

Report No.: 1

Test Time: 31.01.2020 11:00

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 DALI 36LED 400W 5000K 60gr. staraya linza

Luminous Length (mm): 440 mm

Luminous Width (mm): 205 mm

Luminous Height (mm): 338 mm

Voltage: 221.3 V

Current: 1.741 A

Power: 398.75 W

Power Factor: 0.982

## Photometric Results

CIE Class: Direct

Measurement Flux: 51186.8 lm

Downward Ratio: 98%

Total Rated Lamp Lumens: 51186.8 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): 128.42

Central Intensity: 47729.52 cd

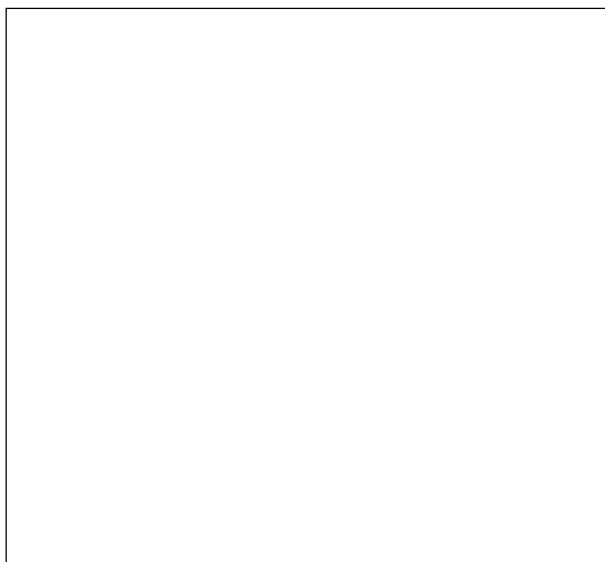
Max. Intensity: 48374.2 cd

Pos of Max. Intensity: H315 V1

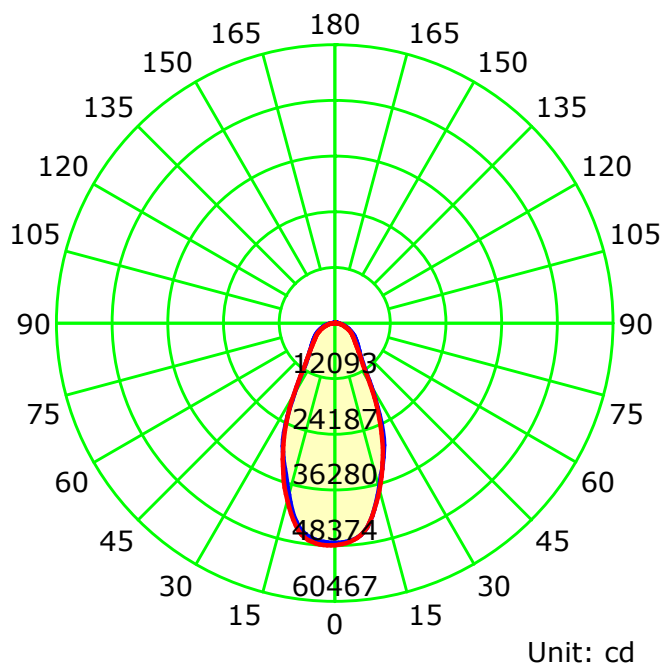
S/MH(C0/C180): 0.80

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

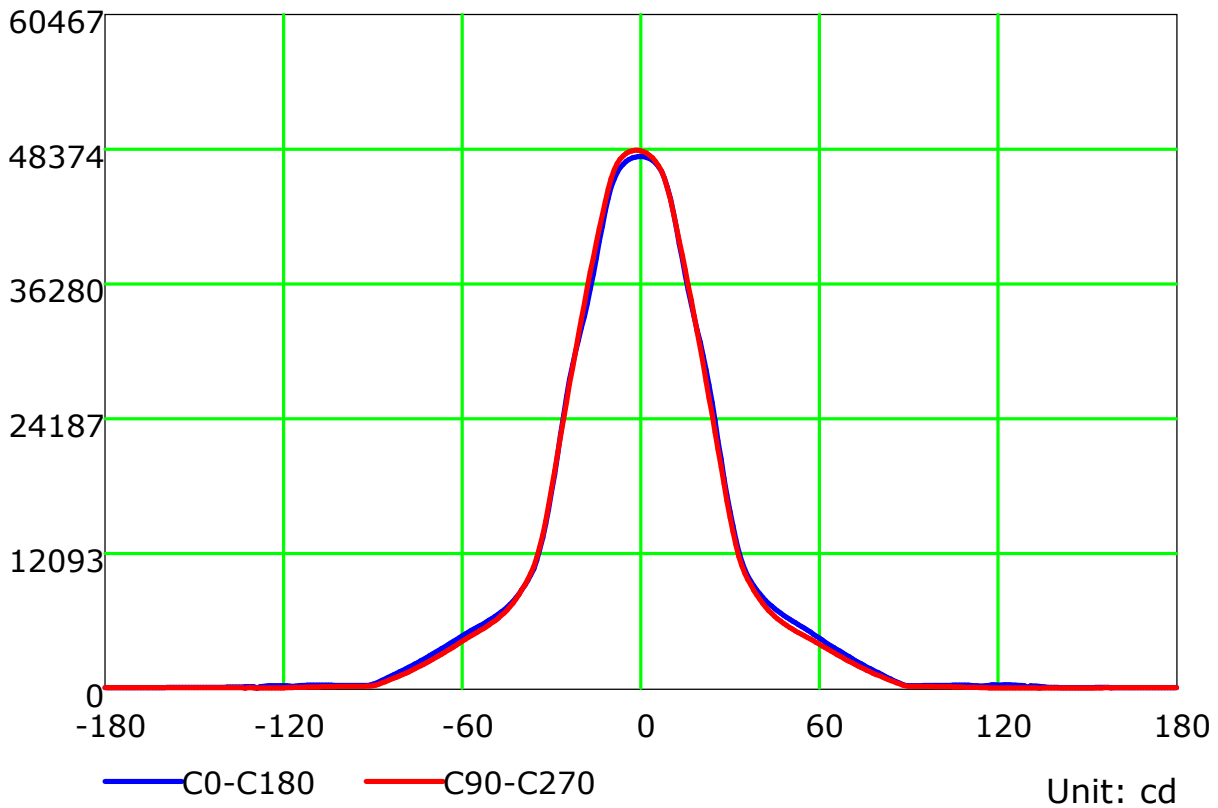
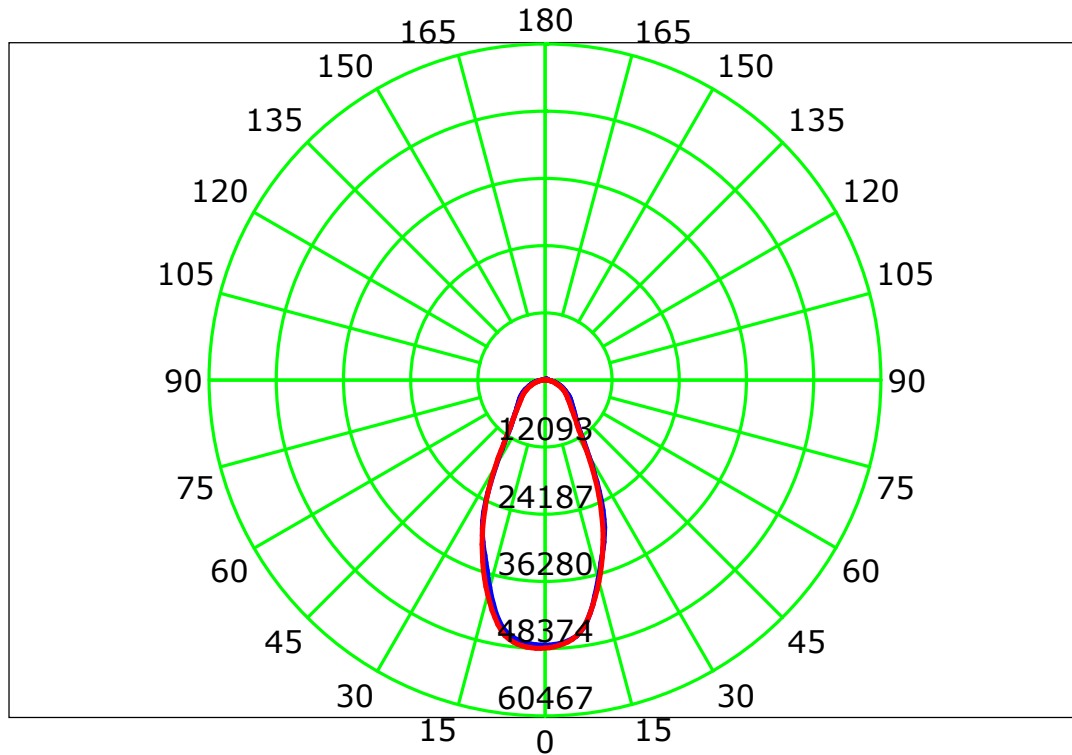
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

