

Report No.: 1

Test Time: 18.11.2019 14:40

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58_750 1x76LED 0,21A 12W 4000K microprisma

Luminous Length (mm): 750

Luminous Width (mm): 70

Luminous Height (mm): 65

Voltage: 221.4 V

Current: 0.067 A

Power: 13.51 W

Power Factor: 0.907

Photometric Results

CIE Class: Direct

Measurement Flux: 1850.2 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 1850.2 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.3, 157.0, 148.8, 149.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 81.9, 81.2, 79.7, 79.6

Luminaire Efficacy Rating (LER): 137.00

Central Intensity: 914.85 cd

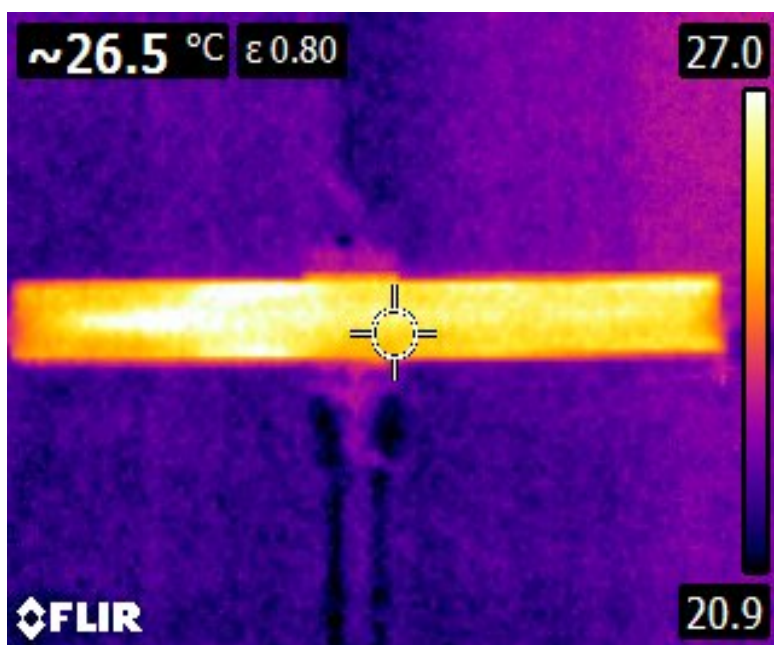
Max. Intensity: 916.49 cd

Pos of Max. Intensity: H270 V1

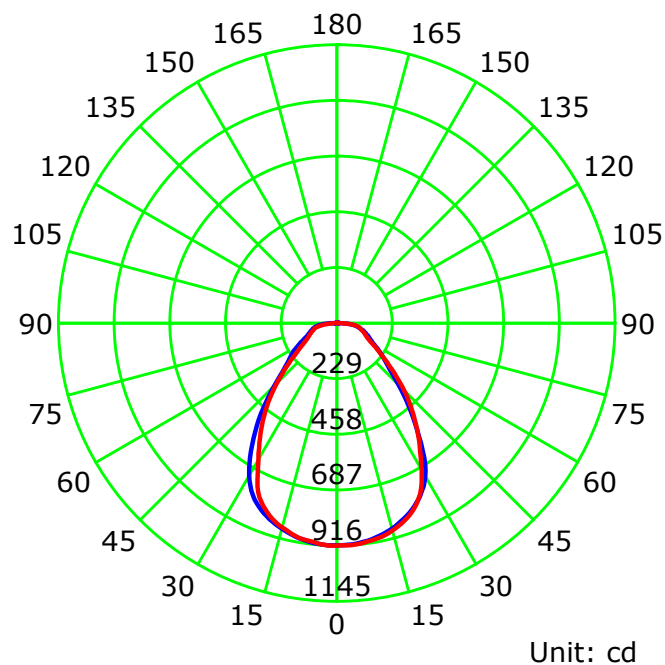
S/MH(C0/C180): 1.18

S/MH(C90/C270): 1.12

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

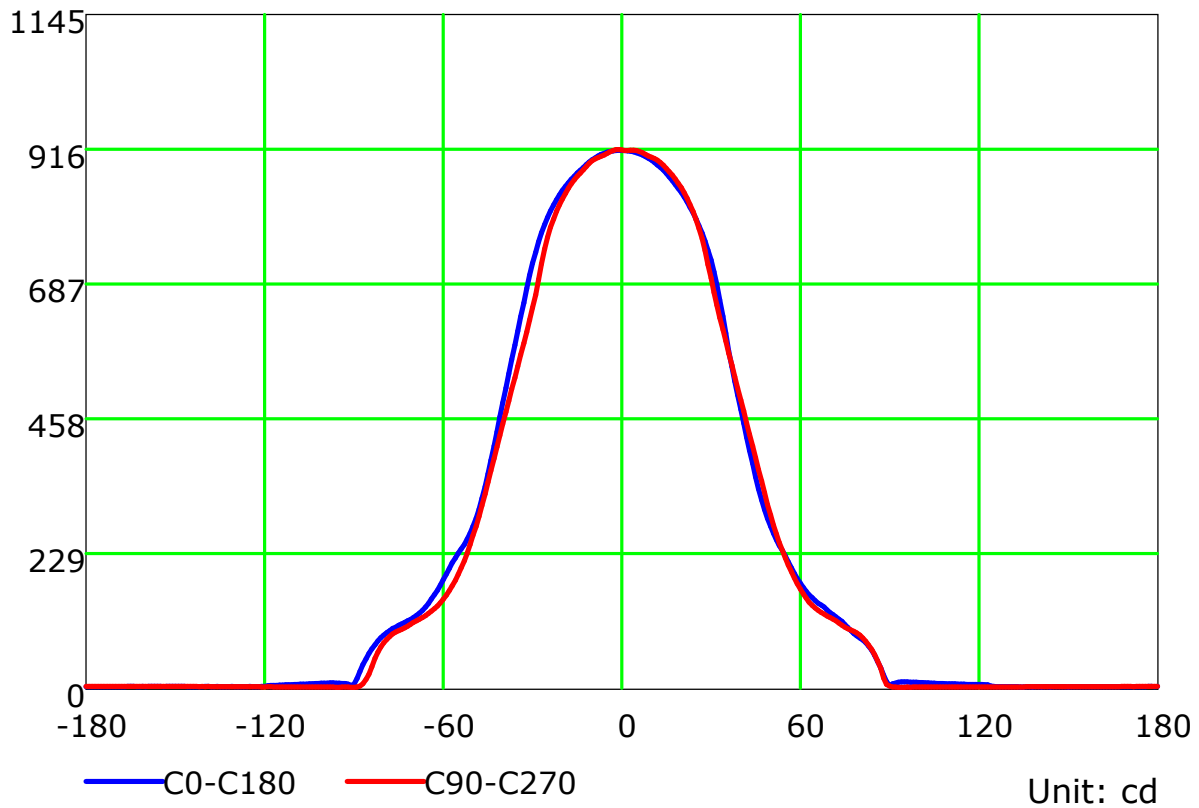
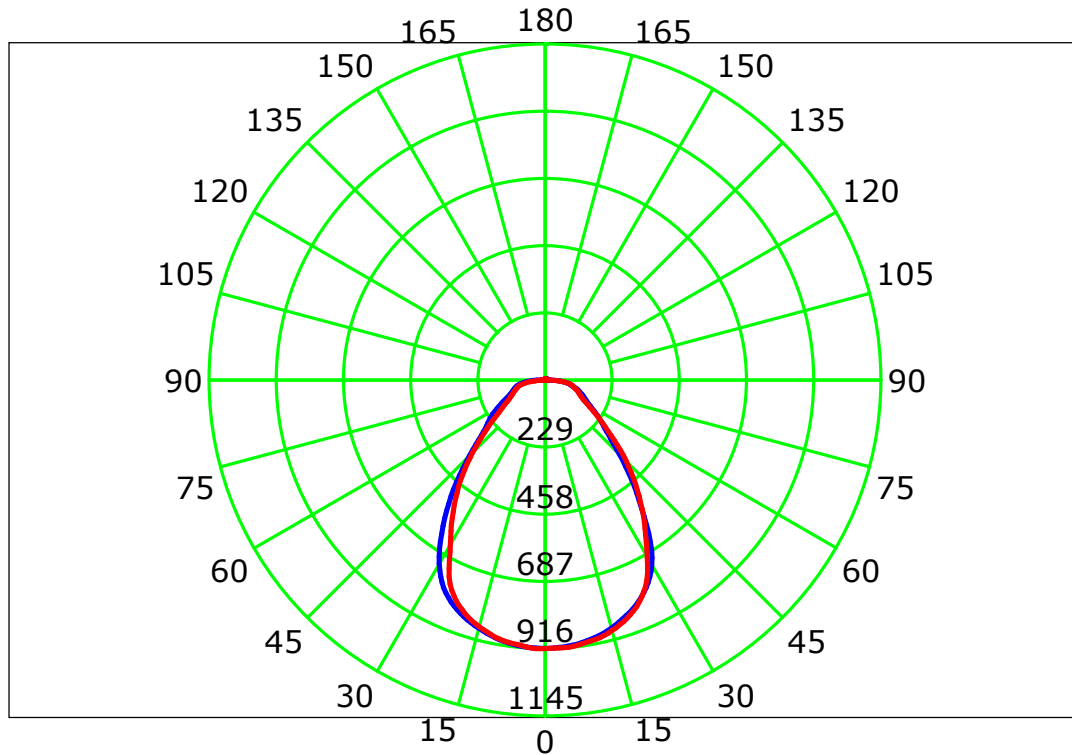
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

