

Report No.: 1

Test Time: 01.10.2019 13:38

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58_750 152LED 0,3A 18W 4000K microprisma

Luminous Length (mm): 750

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 221.0 V

Current: 0.088 A

Power: 18.37 W

Power Factor: 0.938

Photometric Results

CIE Class: Direct

Measurement Flux: 2510 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 2510.0 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.5, 156.5, 149.5, 149.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 82.2, 81.6, 80.0, 79.9

Luminaire Efficacy Rating (LER): 136.69

Central Intensity: 1239.93 cd

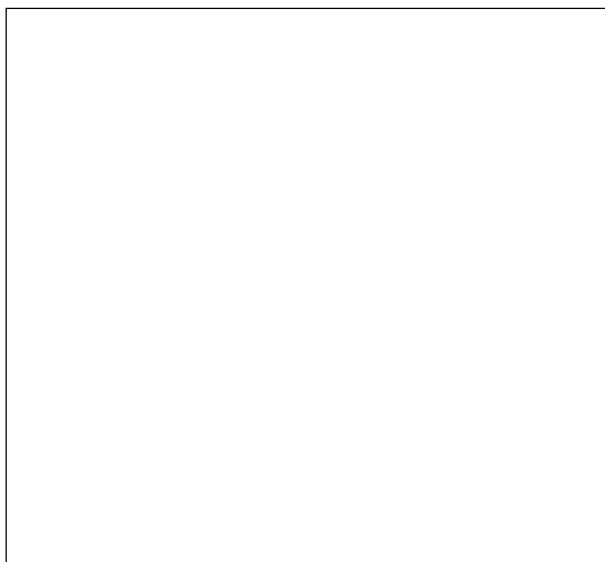
Max. Intensity: 1239.94 cd

Pos of Max. Intensity: H0 V0

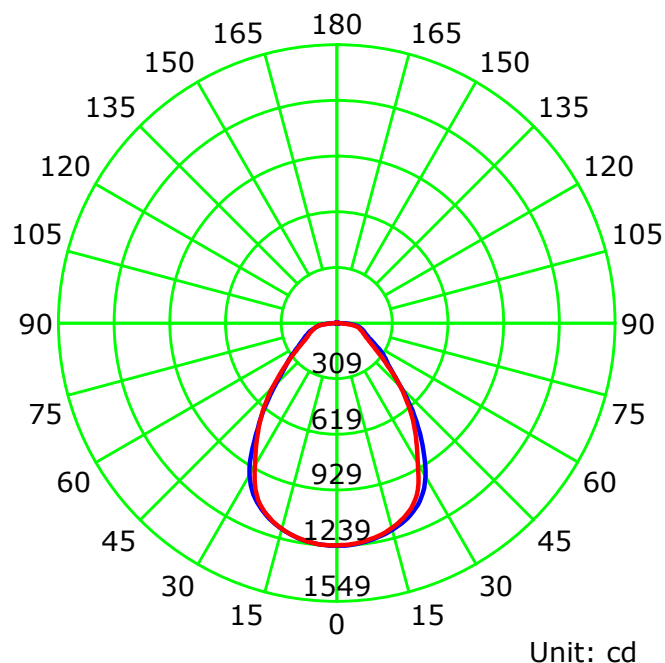
S/MH(C0/C180): 1.18

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

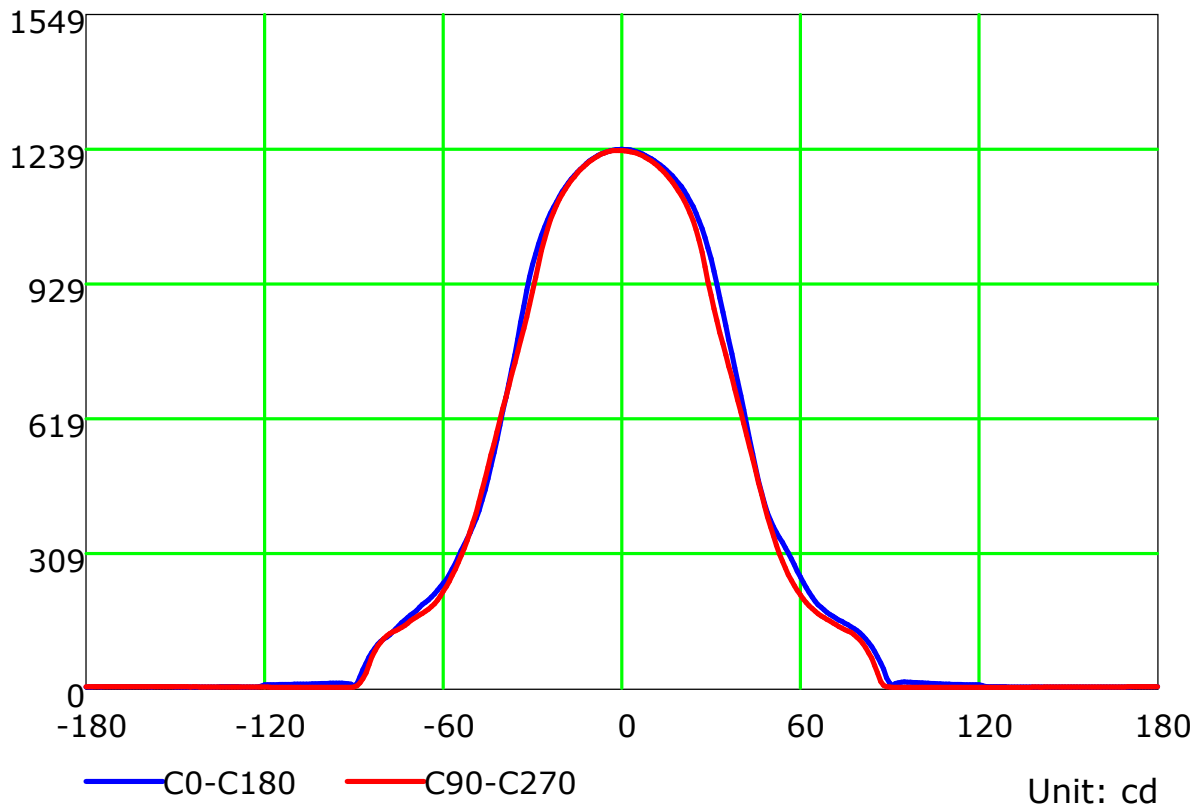
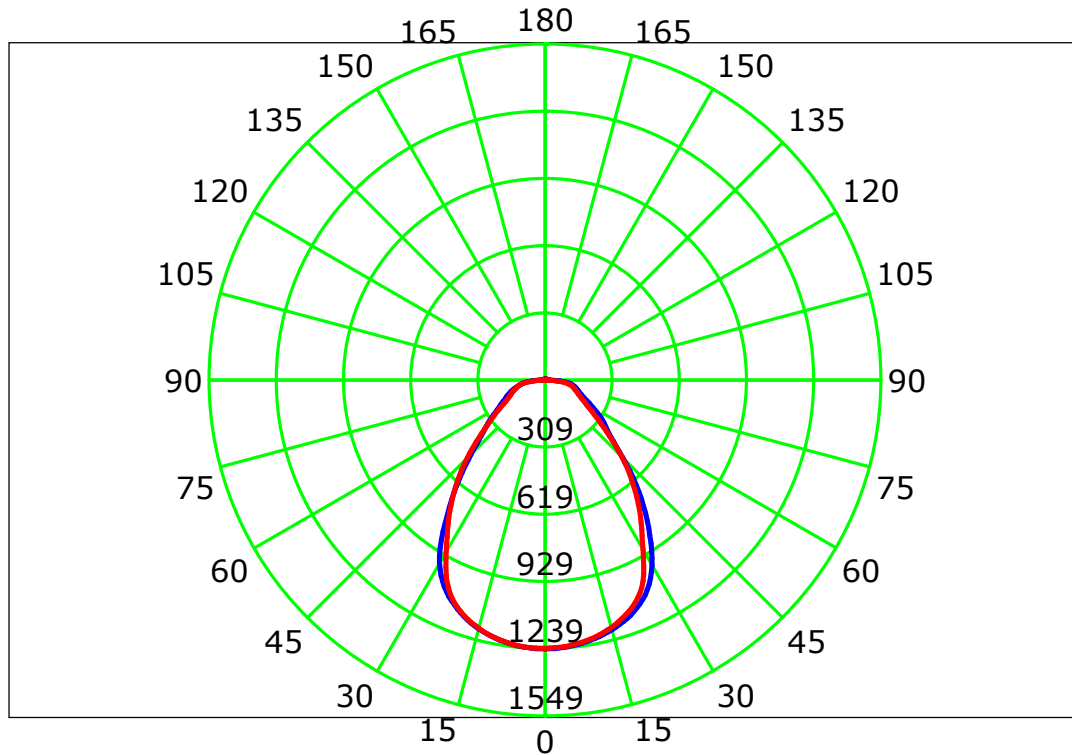
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