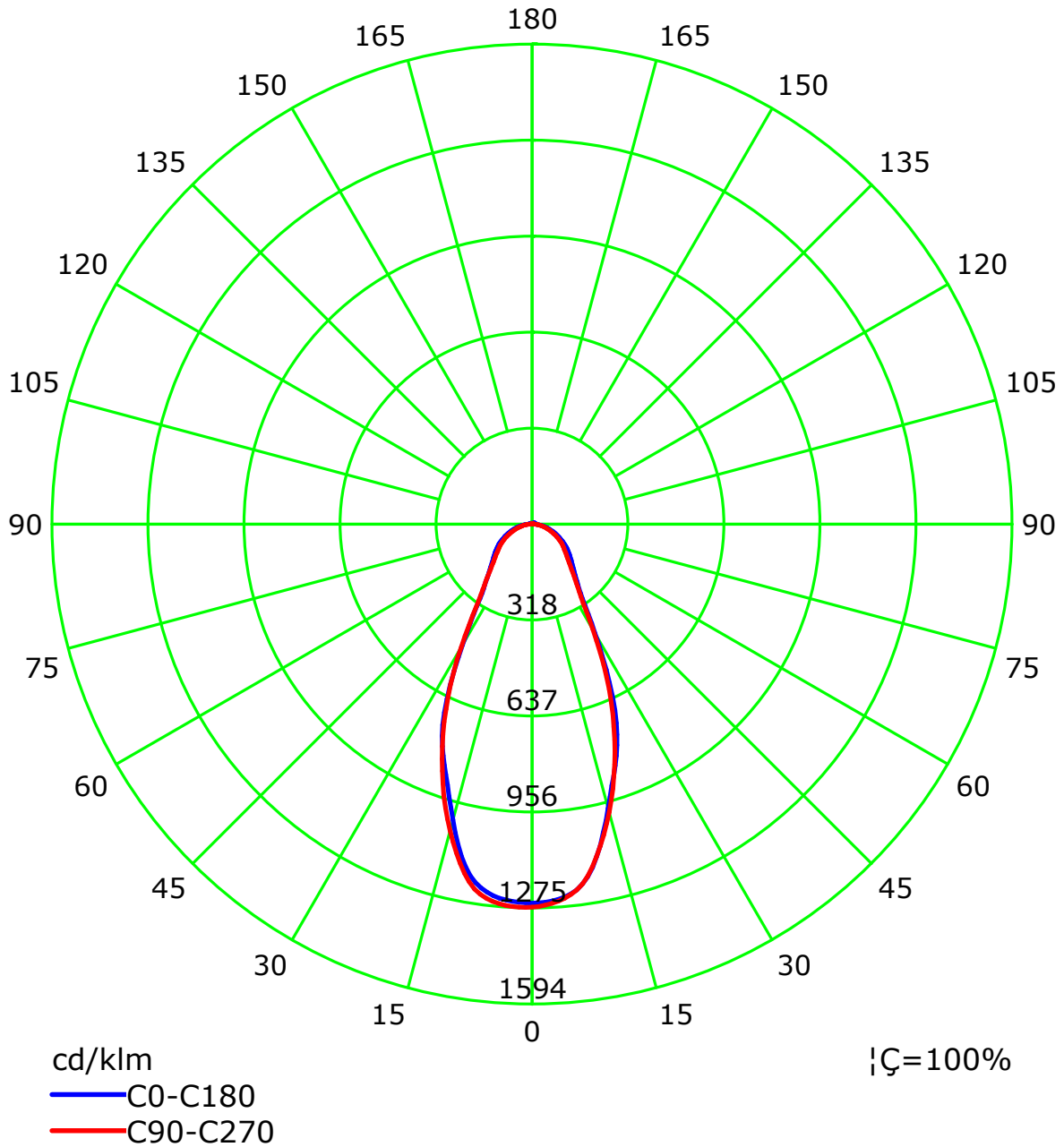
## Luminous Intensity Distribution Curve



