



OOO "FAROS"

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Report No.:

Test Time: 05.03.2020 11:56

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 36LED 400W 5000K 20gr. DALI

Luminous Length (mm): 205

Luminous Width (mm): 440

Luminous Height (mm): 338

Voltage: 229.5 V

Current: 1.788 A

Power: 401.23 W

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Measurement Flux: 59473.8 lm

Downward Ratio: 96%

Total Rated Lamp Lumens: 59473.8 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): 148.28

Central Intensity: 199190.41 cd

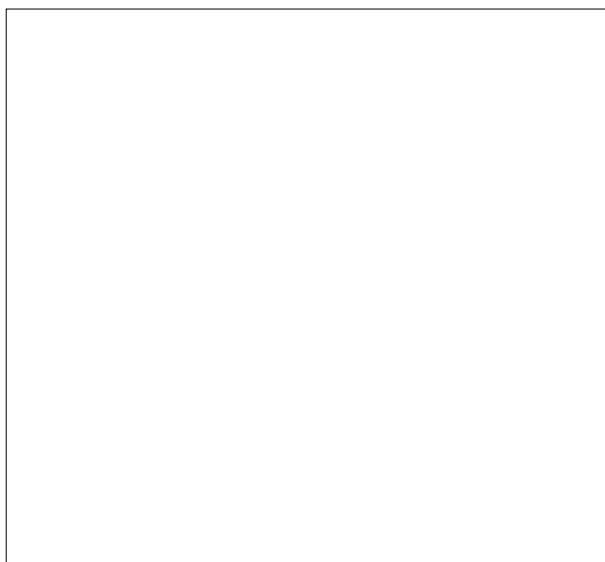
Max. Intensity: 203082.69 cd

Pos of Max. Intensity: H135 V0

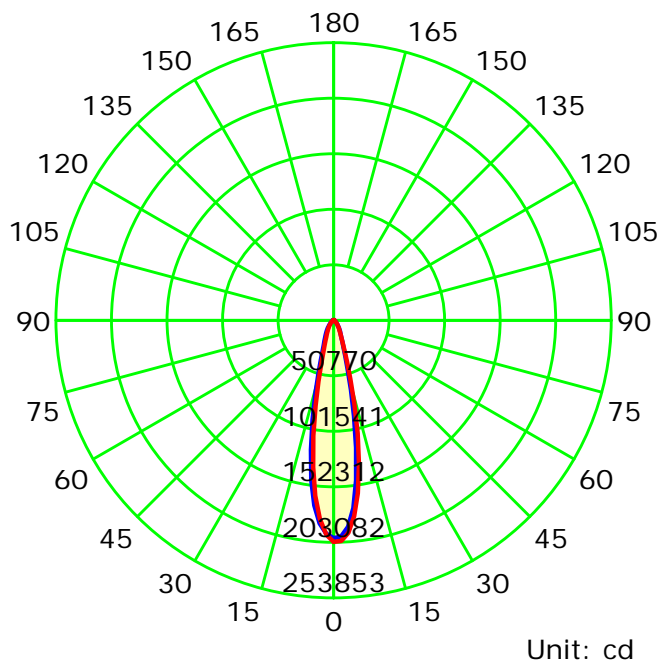
S/MH(C0/C180): 0.39

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

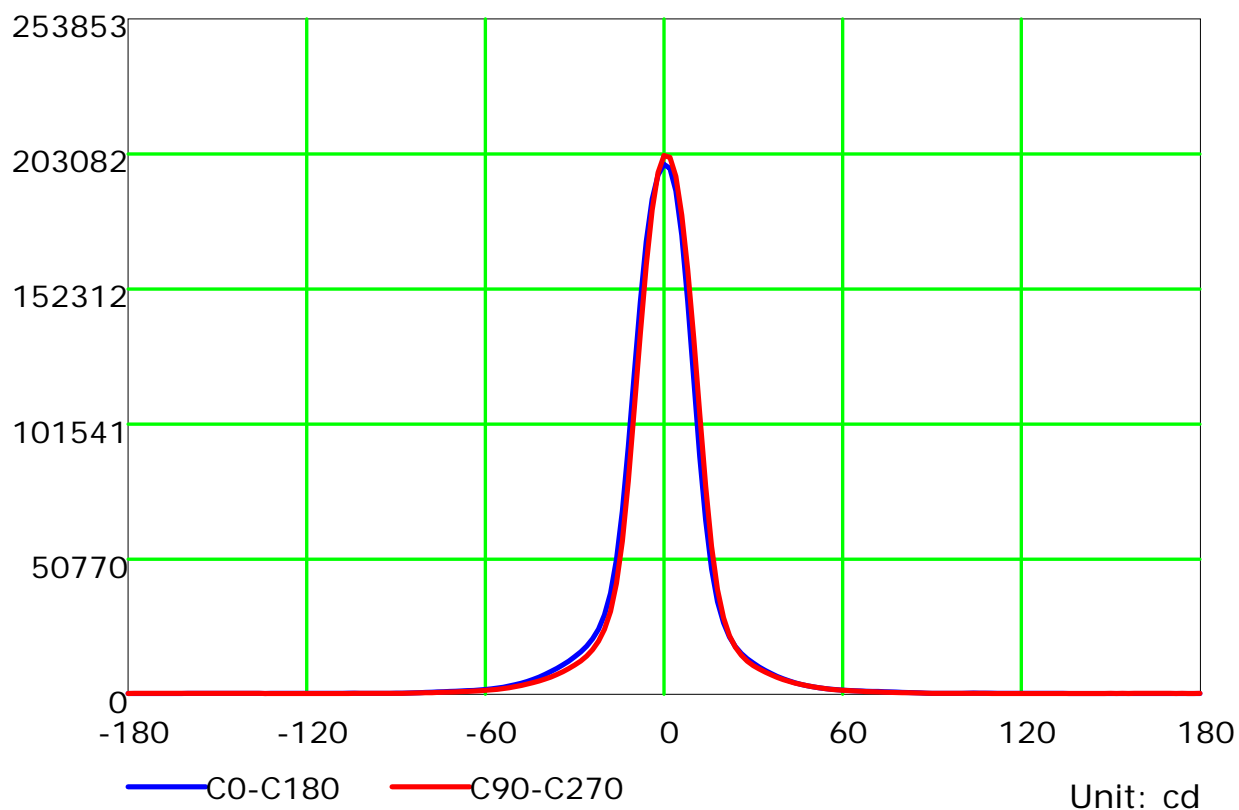
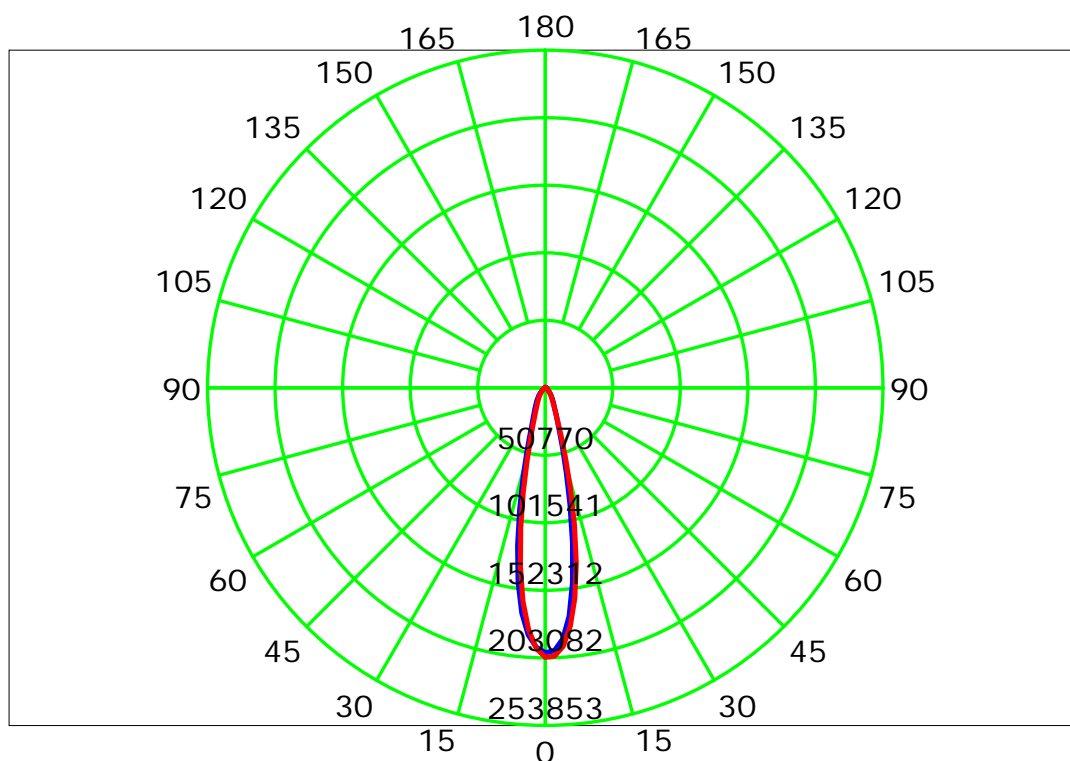
Test Device: LSG-1800B

