

Report No.: 1

Test Time: 10.10.2019 13:08

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 75 210LED 33W 6500K

opal Luminous Length (mm): 1065

Luminous Height (mm): 76

Current: 0.153 A

Power Factor: 0.964

Luminous Width (mm): 76

Voltage: 221.1 V Power: 32.63 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 4004.3 lm

Downward Ratio: 87%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.4, 268.3, 211.5, 214.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.2, 134.9, 122.7, 123.2

Luminaire Efficacy Rating (LER): 122.77

Max. Intensity: 1039.23 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 4004.3 lm

Efficiency: 100%

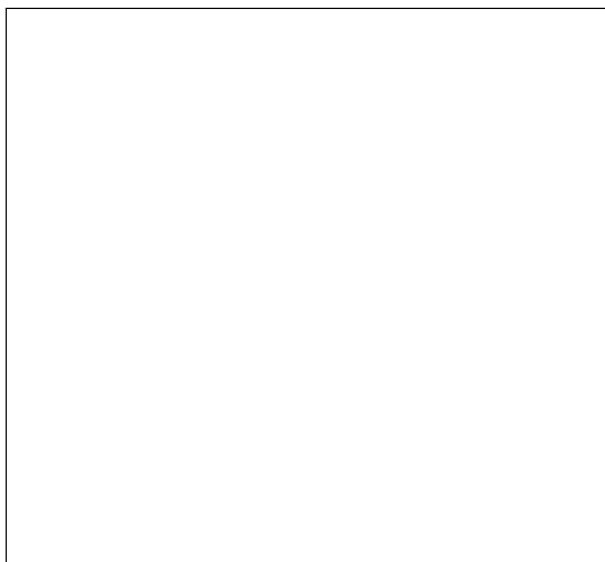
Upward Ratio: 13%

Central Intensity: 1039.23 cd

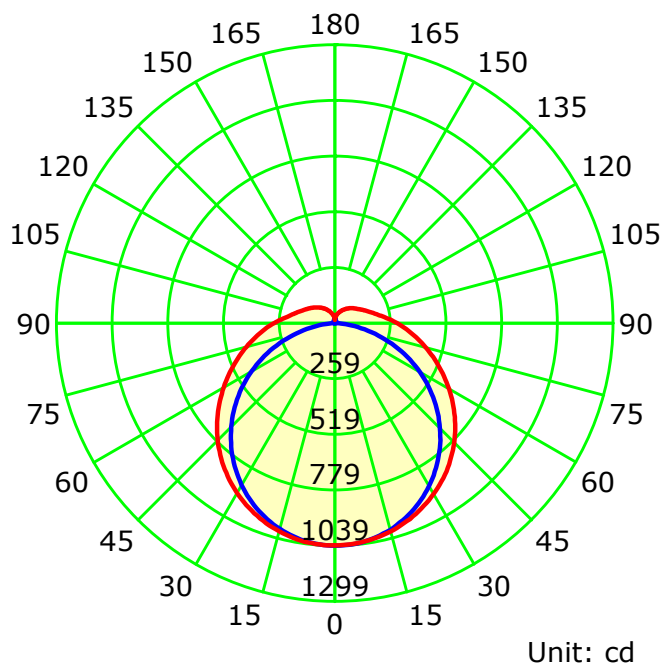
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.32

