

Report No.: 1

Test Time: 02.10.2019 11:29

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 75 84LED 20W 6500K

opal Luminous Length (mm): 770

Luminous Height (mm): 80

Current: 0.095 A

Power Factor: 0.966

Luminous Width (mm): 75

Voltage: 221.2 V

Power: 20.38 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 2562.2 lm

Downward Ratio: 88%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.4, 247.6, 209.6, 205.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.0, 130.5, 121.0, 120.2

Luminaire Efficacy Rating (LER): 125.77

Max. Intensity: 694.53 cd

S/MH(C0/C180): 1.24

Total Rated Lamp Lumens: 2562.2 lm

Efficiency: 100%

Upward Ratio: 12%

Central Intensity: 690.65 cd

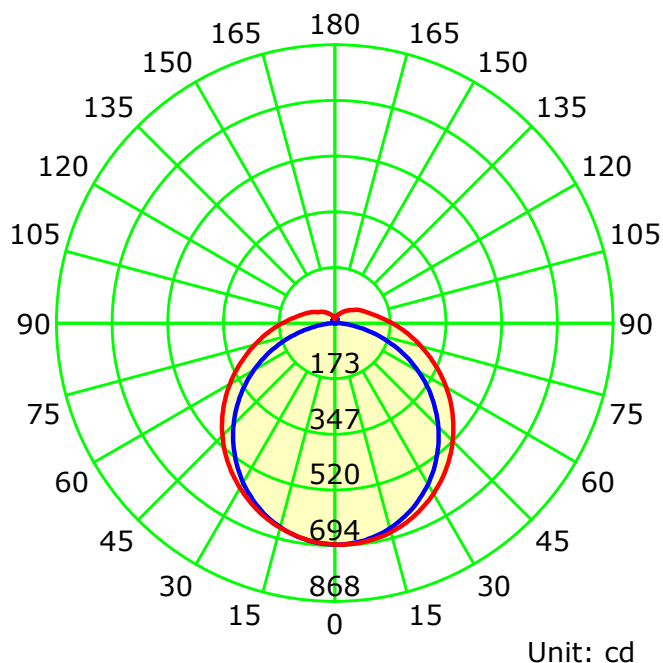
Pos of Max. Intensity: H45 V2

S/MH(C90/C270): 1.30

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

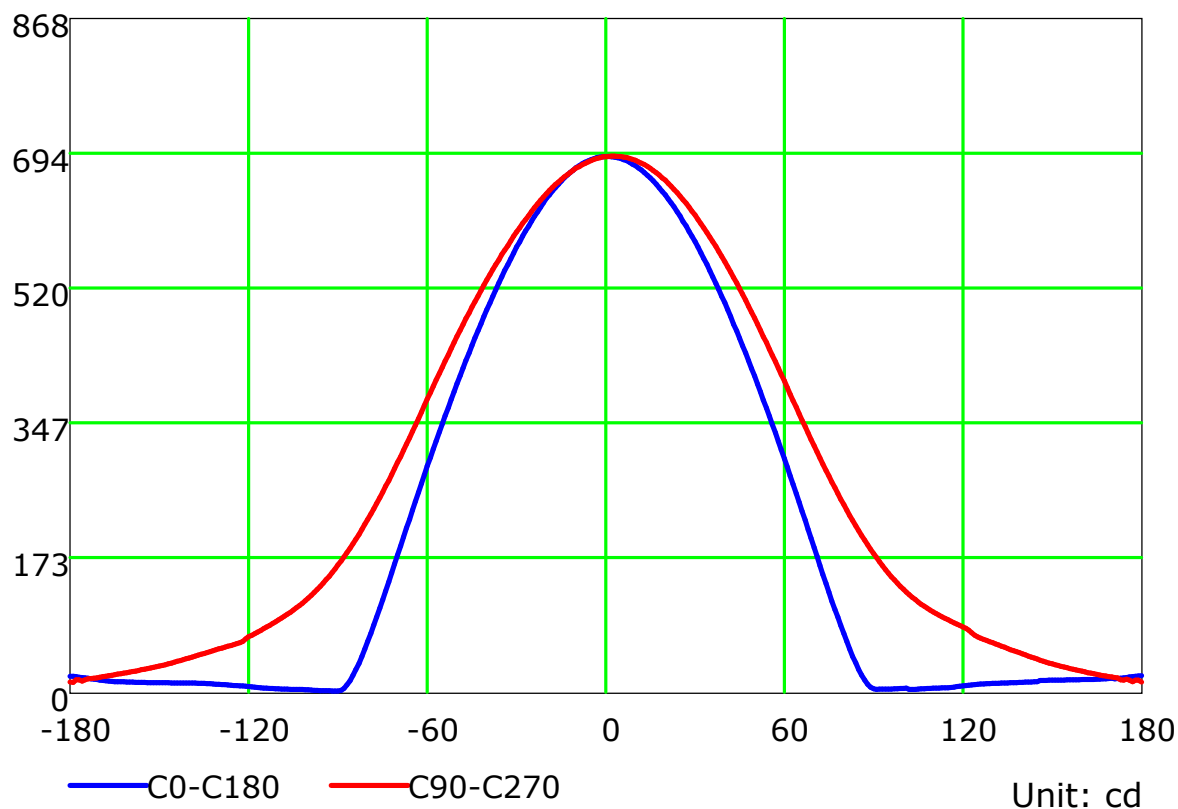
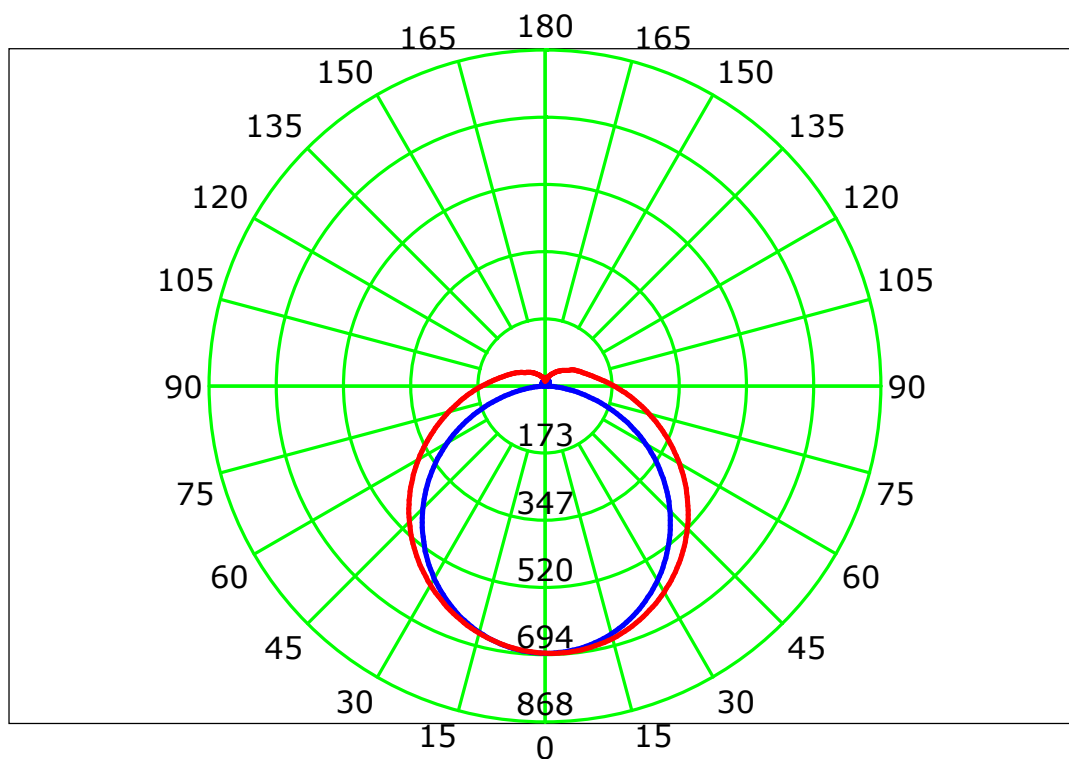
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

