

Report No.:

Test Time: 05.03.2020 11:56

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 36LED 800W 5000K 20gr. DALI

Luminous Length (mm): 345

Luminous Width (mm): 455

Luminous Height (mm): 695

Voltage: 229.5 V

Current: 3.586 A

Power: 803.21 W

Power Factor: 0.976

## Photometric Results

CIE Class: Direct

Measurement Flux: 118828.6 lm

Downward Ratio: 96%

Total Rated Lamp Lumens: 118828.6 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): 147.99

Central Intensity: 397982.44 cd

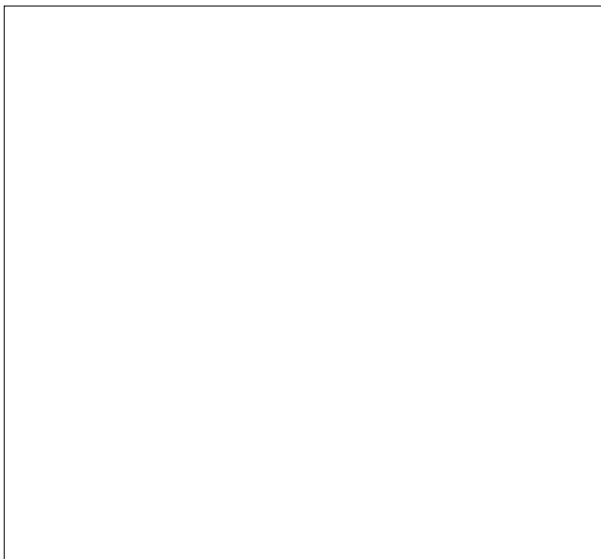
Max. Intensity: 405759.22 cd

Pos of Max. Intensity: H135 V0

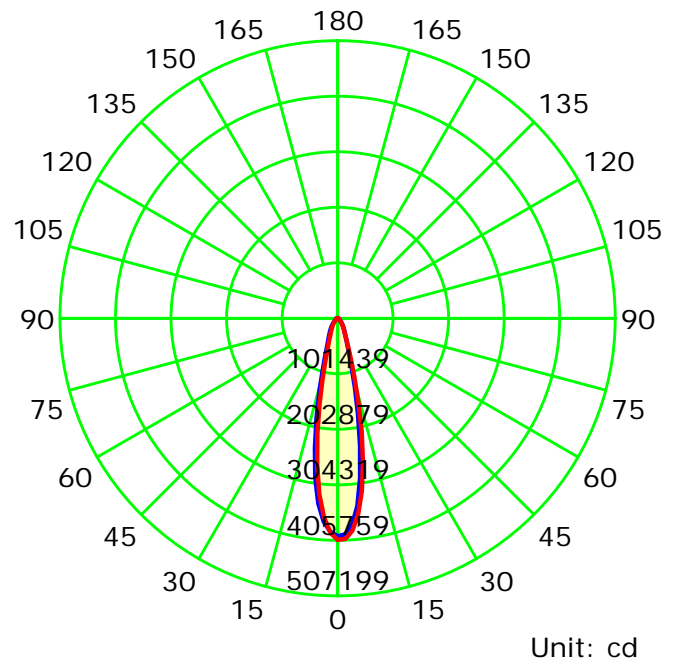
S/MH(C0/C180): 0.39

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

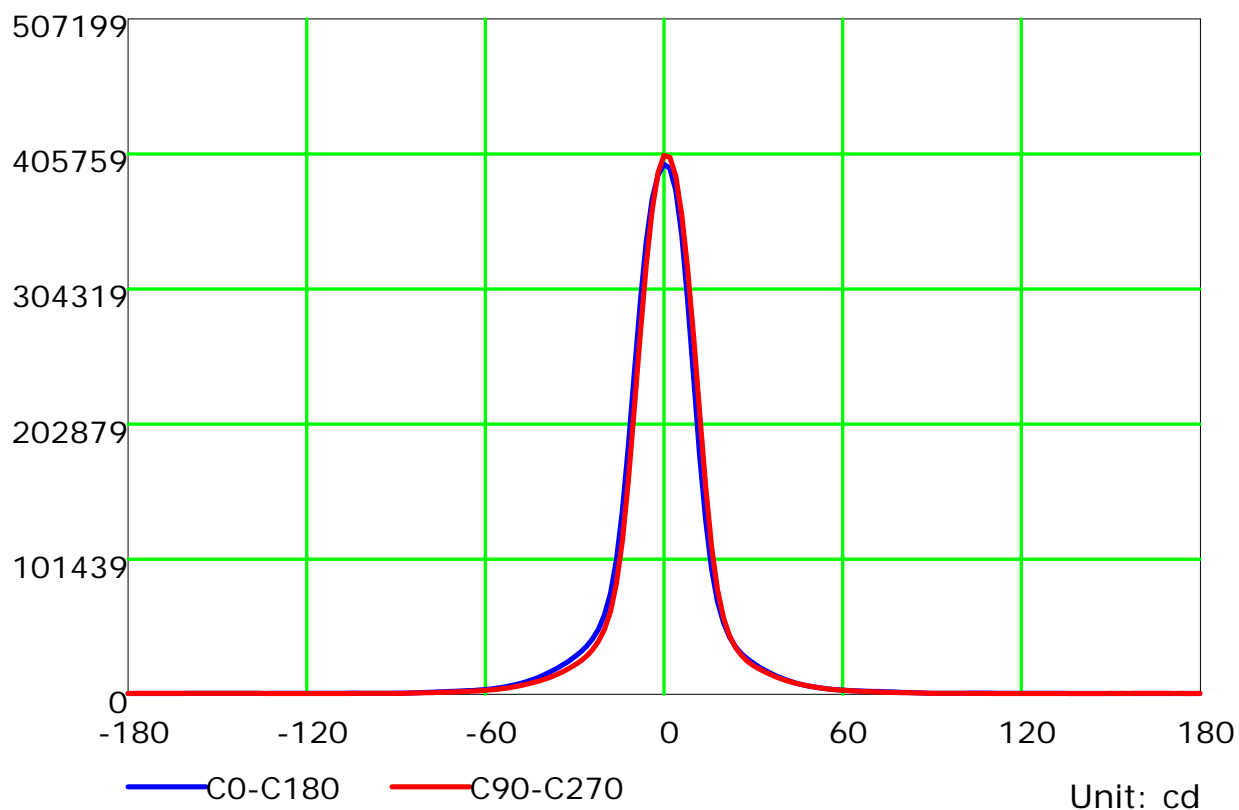
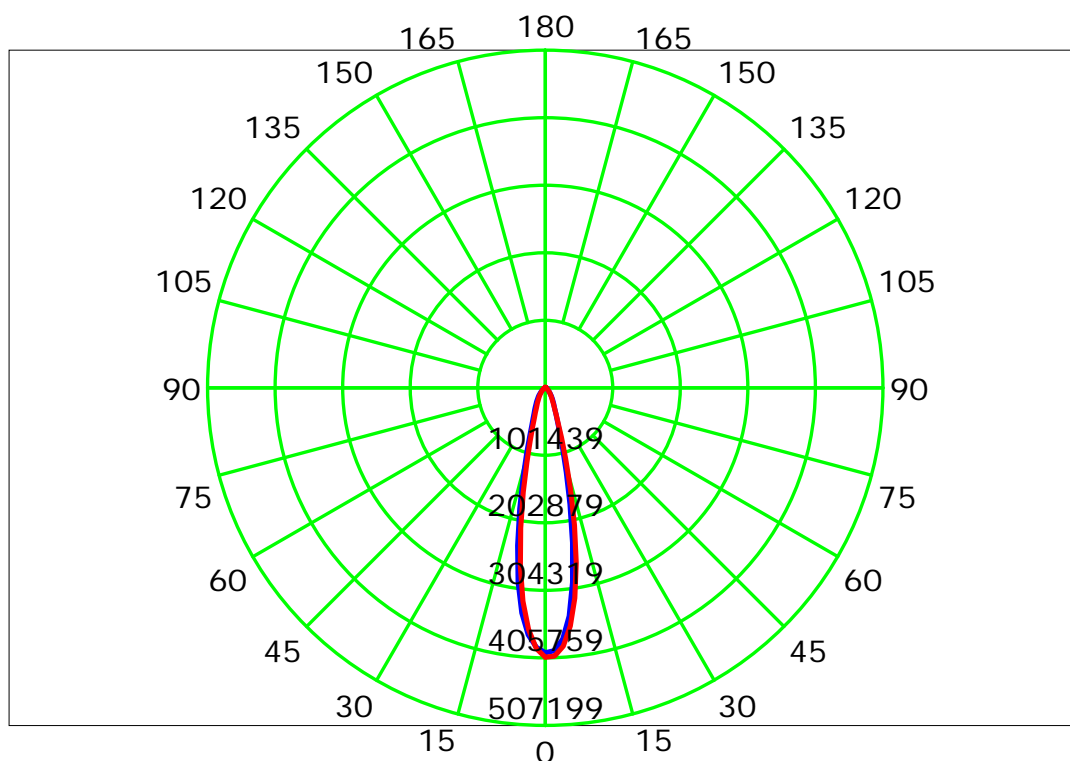
Test Device: LSG-1800B