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

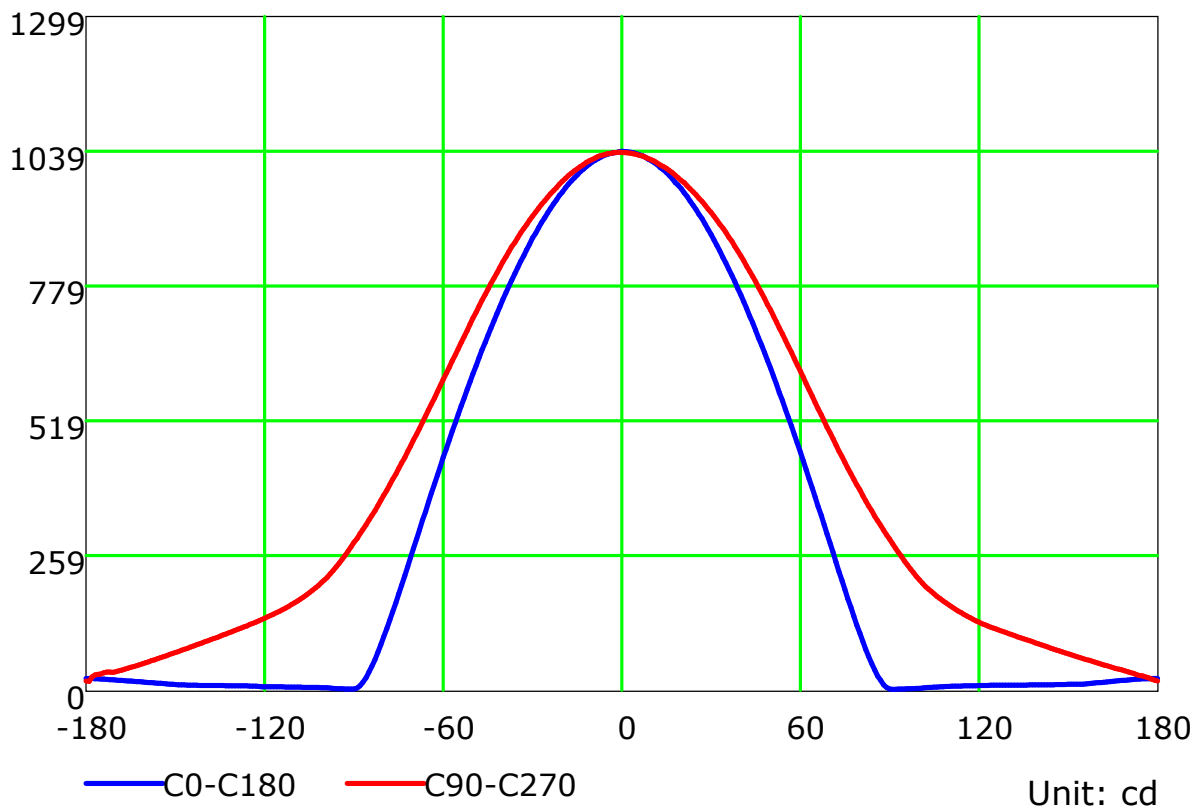
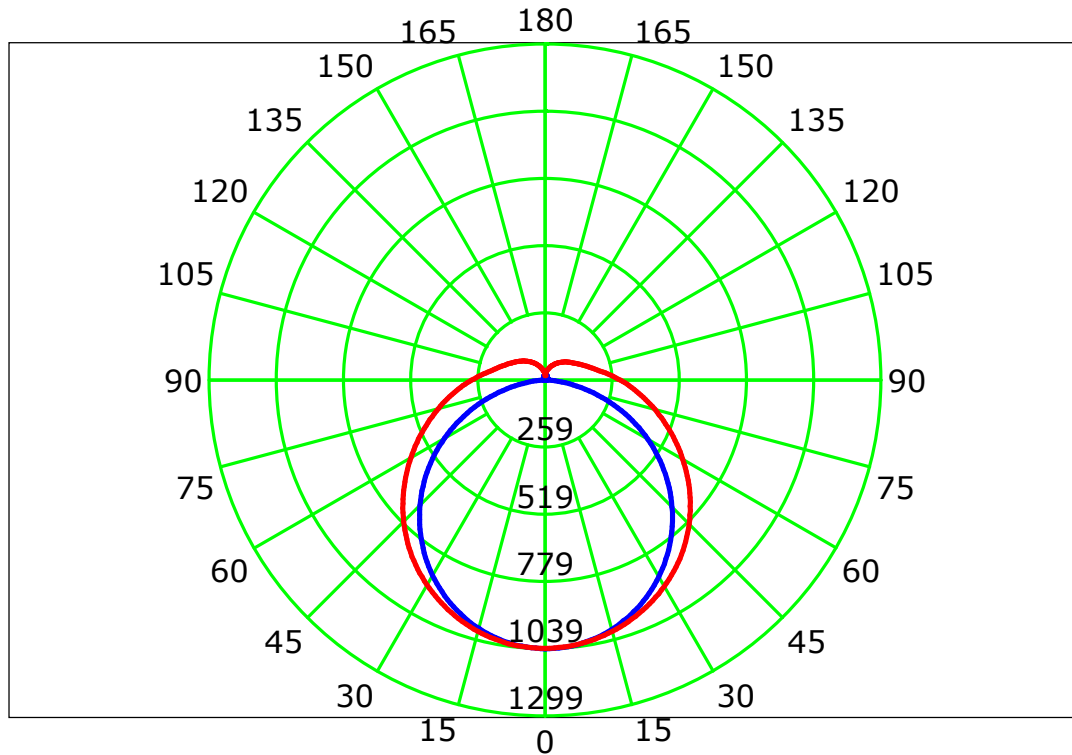
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

