



OOO "FAROS"

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Report No.:

Test Time: 05.03.2020 11:56

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 36LED 500W 5000K 20gr. DALI

Luminous Length (mm): 210

Luminous Width (mm): 545

Luminous Height (mm): 338

Voltage: 229.7 V

Current: 2.221 A

Power: 502.40 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Measurement Flux: 73761.2 lm

Downward Ratio: 96%

Total Rated Lamp Lumens: 73761.2 lm

Efficiency: 100%

Upward Ratio: 4%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 47.6, 44.7, 49.9, 48.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 22.8, 22.8, 23.3, 22.4

Luminaire Efficacy Rating (LER): 146.87

Central Intensity: 247042.08 cd

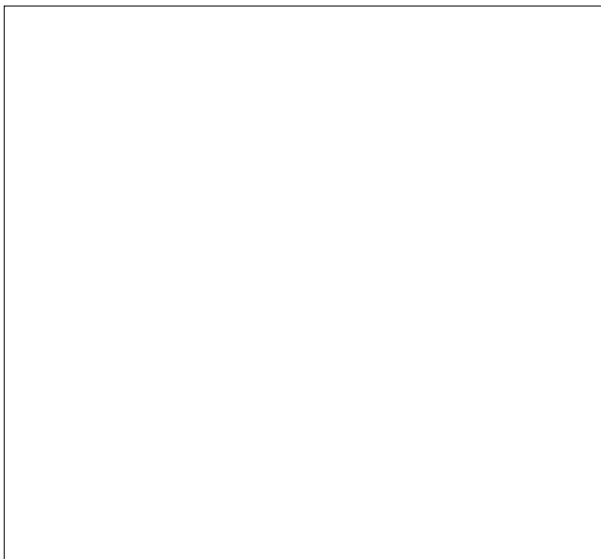
Max. Intensity: 251869.41 cd

Pos of Max. Intensity: H135 V0

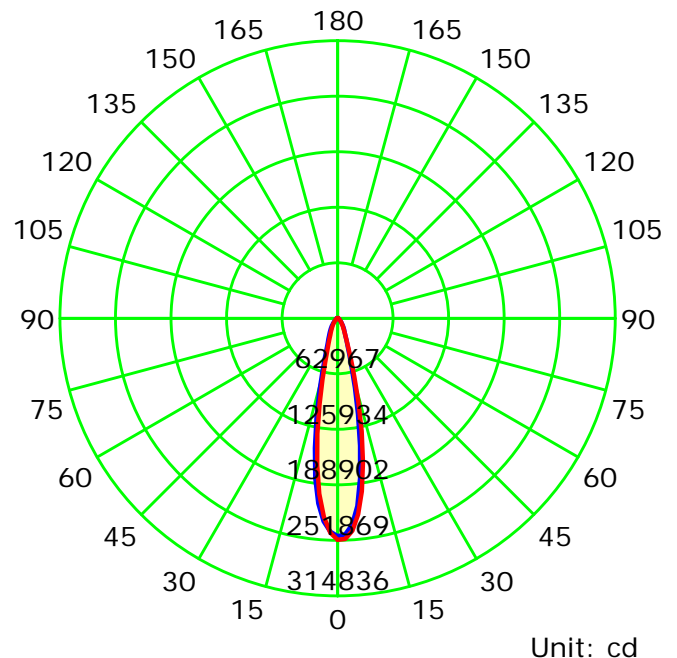
S/MH(C0/C180): 0.39

S/MH(C90/C270): 0.39

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 (°):0.0-180.0:2.0

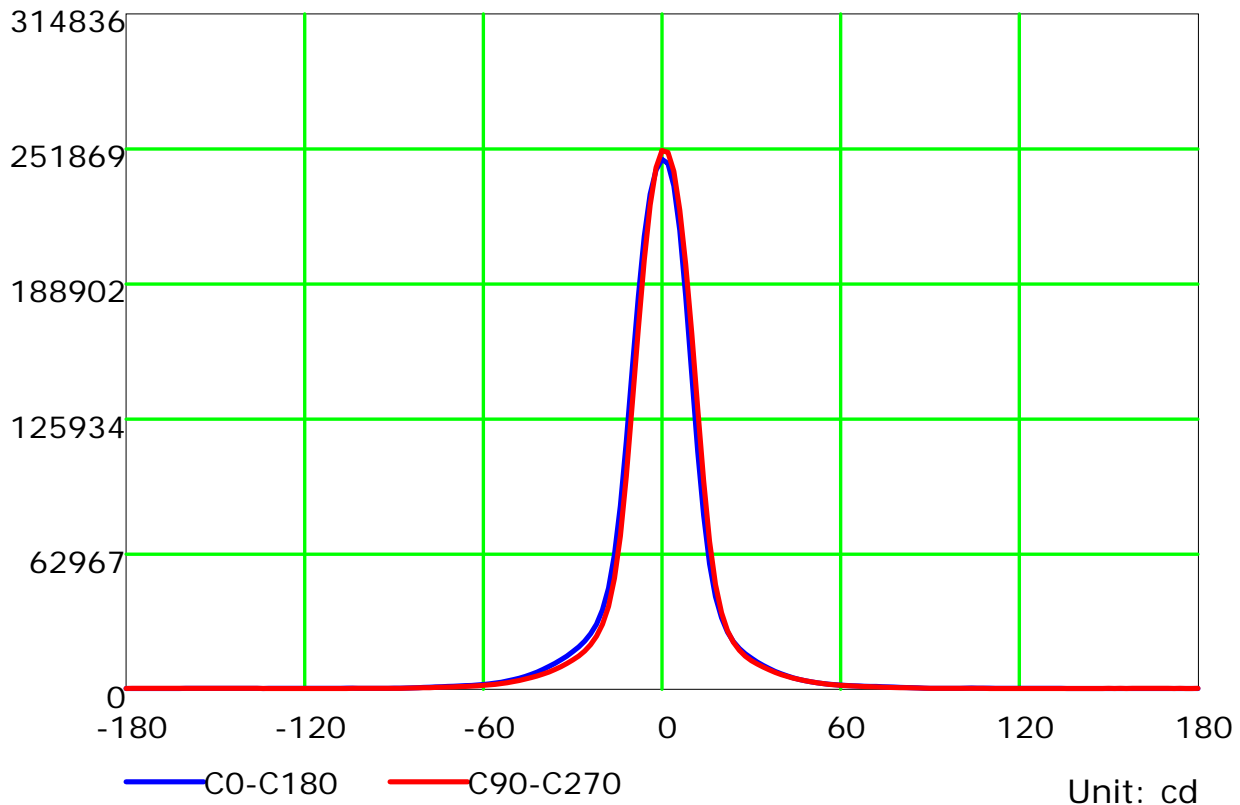
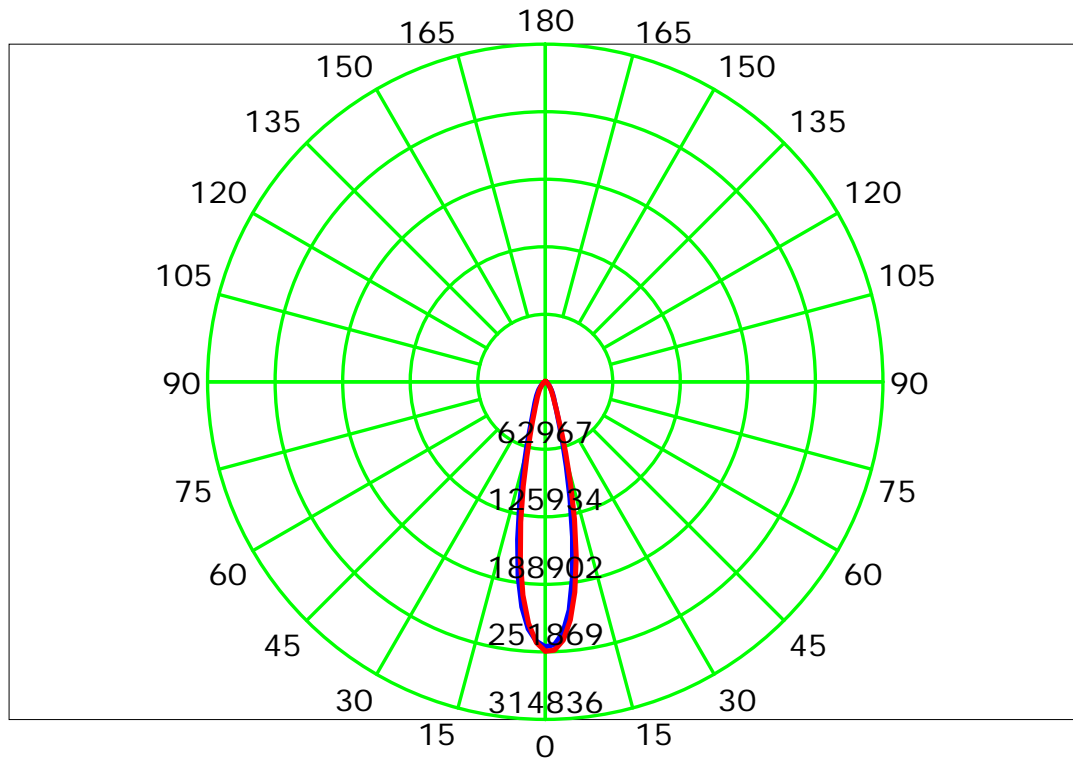
Test Device: LSG-1800B