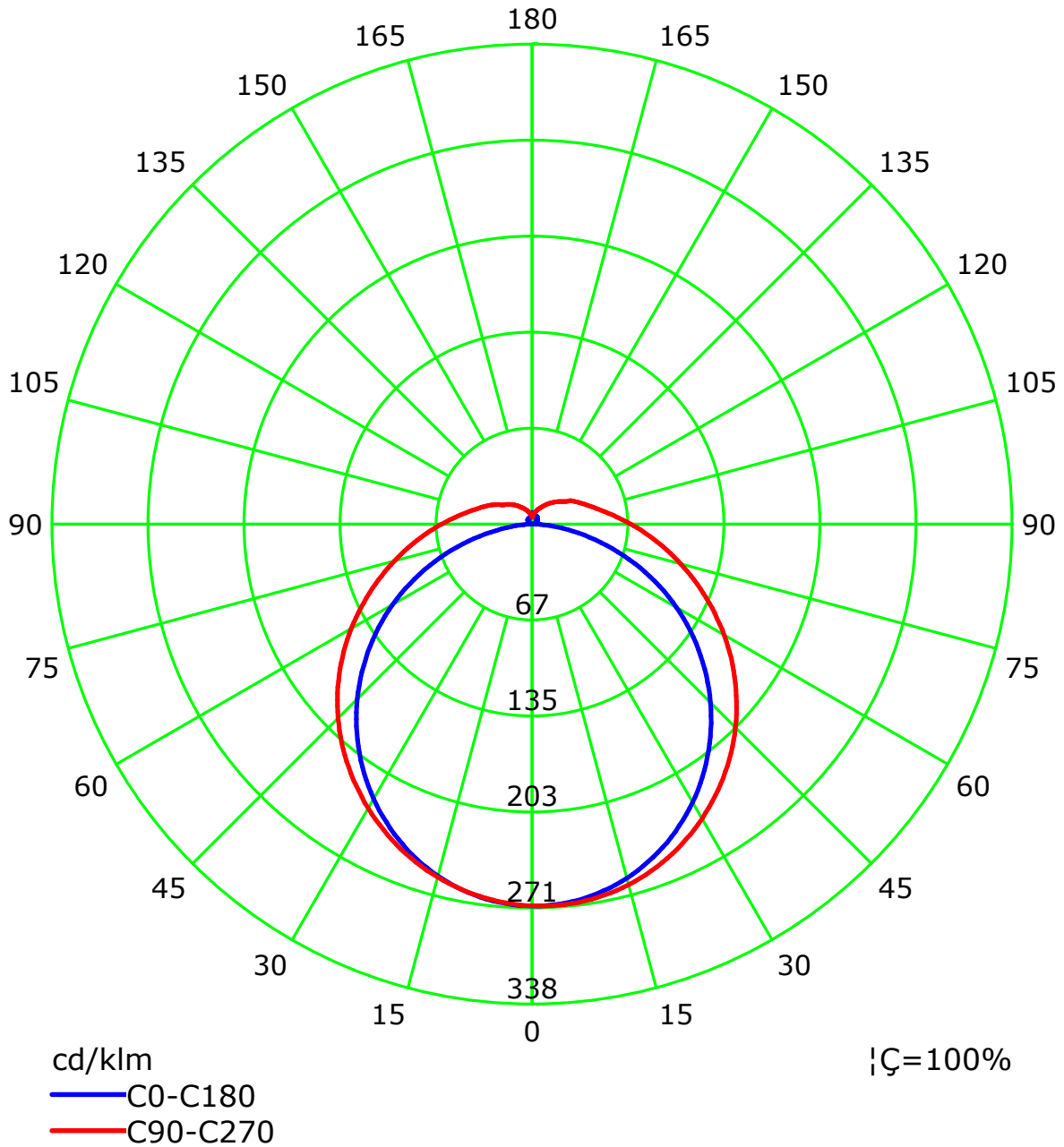
Luminous Intensity Distribution Curve



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:

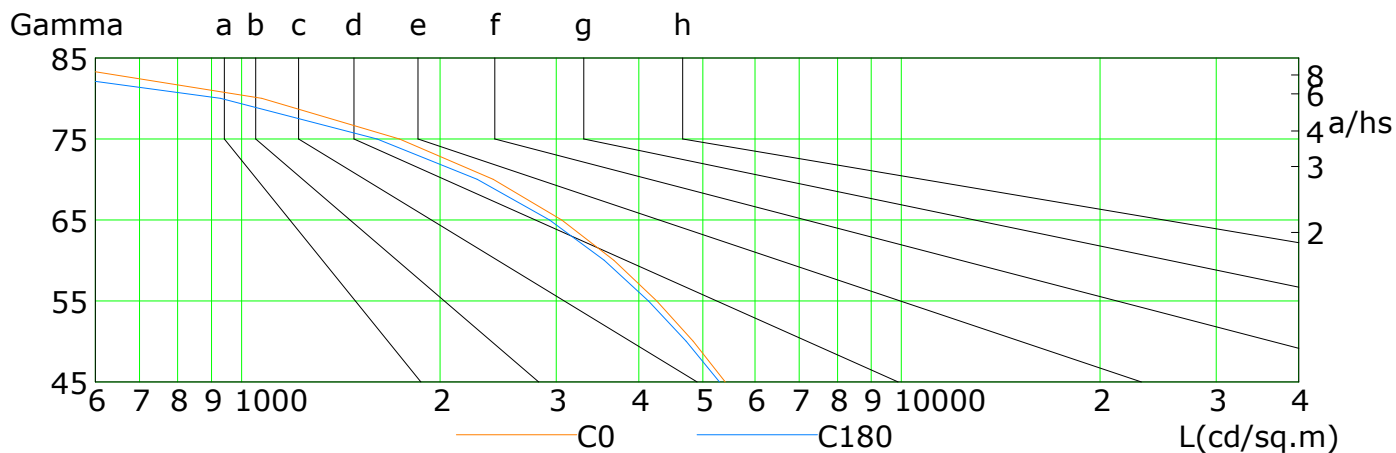
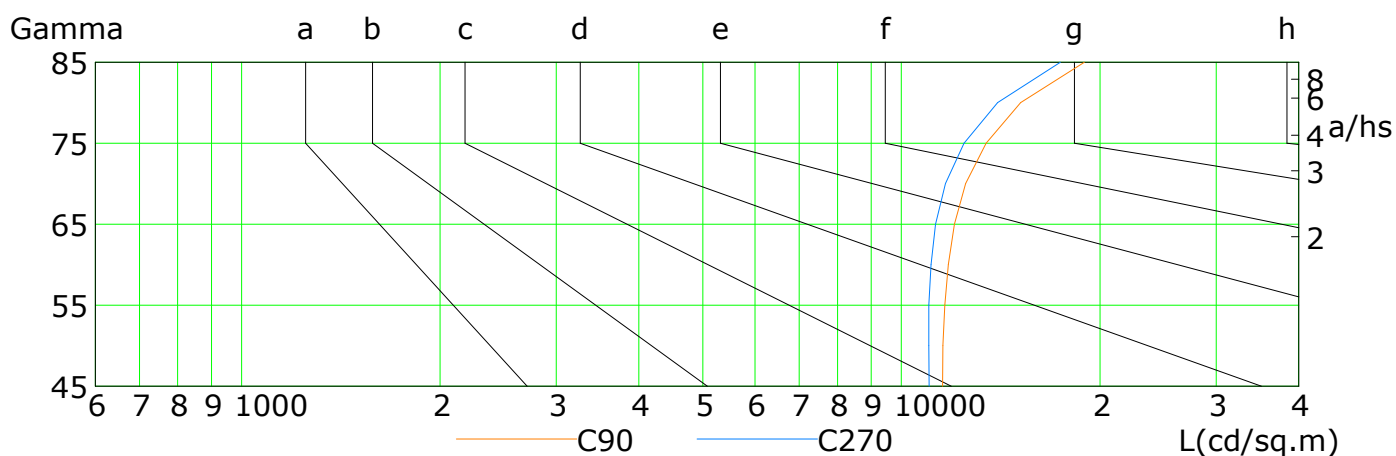
Luminous Intensity Distribution Curve(cd/klm)