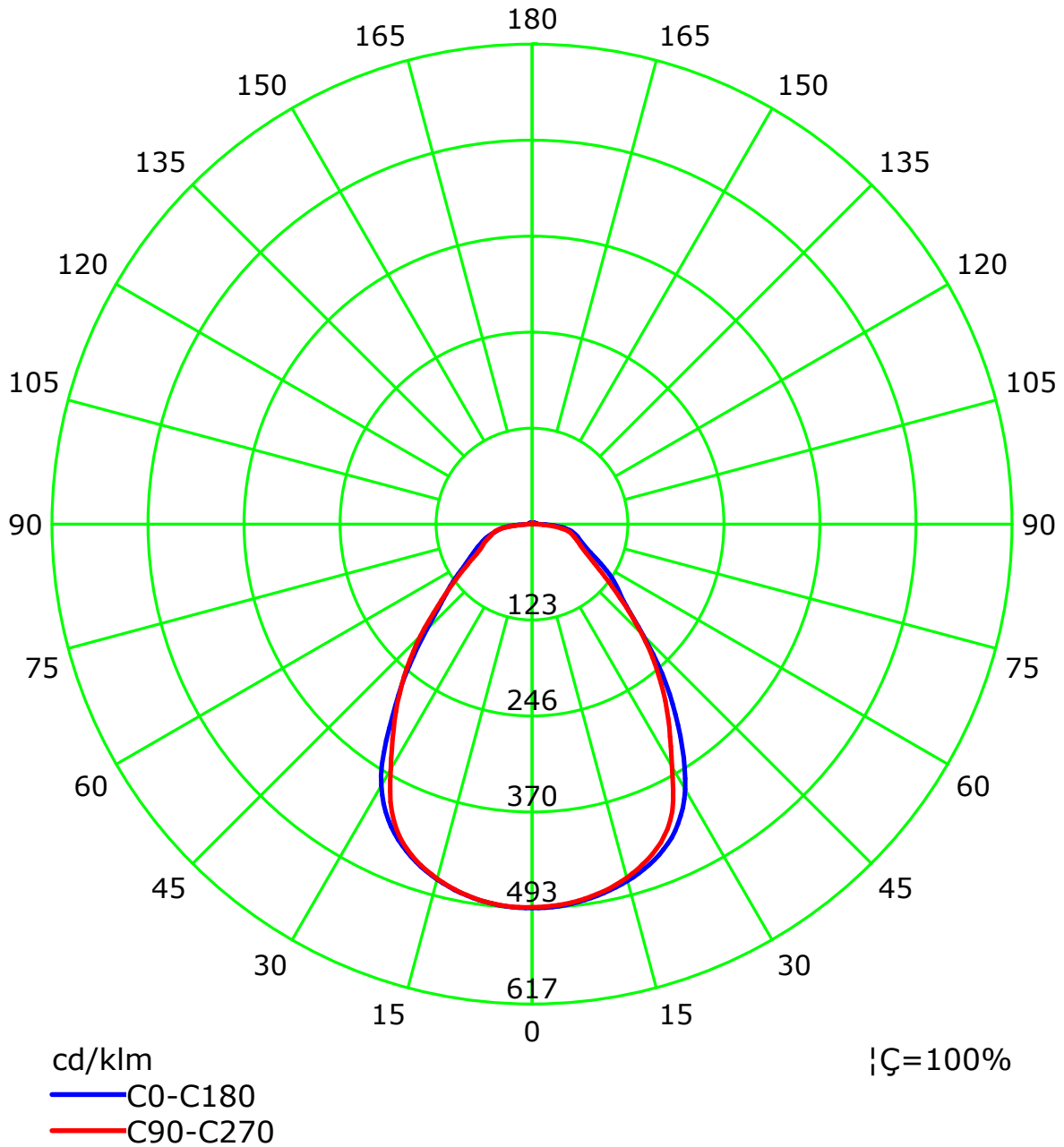
Luminous Intensity Distribution Curve



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:

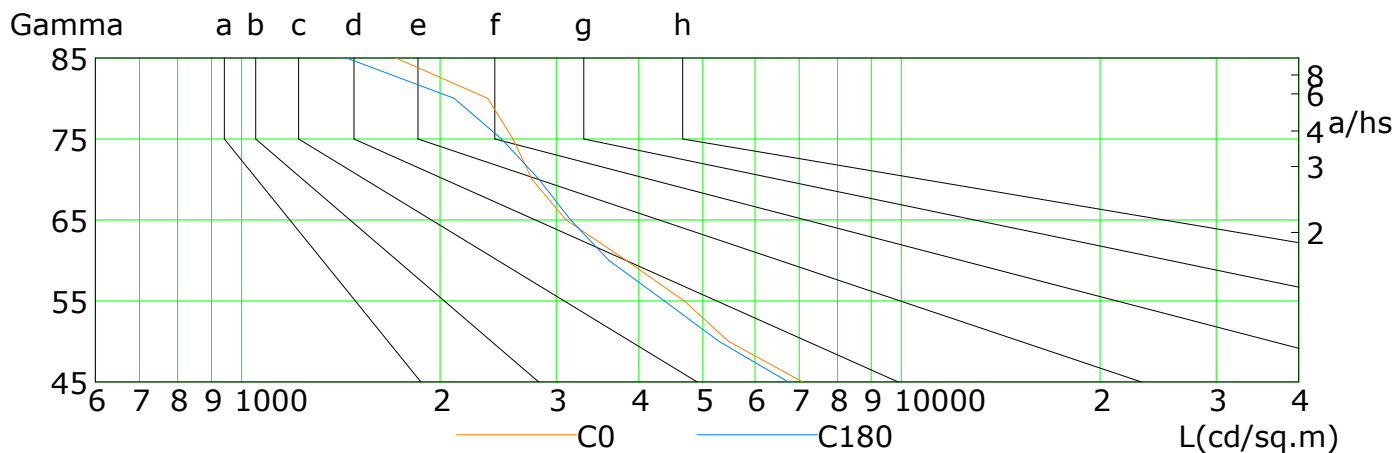
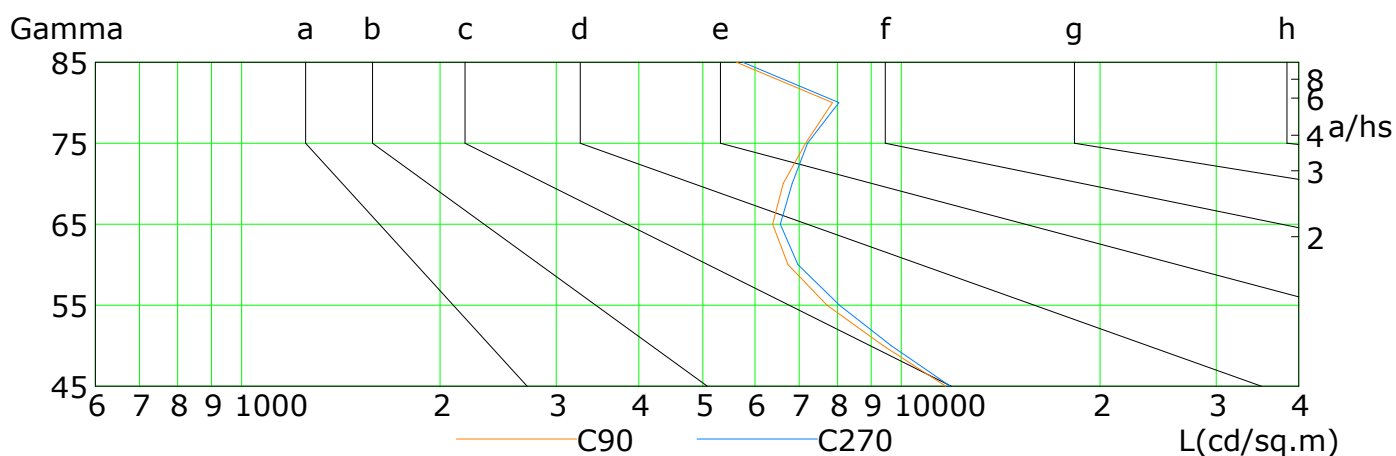
Luminous Intensity Distribution Curve(cd/klm)



