

Report No.: 1

Test Time: 30.10.2019 15:20

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 250 4x40LED 0,3A 15W microprisma IP54

Luminous Length (mm): 250

Luminous Width (mm): 250

Luminous Height (mm): 48

Voltage: 221.4 V

Current: 0.071 A

Power: 14.68 W

Power Factor: 0.934

Photometric Results

CIE Class: Direct

Measurement Flux: 2104.8 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 2104.8 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 161.6, 157.4, 150.3, 150.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 83.0, 79.2, 76.8, 76.6

Luminaire Efficacy Rating (LER): 143.43

Central Intensity: 1047.57 cd

Max. Intensity: 1049.24 cd

Pos of Max. Intensity: H67.5 V5

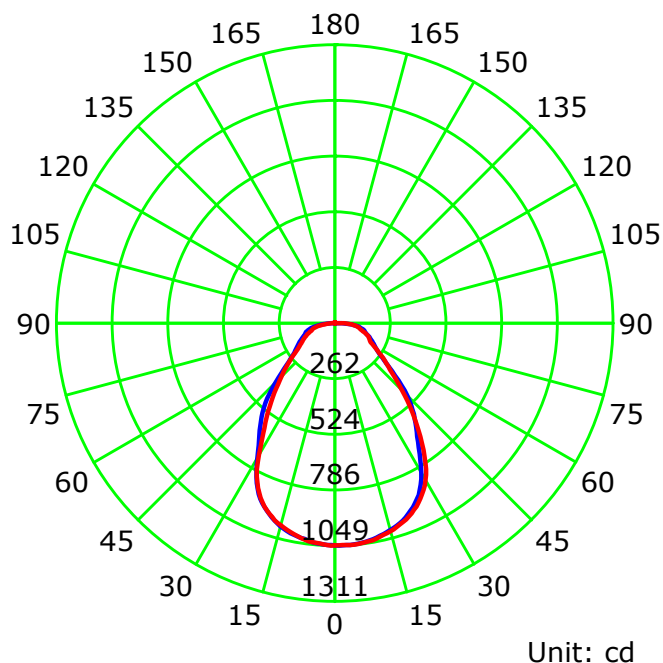
S/MH(C0/C180): 1.12

S/MH(C90/C270): 1.14

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

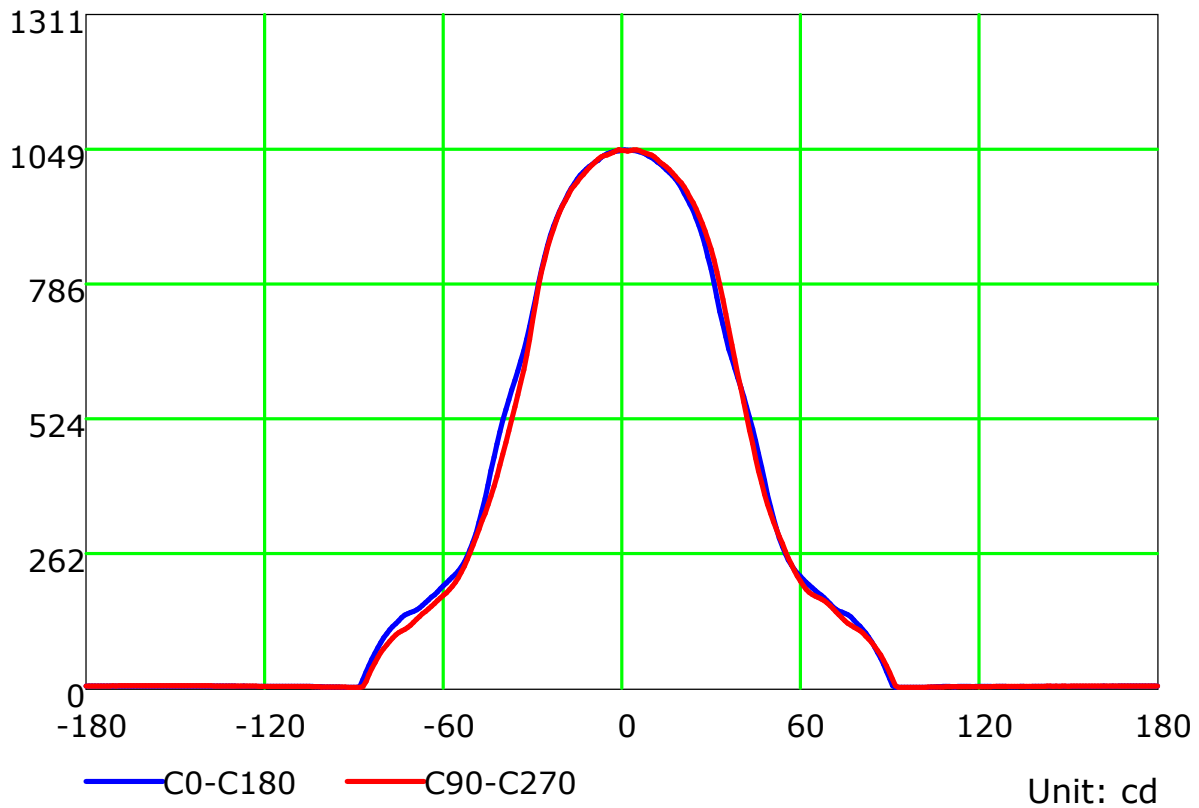
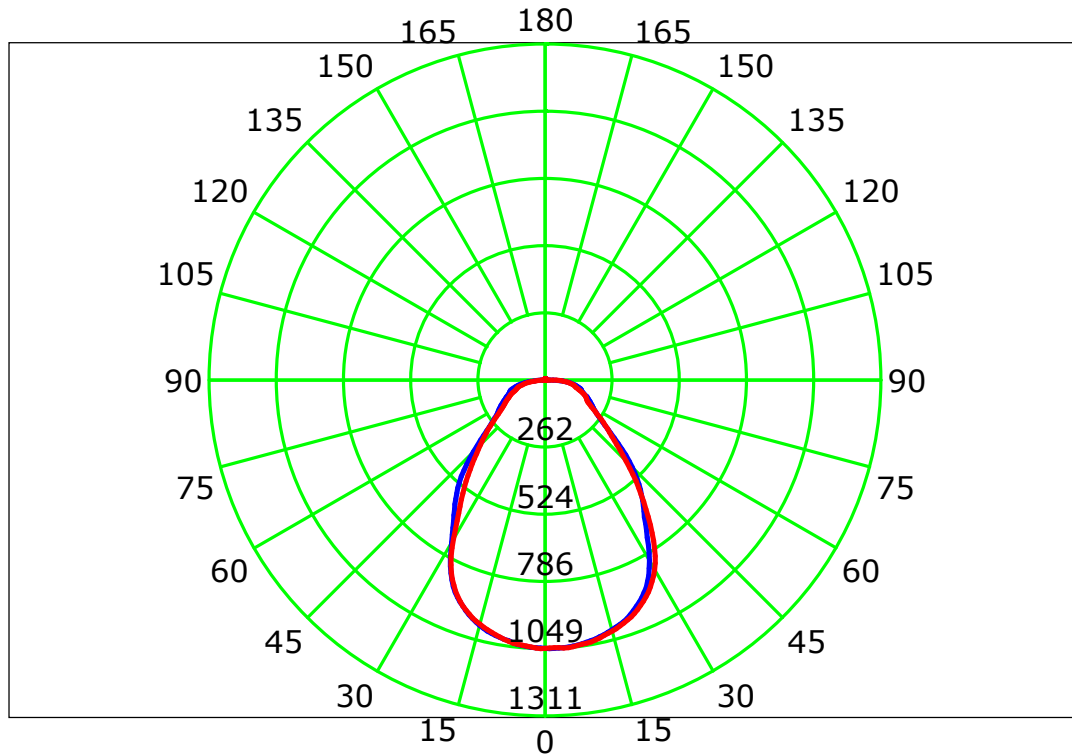
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