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

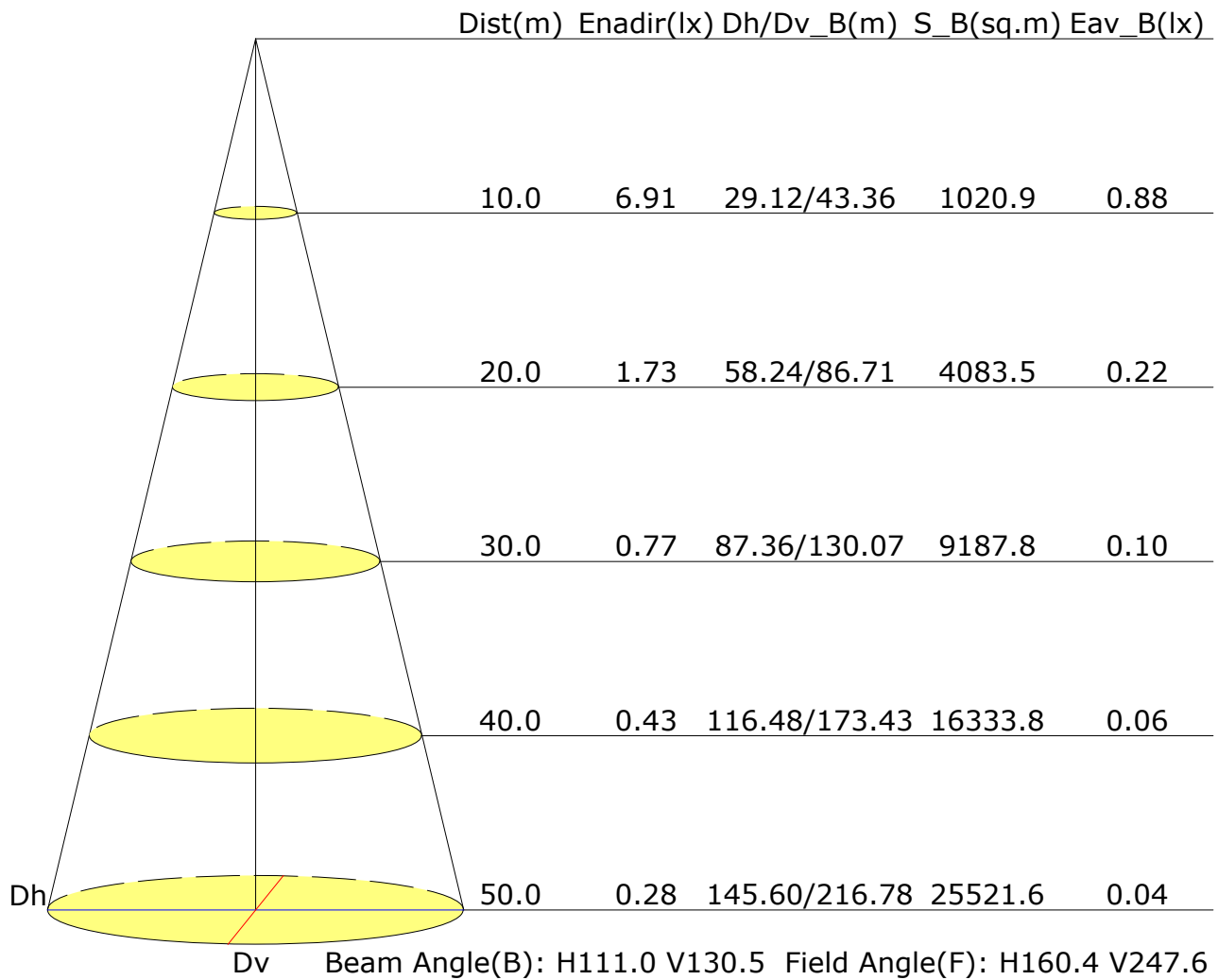


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5409	4836	4259	3666	3056	2406	1735	1073	447
C90	11540	11562	11630	11783	12035	12519	13443	15170	18940
C180	5299	4719	4136	3546	2928	2276	1604	929	331
C270	11016	10998	11008	11091	11265	11666	12440	13996	17412

