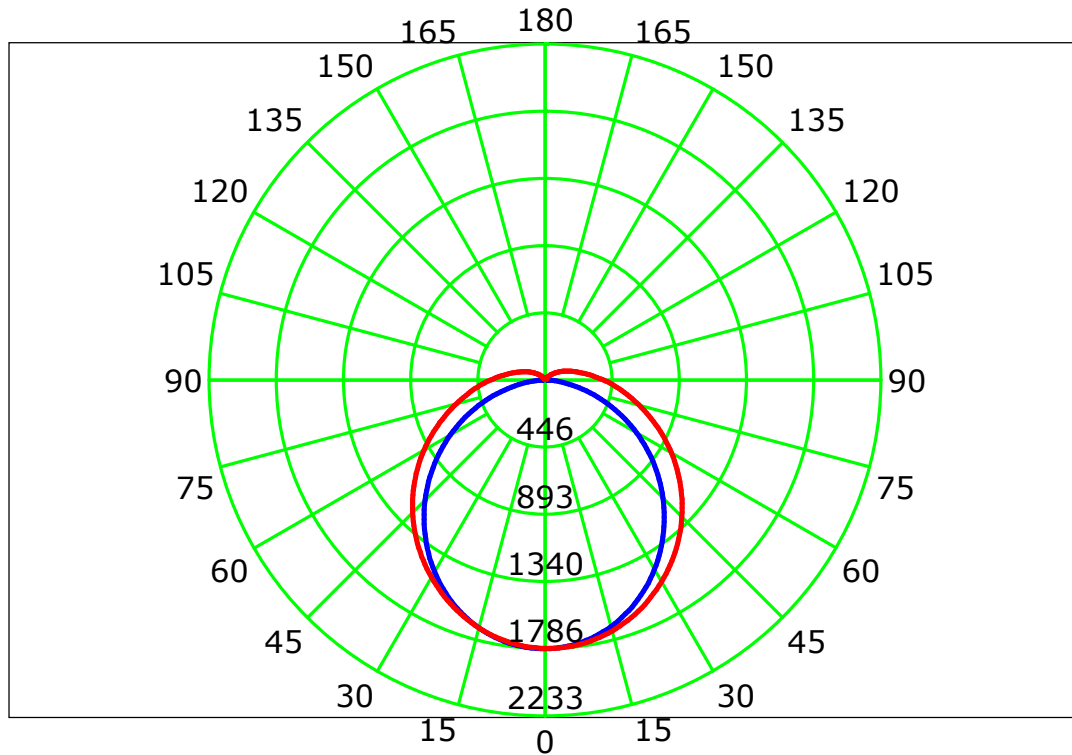
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

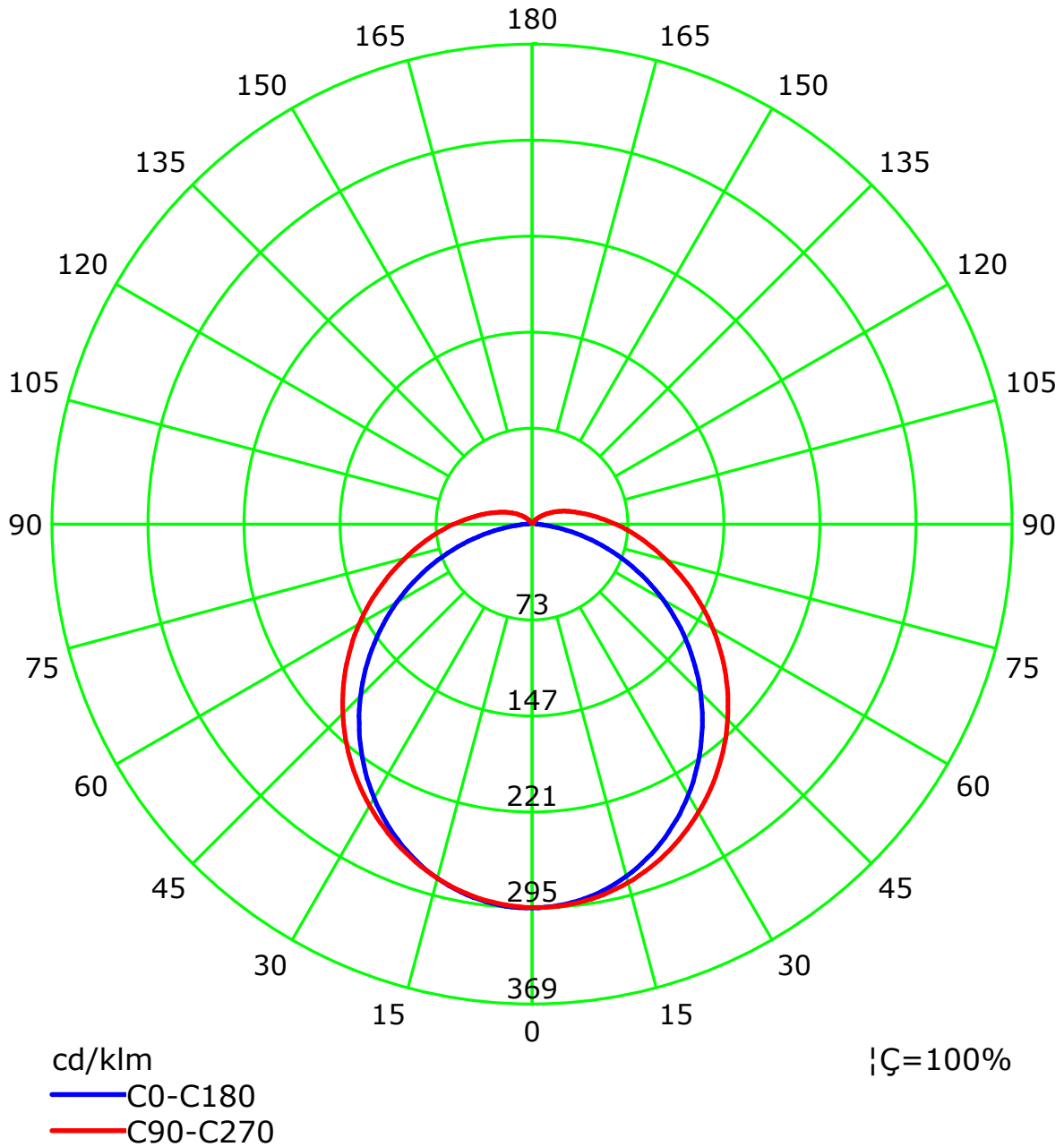
Luminous Intensity Distribution Curve



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)



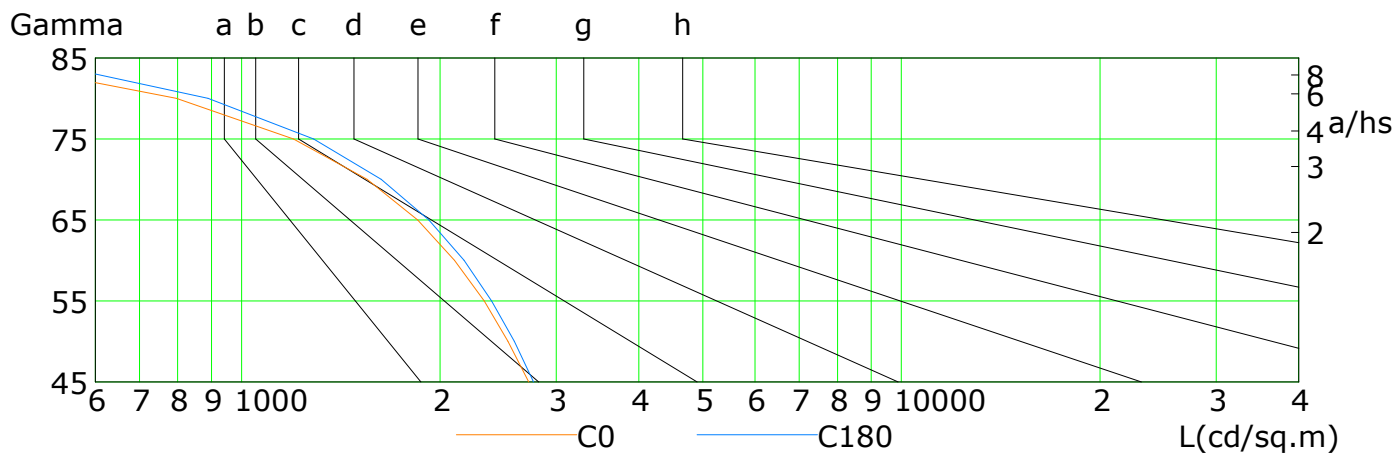
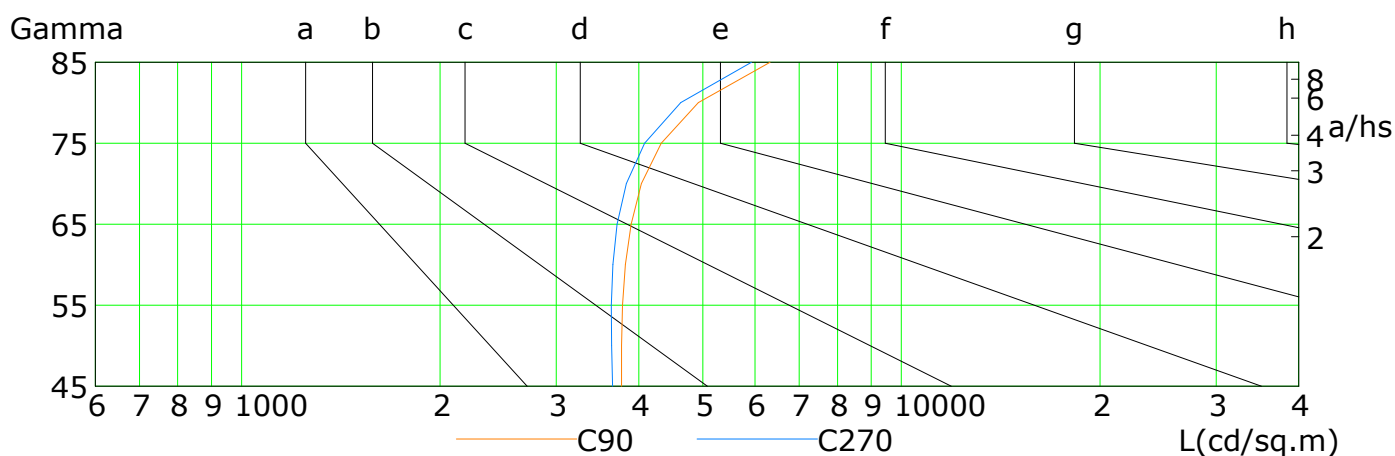
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

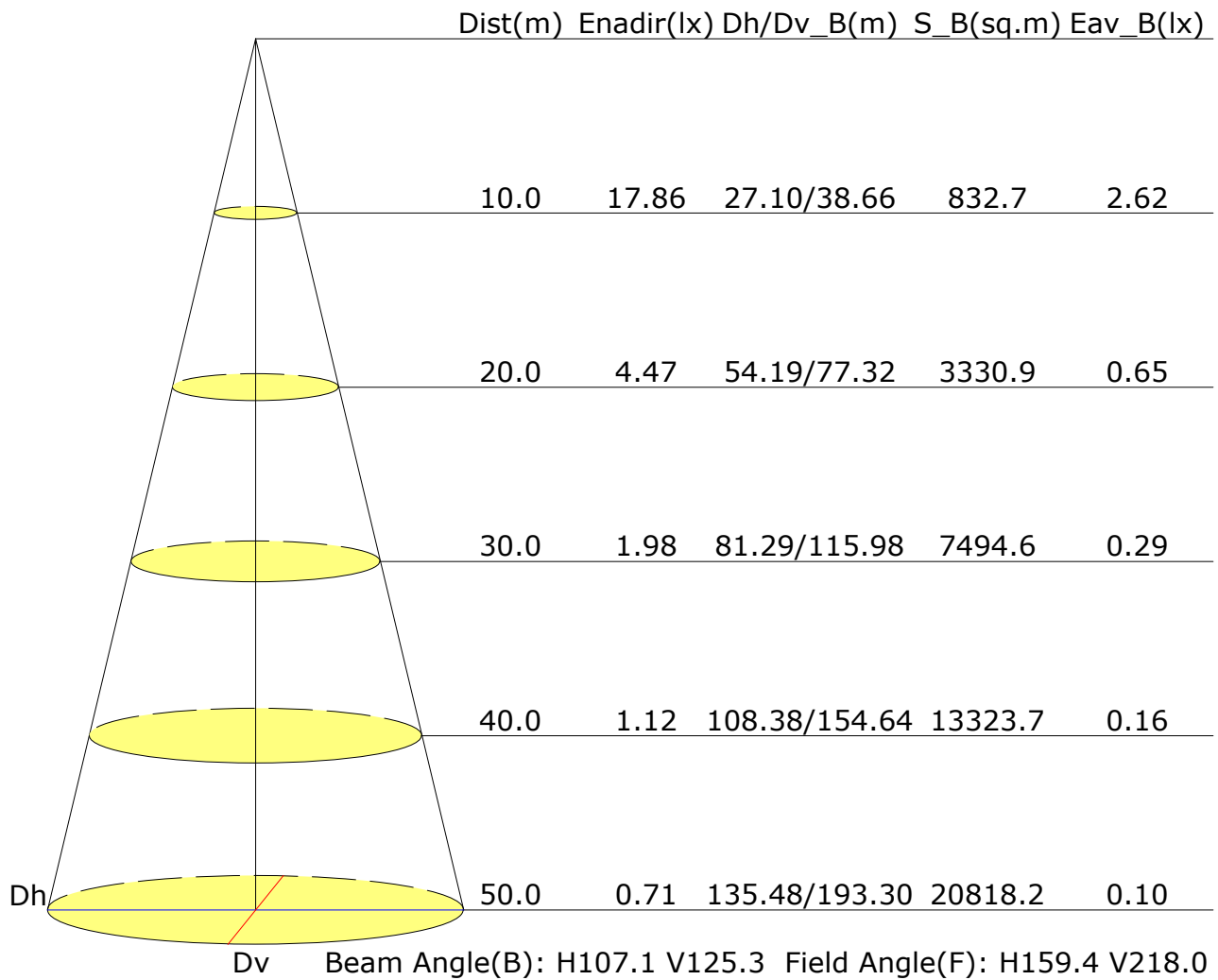


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2724	2533	2332	2102	1848	1550	1199	797	388