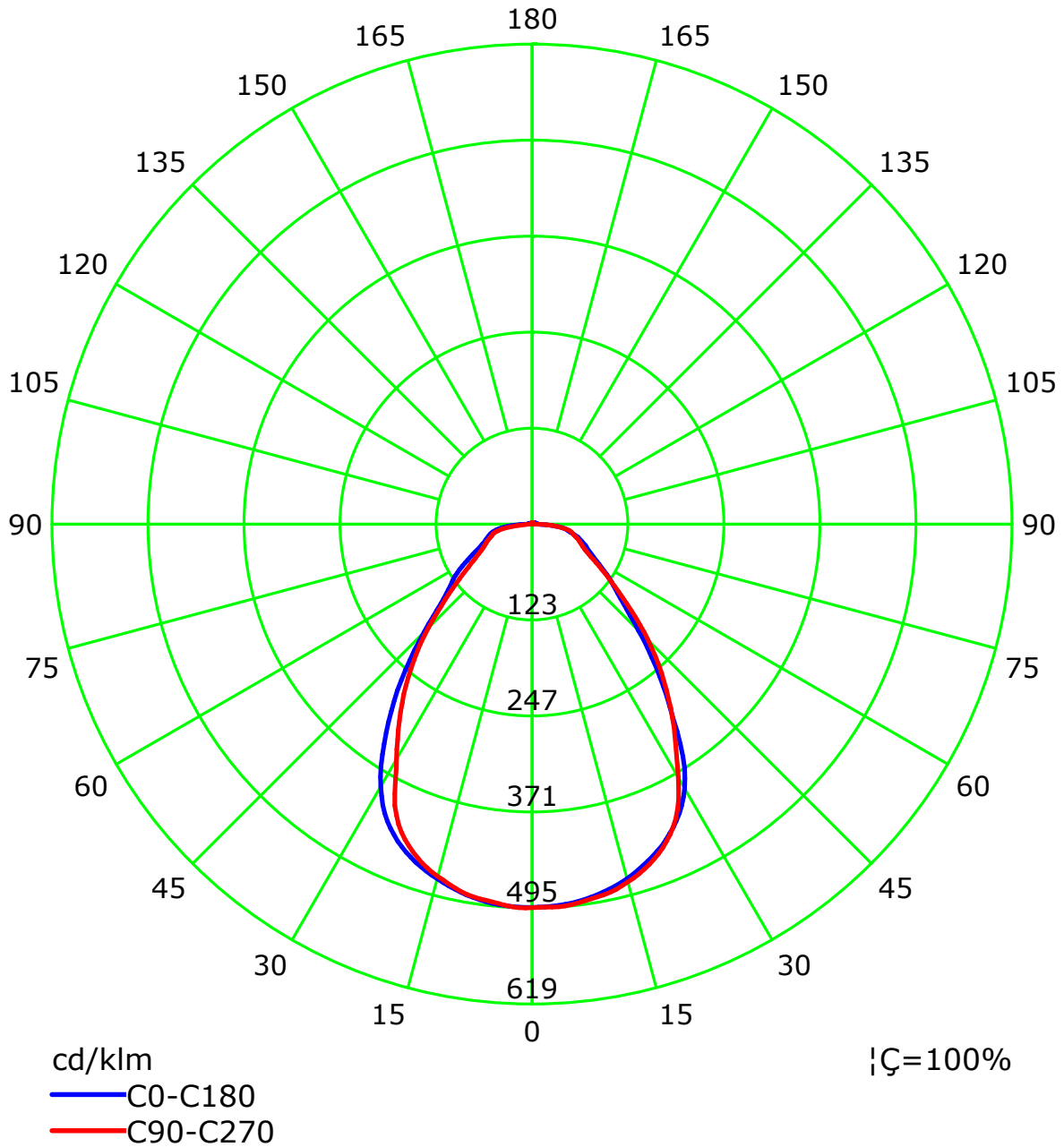
Luminous Intensity Distribution Curve



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:

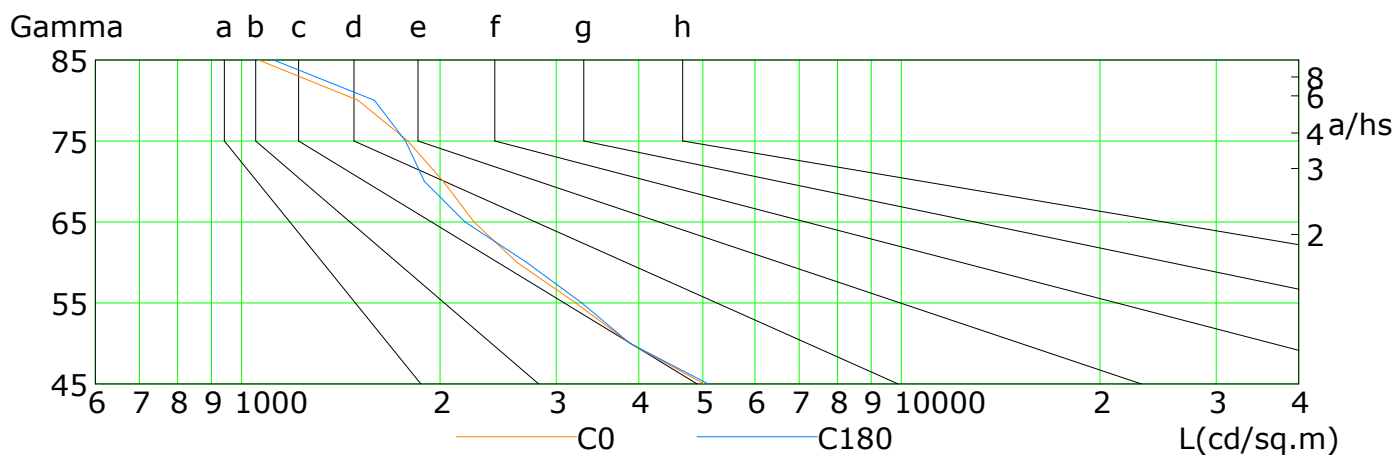
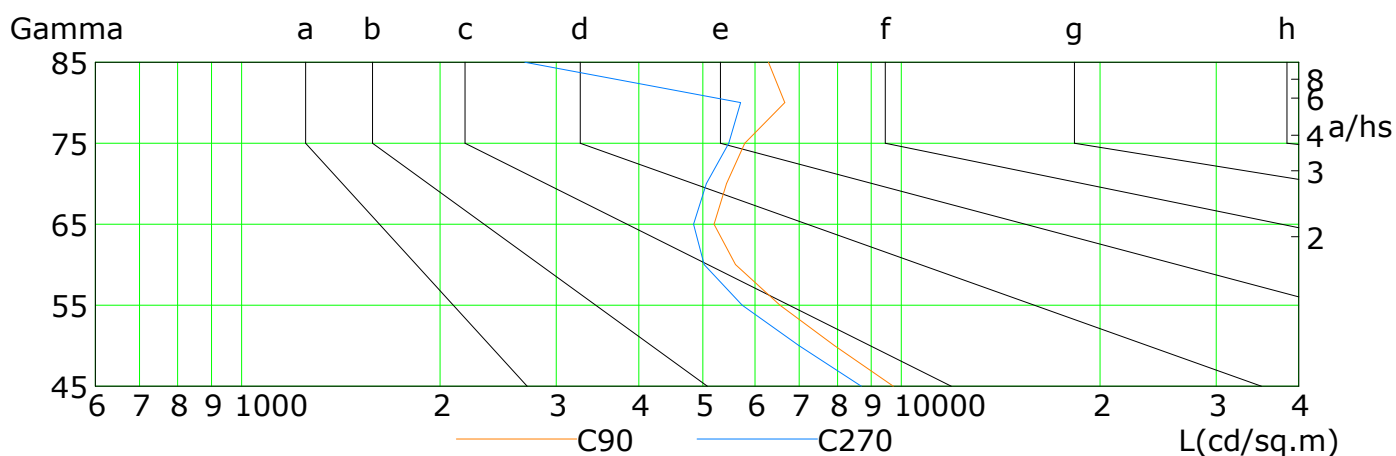
Luminous Intensity Distribution Curve(cd/klm)



