

Report No.: 1

Test Time: 31.01.2020 11:00

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 DALI 36LED 300W 5000K 60gr. staraya linza

Luminous Length (mm): 355 mm

Luminous Width (mm): 210 mm

Luminous Height (mm): 338 mm

Voltage: 221.2 V

Current: 1.353 A

Power: 295.61 W

Power Factor: 0.986

Photometric Results

CIE Class: Direct

Measurement Flux: 37919.2 lm

Downward Ratio: 98%

Total Rated Lamp Lumens: 37919.2 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): 128.32

Central Intensity: 35355.2 cd

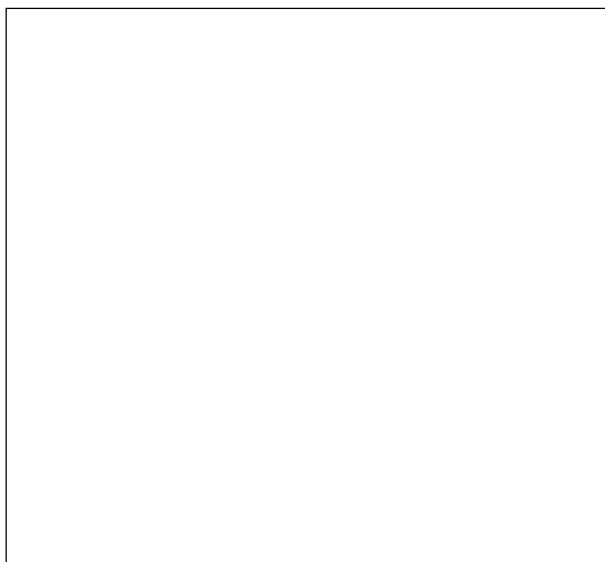
Max. Intensity: 35832.74 cd

Pos of Max. Intensity: H315 V1

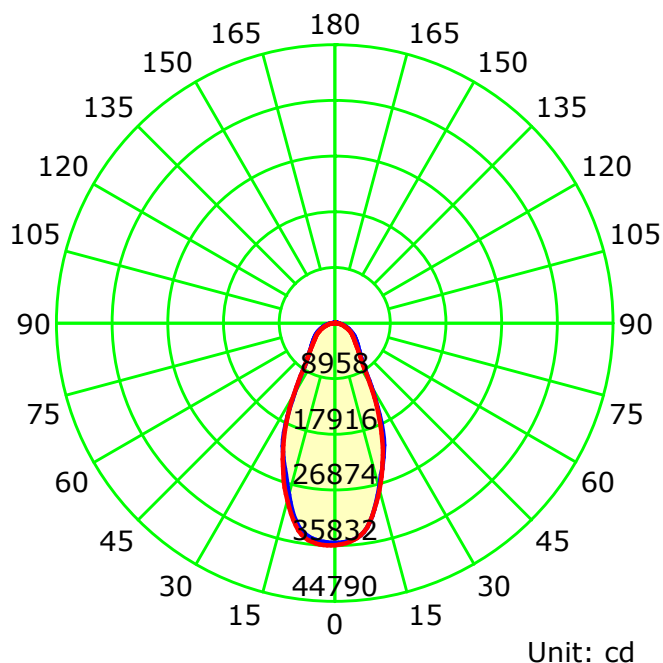
S/MH(C0/C180): 0.80

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

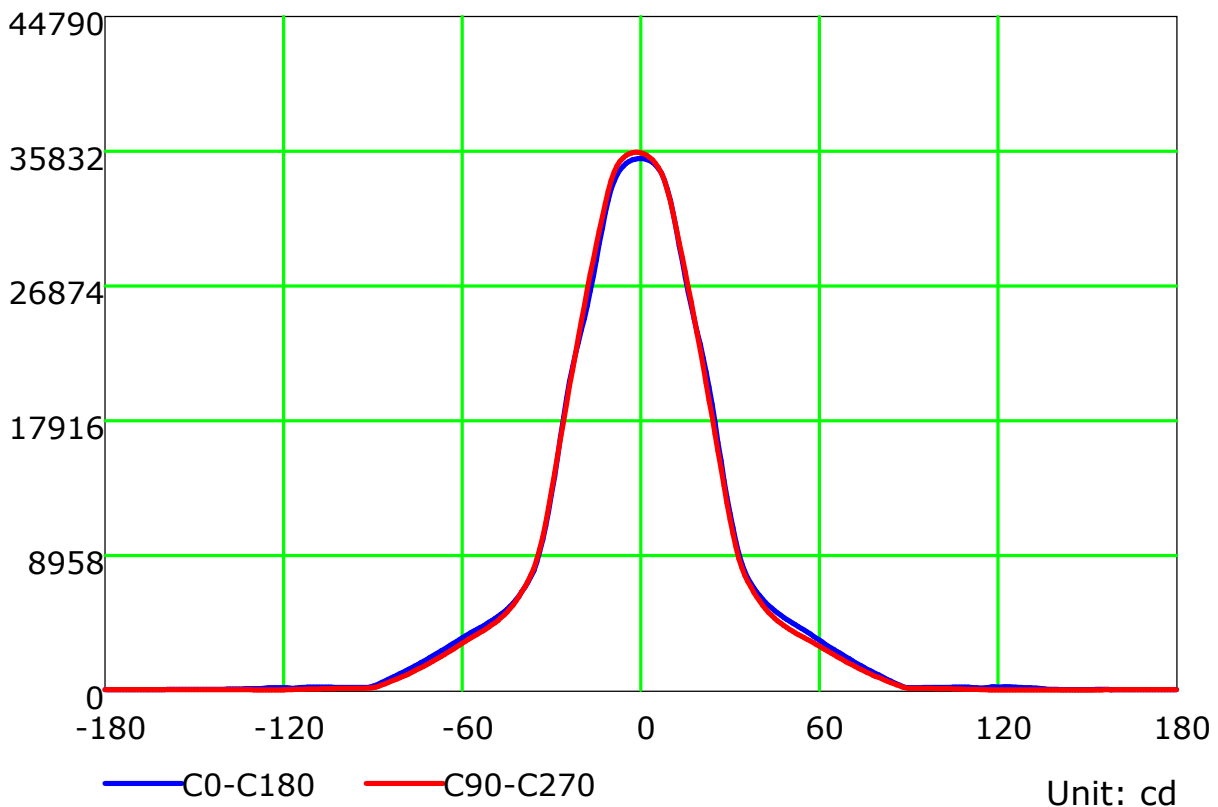
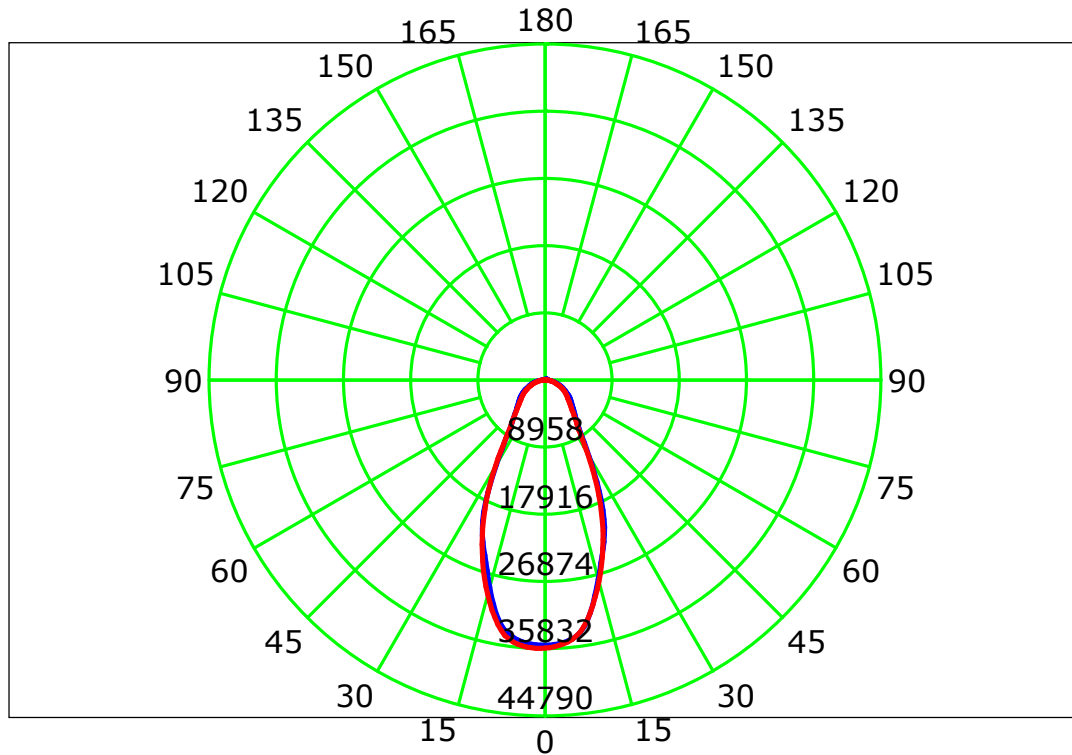
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

