

Report No.: 1

Test Time: 31.01.2020 11:00

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 DALI 36LED 800W 5000K 60gr. staraya linza

Luminous Length (mm): 455 mm

Luminous Width (mm): 345 mm

Luminous Height (mm): 695 mm

Voltage: 220.8 V

Current: 3.925 A

Power: 801.93 W

Power Factor: 0.989

## Photometric Results

CIE Class: Direct

Measurement Flux: 101615.2 lm

Downward Ratio: 98%

Total Rated Lamp Lumens: 101615.2 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): 126.76

Central Intensity: 94751.94 cd

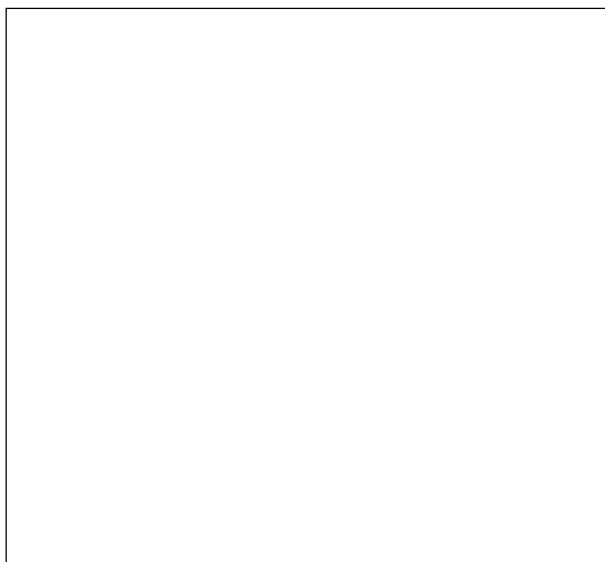
Max. Intensity: 96031.75 cd

Pos of Max. Intensity: H315 V1

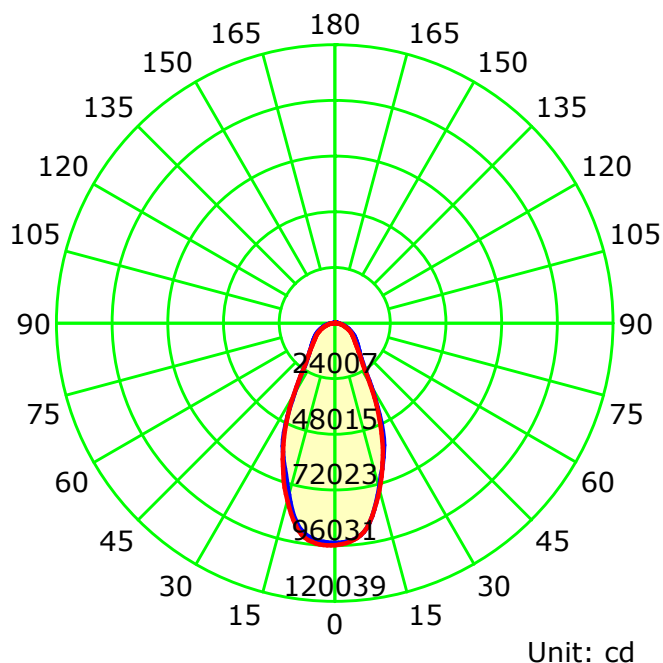
S/MH(C0/C180): 0.80

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

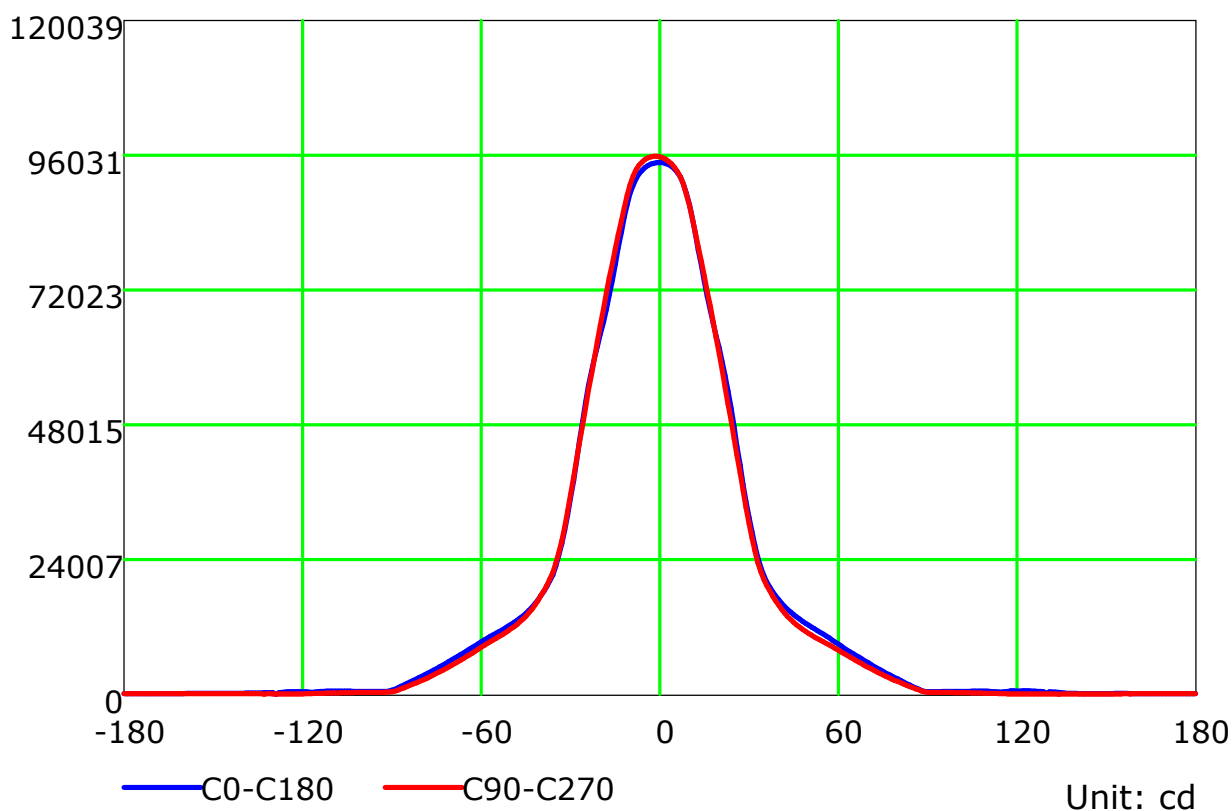
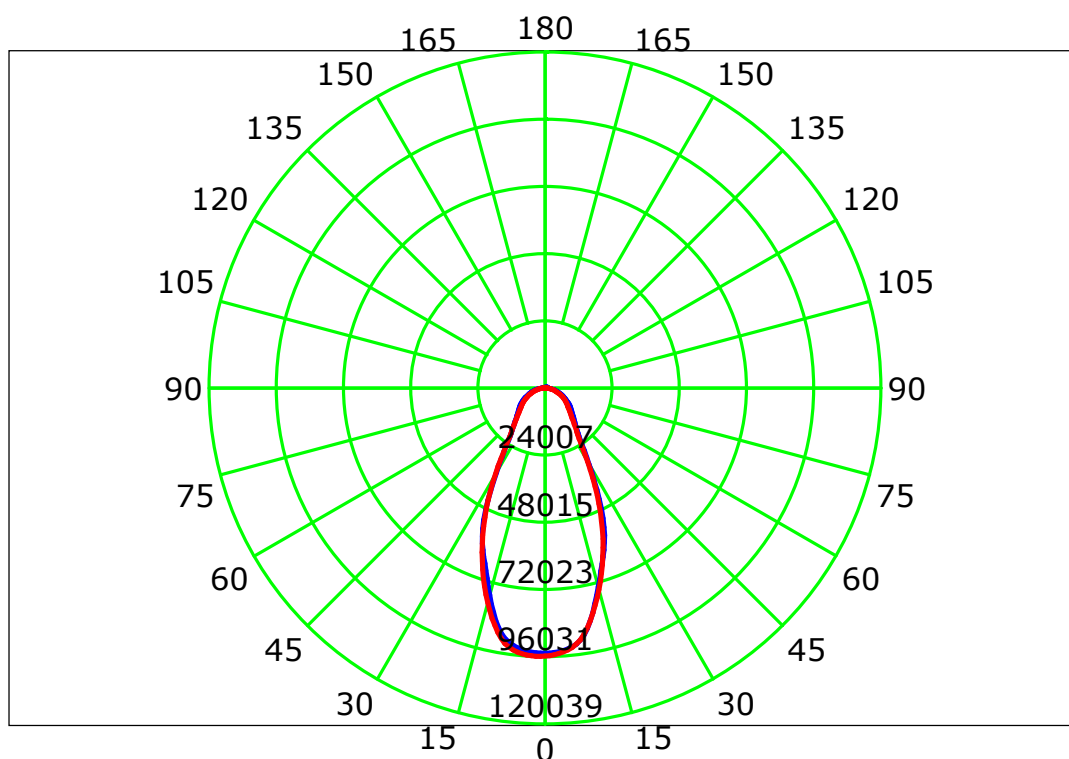
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