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

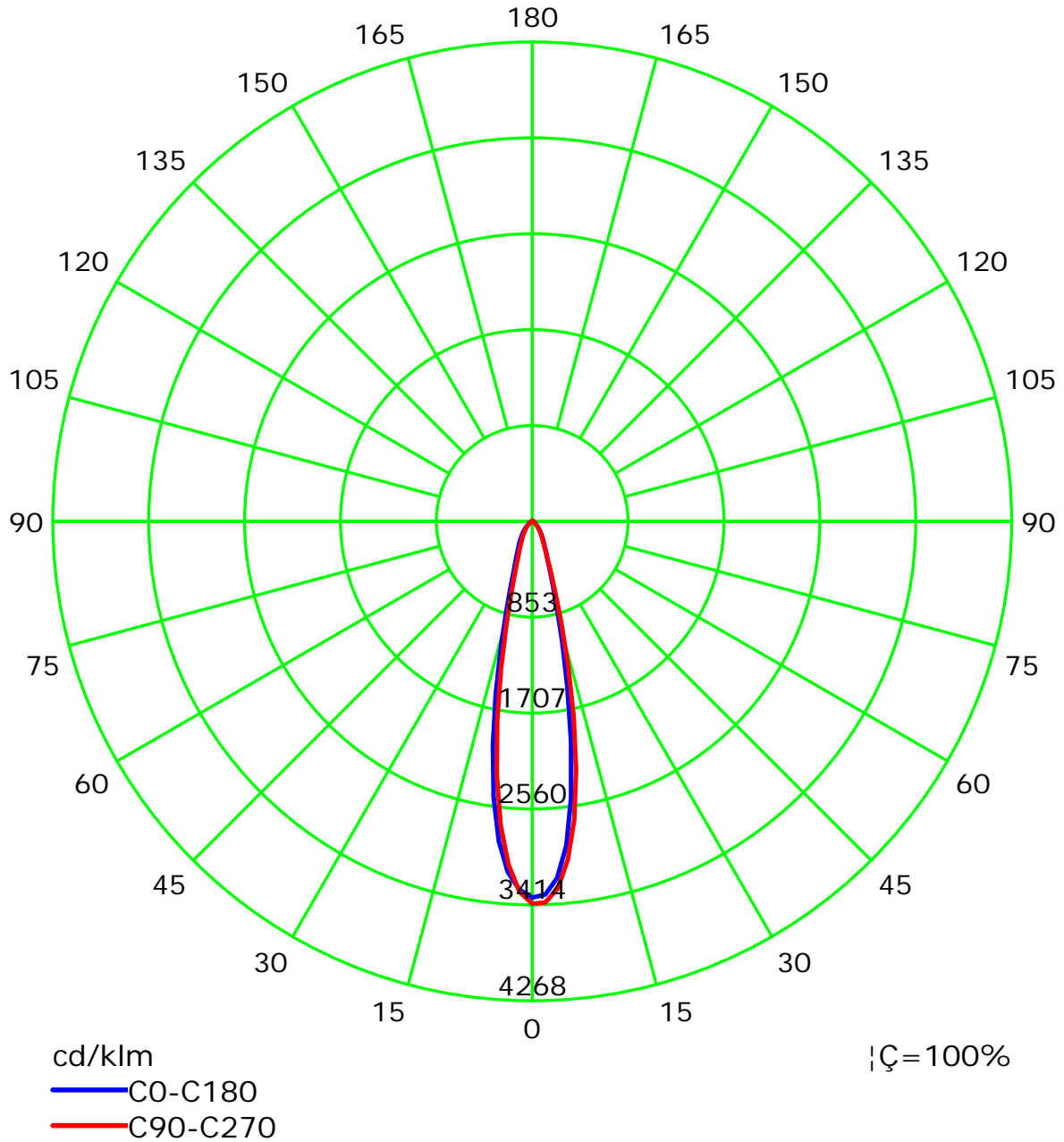
Test Device: LSG-1800B

