

Report No.: 1

Test Time: 01.10.2019 12:38

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 750 152LED 0,3A 18W 4000K opal

Luminous Length (mm): 750

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 221.1 V

Current: 0.088 A

Power: 18.28 W

Power Factor: 0.938

Photometric Results

CIE Class: Direct

Measurement Flux: 2259.1 lm

Downward Ratio: 98%

Total Rated Lamp Lumens: 2259.1 lm

Efficiency: 100%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 168.4, 164.3, 165.8, 165.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.4, 112.0, 114.0, 114.2

Luminaire Efficacy Rating (LER): 123.63

Central Intensity: 753.78 cd

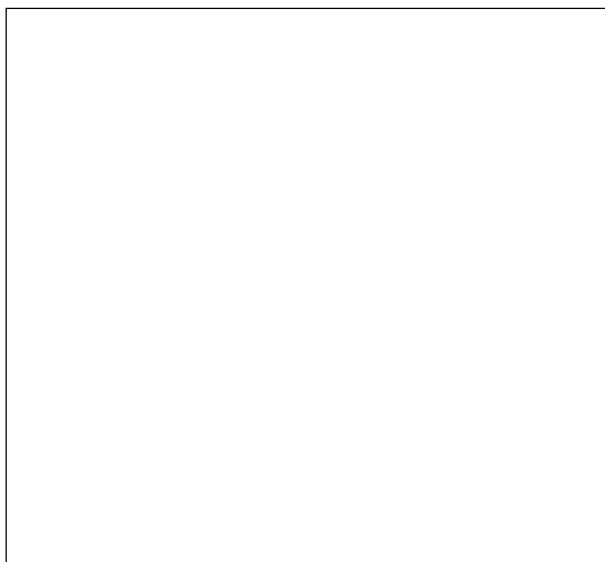
Max. Intensity: 755.56 cd

Pos of Max. Intensity: H90 V0

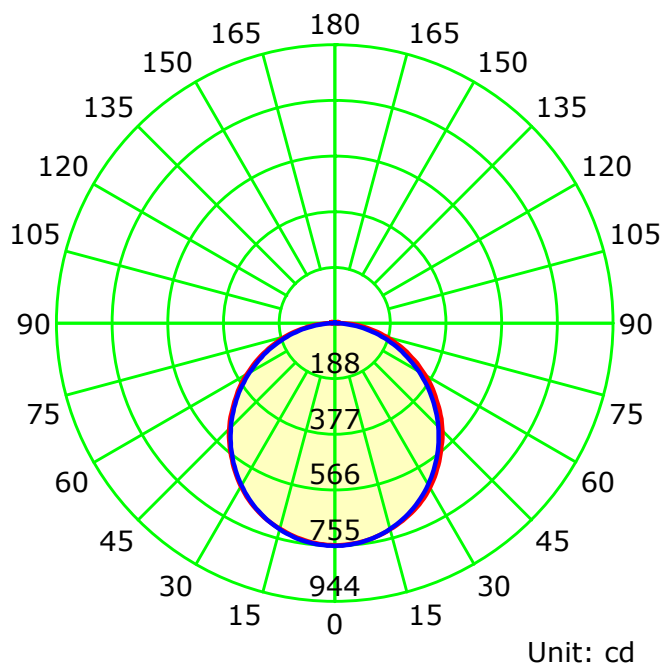
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.25