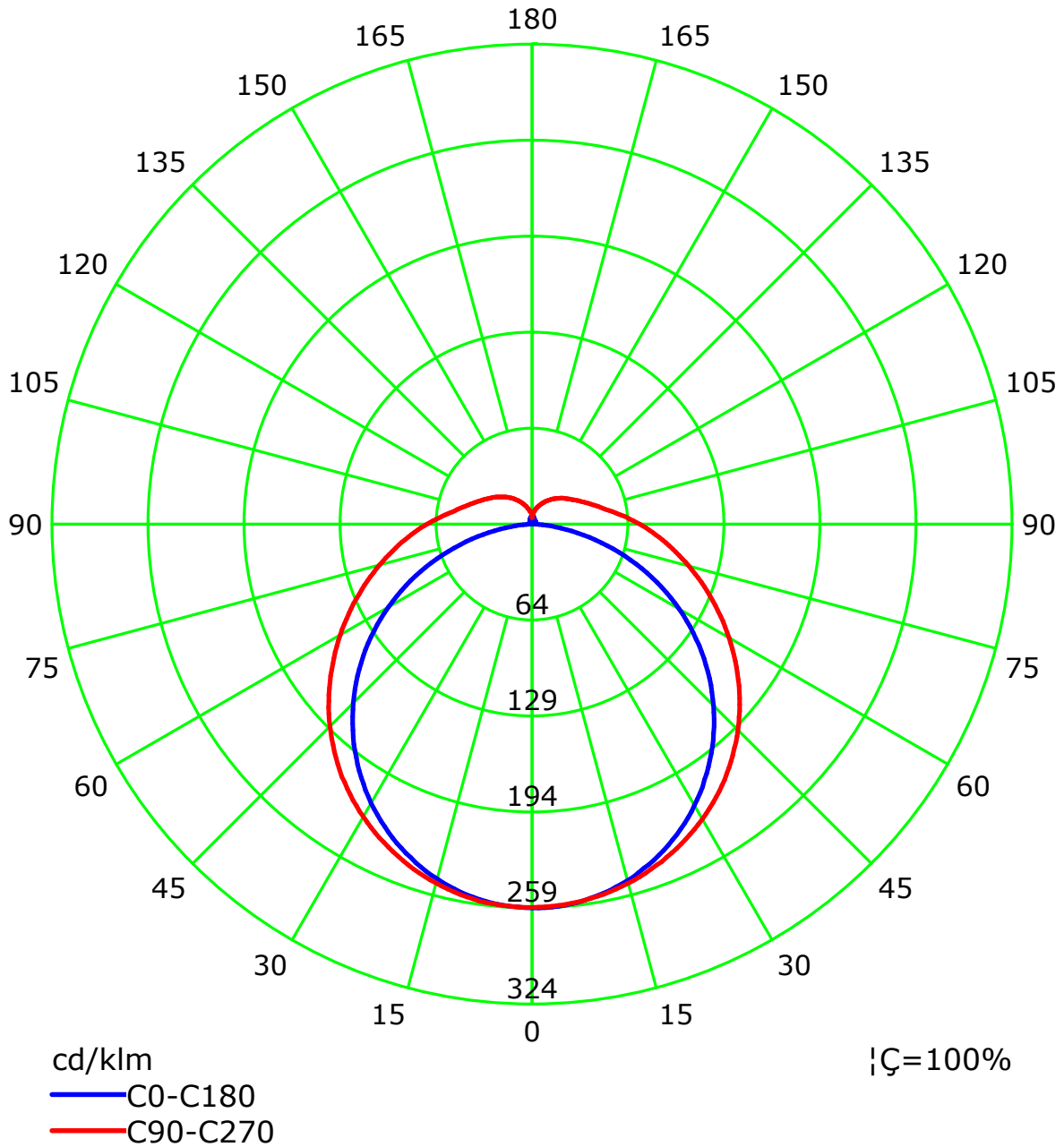
Luminous Intensity Distribution Curve



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)