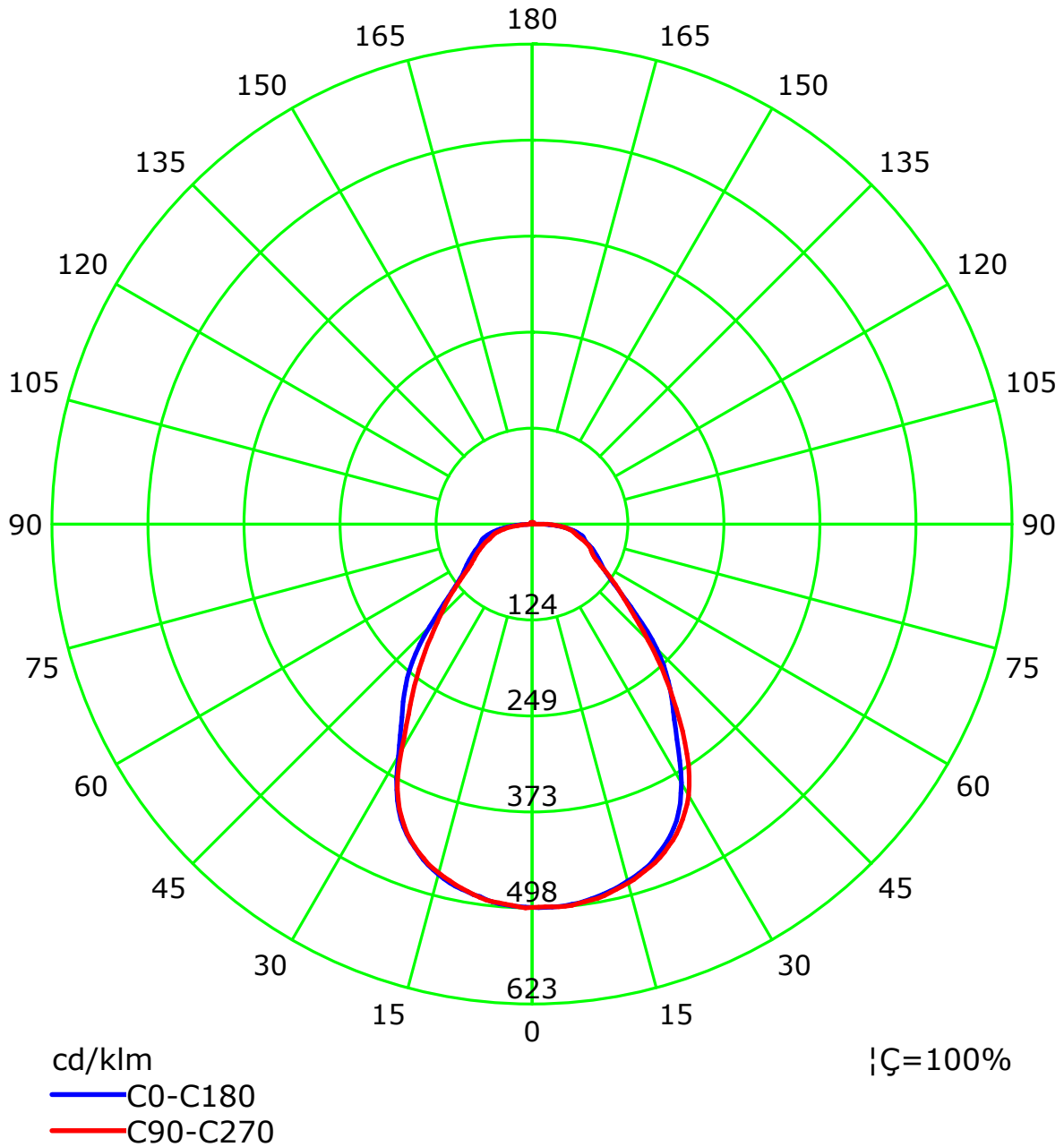
Luminous Intensity Distribution Curve



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)