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

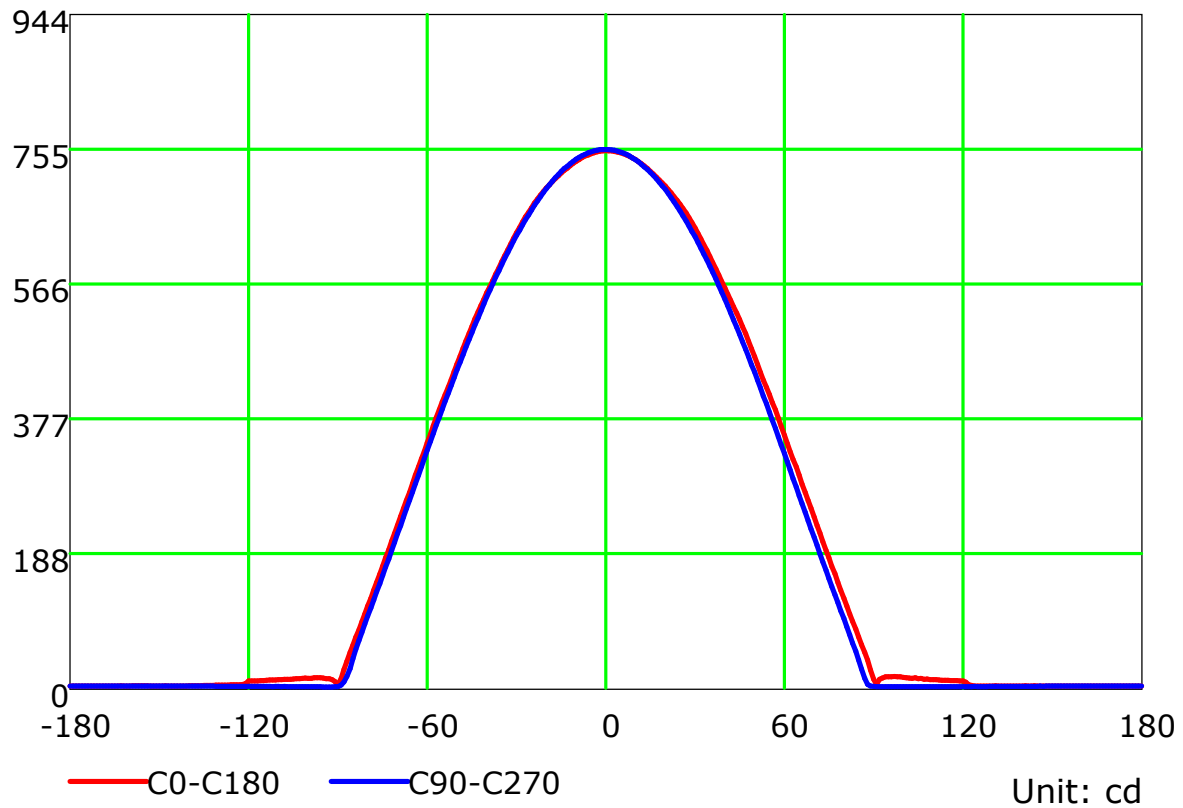
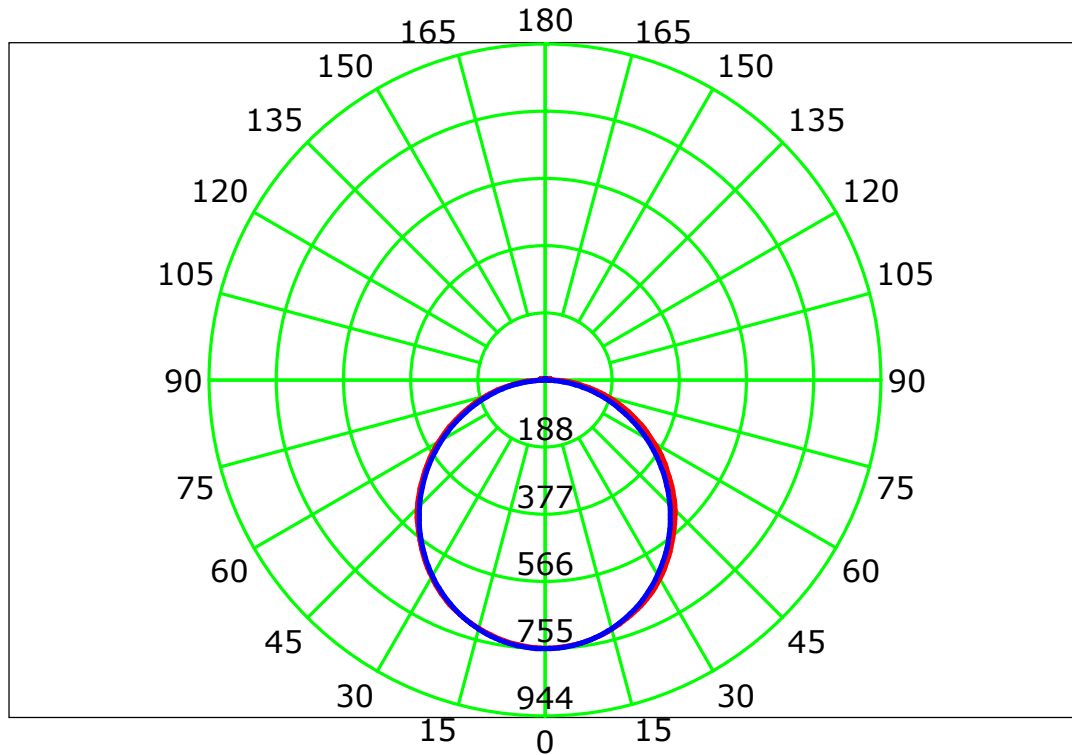
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