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

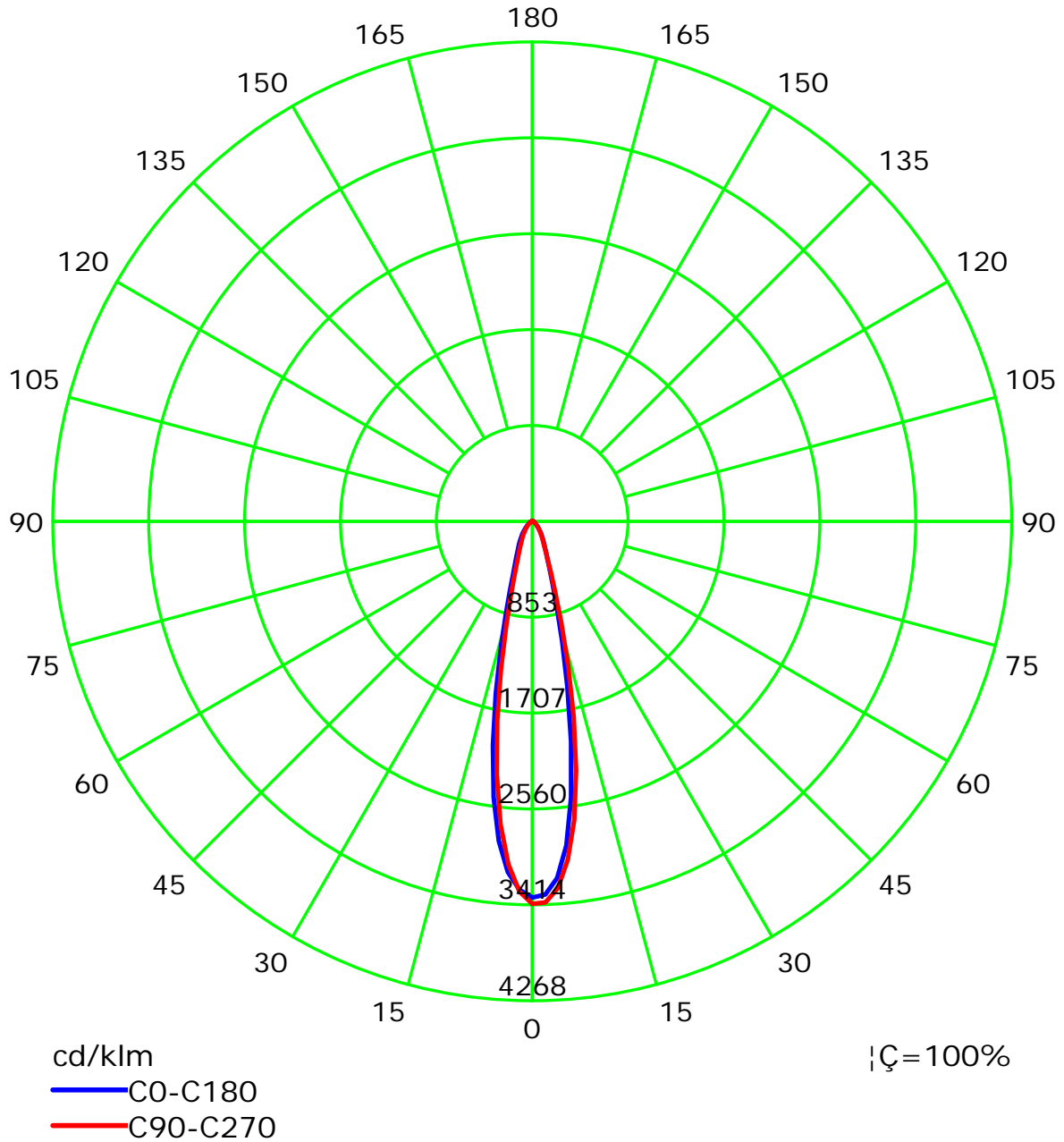
Test Device: LSG-1800B