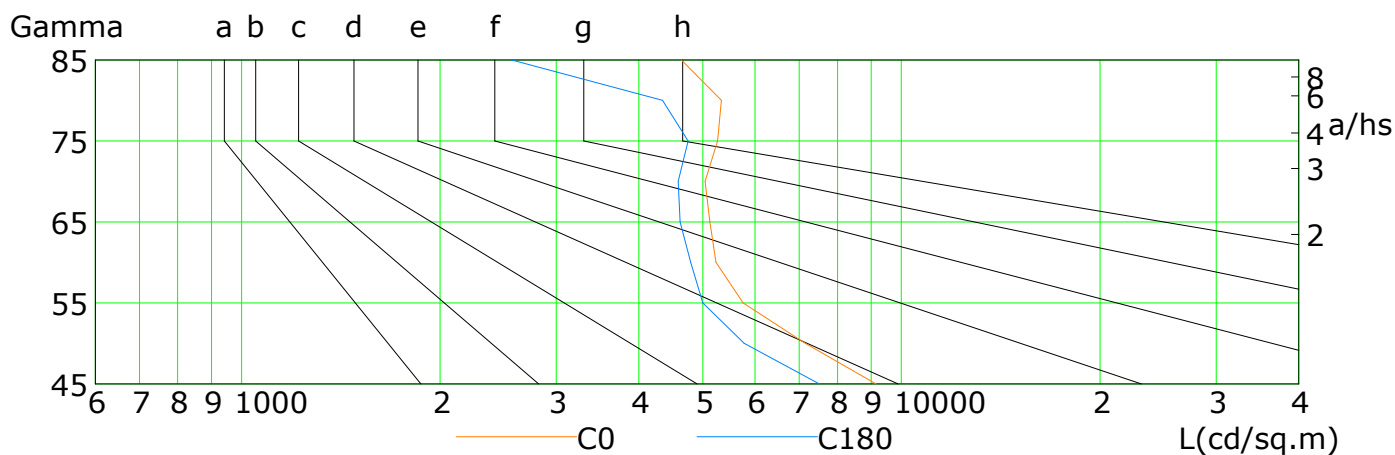
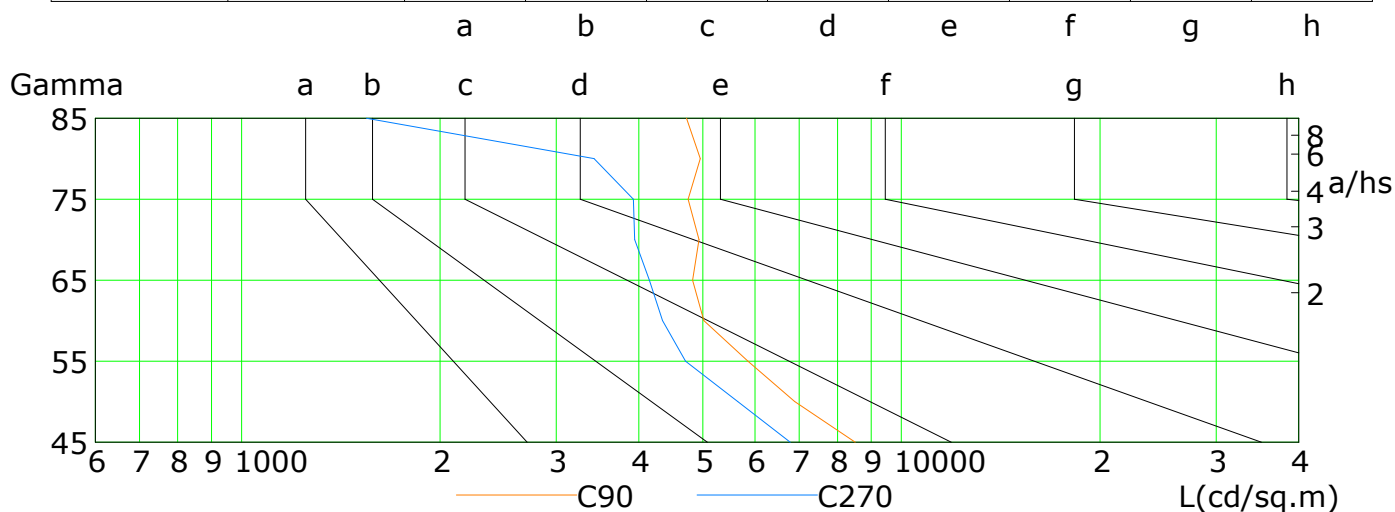