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 (°):0.0-180.0:2.0

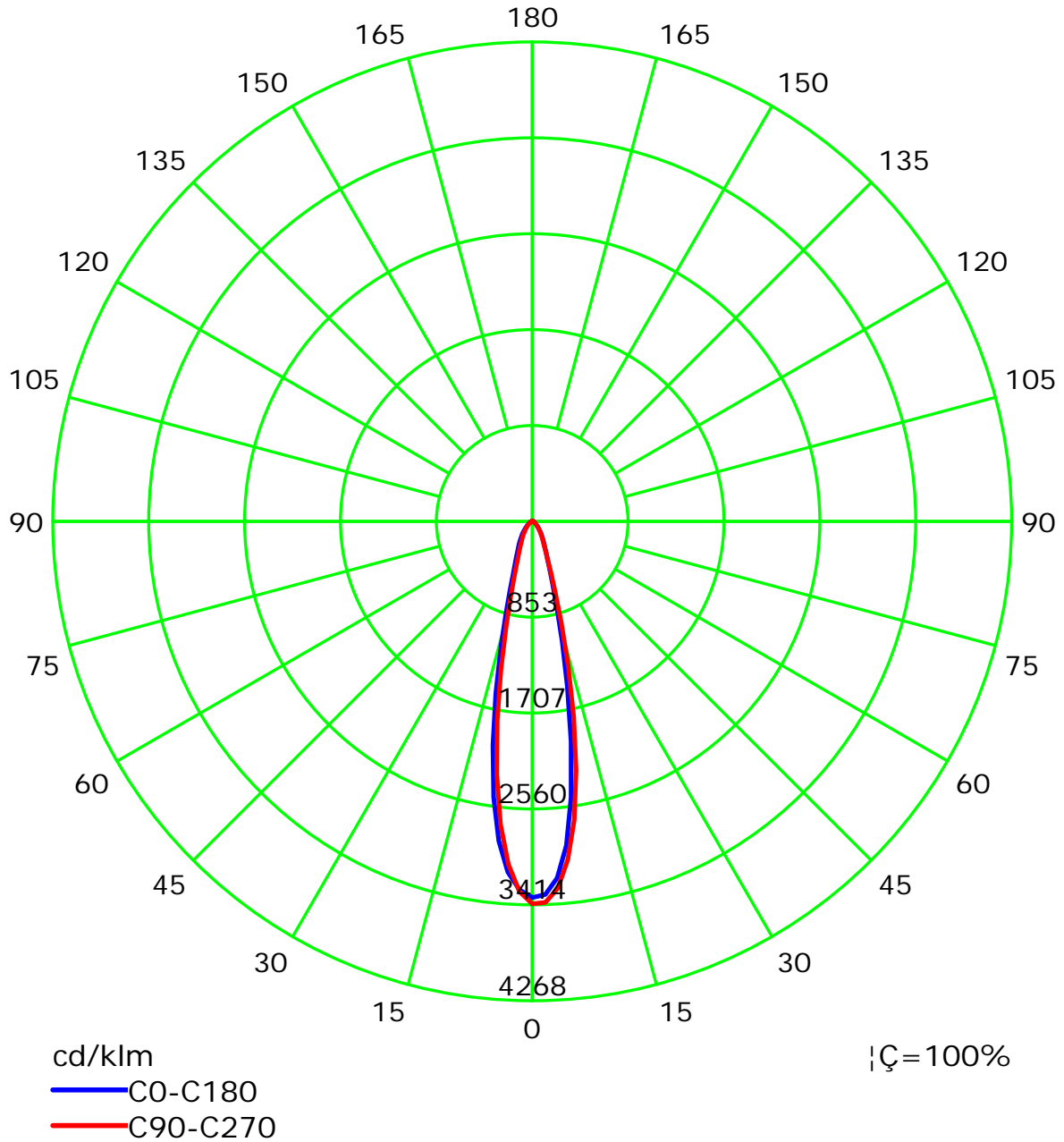
Test Device: LSG-1800B

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: 2.0

Test Device: LSG-1800B

Distance: 12.677 m

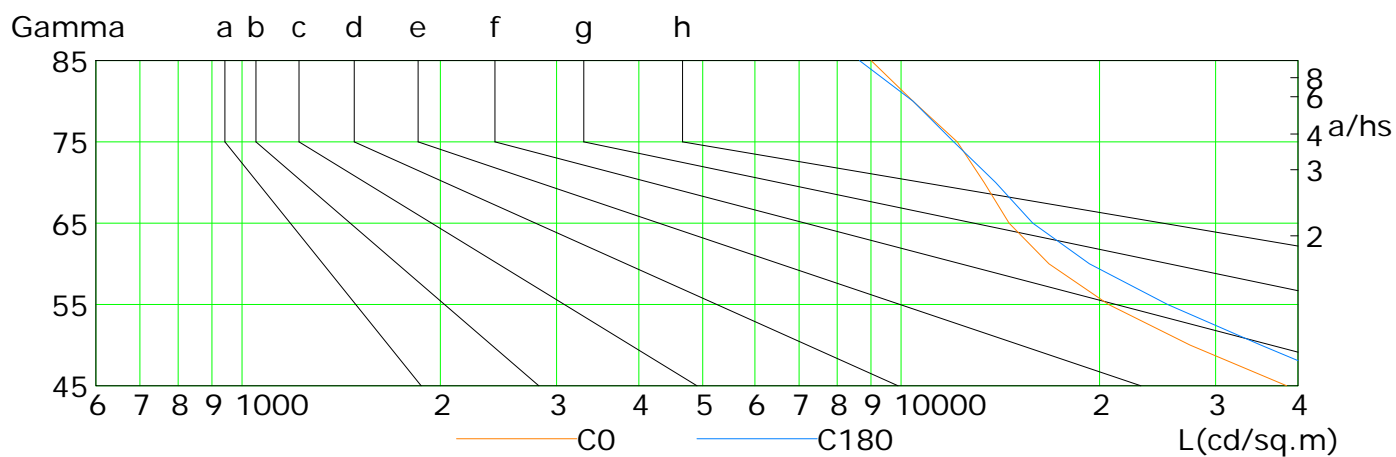