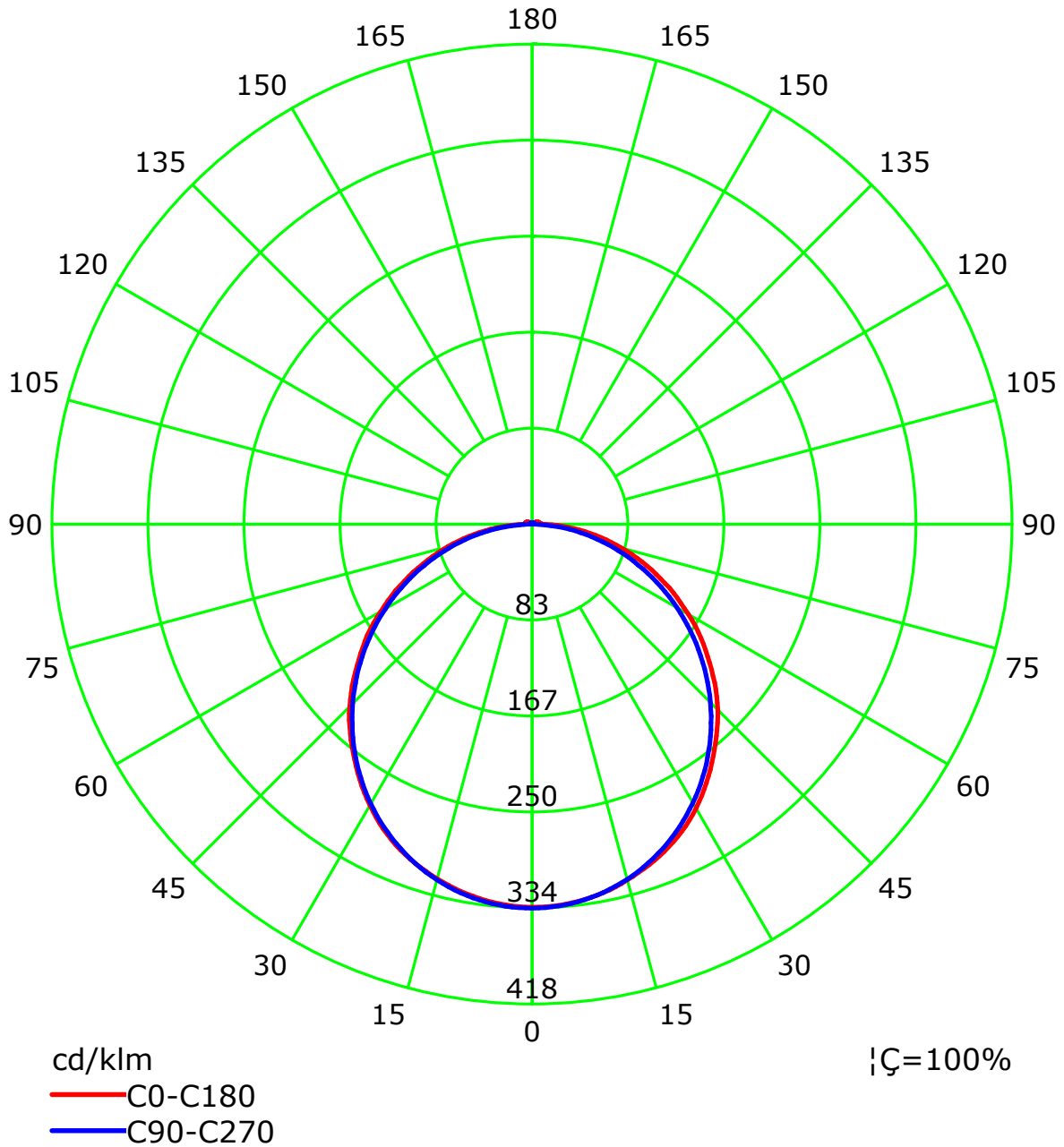
Luminous Intensity Distribution Curve



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:

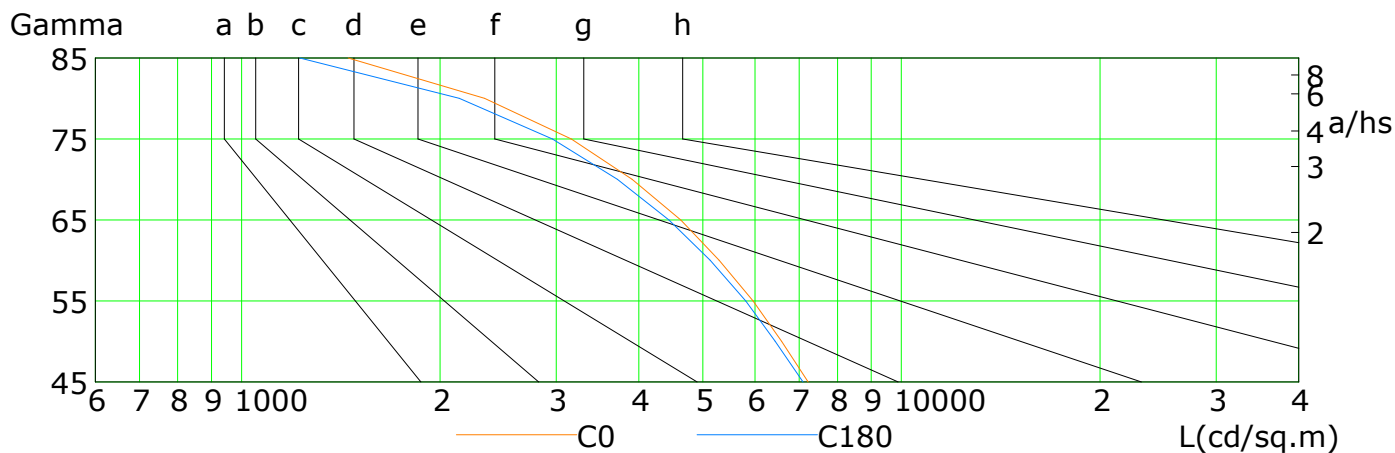
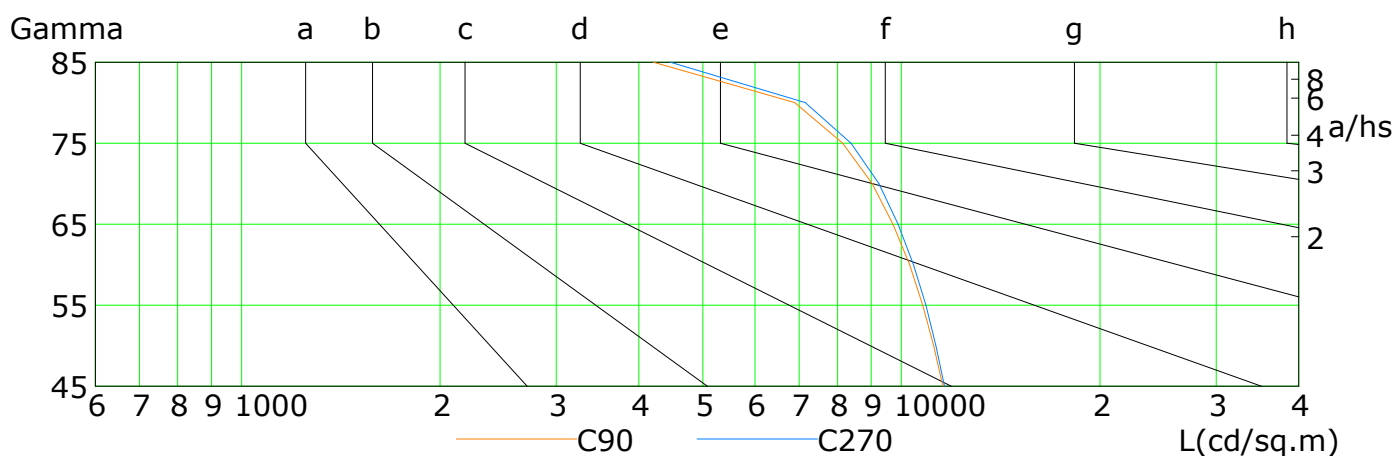
Luminous Intensity Distribution Curve(cd/klm)