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

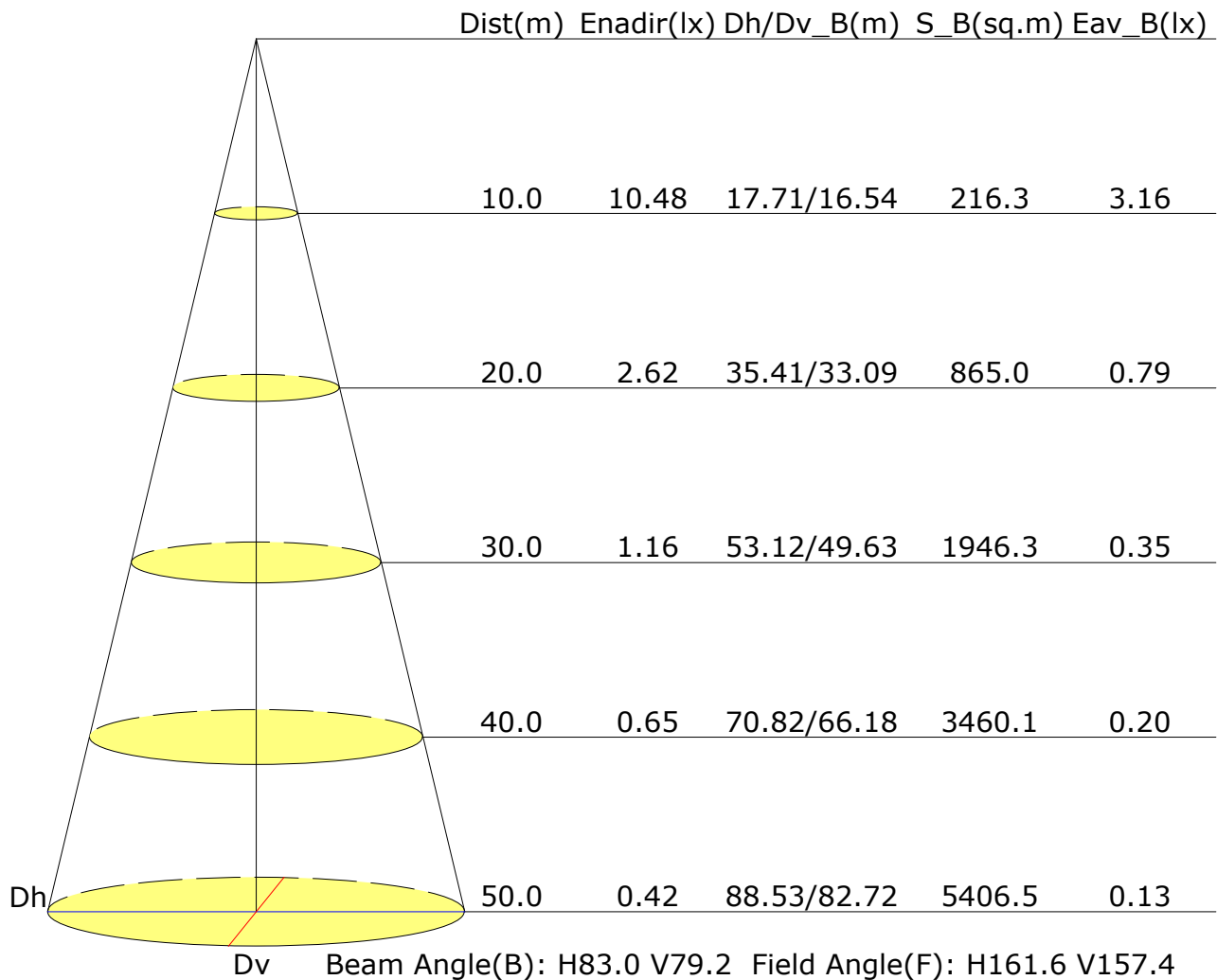


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	9149	7153	5754	5238	5128	5042	5264	5334	4638
C90	8512	6895	5851	5017	4827	4935	4751	4956	4723
C180	7512	5778	5002	4792	4618	4590	4751	4344	2566
C270	6782	5649	4708	4343	4150	3945	3924	3422	1547