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

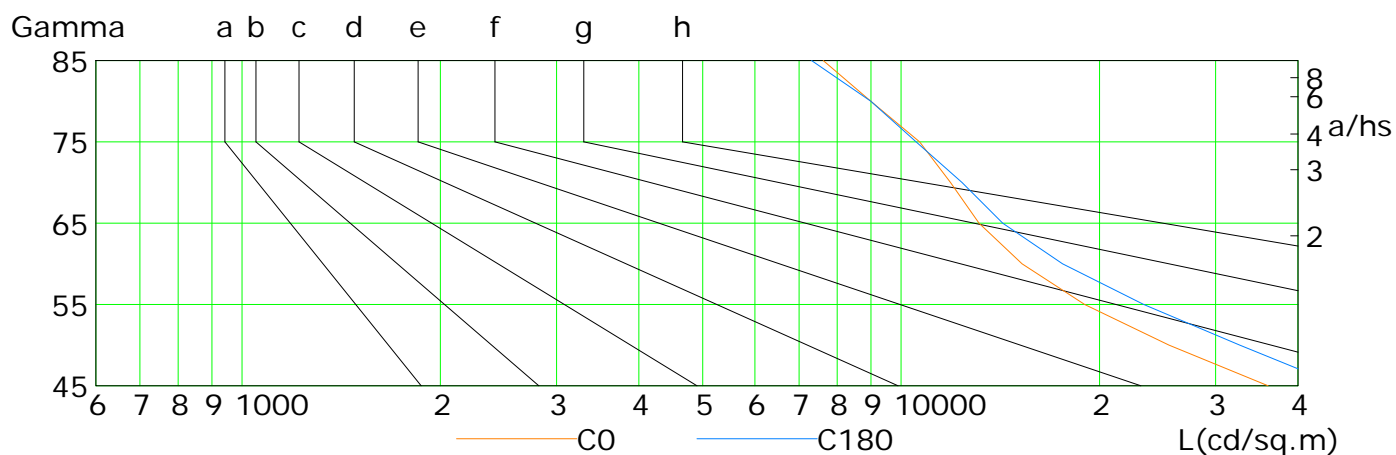
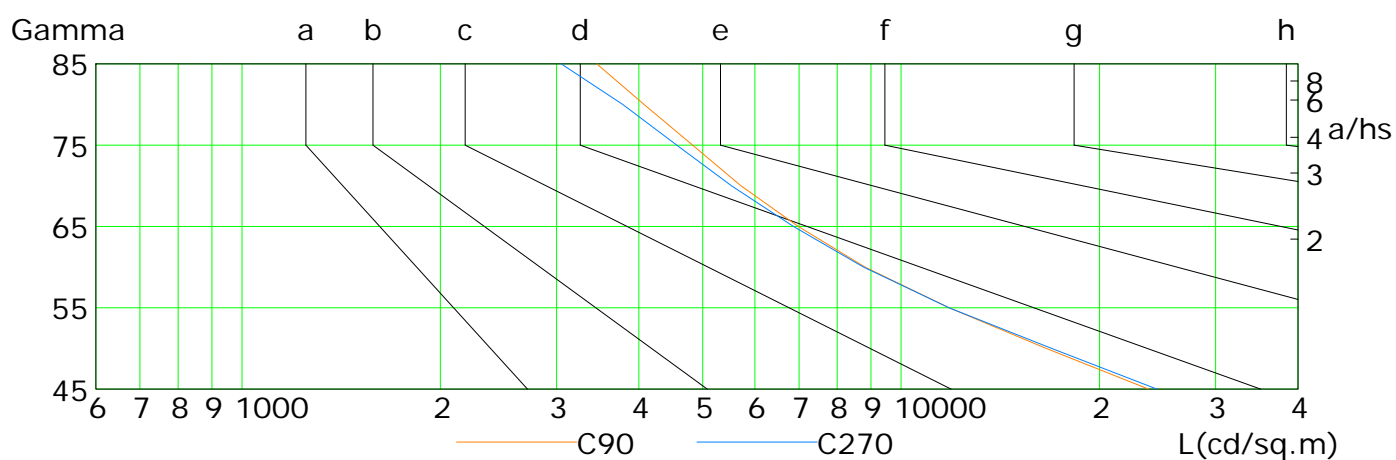
Humidity:

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	36047	25489	18988	15262	13129	11881	10670	8997	7619
C90	23737	16604	11825	8818	6981	5715	4826	4074	3452
C180	46366	32640	23337	17581	14259	12373	10539	8997	7312
C270	24435	16924	11825	8772	6867	5531	4567	3783	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

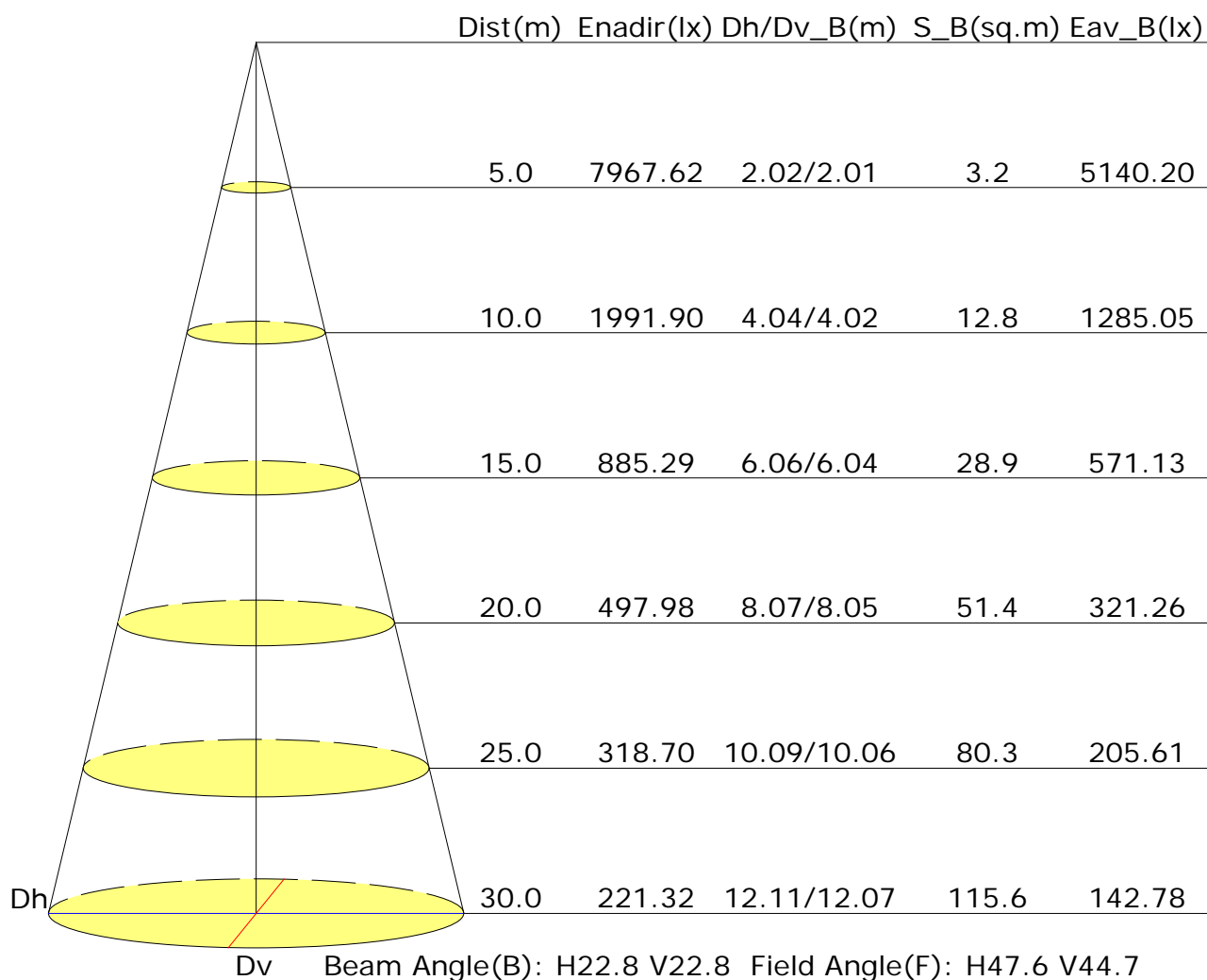
Test Device: LSG-1800B

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	19.1	19.9	19.4	20.2	20.5	18.6	19.5	19.0	19.7	20.0
3H	19.7	20.4	20.0	20.7	21.0	19.0	19.7	19.3	20.0	20.3
4H	20.0	20.7	20.3	21.0	21.3	19.1	19.8	19.5	20.1	20.5
6H	20.3	20.9	20.7	21.3	21.6	19.2	19.9	19.6	20.2	20.6
8H	20.4	21.0	20.8	21.4	21.8	19.3	19.9	19.7	20.3	20.7
12H	20.5	21.1	20.9	21.5	21.9	19.3	20.0	19.8	20.3	20.7
X=4H Y=2H	19.3	20.0	19.7	20.3	20.7	18.9	19.6	19.2	19.9	20.2
3H	20.0	20.6	20.4	20.9	21.3	19.3	19.9	19.7	20.3	20.7
4H	20.4	20.9	20.8	21.3	21.7	19.5	20.1	20.0	20.5	20.9
6H	20.8	21.2	21.2	21.7	22.1	19.8	20.3	20.2	20.7	21.2
