



OOO "FAROS"

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Report No.:

Test Time: 05.03.2020 11:56

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 36LED 600W 5000K 20gr. DALI

Luminous Length (mm): 345

Luminous Width (mm): 345

Luminous Height (mm): 695

Voltage: 228.2 V

Current: 2.663 A

Power: 598.68 W

Power Factor: 0.985

## Photometric Results

CIE Class: Direct

Measurement Flux: 89372.3 lm

Downward Ratio: 96%

Total Rated Lamp Lumens: 89372.3 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): 149.33

Central Intensity: 299326.91 cd

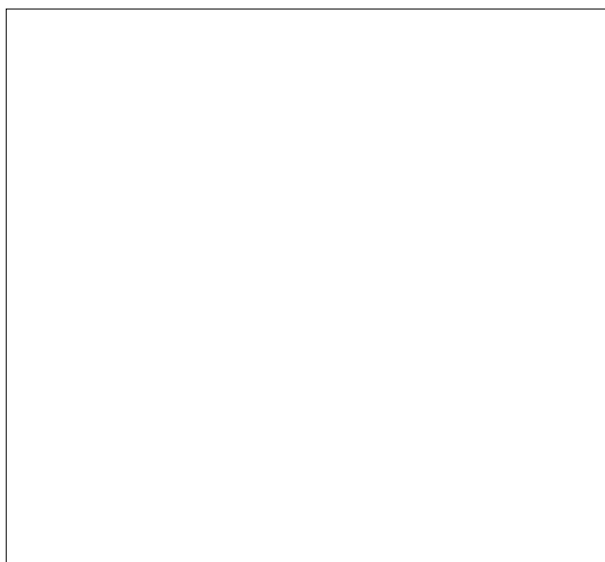
Max. Intensity: 305175.91 cd

Pos of Max. Intensity: H135 V0

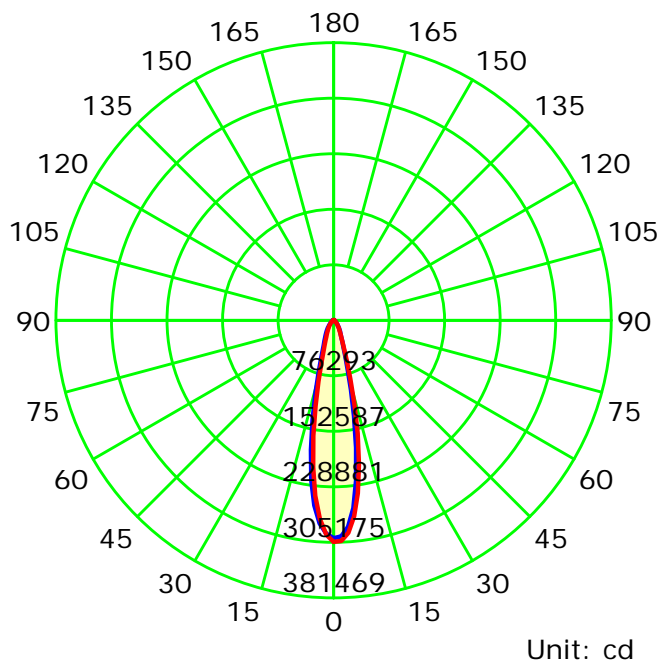
S/MH(C0/C180): 0.39

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

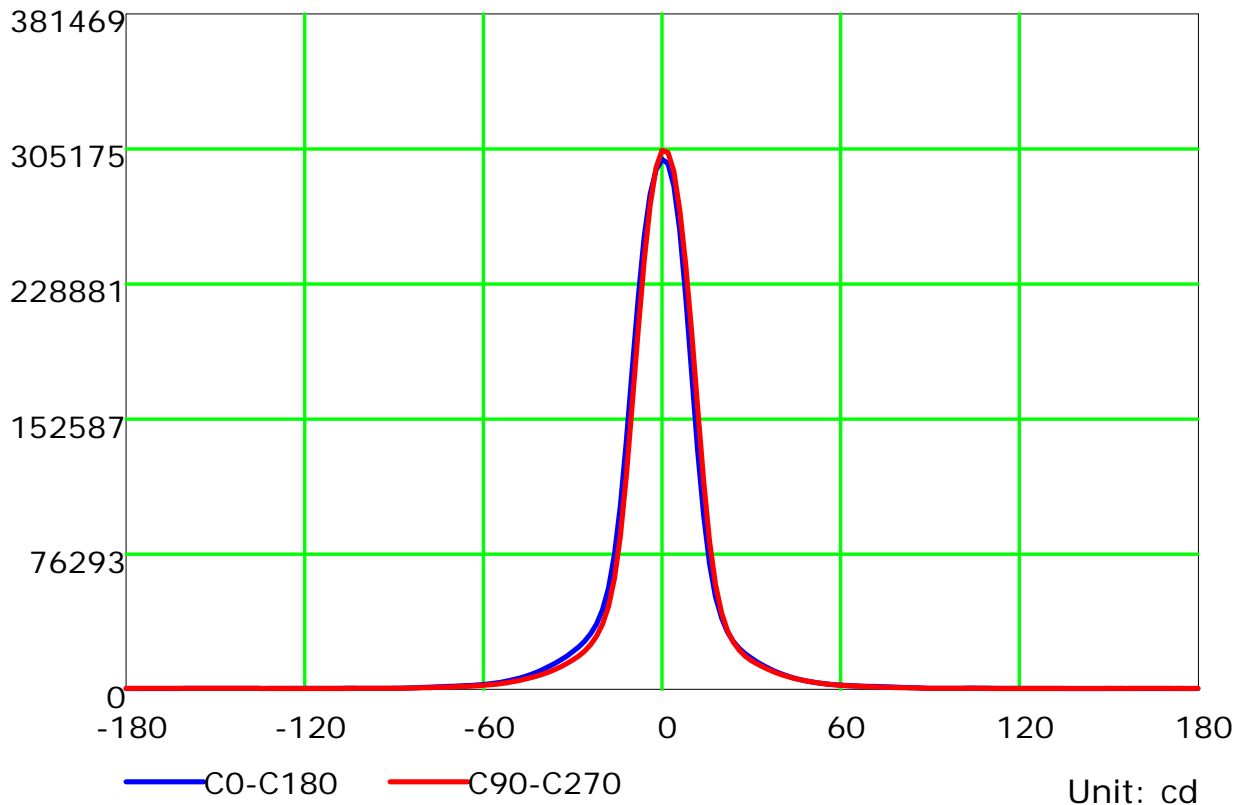
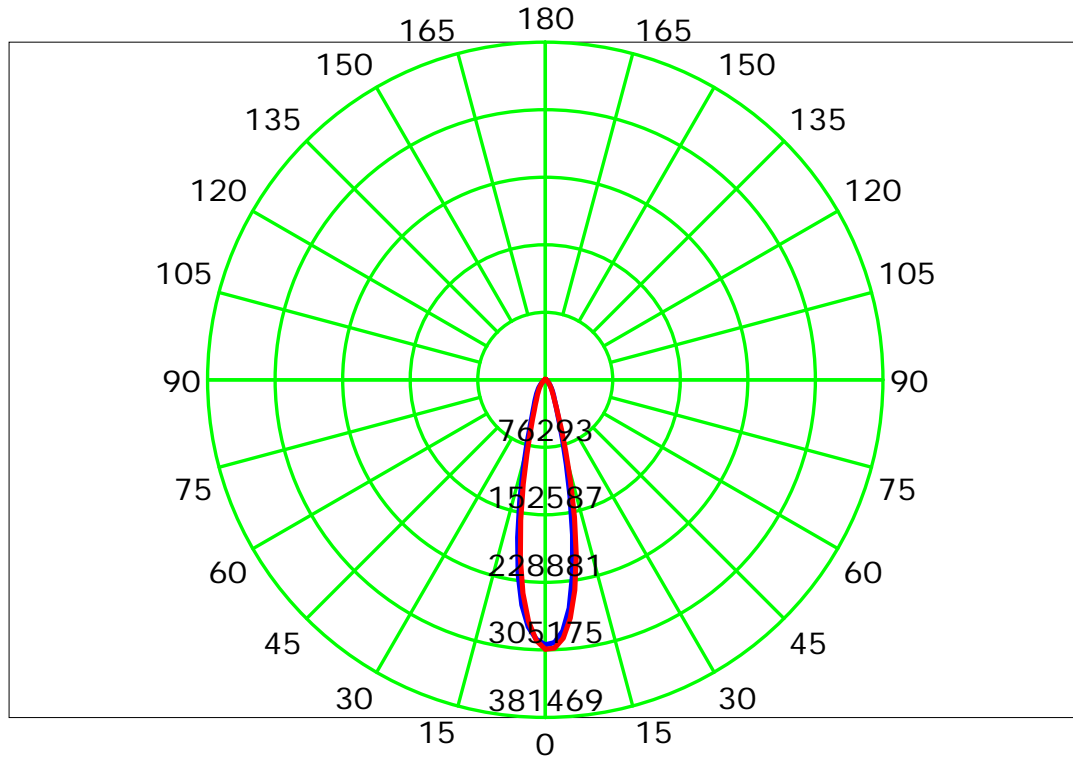
Test Device: LSG-1800B