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	18.0	19.3	18.3	19.5	19.8	17.6	18.9	17.9	19.1	19.4
3H	19.4	20.5	19.7	20.8	21.1	18.9	20.0	19.2	20.3	20.6
4H	20.2	21.2	20.5	21.5	21.8	19.5	20.6	19.9	20.9	21.2
6H	21.0	22.0	21.3	22.3	22.6	20.2	21.2	20.6	21.5	21.8
8H	21.3	22.3	21.7	22.6	23.0	20.5	21.4	20.8	21.8	22.1
12H	21.6	22.5	22.0	22.9	23.3	20.7	21.6	21.1	21.9	22.3
X=4H Y=2H	18.4	19.5	18.8	19.8	20.1	18.1	19.1	18.4	19.4	19.7
3H	20.0	20.9	20.4	21.3	21.6	19.6	20.5	20.0	20.8	21.2
4H	20.9	21.8	21.4	22.1	22.5	20.4	21.2	20.8	21.6	22.0
6H	21.9	22.7	22.4	23.1	23.5	21.2	21.9	21.6	22.3	22.7
8H	22.4	23.1	22.8	23.5	23.9	21.5	22.2	22.0	22.6	23.1
12H	22.8	23.4	23.2	23.8	24.3	21.8	22.4	22.3	22.9	23.3
X=8H Y=4H	21.2	21.9	21.6	22.3	22.7	20.7	21.4	21.1	21.8	22.2
6H	22.3	22.9	22.8	23.3	23.8	21.6	22.2	22.1	22.6	23.1
8H	22.9	23.4	23.4	23.9	24.4	22.1	22.6	22.6	23.0	23.6
12H	23.4	23.8	23.9	24.3	24.8	22.5	22.9	23.0	23.4	23.9
X=12H Y=4H	21.2	21.8	21.7	22.3	22.7	20.7	21.3	21.2	21.8	22.2
6H	22.4	22.9	22.9	23.4	23.9	21.7	22.2	22.2	22.7	23.2
8H	23.0	23.4	23.5	23.9	24.4	22.2	22.6	22.7	23.1	23.7
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.4				
S=1.5H	+0.5/-0.7					+0.4/-0.8				
S=2.0H	+0.9/-1.0					+0.5/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 2105lm ($8\log(F/F_0) = 2.6$).

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	0.62	0.72	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
	0.30		0.55	0.65	0.71	0.76	0.84	0.89	0.92	0.97	1.01	
	0.20		0.50	0.59	0.66	0.71	0.79	0.84	0.88	0.94	0.97	
0.50	0.50	0.20	0.61	0.70	0.76	0.80	0.86	0.90	0.93	0.97	0.99	
	0.30		0.54	0.64	0.70	0.75	0.81	0.86	0.89	0.94	0.97	
	0.20		0.50	0.59	0.65	0.70	0.77	0.82	0.86	0.91	0.94	
0.30	0.50	0.20	0.59	0.68	0.73	0.77	0.83	0.87	0.90	0.93	0.95	
	0.30		0.54	0.62	0.68	0.73	0.79	0.83	0.86	0.91	0.93	
	0.20		0.49	0.58	0.64	0.69	0.76	0.80	0.84	0.88	0.91	
0.00	0.00	0.00	0.47	0.56	0.61	0.66	0.72	0.76	0.79	0.84	0.86	
Rating:15W 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	0.91	0.75	0.64	0.56	0.45	0.38	0.32	0.25	0.21	
	0.30		0.76	0.64	0.56	0.50	0.41	0.34	0.30	0.24	0.20	
	0.20		0.65	0.56	0.50	0.44	0.37	0.32	0.28	0.22	0.19	
0.50	0.50	0.20	0.87	0.72	0.61	0.53	0.43	0.39	0.31	0.24	0.20	
	0.30		0.74	0.62	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
	0.20		0.64	0.55	0.48	0.43	0.36	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.84	0.69	0.58	0.51	0.41	0.34	0.29	0.23	0.19	
	0.30		0.72	0.60	0.52	0.46	0.38	0.32	0.27	0.22	0.18	
	0.20		0.63	0.54	0.47	0.42	0.35	0.30	0.26	0.21	0.17	
0.00	0.00	0.00	0.52	0.44	0.38	0.33	0.27	0.23	0.20	0.16	0.13	
Rating:15W 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	0.22	0.23	
	0.30		0.10	0.12	0.14	0.15	0.16	0.17	0.18	0.20	0.20	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	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	0.10	0.12	0.14	0.15	0.16	0.17	
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	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	0.09	0.10	0.12	0.13	0.14	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:15W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												