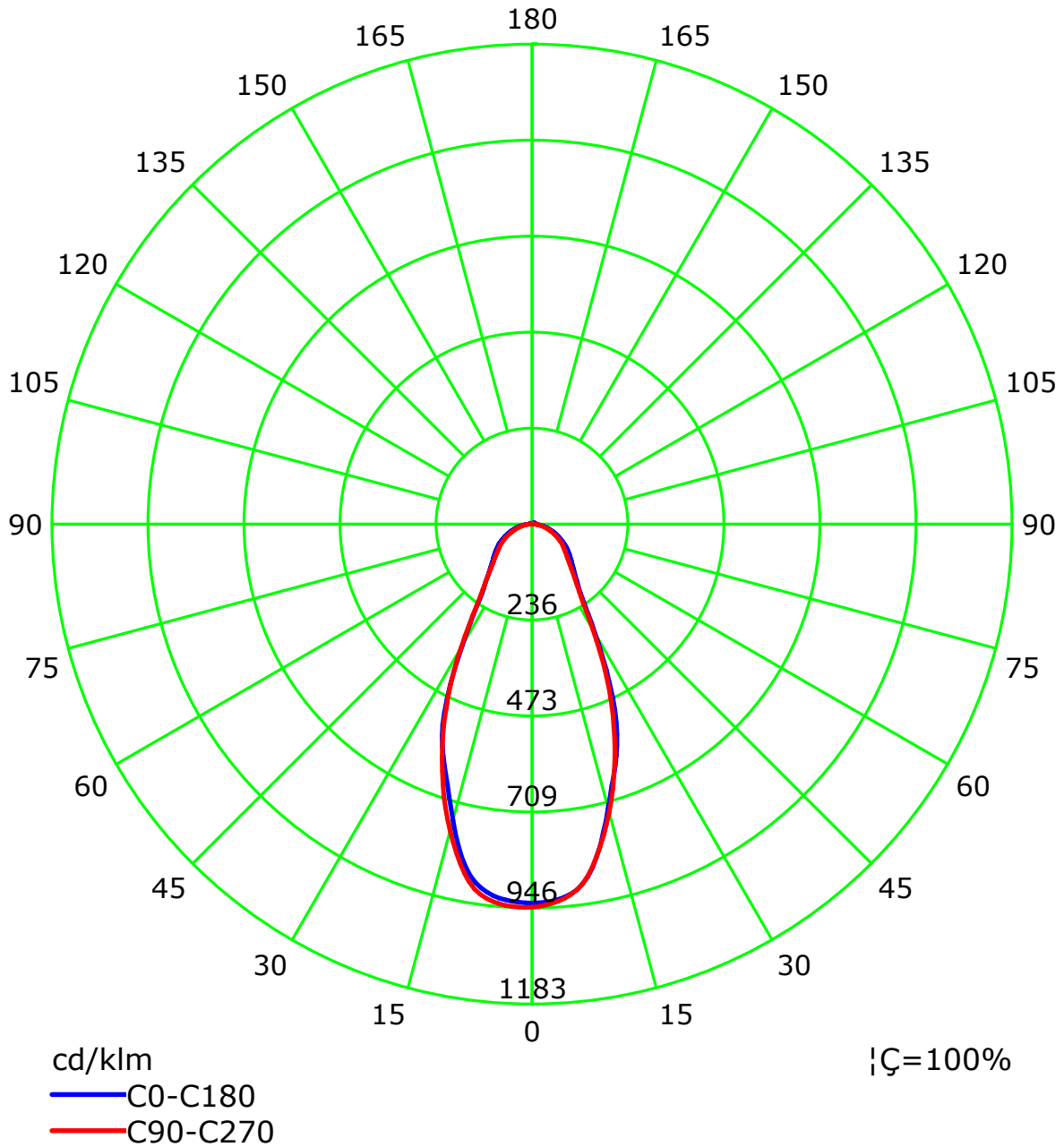
## Luminous Intensity Distribution Curve