C90	3767	3766	3779	3817	3892	4038	4325	4926	6321
C180	2771	2590	2392	2173	1922	1629	1286	890	465
C270	3649	3636	3632	3655	3708	3828	4079	4629	5926

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	14.7	16.0	15.1	16.4	16.8	16.4	17.8	16.8	18.1	18.5
3H	15.9	17.1	16.4	17.6	18.0	18.5	19.7	18.9	20.1	20.6
4H	16.4	17.5	16.8	17.9	18.4	19.6	20.7	20.0	21.1	21.6
6H	16.6	17.7	17.1	18.1	18.6	20.6	21.7	21.1	22.2	22.7
8H	16.7	17.7	17.1	18.2	18.7	21.2	22.3	21.7	22.7	23.2
12H	16.7	17.7	17.2	18.1	18.6	21.8	22.8	22.3	23.3	23.8
X=4H Y=2H	15.5	16.7	16.0	17.1	17.6	16.9	18.0	17.3	18.5	18.9
3H	17.0	18.0	17.5	18.5	19.0	19.2	20.2	19.7	20.6	21.2
4H	17.5	18.5	18.1	18.9	19.5	20.4	21.3	20.9	21.8	22.3
6H	17.9	18.7	18.5	19.3	19.8	21.7	22.5	22.2	23.0	23.6
8H	18.0	18.8	18.6	19.3	19.9	22.3	23.1	22.9	23.6	24.2
12H	18.1	18.8	18.6	19.3	19.9	23.0	23.7	23.6	24.3	24.9
X=8H Y=4H	18.1	18.9	18.7	19.4	20.0	20.6	21.4	21.2	21.9	22.5
6H	18.7	19.4	19.3	19.9	20.6	22.1	22.7	22.7	23.3	23.9
8H	19.0	19.5	19.6	20.1	20.7	22.9	23.4	23.5	24.0	24.7
12H	19.1	19.6	19.7	20.2	20.8	23.8	24.3	24.4	24.9	25.5
X=12H Y=4H	18.3	19.0	18.9	19.5	20.1	20.6	21.3	21.2	21.8	22.4
6H	19.0	19.6	19.6	20.1	20.8	22.1	22.7	22.7	23.3	23.9
8H	19.3	19.8	19.9	20.4	21.1	23.0	23.5	23.6	24.1	24.8
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					+0.4/-0.5				
S=2.0H	+0.5/-1.0					+0.6/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 6050lm ($8\log(F/F_0) = 6.3$).

