

Report No.: 1

Test Time: 31.01.2020 11:00

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 DALI 36LED 600W 5000K 60gr. staraya linza

Luminous Length (mm): 345 mm

Luminous Width (mm): 345 mm

Luminous Height (mm): 695 mm

Voltage: 220.5 V

Current: 2.758 A

Power: 598.79 W

Power Factor: 0.987

Photometric Results

CIE Class: Direct

Measurement Flux: 76969.7 lm

Downward Ratio: 98%

Total Rated Lamp Lumens: 76969.7 lm

Efficiency: 100%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 118.3, 110.7, 115.8, 116.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 51.5, 50.3, 49.3, 49.3

Luminaire Efficacy Rating (LER): 128.59

Central Intensity: 71771.06 cd

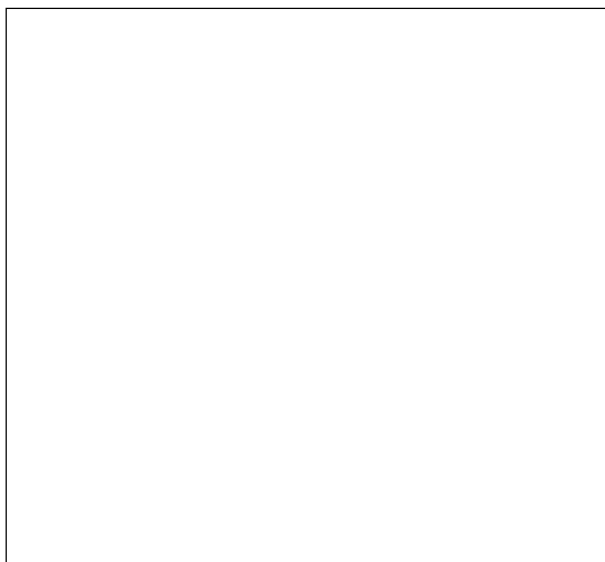
Max. Intensity: 72740.47 cd

Pos of Max. Intensity: H315 V1

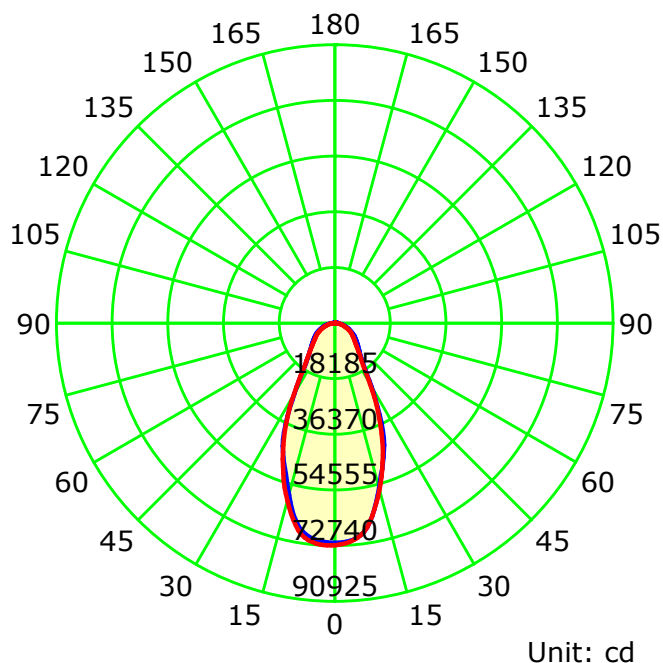
S/MH(C0/C180): 0.80

S/MH(C90/C270): 0.78

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

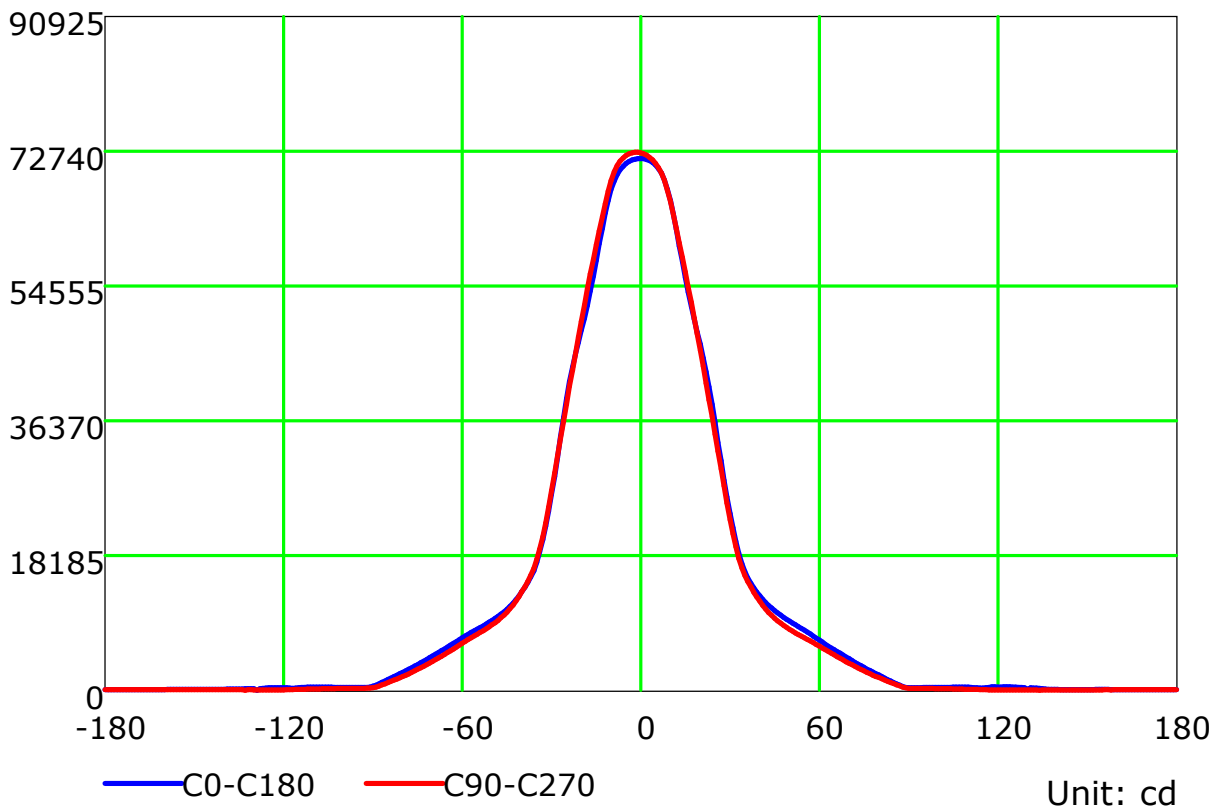
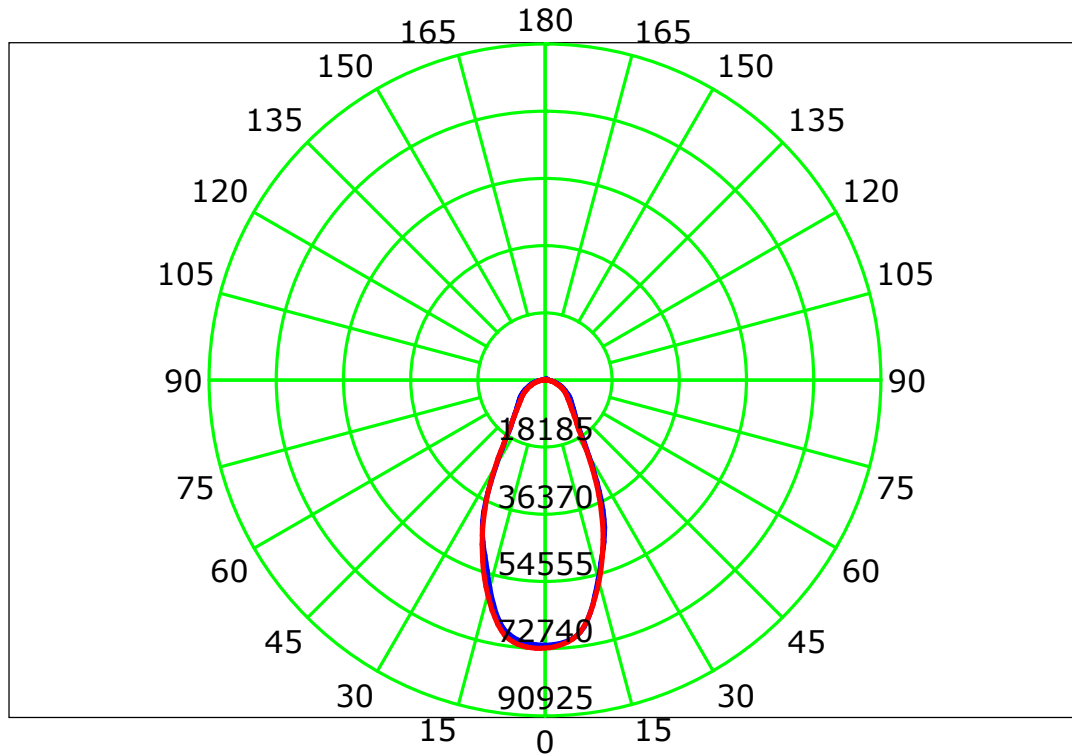
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