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

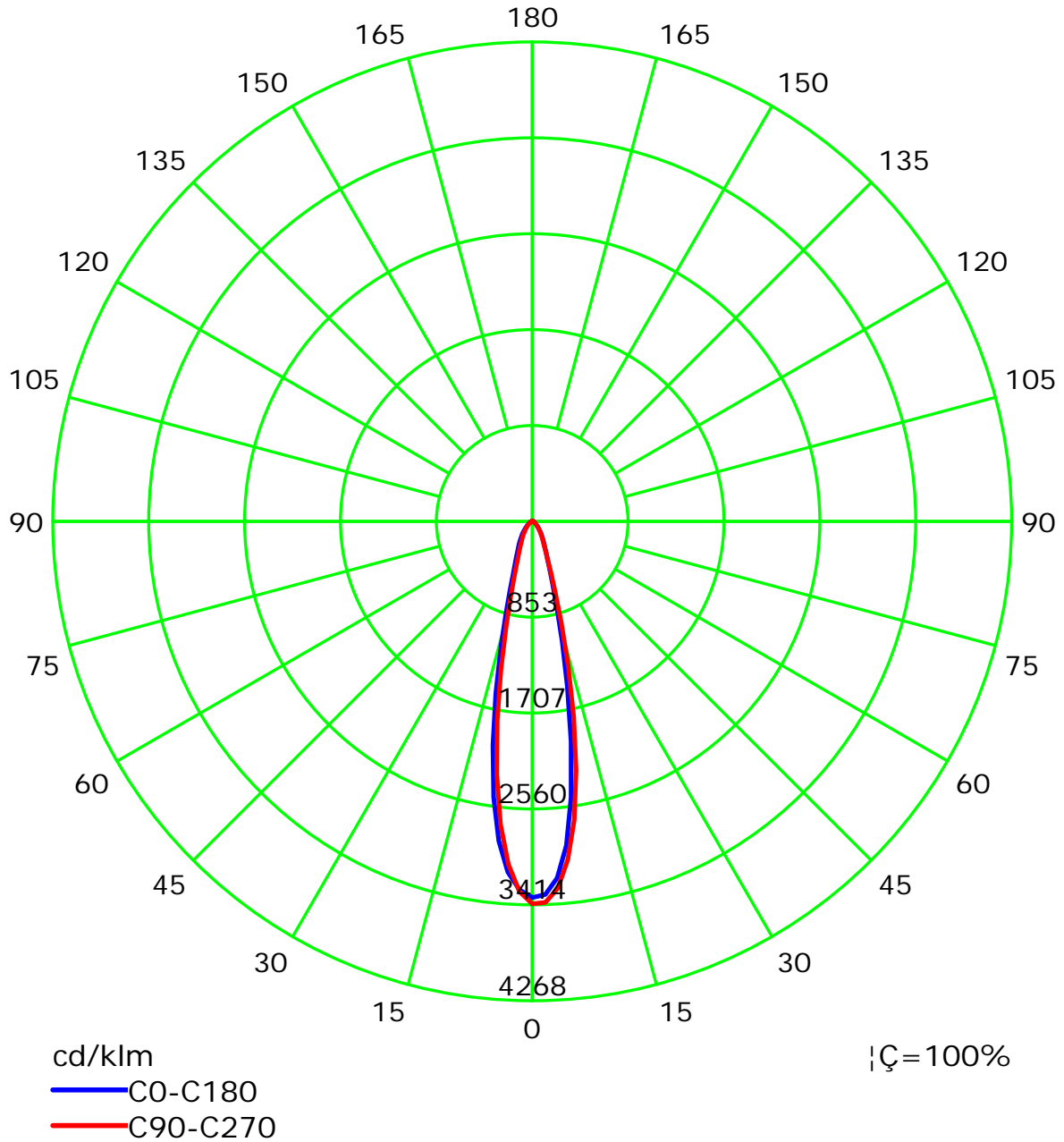
Test Device: LSG-1800B