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

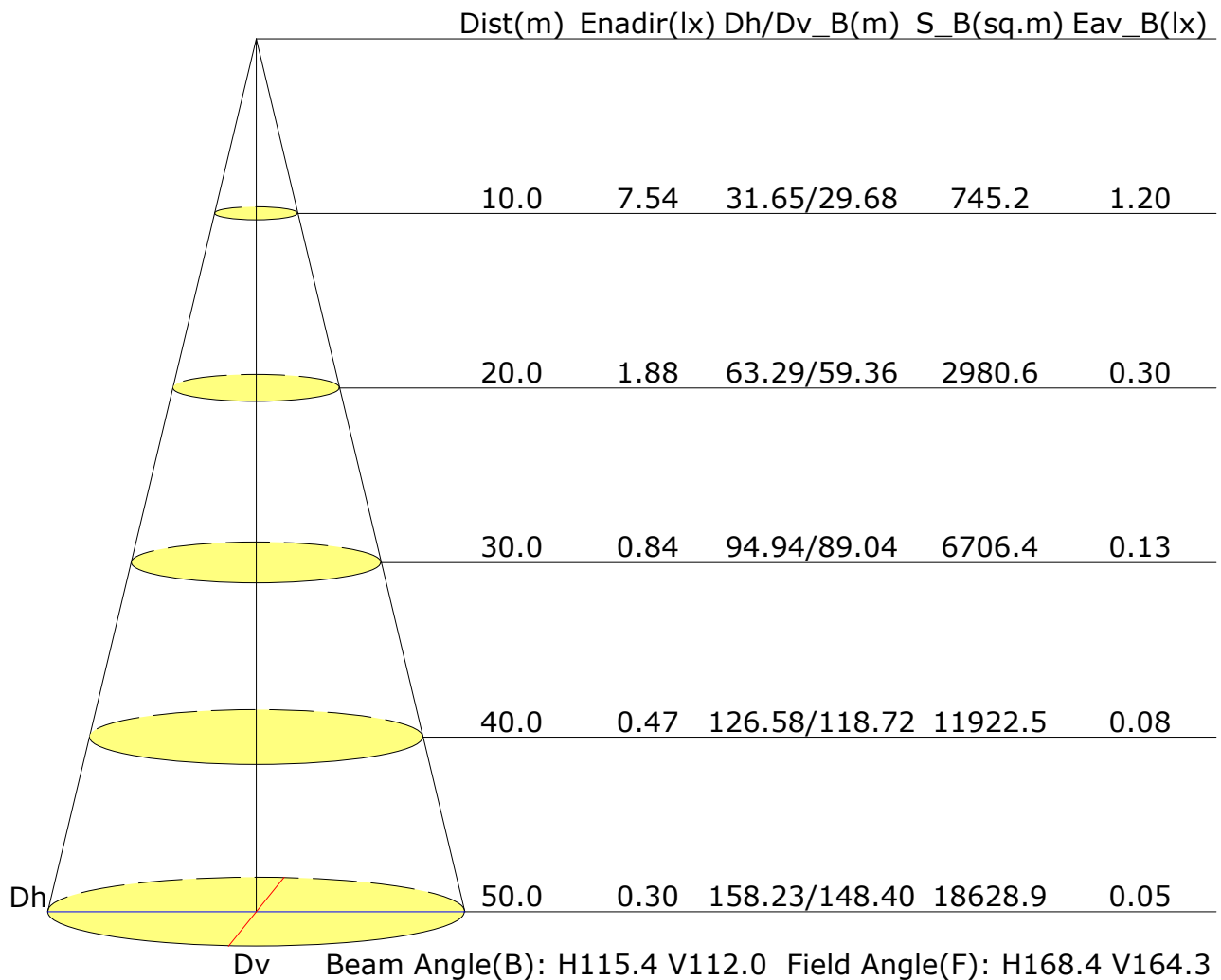


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	7222	6584	5960	5292	4629	3906	3160	2336	1451
C90	11554	11196	10773	10296	9711	9035	8150	6894	4213
C180	7093	6438	5810	5133	4443	3712	2958	2137	1226
C270	11624	11281	10890	10428	9887	9239	8392	7152	4465