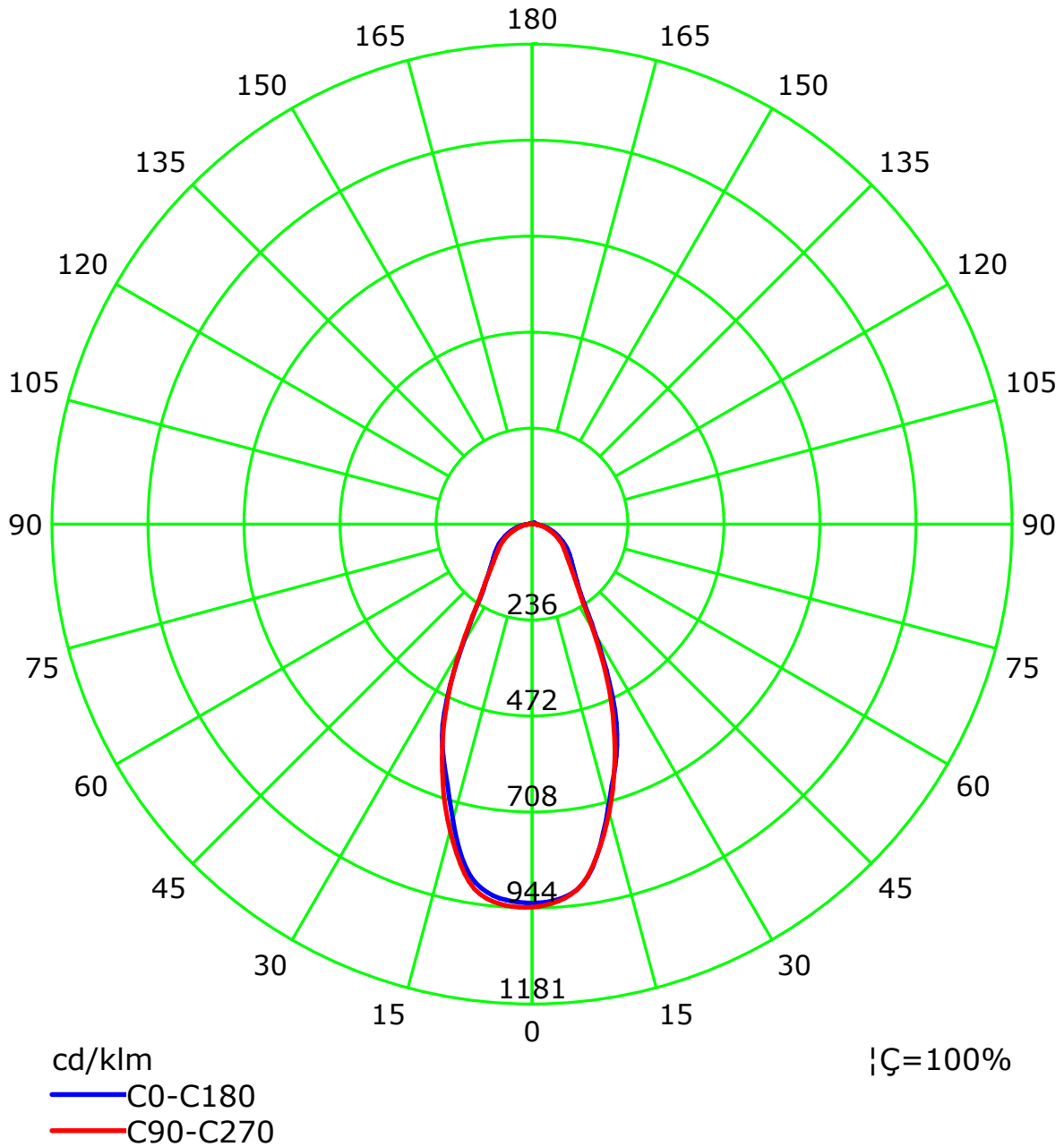
Luminous Intensity Distribution Curve



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)