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

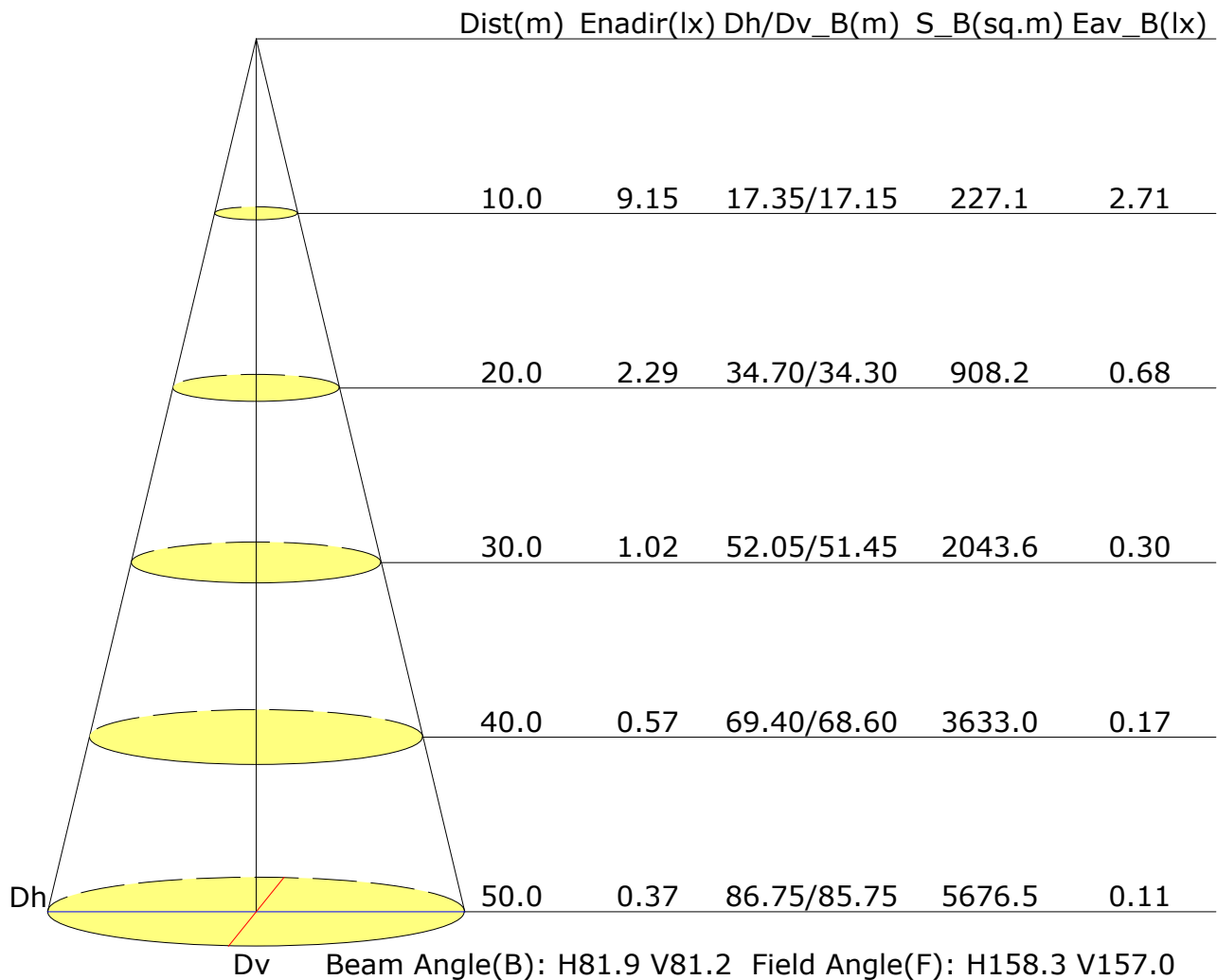


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5022	3876	3210	2615	2250	2021	1786	1502	1061
C90	9724	7917	6547	5606	5198	5434	5790	6657	6291
C180	5098	3878	3279	2702	2181	1892	1771	1590	1119
C270	8689	6988	5737	5026	4842	5063	5473	5706	2689