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

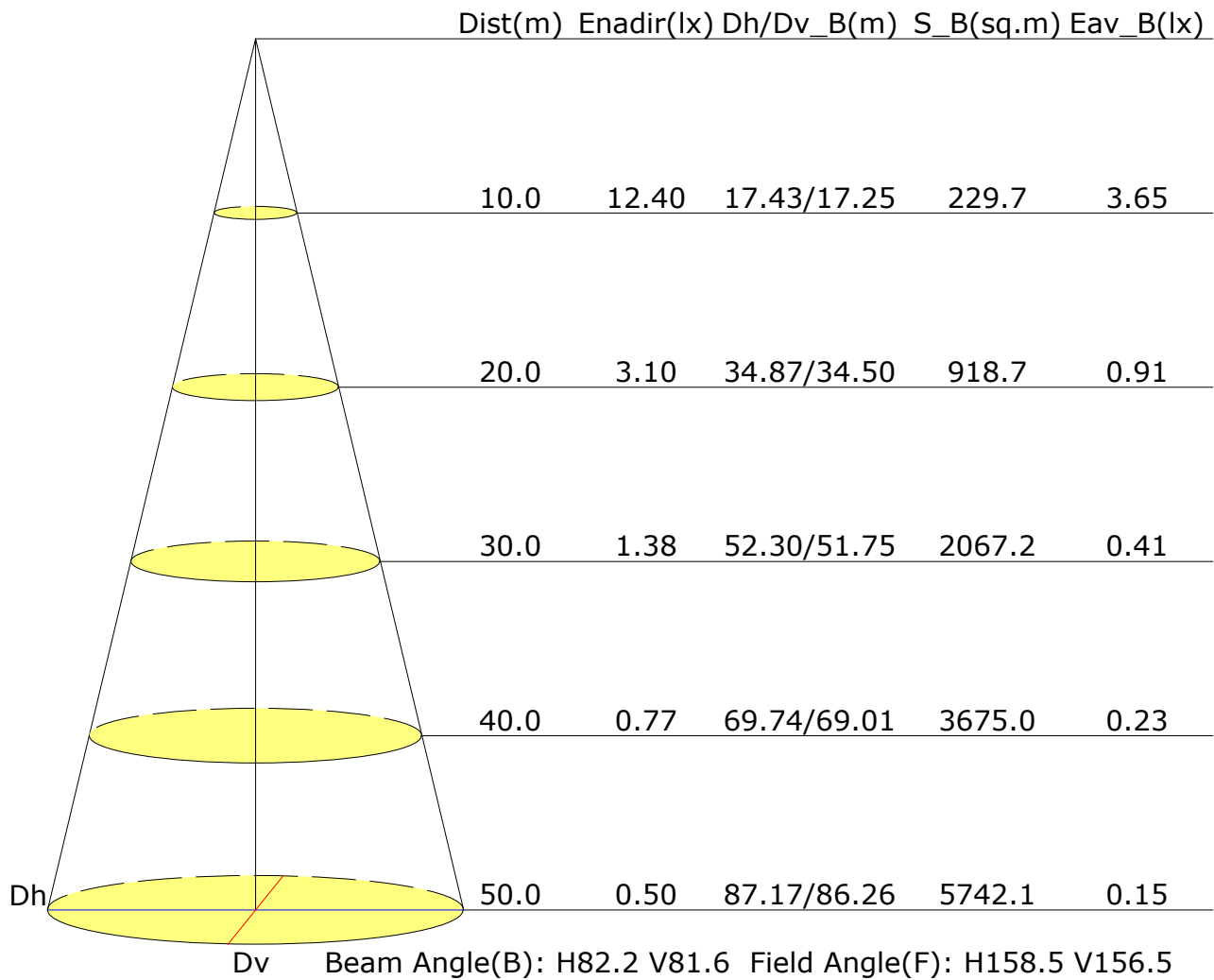


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	7087	5471	4686	3826	3105	2755	2580	2362	1713
C90	11678	9382	7710	6730	6383	6617	7158	7865	5625
C180	6737	5290	4375	3601	3152	2824	2478	2101	1443
C270	11853	9640	8061	6968	6553	6828	7208	8042	5749

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	17.4	18.6	17.7	18.9	19.1	18.2	19.4	18.5	19.7	20.0
3H	18.3	19.4	18.6	19.7	20.0	19.4	20.5	19.7	20.8	21.1
4H	18.8	19.8	19.1	20.1	20.4	20.1	21.2	20.5	21.5	21.8
6H	19.3	20.2	19.6	20.6	20.9	20.9	21.9	21.3	22.2	22.5
8H	19.5	20.4	19.8	20.8	21.1	21.2	22.2	21.6	22.5	22.9
12H	19.6	20.5	20.0	20.9	21.2	21.5	22.4	21.9	22.7	23.1
X=4H Y=2H	17.7	18.8	18.1	19.1	19.4	18.4	19.5	18.8	19.8	20.1
3H	18.9	19.8	19.3	20.1	20.5	19.8	20.7	20.2	21.1	21.5
4H	19.5	20.3	19.9	20.7	21.1	20.7	21.5	21.1	21.9	22.3
6H	20.1	20.9	20.6	21.3	21.7	21.6	22.3	22.1	22.7	23.2
8H	20.4	21.1	20.9	21.5	21.9	22.0	22.7	22.5	23.1	23.6
12H	20.6	21.2	21.1	21.7	22.1	22.3	22.9	22.8	23.4	23.8
X=8H Y=4H	19.7	20.4	20.2	20.8	21.3	20.8	21.5	21.3	21.9	22.3
6H	20.5	21.0	21.0	21.5	22.0	21.9	22.4	22.4	22.9	23.4
8H	20.9	21.3	21.4	21.8	22.3	22.4	22.9	22.9	23.3	23.8
12H	21.1	21.6	21.7	22.1	22.6	22.7	23.1	23.2	23.6	24.2
X=12H Y=4H	19.8	20.4	20.2	20.8	21.3	20.8	21.4	21.3	21.9	22.3
6H	20.6	21.0	21.1	21.5	22.0	21.9	22.4	22.4	22.9	23.4
8H	20.9	21.4	21.5	21.9	22.4	22.4	22.8	22.9	23.3	23.9
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.3/-0.3				
S=1.5H	+0.6/-0.9					+0.7/-0.8				
S=2.0H	+1.2/-1.5					+1.4/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 2510lm ($8\log(F/F_0) = 3.2$).

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	0.98	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		0.50	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	0.94	0.96	
	0.30		0.54	0.63	0.69	0.73	0.80	0.84	0.87	0.91	0.94	
	0.20		0.50	0.59	0.65	0.70	0.76	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.47	0.56	0.62	0.66	0.73	0.77	0.80	0.84	0.87	
Rating:18W 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	0.64	0.55	0.49	0.40	0.34	0.29	0.23	0.19	
	0.20		0.65	0.56	0.49	0.44	0.37	0.31	0.27	0.22	0.18	
0.50	0.50	0.20	0.87	0.71	0.61	0.53	0.42	0.38	0.30	0.23	0.19	
	0.30		0.73	0.62	0.54	0.47	0.39	0.32	0.28	0.22	0.18	
	0.20		0.64	0.55	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		0.72	0.60	0.52	0.46	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	0.52	0.43	0.37	0.33	0.26	0.22	0.19	0.15	0.13	
Rating:18W 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	0.21	0.22	0.23	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.21	
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.11	0.12	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	0.15	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:18W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												