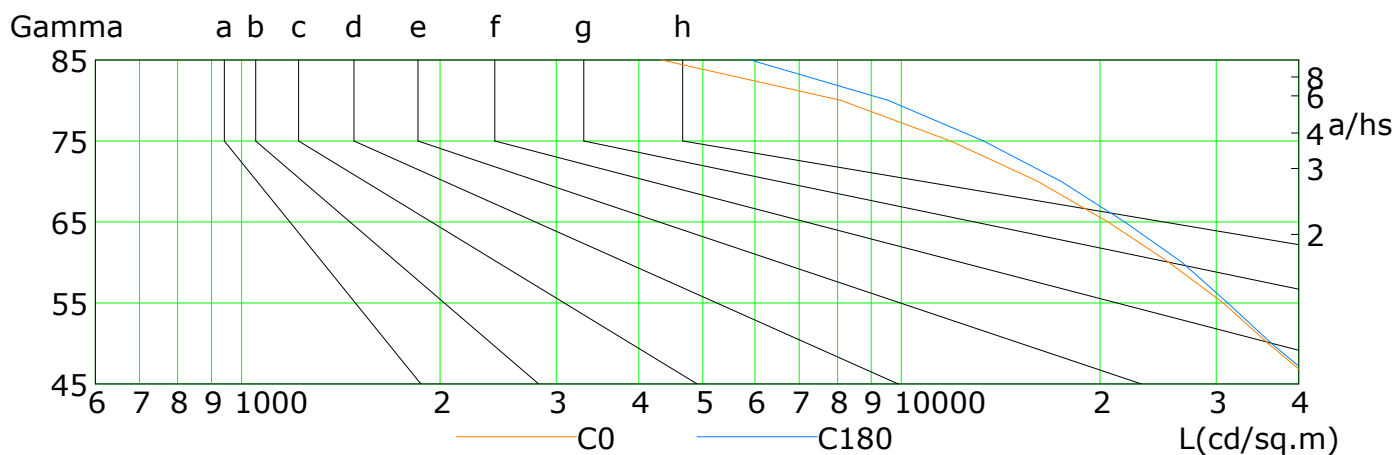
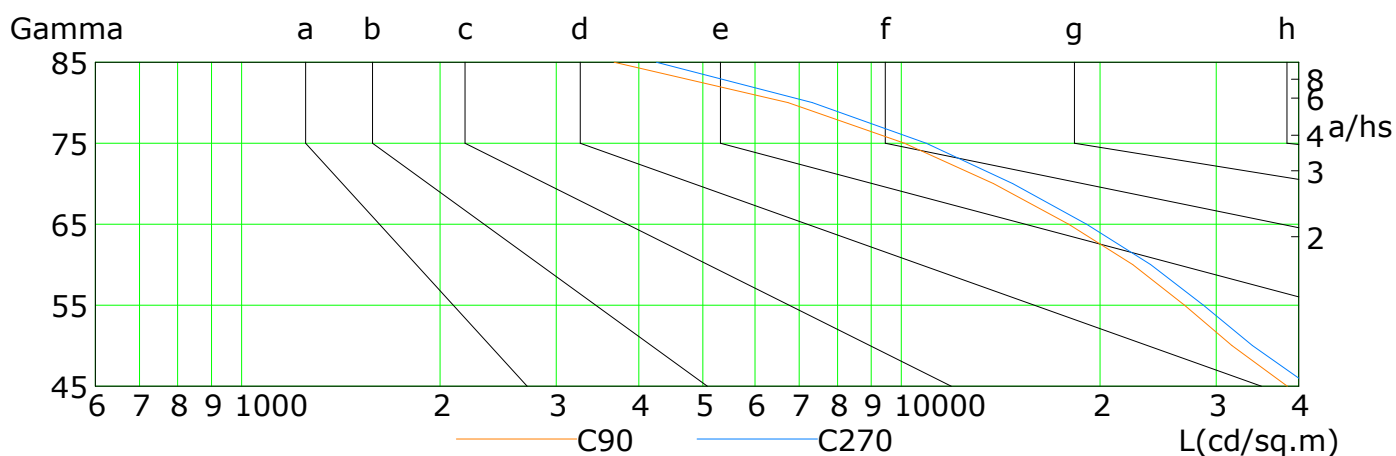
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