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:

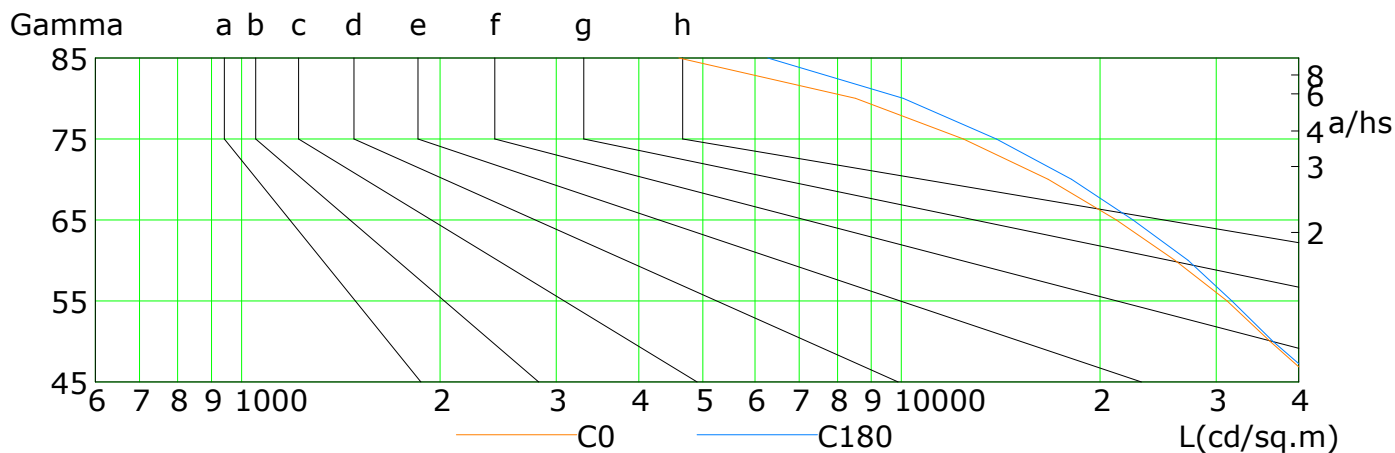
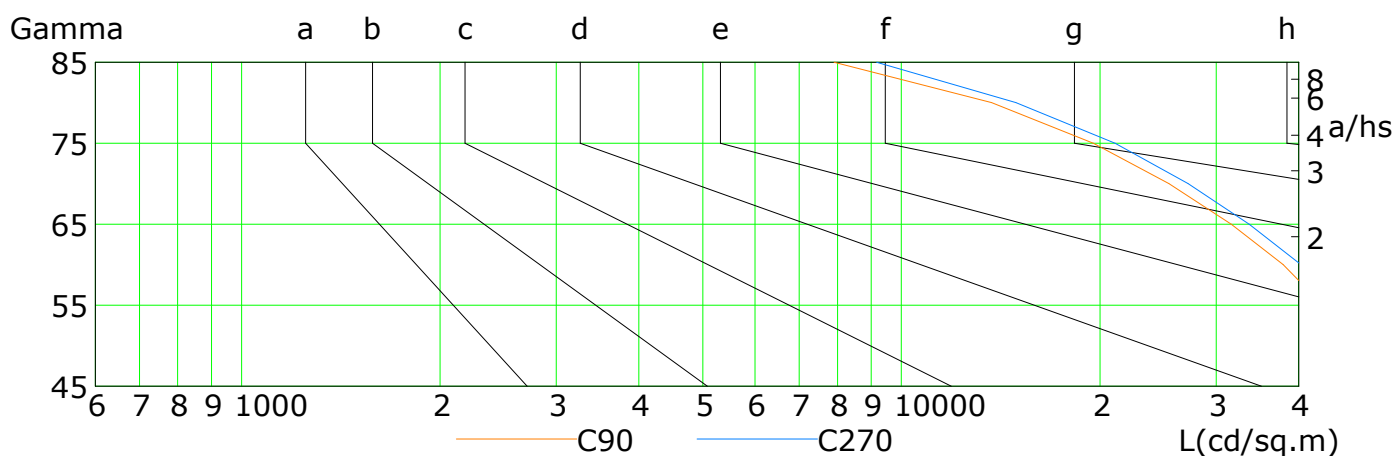
## Luminous Intensity Distribution Curve(cd/klm)