C Plane (°):0.0-360.0: 22.5
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 Test Type: TYPE C
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 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	0.52	0.62	0.69	0.74	0.81	0.86	0.90	0.95	0.98	
	0.30		0.44	0.54	0.61	0.66	0.74	0.80	0.84	0.90	0.94	
	0.20		0.38	0.47	0.55	0.60	0.69	0.75	0.79	0.86	0.90	
0.50	0.50	0.20	0.50	0.59	0.65	0.70	0.77	0.81	0.85	0.89	0.92	
	0.30		0.42	0.52	0.58	0.64	0.71	0.76	0.80	0.85	0.89	
	0.20		0.37	0.46	0.53	0.58	0.66	0.72	0.76	0.82	0.86	
0.30	0.50	0.20	0.47	0.56	0.62	0.66	0.73	0.77	0.80	0.84	0.87	
	0.30		0.41	0.50	0.56	0.61	0.68	0.73	0.76	0.81	0.84	
	0.20		0.36	0.45	0.52	0.57	0.64	0.69	0.73	0.78	0.82	
0.00	0.00	0.00	0.33	0.42	0.48	0.52	0.59	0.64	0.67	0.72	0.75	
Rating:49W 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	0.75	0.66	0.54	0.45	0.39	0.31	0.26	
	0.30		0.86	0.74	0.65	0.58	0.48	0.41	0.36	0.29	0.25	
	0.20		0.74	0.64	0.58	0.52	0.44	0.38	0.34	0.28	0.23	
0.50	0.50	0.20	0.98	0.82	0.71	0.62	0.51	0.46	0.37	0.29	0.24	
	0.30		0.83	0.71	0.62	0.56	0.46	0.40	0.35	0.28	0.23	
	0.20		0.72	0.63	0.56	0.50	0.43	0.37	0.33	0.26	0.22	
0.30	0.50	0.20	0.93	0.77	0.67	0.59	0.48	0.40	0.35	0.28	0.23	
	0.30		0.80	0.68	0.60	0.53	0.44	0.38	0.33	0.27	0.22	
	0.20		0.70	0.61	0.54	0.49	0.41	0.35	0.31	0.25	0.21	
0.00	0.00	0.00	0.59	0.51	0.45	0.40	0.33	0.29	0.25	0.20	0.17	
Rating:49W 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	0.24	0.25	0.26	0.27	0.28	0.28	0.29	0.29	0.29	
	0.30		0.17	0.18	0.20	0.21	0.22	0.23	0.24	0.26	0.26	
	0.20		0.12	0.13	0.15	0.16	0.18	0.19	0.21	0.22	0.23	
0.50	0.50	0.20	0.23	0.24	0.25	0.26	0.27	0.27	0.27	0.28	0.28	
	0.30		0.17	0.18	0.19	0.20	0.22	0.23	0.23	0.25	0.25	
	0.20		0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23	
0.30	0.50	0.20	0.22	0.24	0.24	0.25	0.26	0.26	0.26	0.27	0.27	
	0.30		0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.24	
	0.20		0.12	0.13	0.14	0.15	0.17	0.19	0.20	0.21	0.22	
0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
Rating:49W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												