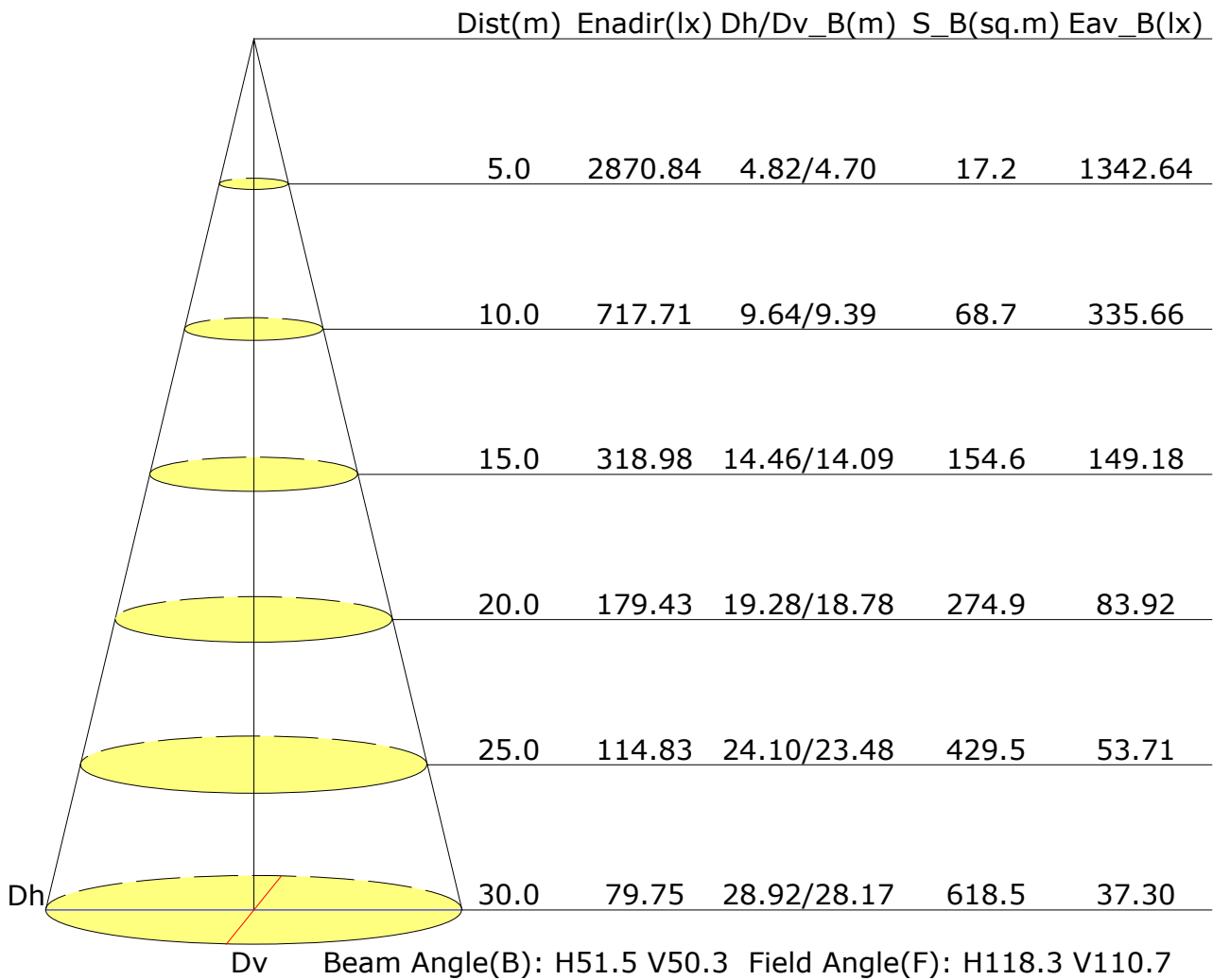


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	42539	35951	30738	25426	20572	16088	11876	8090	4331
C90	38435	31692	26858	22425	17924	13793	10107	6730	3669
C180	43133	36338	31244	26627	21797	17455	13326	9554	5906
C270	41671	34056	28694	23849	19087	14747	10900	7326	4254