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	18.9	20.2	19.2	20.5	20.8	19.9	21.3	20.2	21.6	21.9
3H	20.2	21.4	20.5	21.7	22.0	21.5	22.7	21.8	23.0	23.4
4H	20.7	21.9	21.0	22.2	22.5	22.1	23.3	22.5	23.6	24.0
6H	21.0	22.1	21.4	22.5	22.8	22.6	23.7	23.0	24.0	24.4
8H	21.1	22.2	21.5	22.6	22.9	22.7	23.8	23.1	24.2	24.5
12H	21.2	22.2	21.6	22.6	23.0	22.8	23.8	23.2	24.2	24.6
X=4H Y=2H	19.5	20.7	19.9	21.0	21.4	20.4	21.5	20.7	21.9	22.2
3H	21.0	22.0	21.4	22.4	22.8	22.1	23.1	22.5	23.5	23.8
4H	21.6	22.5	22.0	22.9	23.3	22.8	23.7	23.2	24.1	24.5
6H	22.1	22.9	22.5	23.3	23.7	23.4	24.2	23.8	24.6	25.1
8H	22.2	23.0	22.7	23.4	23.9	23.6	24.3	24.0	24.8	25.2
12H	22.3	23.0	22.8	23.5	23.9	23.7	24.4	24.2	24.8	25.3
X=8H Y=4H	21.9	22.6	22.3	23.1	23.5	23.0	23.7	23.4	24.2	24.6
6H	22.5	23.1	23.0	23.5	24.0	23.7	24.3	24.1	24.7	25.2
8H	22.7	23.2	23.2	23.7	24.2	23.9	24.4	24.4	24.9	25.5
12H	22.8	23.3	23.4	23.8	24.4	24.1	24.5	24.6	25.0	25.6
X=12H Y=4H	21.9	22.6	22.4	23.0	23.5	23.0	23.7	23.4	24.1	24.6
6H	22.5	23.1	23.0	23.5	24.1	23.7	24.2	24.2	24.7	25.2
8H	22.8	23.2	23.3	23.7	24.3	24.0	24.4	24.5	24.9	25.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.1/-0.1				
S=1.5H	+0.3/-0.6					+0.3/-0.4				
S=2.0H	+0.6/-1.0					+0.8/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2259lm ($8\log(F/F_0) = 2.8$).

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 = 1.25									
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	0.55	0.65	0.73	0.78	0.86	0.91	0.94	0.99	1.02	
	0.30		0.47	0.57	0.65	0.71	0.79	0.85	0.89	0.95	0.98	
	0.20		0.41	0.51	0.59	0.65	0.74	0.80	0.84	0.91	0.95	
0.50	0.50	0.20	0.53	0.63	0.70	0.75	0.82	0.87	0.90	0.95	0.98	
	0.30		0.46	0.56	0.63	0.69	0.77	0.82	0.86	0.91	0.94	
	0.20		0.41	0.51	0.58	0.64	0.72	0.78	0.82	0.88	0.92	
0.30	0.50	0.20	0.52	0.61	0.68	0.72	0.79	0.83	0.87	0.91	0.93	
	0.30		0.45	0.55	0.62	0.67	0.74	0.79	0.83	0.88	0.91	
	0.20		0.40	0.50	0.57	0.63	0.70	0.76	0.80	0.85	0.88	
0.00	0.00	0.00	0.38	0.47	0.54	0.59	0.67	0.72	0.75	0.80	0.83	
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 = 1.25									
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	1.02	0.84	0.72	0.63	0.51	0.42	0.36	0.28	0.23	
	0.30		0.85	0.72	0.63	0.56	0.46	0.39	0.34	0.27	0.22	
	0.20		0.73	0.63	0.56	0.50	0.42	0.36	0.31	0.25	0.21	
0.50	0.50	0.20	0.98	0.81	0.69	0.60	0.48	0.43	0.35	0.27	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.78	0.66	0.58	0.46	0.38	0.33	0.26	0.21	
	0.30		0.81	0.68	0.59	0.52	0.43	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.29	0.23	0.19	
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
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 = 1.25									
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	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.23	0.24	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	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	0.17	0.19	0.19	0.20	0.21	0.21	0.22	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		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.21	0.22	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Rating:18W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												