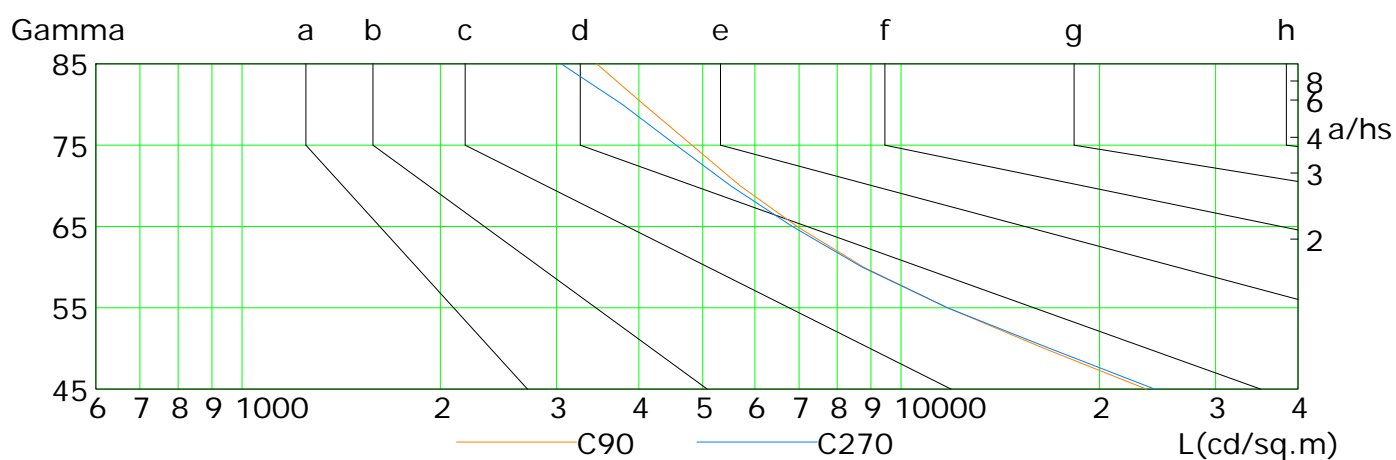
Humidity:

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	38453	27441	20641	16761	14581	13360	12168	10428	9005
C90	23551	16490	11754	8773	6952	5698	4816	4070	3453
C180	49460	35139	25367	19308	15836	13913	12018	10428	8642
C270	24244	16808	11754	8728	6839	5514	4558	3779	3049