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	22.4	23.5	22.7	23.7	24.0	22.0	23.2	22.4	23.4	23.7
3H	23.3	24.3	23.7	24.6	24.9	22.9	23.9	23.3	24.2	24.5
4H	23.7	24.6	24.0	24.9	25.3	23.2	24.2	23.6	24.5	24.8
6H	23.9	24.8	24.3	25.1	25.5	23.4	24.3	23.8	24.6	25.0
8H	24.0	24.8	24.3	25.2	25.5	23.5	24.3	23.9	24.7	25.0
12H	24.0	24.8	24.4	25.2	25.5	23.5	24.3	23.9	24.7	25.0
X=4H Y=2H	22.7	23.6	23.0	23.9	24.3	22.4	23.4	22.8	23.7	24.0
3H	23.8	24.6	24.2	25.0	25.3	23.4	24.2	23.8	24.6	25.0
4H	24.2	25.0	24.7	25.3	25.7	23.8	24.5	24.2	24.9	25.3
6H	24.5	25.2	25.0	25.6	26.0	24.1	24.7	24.5	25.2	25.6
8H	24.6	25.2	25.1	25.7	26.1	24.2	24.8	24.6	25.2	25.7
12H	24.7	25.2	25.2	25.7	26.2	24.2	24.8	24.7	25.2	25.7
X=8H Y=4H	24.3	24.9	24.8	25.3	25.8	23.9	24.5	24.4	25.0	25.4
6H	24.7	25.2	25.2	25.7	26.2	24.3	24.8	24.8	25.3	25.8
8H	24.9	25.3	25.4	25.8	26.3	24.4	24.9	25.0	25.4	25.9
12H	25.0	25.3	25.5	25.8	26.4	24.5	24.9	25.1	25.4	26.0
X=12H Y=4H	24.3	24.8	24.8	25.3	25.8	23.9	24.5	24.4	24.9	25.4
6H	24.7	25.2	25.2	25.6	26.2	24.3	24.8	24.8	25.2	25.8
8H	24.9	25.3	25.4	25.8	26.3	24.5	24.9	25.0	25.4	25.9
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.3					+0.6/-0.5				
S=1.5H	+0.8/-0.8					+1.3/-1.0				
S=2.0H	+1.6/-1.5					+2.2/-1.8				

Calculate in accordance with CIE Pub.117. The table is revised with 76970lm ($8\log(F/F_0) = 15.1$).

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 = 0.75									
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	0.68	0.76	0.82	0.87	0.93	0.97	0.99	1.03	1.05	
	0.30		0.62	0.70	0.76	0.81	0.87	0.92	0.95	1.00	1.03	
	0.20		0.57	0.65	0.71	0.76	0.83	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.67	0.74	0.80	0.84	0.89	0.93	0.96	0.99	1.01	
	0.30		0.61	0.69	0.74	0.79	0.85	0.89	0.92	0.96	0.99	
	0.20		0.56	0.64	0.70	0.75	0.81	0.86	0.89	0.94	0.96	
0.30	0.50	0.20	0.65	0.72	0.77	0.81	0.86	0.90	0.92	0.95	0.97	
	0.30		0.60	0.67	0.73	0.77	0.83	0.86	0.89	0.93	0.95	
	0.20		0.56	0.64	0.69	0.74	0.80	0.84	0.87	0.91	0.93	
0.00	0.00	0.00	0.54	0.61	0.66	0.70	0.76	0.80	0.82	0.86	0.88	
Rating:599W 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 = 0.75									
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	0.82	0.68	0.58	0.50	0.40	0.33	0.29	0.22	0.18	
	0.30		0.68	0.58	0.50	0.45	0.36	0.31	0.27	0.21	0.17	
	0.20		0.59	0.51	0.45	0.40	0.33	0.28	0.25	0.20	0.17	
0.50	0.50	0.20	0.78	0.65	0.55	0.48	0.38	0.35	0.27	0.21	0.17	
	0.30		0.66	0.56	0.49	0.43	0.35	0.29	0.25	0.20	0.16	
	0.20		0.58	0.50	0.43	0.39	0.32	0.27	0.24	0.19	0.16	
0.30	0.50	0.20	0.76	0.62	0.52	0.45	0.36	0.30	0.25	0.20	0.16	
	0.30		0.65	0.54	0.47	0.41	0.33	0.28	0.24	0.19	0.16	
	0.20		0.56	0.48	0.42	0.38	0.31	0.26	0.23	0.18	0.15	
0.00	0.00	0.00	0.45	0.37	0.32	0.28	0.23	0.19	0.16	0.13	0.11	
Rating:599W 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 = 0.75									
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	0.22	0.22	0.23	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	0.19	
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		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.20	
	0.20		0.07	0.09	0.10	0.11	0.13	0.15	0.16	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		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.09	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
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:599W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												