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

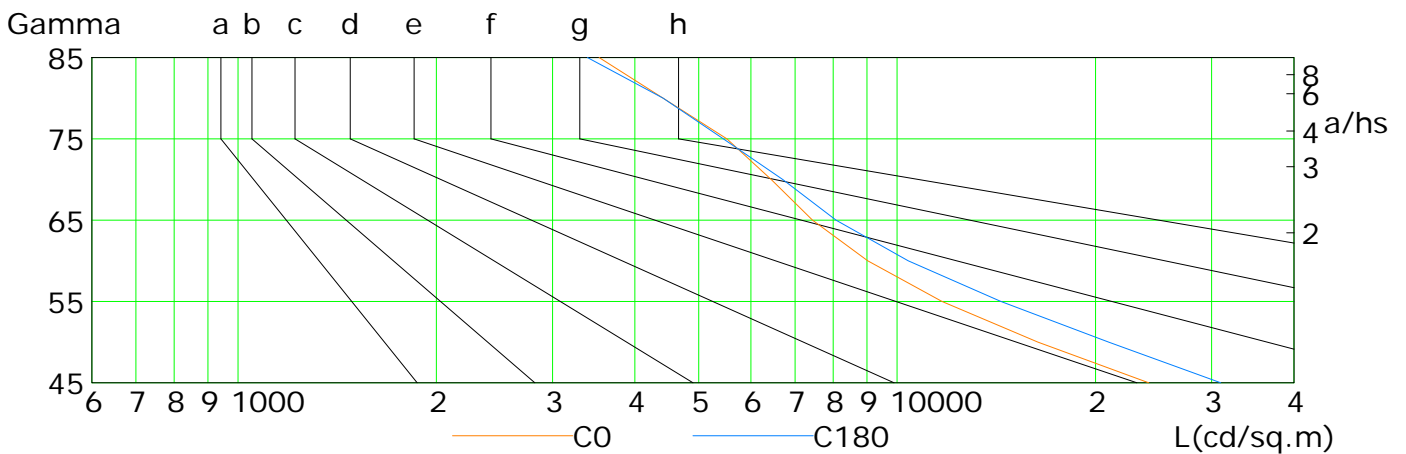
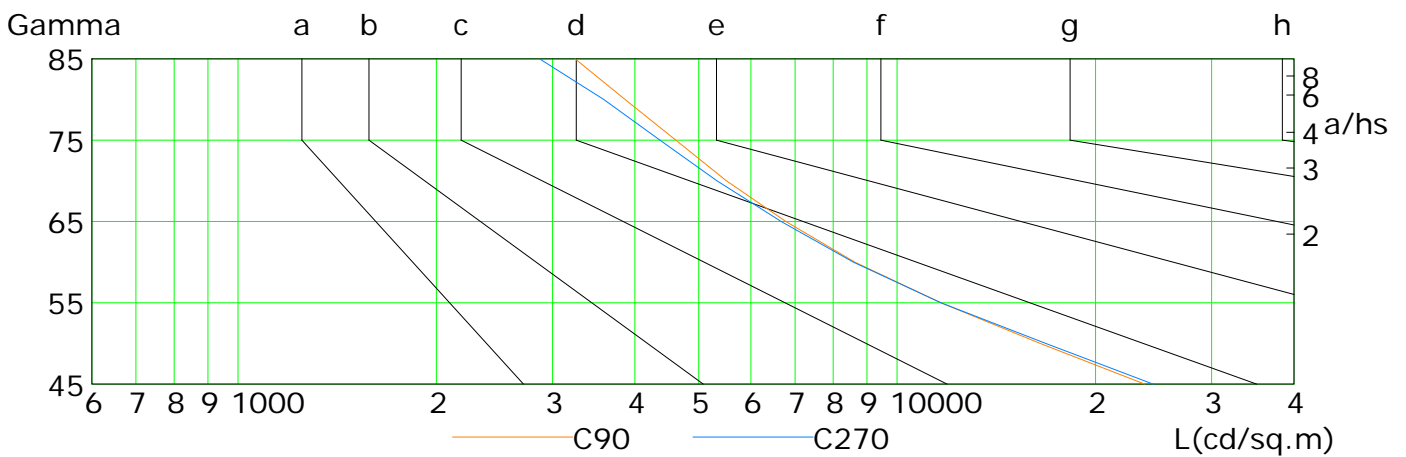
Humidity:

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	24079	16349	11696	9023	7440	6441	5516	4417	3532
C90	23752	16485	11652	8624	6778	5508	4616	3865	3248
C180	30971	20936	14375	10394	8080	6707	5449	4417	3390
C270	24451	16803	11652	8580	6667	5330	4368	3589	2868

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

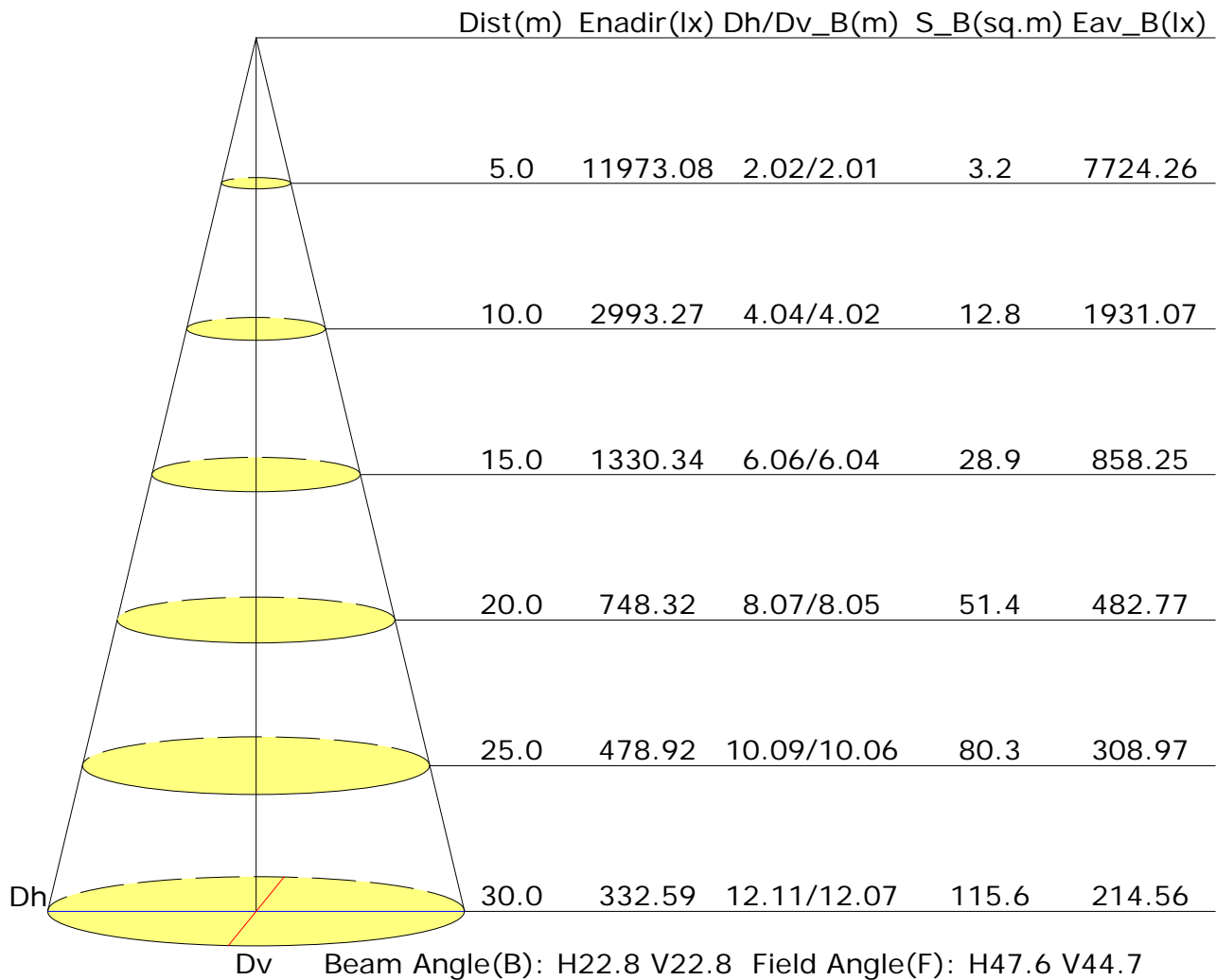
Test Device: LSG-1800B

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	18.0	18.8	18.3	19.1	19.4	18.2	19.0	18.5	19.3	19.6
3H	18.4	19.2	18.8	19.5	19.8	18.5	19.3	18.9	19.6	19.9
4H	18.7	19.4	19.0	19.7	20.0	18.7	19.4	19.1	19.7	20.1
6H	18.9	19.5	19.3	19.9	20.3	18.8	19.5	19.2	19.8	20.2
8H	19.0	19.6	19.4	20.0	20.4	18.9	19.5	19.3	19.9	20.3
12H	19.1	19.7	19.5	20.0	20.4	18.9	19.5	19.4	19.9	20.3
X=4H Y=2H	18.2	18.9	18.6	19.2	19.6	18.4	19.1	18.7	19.4	19.7
3H	18.7	19.3	19.2	19.7	20.1	18.8	19.4	19.2	19.8	20.2
4H	19.1	19.6	19.5	20.0	20.4	19.0	19.6	19.5	20.0	20.4
6H	19.4	19.9	19.8	20.3	20.8	19.3	19.8	19.8	20.2	20.7
8H	19.5	20.0	20.0	20.4	20.9	19.4	19.8	19.9	20.3	20.8
12H	19.6	20.0	20.2	20.5	21.0	19.5	19.9	20.0	20.4	20.9
X=8H Y=4H	19.1	19.6	19.6	20.0	20.5	19.1	19.6	19.6	20.0	20.5
6H	19.5	19.9	20.0	20.4	20.9	19.4	19.8	20.0	20.3	20.8
8H	19.7	20.1	20.3	20.6	21.1	19.6	19.9	20.2	20.4	21.0
12H	19.9	20.2	20.5	20.8	21.3	19.8	20.1	20.4	20.6	21.2
X=12H Y=4H	19.1	19.5	19.6	20.0	20.5	19.1	19.5	19.6	20.0	20.5
6H	19.5	19.9	20.1	20.4	20.9	19.5	19.8	20.0	20.3	20.8
8H	19.8	20.1	20.3	20.6	21.2	19.7	19.9	20.2	20.5	21.1
Variations with the observer position at spacings:										
S=1.0H	+1.1/-1.3					+1.0/-1.4				
S=1.5H	+2.3/-2.0					+2.1/-2.4				
S=2.0H	+3.7/-2.6					+3.5/-3.1				

Calculate in accordance with CIE Pub.117. The table is revised with 89372Im ( $8\log(F/F_0) = 15.6$ ).

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: 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 = 0.50									
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: 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 = 0.50									
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: 599W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												