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	16.8	18.1	17.3	18.6	19.0	19.4	20.7	19.9	21.1	21.6
3H	17.9	19.1	18.4	19.5	20.1	21.5	22.7	22.0	23.2	23.7
4H	18.2	19.4	18.8	19.8	20.4	22.6	23.7	23.1	24.2	24.8
6H	18.4	19.5	19.0	20.0	20.5	23.7	24.8	24.3	25.3	25.9
8H	18.4	19.5	19.0	20.0	20.6	24.3	25.3	24.9	25.9	26.4
12H	18.4	19.4	19.0	19.9	20.5	24.9	25.9	25.5	26.4	27.0
X=4H Y=2H	17.7	18.8	18.2	19.3	19.8	19.7	20.8	20.2	21.3	21.8
3H	18.9	19.9	19.5	20.4	21.0	22.0	22.9	22.5	23.5	24.1
4H	19.4	20.3	20.0	20.8	21.4	23.2	24.1	23.8	24.6	25.3
6H	19.7	20.4	20.3	21.0	21.7	24.5	25.3	25.1	25.9	26.5
8H	19.7	20.4	20.3	21.0	21.7	25.2	25.9	25.8	26.5	27.2
12H	19.8	20.4	20.4	21.0	21.7	25.9	26.6	26.5	27.2	27.9
X=8H Y=4H	19.9	20.7	20.6	21.3	21.9	23.3	24.0	23.9	24.6	25.3
6H	20.4	21.0	21.0	21.6	22.3	24.8	25.4	25.4	26.0	26.7
8H	20.6	21.1	21.2	21.7	22.4	25.6	26.1	26.2	26.7	27.5
12H	20.6	21.1	21.3	21.7	22.5	26.5	26.9	27.1	27.6	28.3
X=12H Y=4H	20.1	20.7	20.7	21.3	22.0	23.3	23.9	23.9	24.6	25.2
6H	20.7	21.2	21.3	21.8	22.5	24.8	25.3	25.4	25.9	26.7
8H	20.9	21.3	21.5	22.0	22.7	25.6	26.1	26.3	26.7	27.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.6					+0.5/-0.5				
S=2.0H	+0.5/-1.1					+0.8/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 2562lm ($8\log(F/F_0) = 3.3$).

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	0.50	0.60	0.67	0.72	0.80	0.85	0.88	0.93	0.96	
	0.30		0.42	0.52	0.59	0.65	0.73	0.78	0.83	0.88	0.92	
	0.20		0.36	0.46	0.53	0.59	0.67	0.73	0.78	0.84	0.88	
0.50	0.50	0.20	0.48	0.57	0.63	0.68	0.75	0.79	0.83	0.87	0.90	
	0.30		0.41	0.50	0.56	0.62	0.69	0.74	0.78	0.83	0.87	
	0.20		0.35	0.45	0.51	0.56	0.64	0.70	0.74	0.80	0.83	
0.30	0.50	0.20	0.45	0.54	0.59	0.64	0.70	0.74	0.77	0.81	0.84	
	0.30		0.39	0.48	0.54	0.59	0.65	0.70	0.74	0.78	0.81	
	0.20		0.34	0.43	0.49	0.54	0.61	0.66	0.70	0.75	0.79	
0.00	0.00	0.00	0.31	0.39	0.45	0.49	0.56	0.60	0.64	0.69	0.72	
Rating:20W 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	0.49	0.42	0.36	0.29	0.25	
	0.20		0.74	0.65	0.58	0.52	0.44	0.38	0.34	0.28	0.24	
0.50	0.50	0.20	0.97	0.81	0.70	0.62	0.50	0.45	0.37	0.29	0.24	
	0.30		0.82	0.70	0.62	0.55	0.46	0.39	0.35	0.28	0.23	
	0.20		0.71	0.62	0.56	0.50	0.42	0.37	0.32	0.26	0.22	
0.30	0.50	0.20	0.92	0.76	0.66	0.58	0.47	0.40	0.35	0.27	0.23	
	0.30		0.78	0.67	0.59	0.53	0.44	0.37	0.33	0.26	0.22	
	0.20		0.69	0.60	0.53	0.48	0.41	0.35	0.31	0.25	0.21	
0.00	0.00	0.00	0.57	0.49	0.44	0.39	0.33	0.28	0.25	0.20	0.17	
Rating:20W 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	0.28	0.29	0.30	0.31	0.32	0.32	0.32	0.33	0.33	
	0.30		0.21	0.22	0.24	0.25	0.26	0.27	0.28	0.29	0.30	
	0.20		0.16	0.17	0.19	0.20	0.22	0.23	0.24	0.26	0.27	
0.50	0.50	0.20	0.27	0.28	0.29	0.30	0.30	0.31	0.31	0.31	0.32	
	0.30		0.20	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	
	0.20		0.16	0.17	0.18	0.19	0.21	0.23	0.24	0.25	0.26	
0.30	0.50	0.20	0.26	0.27	0.28	0.28	0.29	0.30	0.30	0.30	0.30	
	0.30		0.20	0.21	0.22	0.23	0.25	0.26	0.26	0.27	0.28	
	0.20		0.16	0.17	0.18	0.19	0.21	0.22	0.23	0.25	0.26	
0.00	0.00	0.00	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	
Rating:20W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												