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

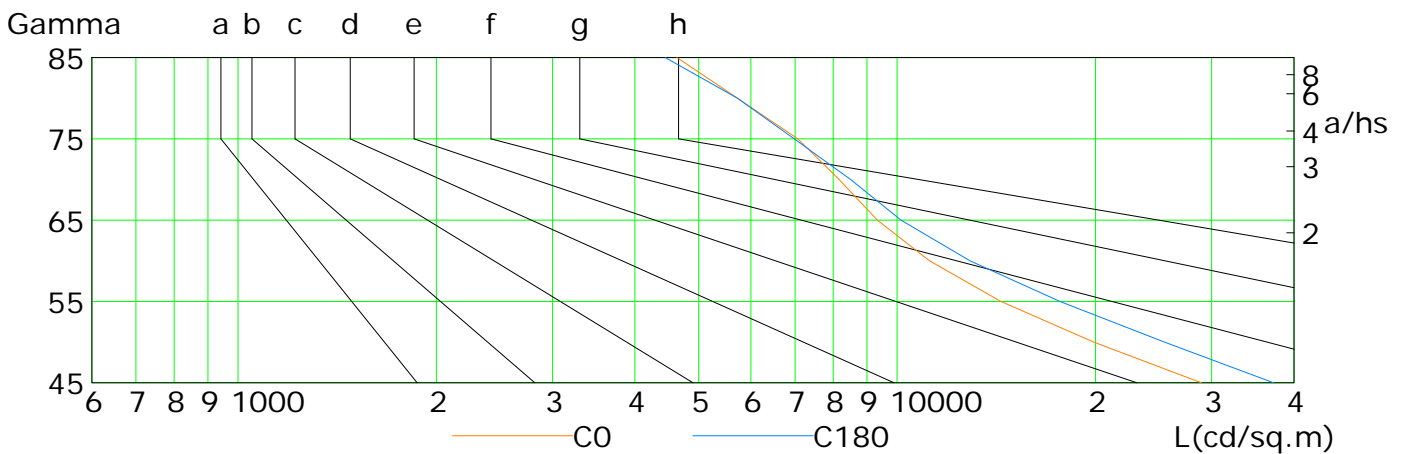
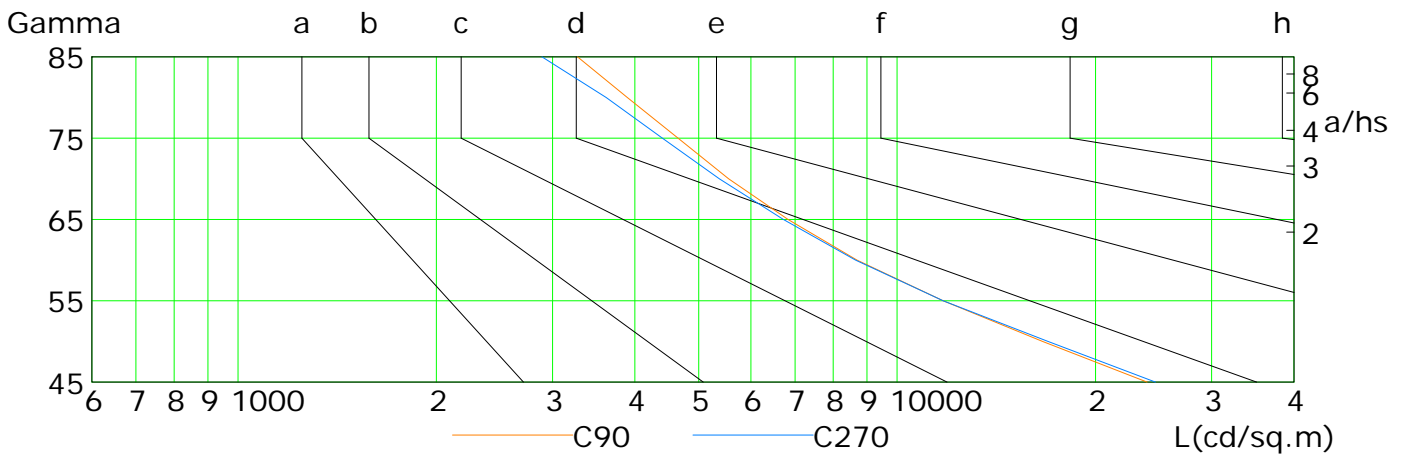
Humidity:

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	28952	19874	14370	11201	9333	8165	7070	5726	4635
C90	23946	16620	11747	8695	6833	5553	4653	3897	3274
C180	37240	25450	17660	12903	10136	8503	6983	5726	4448
C270	24650	16940	11747	8650	6722	5374	4403	3618	2892

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

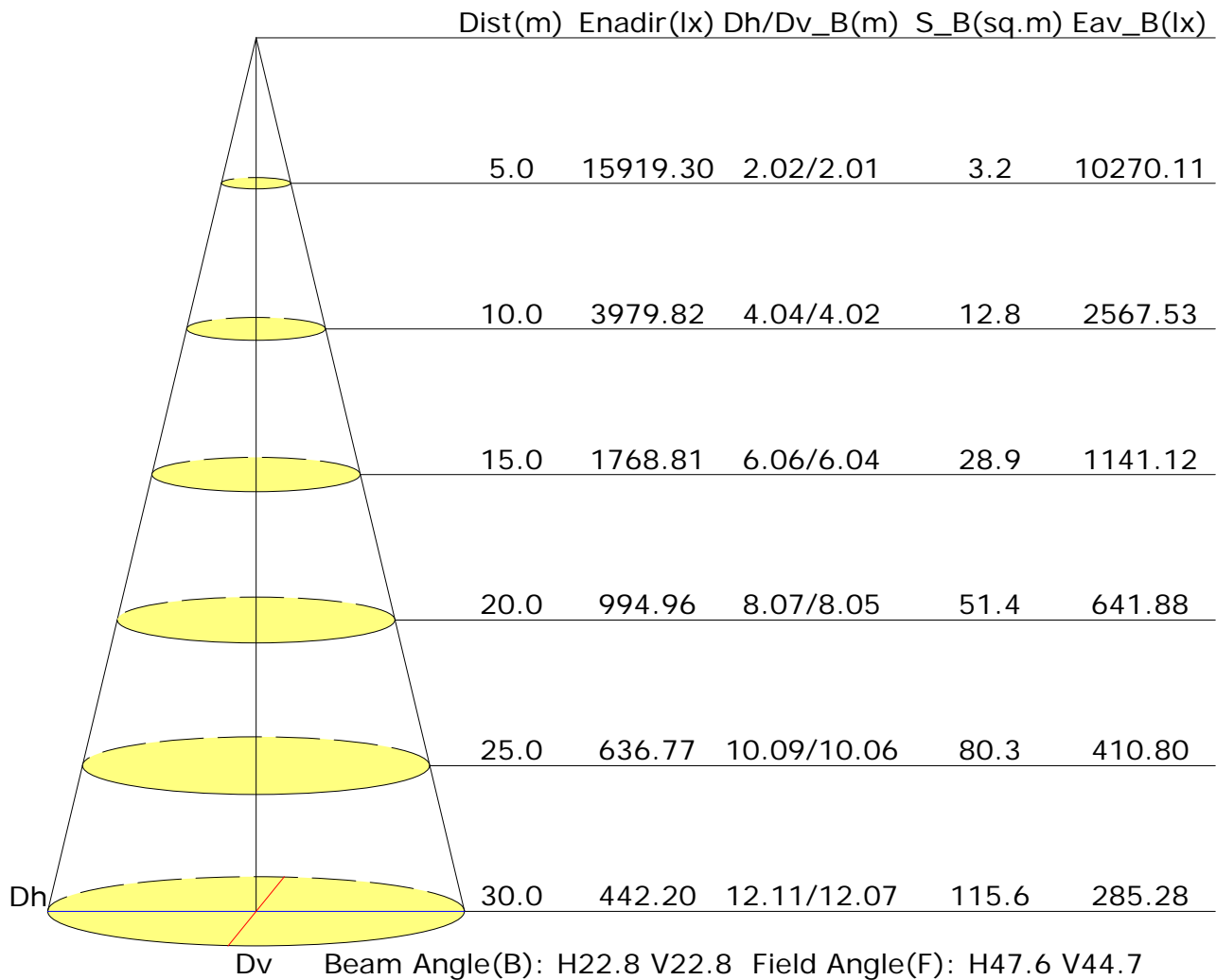
Test Device: LSG-1800B

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	18.5	19.3	18.8	19.6	19.9	18.4	19.2	18.7	19.5	19.8
3H	19.0	19.7	19.3	20.0	20.3	18.7	19.5	19.1	19.8	20.1
4H	19.2	19.9	19.6	20.2	20.6	18.9	19.6	19.2	19.9	20.2
6H	19.5	20.1	19.8	20.5	20.8	19.0	19.7	19.4	20.0	20.4
8H	19.6	20.2	20.0	20.6	20.9	19.1	19.7	19.5	20.1	20.4
12H	19.7	20.3	20.1	20.6	21.0	19.1	19.7	19.5	20.1	20.5
X=4H Y=2H	18.7	19.4	19.0	19.7	20.0	18.6	19.3	19.0	19.6	20.0
3H	19.3	19.9	19.7	20.2	20.6	19.0	19.6	19.5	20.0	20.4
4H	19.6	20.1	20.0	20.6	21.0	19.3	19.8	19.7	20.2	20.6
6H	19.9	20.4	20.4	20.9	21.3	19.5	20.0	20.0	20.4	20.9
8H	20.1	20.5	20.6	21.0	21.5	19.6	20.0	20.1	20.5	21.0
12H	20.2	20.6	20.7	21.1	21.6	19.7	20.1	20.2	20.6	21.1