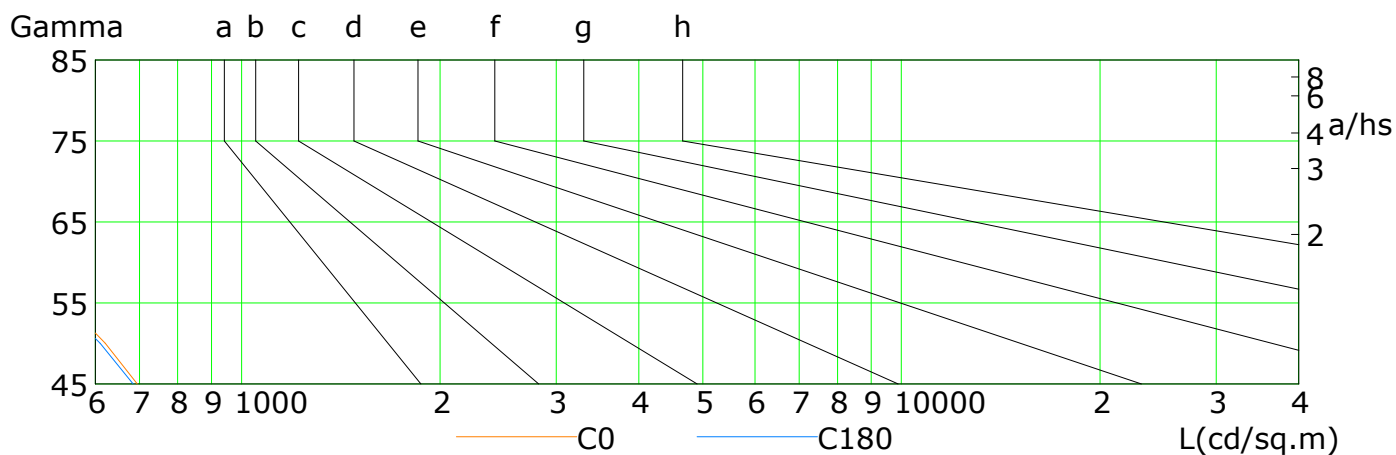
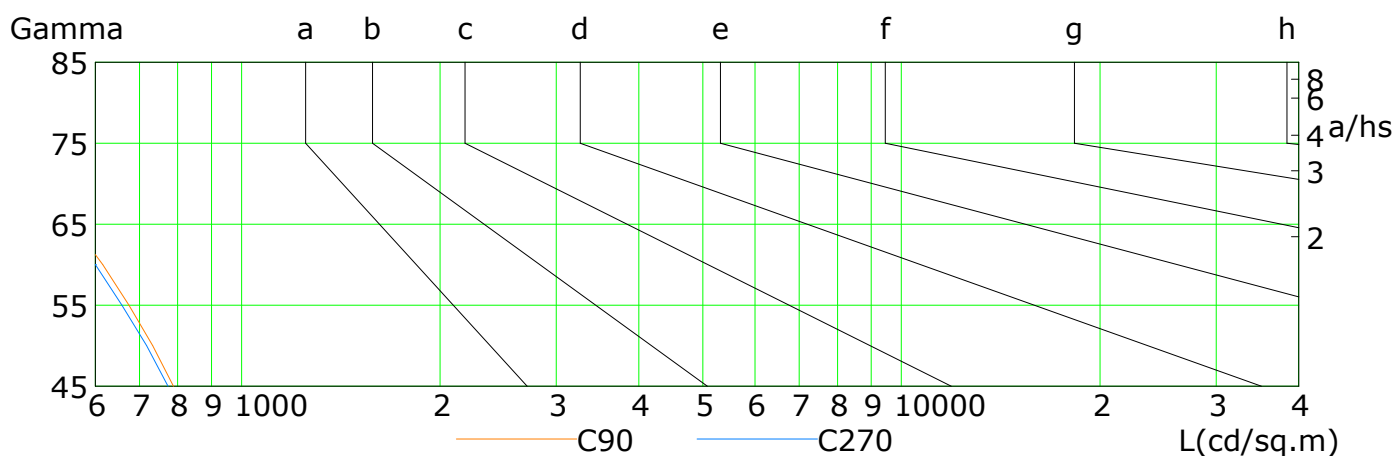
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