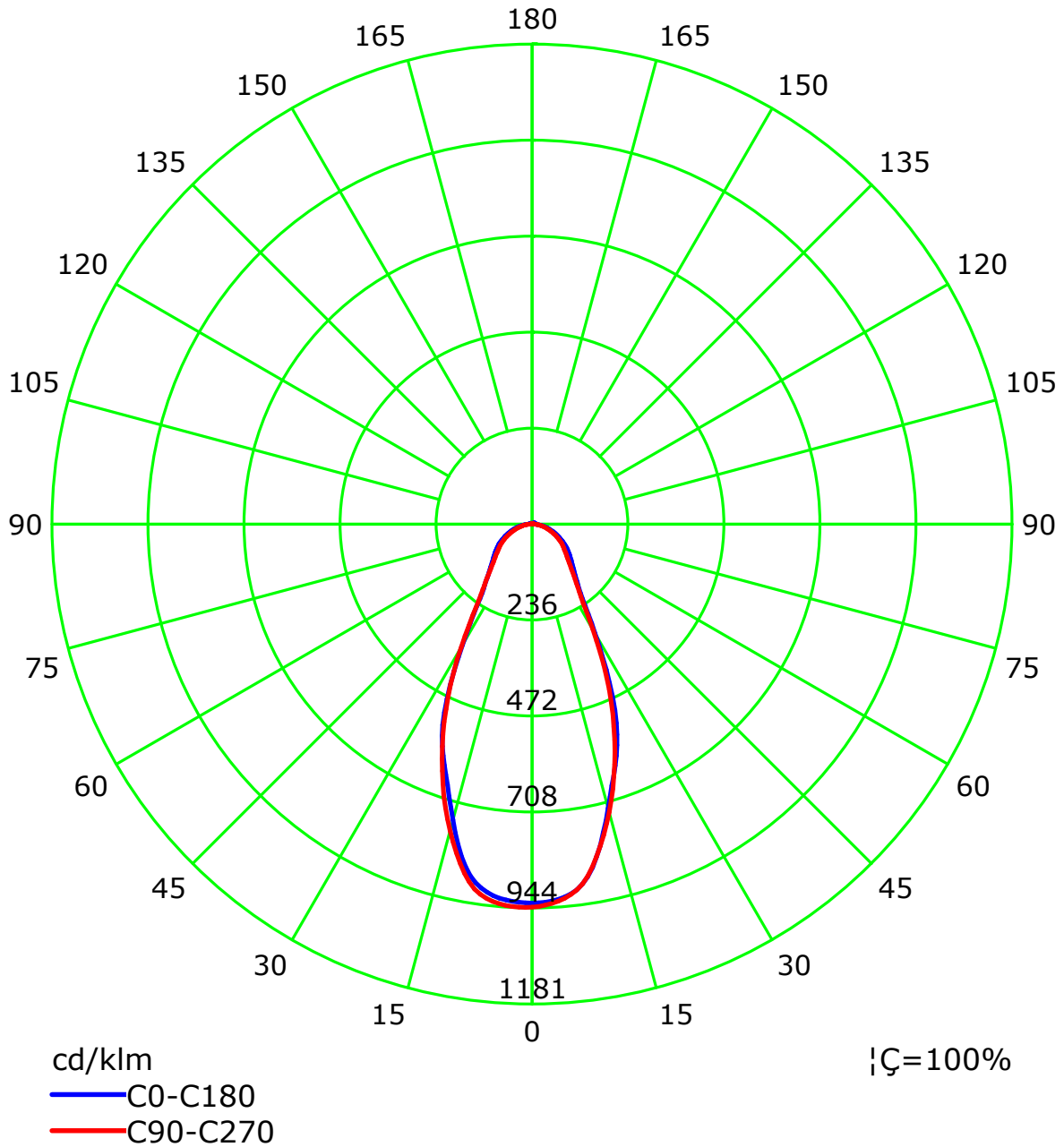
Luminous Intensity Distribution Curve



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)