X=8H Y=4H	19.7	20.1	20.1	20.6	21.0	19.3	19.8	19.8	20.2	20.7
6H	20.1	20.4	20.6	20.9	21.5	19.7	20.0	20.2	20.5	21.1
8H	20.3	20.6	20.8	21.1	21.7	19.8	20.2	20.4	20.7	21.2
12H	20.5	20.8	21.1	21.4	21.9	20.0	20.3	20.6	20.8	21.4
X=12H Y=4H	19.6	20.0	20.1	20.5	21.0	19.3	19.7	19.8	20.2	20.7
6H	20.1	20.4	20.6	20.9	21.5	19.7	20.0	20.2	20.5	21.1
8H	20.4	20.6	20.9	21.2	21.7	19.9	20.2	20.4	20.7	21.3
Variations with the observer position at spacings:										
S=1.0H	+1.0/-1.2					+1.1/-1.4				
S=1.5H	+2.2/-1.9					+2.0/-2.4				
S=2.0H	+3.6/-2.6					+3.4/-3.1				

Calculate in accordance with CIE Pub.117. The table is revised with 118829Im ( $8\log(F/F_0) = 16.6$ ).

C Plane (°):0.0-360.0: 22.5

Test Lab:

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Operator:

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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: 803W 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: 803W 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: 803W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												