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

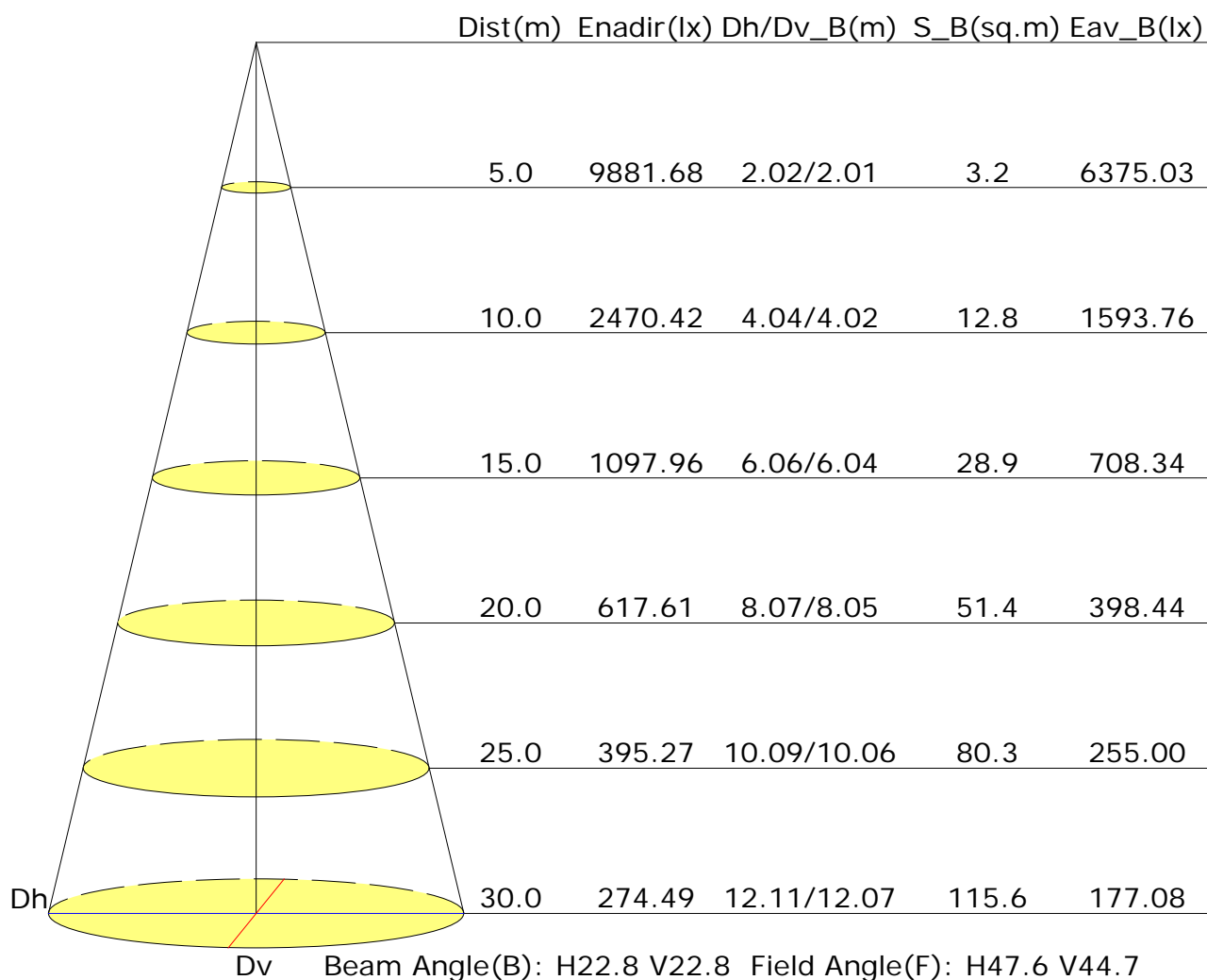
Test Device: LSG-1800B

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	19.3	20.1	19.6	20.4	20.6	18.7	19.5	19.0	19.8	20.0
3H	19.8	20.6	20.2	20.9	21.2	19.0	19.7	19.3	20.0	20.4
4H	20.2	20.9	20.6	21.2	21.5	19.1	19.8	19.5	20.2	20.5
6H	20.5	21.2	20.9	21.5	21.9	19.3	19.9	19.7	20.3	20.6
8H	20.6	21.3	21.1	21.6	22.0	19.3	20.0	19.7	20.3	20.7
12H	20.8	21.4	21.2	21.8	22.2	19.4	20.0	19.8	20.4	20.8
X=4H Y=2H	19.4	20.1	19.8	20.5	20.8	18.9	19.6	19.3	19.9	20.3
3H	20.1	20.8	20.6	21.1	21.5	19.4	20.0	19.8	20.3	20.7
4H	20.6	21.1	21.0	21.5	21.9	19.6	20.1	20.0	20.5	21.0
6H	21.0	21.5	21.5	21.9	22.4	19.8	20.3	20.3	20.7	21.2
8H	21.2	21.6	21.7	22.1	22.6	19.9	20.4	20.4	20.8	21.3
12H	21.4	21.8	21.9	22.3	22.8	20.0	20.4	20.5	20.9	21.4
X=8H Y=4H	20.6	21.1	21.1	21.5	22.0	19.7	20.1	20.2	20.6	21.1
6H	21.1	21.5	21.7	22.0	22.5	20.0	20.4	20.6	20.9	21.4
8H	21.4	21.7	21.9	22.2	22.8	20.2	20.5	20.8	21.1	21.6
12H	21.7	22.0	22.3	22.5	23.1	20.4	20.7	21.0	21.2	21.8
X=12H Y=4H	20.6	21.0	21.1	21.5	22.0	19.7	20.1	20.2	20.6	21.1
6H	21.1	21.5	21.7	22.0	22.5	20.1	20.4	20.6	20.9	21.5
8H	21.5	21.7	22.0	22.3	22.8	20.3	20.6	20.8	21.1	21.7
Variations with the observer position at spacings:										
S=1.0H	+0.9/-1.0					+1.1/-1.4				
S=1.5H	+2.0/-1.7					+1.8/-2.3				
S=2.0H	+3.3/-2.4					+3.1/-3.0				