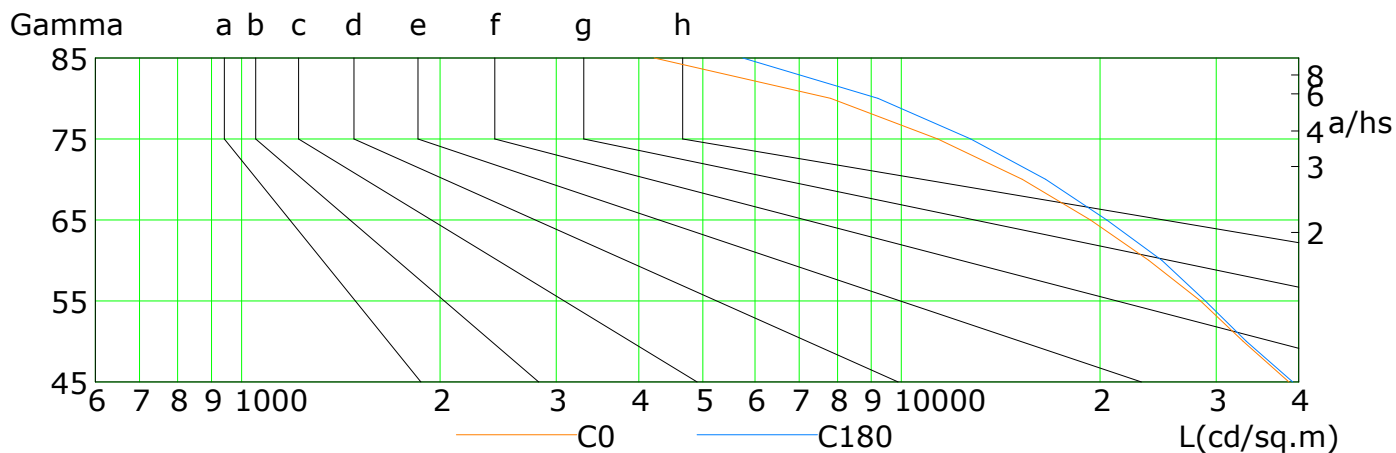
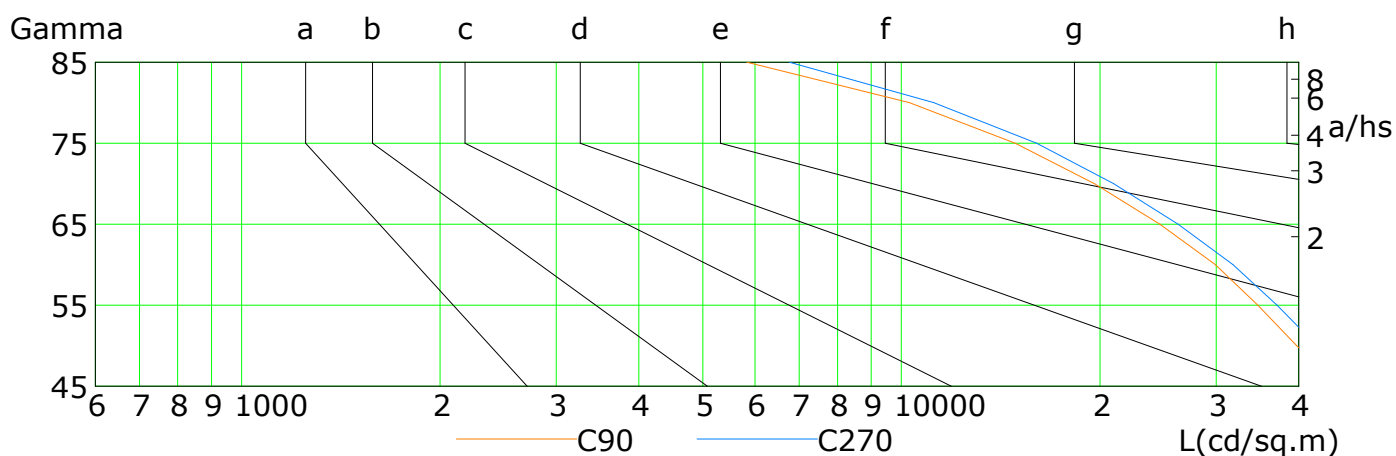
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