a b c d e f g h

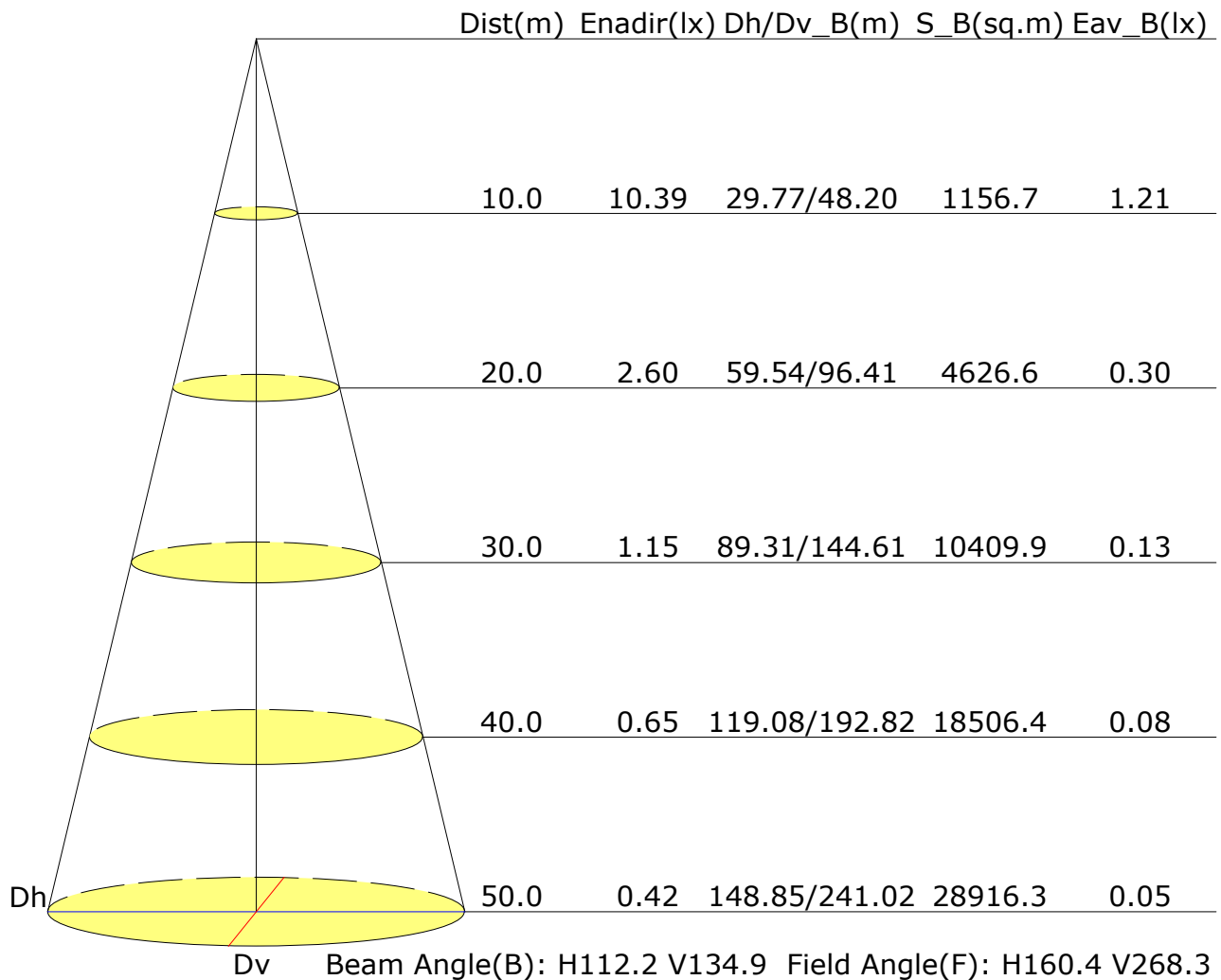


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	695	621	542	460	373	284	195	110	40
C90	788	733	675	616	555	496	440	386	336
C180	685	611	532	449	363	274	186	103	35
C270	774	718	659	600	541	483	428	376	328