## 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

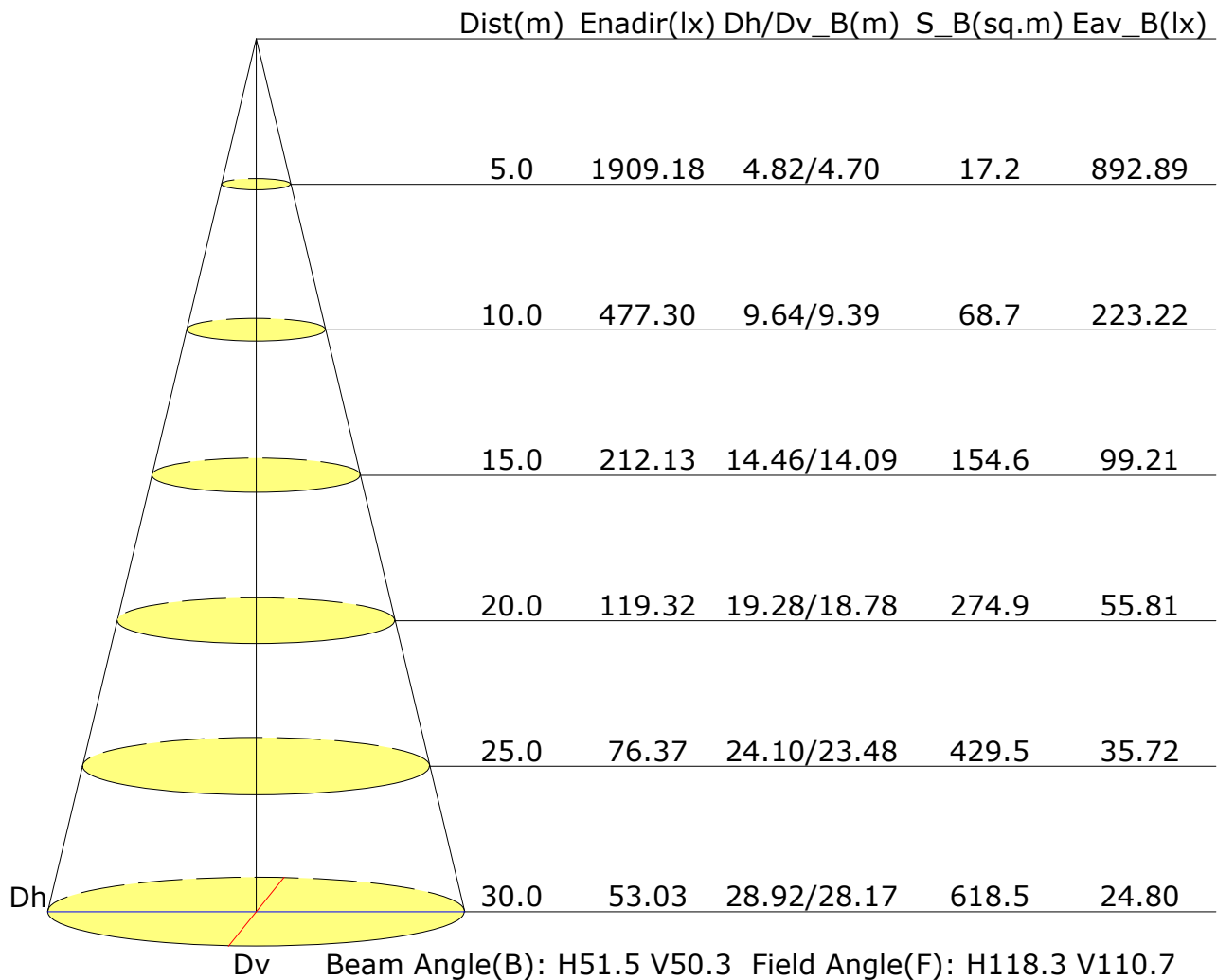


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	42484	36187	31173	25978	21174	16683	12410	8522	4601
C90	57502	49377	43574	37906	31609	25429	19537	13698	7908
C180	43078	36575	31687	27205	22435	18101	13926	10064	6275
C270	62344	53060	46552	40314	33660	27187	21071	14912	9171

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	22.8	23.9	23.1	24.1	24.4	23.3	24.4	23.6	24.7	24.9
3H	23.7	24.7	24.1	25.0	25.3	24.3	25.3	24.6	25.6	25.9
4H	24.1	25.0	24.4	25.3	25.6	24.7	25.6	25.0	25.9	26.3
6H	24.3	25.2	24.7	25.5	25.8	24.9	25.8	25.3	26.1	26.5
8H	24.3	25.2	24.7	25.5	25.9	25.0	25.9	25.4	26.2	26.6
12H	24.4	25.2	24.8	25.5	25.9	25.1	25.9	25.5	26.2	26.6
X=4H Y=2H	23.2	24.1	23.5	24.4	24.8	23.6	24.6	24.0	24.9	25.2
3H	24.3	25.1	24.7	25.5	25.8	24.8	25.6	25.2	25.9	26.3
4H	24.7	25.5	25.1	25.8	26.2	25.2	26.0	25.7	26.3	26.8
6H	25.0	25.7	25.5	26.1	26.5	25.6	26.2	26.0	26.6	27.1