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)



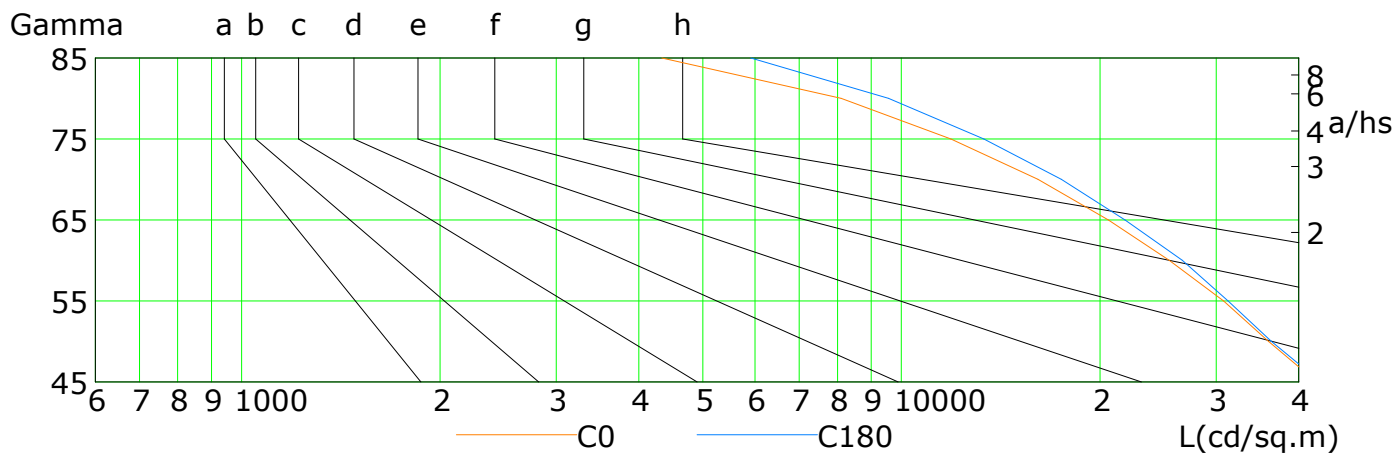
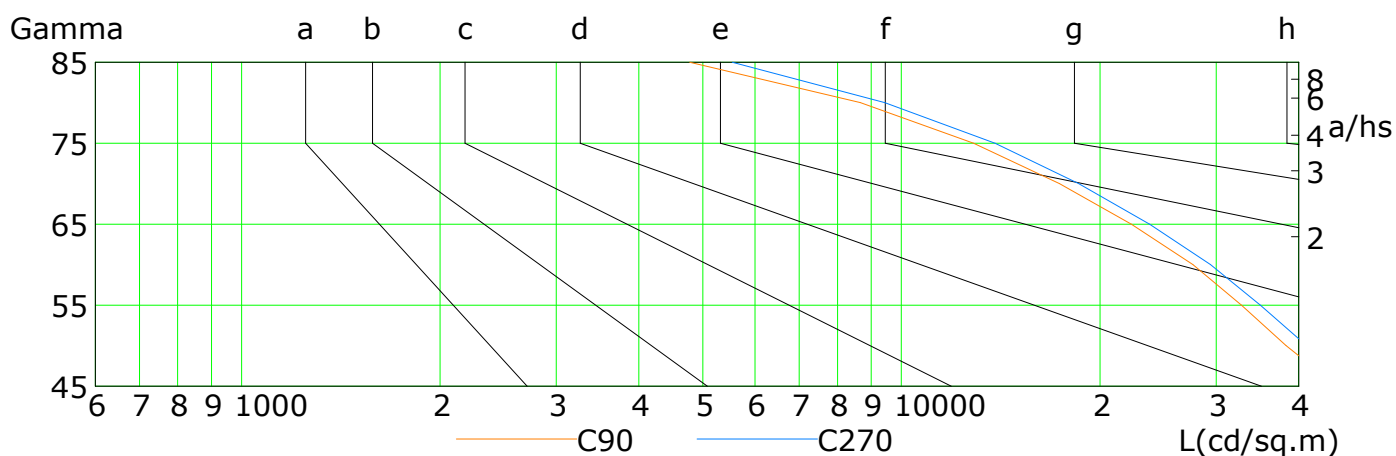
C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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