Calculate in accordance with CIE Pub.117. The table is revised with 73761lm ($8\log(F/F_0) = 14.9$).

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.50									
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	0.81	0.87	0.92	0.95	1.00	1.03	1.05	1.08	1.10	
	0.30		0.76	0.82	0.87	0.91	0.96	0.99	1.02	1.05	1.07	
	0.20		0.72	0.79	0.84	0.87	0.93	0.96	0.99	1.03	1.05	
0.50	0.50	0.20	0.79	0.85	0.89	0.92	0.96	0.99	1.01	1.03	1.05	
	0.30		0.75	0.81	0.85	0.89	0.93	0.96	0.98	1.01	1.03	
	0.20		0.71	0.78	0.82	0.86	0.90	0.94	0.96	0.99	1.01	
0.30	0.50	0.20	0.78	0.83	0.87	0.90	0.93	0.95	0.97	0.99	1.00	
	0.30		0.74	0.80	0.84	0.87	0.91	0.93	0.95	0.97	0.99	
	0.20		0.71	0.77	0.81	0.84	0.88	0.91	0.93	0.96	0.98	
0.00	0.00	0.00	0.69	0.74	0.78	0.81	0.84	0.87	0.88	0.91	0.92	
Rating: 502W 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 = 0.50									
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	0.65	0.53	0.45	0.39	0.31	0.26	0.22	0.17	0.14	
	0.30		0.54	0.46	0.39	0.35	0.28	0.24	0.21	0.16	0.14	
	0.20		0.46	0.40	0.35	0.31	0.26	0.22	0.19	0.15	0.13	
0.50	0.50	0.20	0.61	0.50	0.42	0.36	0.29	0.28	0.20	0.16	0.13	
	0.30		0.52	0.43	0.37	0.33	0.26	0.22	0.19	0.15	0.12	
	0.20		0.45	0.38	0.33	0.30	0.24	0.21	0.18	0.14	0.12	
0.30	0.50	0.20	0.58	0.47	0.39	0.34	0.27	0.22	0.19	0.15	0.12	
	0.30		0.50	0.41	0.35	0.31	0.25	0.21	0.18	0.14	0.11	
	0.20		0.43	0.37	0.32	0.28	0.23	0.19	0.17	0.13	0.11	
0.00	0.00	0.00	0.30	0.24	0.20	0.18	0.14	0.12	0.10	0.08	0.06	
Rating: 502W 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 = 0.50									
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	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.25	
	0.30		0.13	0.15	0.16	0.17	0.19	0.20	0.21	0.23	0.23	
	0.20		0.10	0.11	0.13	0.14	0.16	0.18	0.19	0.21	0.22	
0.50	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.23	0.24	
	0.30		0.13	0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.23	
	0.20		0.10	0.11	0.13	0.14	0.16	0.18	0.19	0.20	0.21	
0.30	0.50	0.20	0.16	0.18	0.19	0.19	0.21	0.21	0.22	0.23	0.23	
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22	
	0.20		0.09	0.11	0.13	0.14	0.16	0.17	0.18	0.20	0.20	
0.00	0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	
Rating: 502W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												