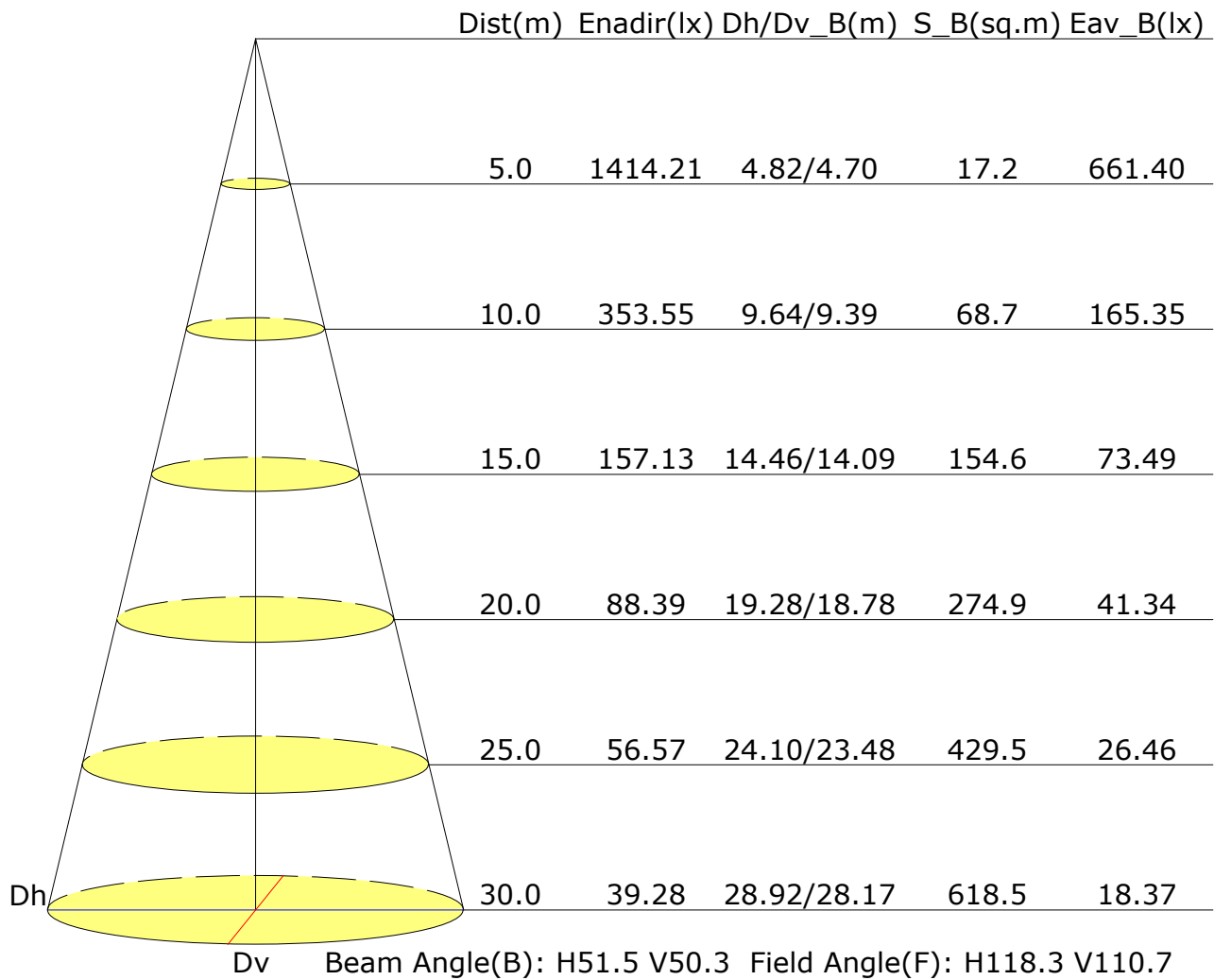


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	38649	32952	28414	23701	19336	15249	11355	7806	4219
C90	46680	39709	34706	29888	24656	19605	14870	10276	5834
C180	39189	33306	28882	24820	20488	16546	12742	9218	5754
C270	50610	42671	37078	31786	26255	20961	16038	11187	6765

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	22.4	23.5	22.7	23.7	24.0	22.6	23.8	23.0	24.0	24.3
3H	23.3	24.3	23.7	24.6	24.9	23.6	24.6	24.0	24.9	25.2
4H	23.7	24.6	24.0	24.9	25.2	24.0	24.9	24.3	25.2	25.5
6H	23.9	24.8	24.3	25.1	25.5	24.2	25.1	24.6	25.4	25.8
8H	24.0	24.8	24.3	25.2	25.5	24.3	25.1	24.7	25.5	25.8
12H	24.0	24.8	24.4	25.2	25.5	24.3	25.1	24.7	25.5	25.9
X=4H Y=2H	22.8	23.7	23.1	24.0	24.3	23.0	23.9	23.3	24.2	24.6
3H	23.9	24.7	24.3	25.0	25.4	24.1	24.9	24.5	25.3	25.6
4H	24.3	25.0	24.7	25.4	25.8	24.5	25.3	25.0	25.7	26.1
6H	24.6	25.3	25.1	25.7	26.1	24.9	25.5	25.3	25.9	26.4
8H	24.7	25.3	25.2	25.7	26.2	25.0	25.6	25.4	26.0	26.5
12H	24.8	25.3	25.2	25.8	26.2	25.1	25.6	25.5	26.0	26.5
X=8H Y=4H	24.4	25.0	24.9	25.5	25.9	24.7	25.3	25.1	25.7	26.1
6H	24.8	25.3	25.3	25.8	26.3	25.1	25.6	25.6	26.0	26.5
8H	25.0	25.4	25.5	25.9	26.4	25.2	25.7	25.7	26.1	26.7
12H	25.1	25.4	25.6	26.0	26.5	25.4	25.7	25.9	26.2	26.8
X=12H Y=4H	24.4	25.0	24.9	25.4	25.9	24.6	25.2	25.1	25.6	26.1
6H	24.9	25.3	25.4	25.8	26.3	25.1	25.5	25.6	26.0	26.5
8H	25.0	25.4	25.5	25.9	26.4	25.3	25.6	25.8	26.1	26.7
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 37919Im ($8\log(F/F_0) = 12.6$).

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
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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	0.66	0.74	0.80	0.84	0.89	0.93	0.95	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:296W 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:296W 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:296W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												