8H	20.9	21.4	21.4	21.8	22.3	19.9	20.3	20.4	20.8	21.3
12H	21.1	21.5	21.6	22.0	22.5	20.0	20.4	20.5	20.9	21.4
X=8H Y=4H	20.4	20.8	20.9	21.3	21.8	19.6	20.1	20.1	20.5	21.0
6H	20.9	21.3	21.4	21.8	22.3	20.0	20.3	20.5	20.8	21.4
8H	21.2	21.5	21.7	22.0	22.6	20.2	20.5	20.7	21.0	21.6
12H	21.4	21.7	22.0	22.3	22.8	20.3	20.6	20.9	21.2	21.7
X=12H Y=4H	20.4	20.8	20.9	21.3	21.8	19.6	20.0	20.1	20.5	21.0
6H	20.9	21.2	21.5	21.7	22.3	20.0	20.3	20.5	20.8	21.4
8H	21.2	21.5	21.8	22.0	22.6	20.2	20.5	20.8	21.0	21.6
Variations with the observer position at spacings:										
S=1.0H	+0.9/-1.1					+1.1/-1.4				
S=1.5H	+2.1/-1.7					+1.8/-2.3				
S=2.0H	+3.4/-2.4					+3.2/-3.0				

Calculate in accordance with CIE Pub.117. The table is revised with 59474Im ($8\log(F/F_0) = 14.2$).

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: 401W 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: 401W 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: 401W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												