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	16.1	17.3	16.4	17.5	17.8	17.1	18.3	17.4	18.5	18.8
3H	17.0	18.1	17.4	18.4	18.7	18.3	19.4	18.6	19.7	20.0
4H	17.5	18.6	17.9	18.9	19.2	19.0	20.1	19.4	20.4	20.7
6H	17.9	18.9	18.3	19.2	19.6	19.8	20.8	20.2	21.1	21.5
8H	18.1	19.1	18.5	19.4	19.8	20.2	21.1	20.6	21.5	21.8
12H	18.2	19.1	18.6	19.5	19.9	20.4	21.3	20.8	21.7	22.1
X=4H Y=2H	16.4	17.5	16.8	17.8	18.1	17.3	18.3	17.6	18.6	18.9
3H	17.6	18.5	18.0	18.9	19.2	18.7	19.6	19.1	19.9	20.3
4H	18.2	19.1	18.7	19.4	19.8	19.6	20.4	20.0	20.7	21.1
6H	18.8	19.5	19.2	19.9	20.4	20.5	21.3	21.0	21.7	22.1
8H	19.0	19.7	19.5	20.1	20.6	21.0	21.6	21.4	22.1	22.5
12H	19.2	19.8	19.7	20.3	20.7	21.3	21.9	21.7	22.3	22.8
X=8H Y=4H	18.5	19.1	18.9	19.6	20.0	19.7	20.4	20.1	20.8	21.2
6H	19.2	19.7	19.6	20.2	20.6	20.8	21.3	21.3	21.8	22.3
8H	19.5	19.9	20.0	20.4	20.9	21.3	21.8	21.8	22.2	22.7
12H	19.7	20.1	20.2	20.6	21.2	21.6	22.1	22.2	22.6	23.1
X=12H Y=4H	18.5	19.1	19.0	19.5	20.0	19.7	20.3	20.2	20.7	21.2
6H	19.2	19.7	19.7	20.2	20.7	20.8	21.3	21.3	21.7	22.3
8H	19.6	20.0	20.1	20.5	21.0	21.3	21.7	21.8	22.2	22.8
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.5					+0.3/-0.3				
S=1.5H	+0.7/-1.0					+0.7/-0.7				
S=2.0H	+1.3/-1.4					+1.4/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 1850lm ($8\log(F/F_0) = 2.1$).

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:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.00									
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	0.63	0.72	0.79	0.83	0.90	0.94	0.97	1.02	1.04	
	0.30		0.56	0.65	0.72	0.77	0.84	0.89	0.93	0.98	1.01	
	0.20		0.51	0.60	0.67	0.72	0.80	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.61	0.70	0.76	0.81	0.87	0.91	0.94	0.97	1.00	
	0.30		0.55	0.64	0.70	0.75	0.82	0.86	0.90	0.94	0.97	
	0.20		0.50	0.59	0.66	0.71	0.78	0.83	0.86	0.91	0.95	
0.30	0.50	0.20	0.60	0.68	0.74	0.78	0.84	0.87	0.90	0.93	0.96	
	0.30		0.54	0.63	0.69	0.73	0.80	0.84	0.87	0.91	0.93	
	0.20		0.50	0.59	0.65	0.70	0.76	0.81	0.84	0.89	0.91	
0.00	0.00	0.00	0.47	0.56	0.62	0.66	0.73	0.77	0.80	0.84	0.86	
Rating:14W 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 = 1.00									
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	0.90	0.74	0.63	0.55	0.44	0.37	0.32	0.25	0.20	
	0.30		0.75	0.63	0.55	0.49	0.40	0.34	0.29	0.23	0.19	
	0.20		0.64	0.55	0.49	0.44	0.37	0.31	0.27	0.22	0.18	
0.50	0.50	0.20	0.87	0.71	0.60	0.53	0.42	0.38	0.30	0.23	0.19	
	0.30		0.73	0.62	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.64	0.54	0.48	0.43	0.35	0.30	0.26	0.21	0.18	
0.30	0.50	0.20	0.84	0.68	0.58	0.50	0.40	0.33	0.28	0.22	0.18	
	0.30		0.71	0.60	0.52	0.45	0.37	0.31	0.27	0.21	0.18	
	0.20		0.63	0.53	0.47	0.42	0.34	0.29	0.25	0.20	0.17	
0.00	0.00	0.00	0.51	0.43	0.37	0.33	0.26	0.22	0.19	0.15	0.13	
Rating:14W 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 = 1.00									
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	0.12	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.06	0.08	0.10	0.11	0.13	0.14	0.16	0.17	0.18	
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	0.13	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.17	0.18	0.19	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:14W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												