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	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
Variations with the observer position at spacings:										
S=1.0H	-1.\$/-1.\$					-1.\$/-1.\$				
S=1.5H	-1.\$/-1.\$					-1.\$/-1.\$				
S=2.0H	-1.\$/-1.\$					-1.\$/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 4004Im ($8\log(F/F_0) = 4.8$).

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 = 1.50									
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	0.53	0.61	0.68	0.73	0.80	0.85	0.88	0.93	0.96	
	0.30		0.45	0.53	0.60	0.65	0.73	0.79	0.83	0.88	0.92	
	0.20		0.39	0.47	0.54	0.59	0.67	0.73	0.78	0.84	0.88	
0.50	0.50	0.20	0.50	0.57	0.64	0.68	0.75	0.79	0.82	0.87	0.90	
	0.30		0.43	0.50	0.57	0.62	0.69	0.74	0.78	0.83	0.86	
	0.20		0.38	0.45	0.52	0.57	0.64	0.70	0.74	0.79	0.83	
0.30	0.50	0.20	0.47	0.54	0.60	0.64	0.70	0.74	0.77	0.81	0.84	
	0.30		0.41	0.48	0.54	0.59	0.65	0.70	0.73	0.78	0.81	
	0.20		0.37	0.43	0.50	0.55	0.61	0.66	0.70	0.75	0.78	
0.00	0.00	0.00	0.34	0.39	0.45	0.50	0.56	0.60	0.63	0.68	0.71	
Rating:33W 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 = 1.50									
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	0.99	0.85	0.73	0.65	0.53	0.45	0.39	0.31	0.26	
	0.30		0.82	0.73	0.64	0.57	0.48	0.41	0.36	0.29	0.24	
	0.20		0.71	0.64	0.57	0.51	0.44	0.38	0.34	0.27	0.23	
0.50	0.50	0.20	0.93	0.80	0.68	0.60	0.49	0.44	0.36	0.29	0.24	
	0.30		0.78	0.69	0.60	0.54	0.45	0.39	0.34	0.27	0.23	
	0.20		0.68	0.61	0.54	0.49	0.42	0.36	0.32	0.26	0.22	
0.30	0.50	0.20	0.87	0.75	0.64	0.57	0.46	0.39	0.34	0.27	0.23	
	0.30		0.75	0.66	0.57	0.51	0.43	0.37	0.32	0.26	0.22	
	0.20		0.65	0.59	0.52	0.47	0.40	0.34	0.30	0.25	0.21	
0.00	0.00	0.00	0.54	0.48	0.42	0.38	0.32	0.27	0.24	0.20	0.16	
Rating:33W 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 = 1.50									
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	0.29	0.30	0.31	0.32	0.33	0.33	0.33	0.34	0.34	
	0.30		0.22	0.23	0.25	0.26	0.27	0.28	0.29	0.30	0.31	
	0.20		0.17	0.18	0.20	0.21	0.23	0.24	0.25	0.27	0.28	
0.50	0.50	0.20	0.28	0.29	0.30	0.31	0.31	0.32	0.32	0.33	0.33	
	0.30		0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	
	0.20		0.17	0.18	0.20	0.21	0.22	0.24	0.25	0.26	0.27	
0.30	0.50	0.20	0.27	0.28	0.29	0.29	0.30	0.31	0.31	0.31	0.31	
	0.30		0.21	0.22	0.24	0.24	0.26	0.27	0.27	0.28	0.29	
	0.20		0.17	0.18	0.19	0.20	0.22	0.23	0.24	0.26	0.27	
0.00	0.00	0.00	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	
Rating:33W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												