8H	25.1	25.7	25.6	26.2	26.6	25.7	26.3	26.2	26.7	27.2
12H	25.2	25.7	25.7	26.2	26.6	25.8	26.3	26.2	26.8	27.2
X=8H Y=4H	24.9	25.5	25.3	25.9	26.3	25.3	25.9	25.8	26.4	26.8
6H	25.3	25.7	25.8	26.2	26.7	25.8	26.2	26.3	26.7	27.2
8H	25.4	25.8	25.9	26.3	26.8	25.9	26.4	26.4	26.8	27.4
12H	25.5	25.9	26.0	26.4	26.9	26.1	26.4	26.6	26.9	27.5
X=12H Y=4H	24.8	25.4	25.3	25.8	26.3	25.3	25.9	25.8	26.3	26.8
6H	25.3	25.7	25.8	26.2	26.7	25.8	26.2	26.3	26.7	27.2
8H	25.4	25.8	26.0	26.3	26.9	26.0	26.3	26.5	26.8	27.4
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.5/-0.4				
S=1.5H	+0.7/-0.8					+1.2/-0.9				
S=2.0H	+1.3/-1.4					+2.0/-1.7				

Calculate in accordance with CIE Pub.117. The table is revised with  $51187\text{lm}$  ( $8\log(F/F_0) = 13.7$ ).

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:399W 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:399W 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:399W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												