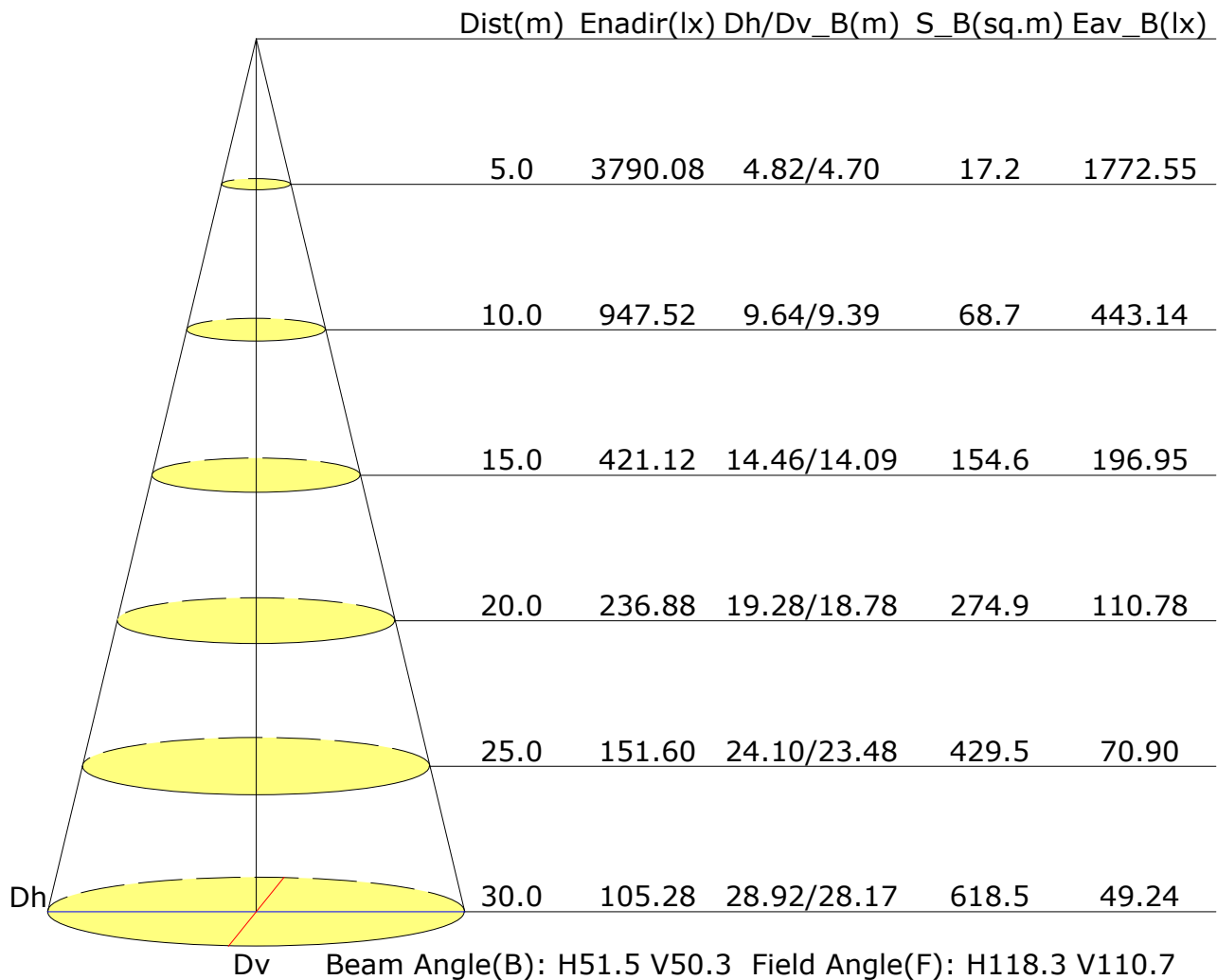


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	42583	35988	30769	25452	20593	16104	11888	8099	4336
C90	45888	38253	32764	27642	22325	17363	12861	8662	4780
C180	43178	36375	31276	26654	21819	17473	13340	9564	5912
C270	49752	41107	35003	29398	23774	18563	13871	9430	5543

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	22.5	23.6	22.8	23.9	24.1	22.6	23.7	22.9	23.9	24.2
3H	23.5	24.5	23.8	24.8	25.1	23.5	24.5	23.8	24.8	25.1
4H	23.8	24.8	24.2	25.1	25.4	23.8	24.7	24.2	25.1	25.4
6H	24.0	24.9	24.4	25.3	25.6	24.0	24.9	24.4	25.2	25.6
8H	24.1	24.9	24.5	25.3	25.6	24.1	24.9	24.5	25.3	25.6
12H	24.1	24.9	24.5	25.3	25.7	24.1	24.9	24.5	25.3	25.6
X=4H Y=2H	22.9	23.8	23.2	24.1	24.5	22.9	23.9	23.3	24.2	24.5
3H	24.0	24.8	24.4	25.1	25.5	24.0	24.8	24.4	25.1	25.5
4H	24.4	25.1	24.8	25.5	25.9	24.4	25.1	24.8	25.5	25.9
6H	24.7	25.4	25.2	25.8	26.2	24.7	25.3	25.1	25.7	26.2
8H	24.8	25.4	25.3	25.8	26.3	24.8	25.4	25.2	25.8	26.2
12H	24.9	25.4	25.3	25.8	26.3	24.8	25.4	25.3	25.8	26.3
X=8H Y=4H	24.5	25.1	25.0	25.5	26.0	24.5	25.1	24.9	25.5	26.0
6H	24.9	25.4	25.4	25.9	26.4	24.9	25.4	25.4	25.8	26.3
8H	25.1	25.5	25.6	26.0	26.5	25.0	25.4	25.5	25.9	26.4
12H	25.1	25.5	25.7	26.0	26.6	25.1	25.5	25.6	26.0	26.5
X=12H Y=4H	24.5	25.0	25.0	25.5	26.0	24.5	25.0	24.9	25.5	25.9
6H	24.9	25.4	25.4	25.8	26.4	24.9	25.3	25.4	25.8	26.3
8H	25.1	25.5	25.6	26.0	26.5	25.0	25.4	25.6	25.9	26.5
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.6/-0.4				
S=1.5H	+0.8/-0.8					+1.3/-1.0				
S=2.0H	+1.5/-1.5					+2.2/-1.8				

Calculate in accordance with CIE Pub.117. The table is revised with  $101615\text{lm}$  ( $8\log(F/F_0) = 16.1$ ).

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:802W 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:802W 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:802W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												