

Report No.: 1

Test Time: 30.01.2020 14:48

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 DALI 36LED 600W 5000K 30gr.

Luminous Length (mm): 345 mm

Luminous Width (mm): 345 mm

Luminous Height (mm): 695 mm

Voltage: 220.5 V

Current: 2.758 A

Power: 598.73 W

Power Factor: 0.987

Photometric Results

CIE Class: Direct

Measurement Flux: 87272.9 lm

Downward Ratio: 95%

Total Rated Lamp Lumens: 87272.9 lm

Efficiency: 100%

Upward Ratio: 5%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 58.9, 58.3, 61.7, 62.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 30.4, 28.7, 30.7, 30.8

Luminaire Efficacy Rating (LER): 145.81

Central Intensity: 189805.48 cd

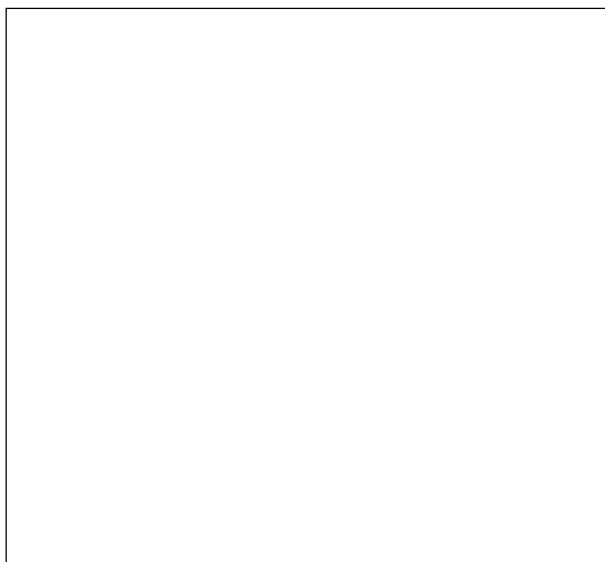
Max. Intensity: 195270.72 cd

Pos of Max. Intensity: H315 V1

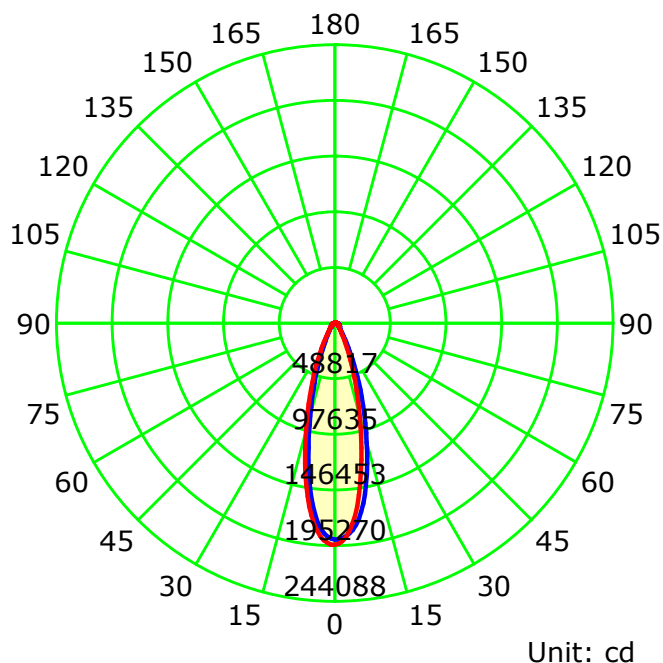
S/MH(C0/C180): 0.50

S/MH(C90/C270): 0.48

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

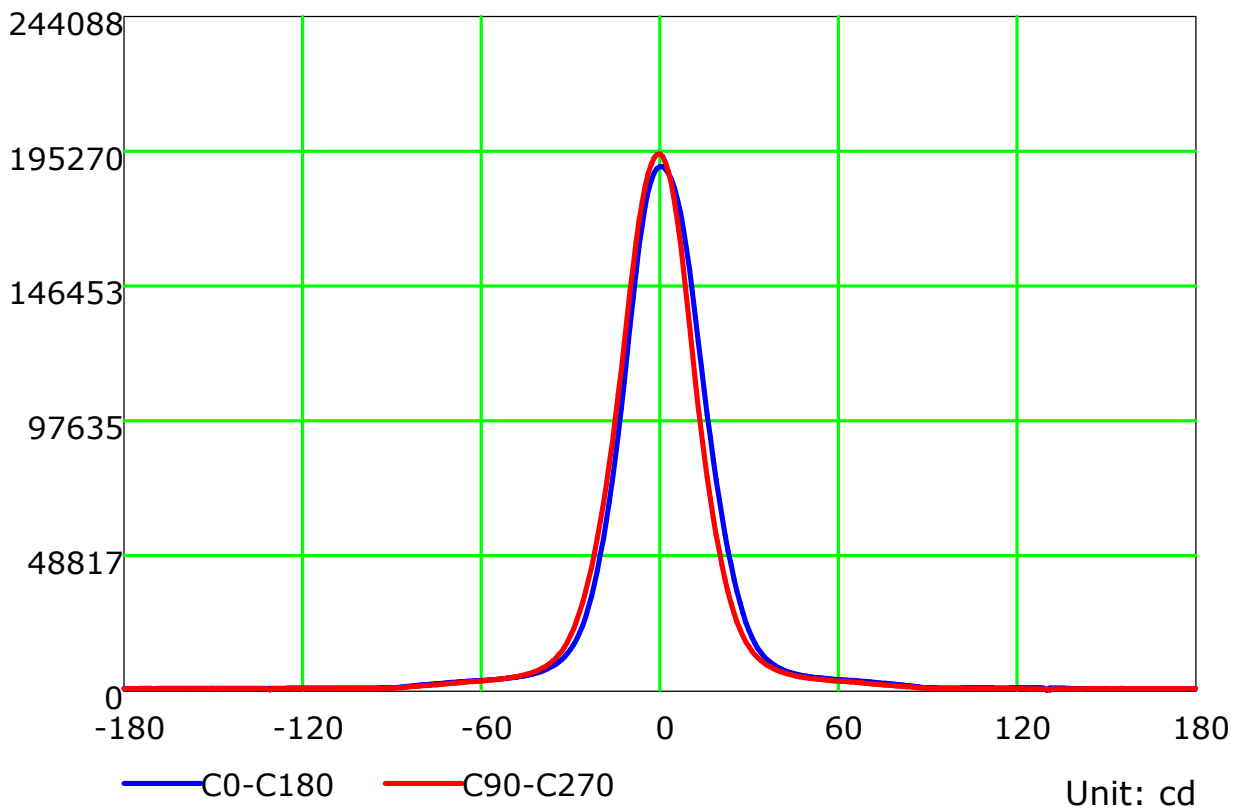
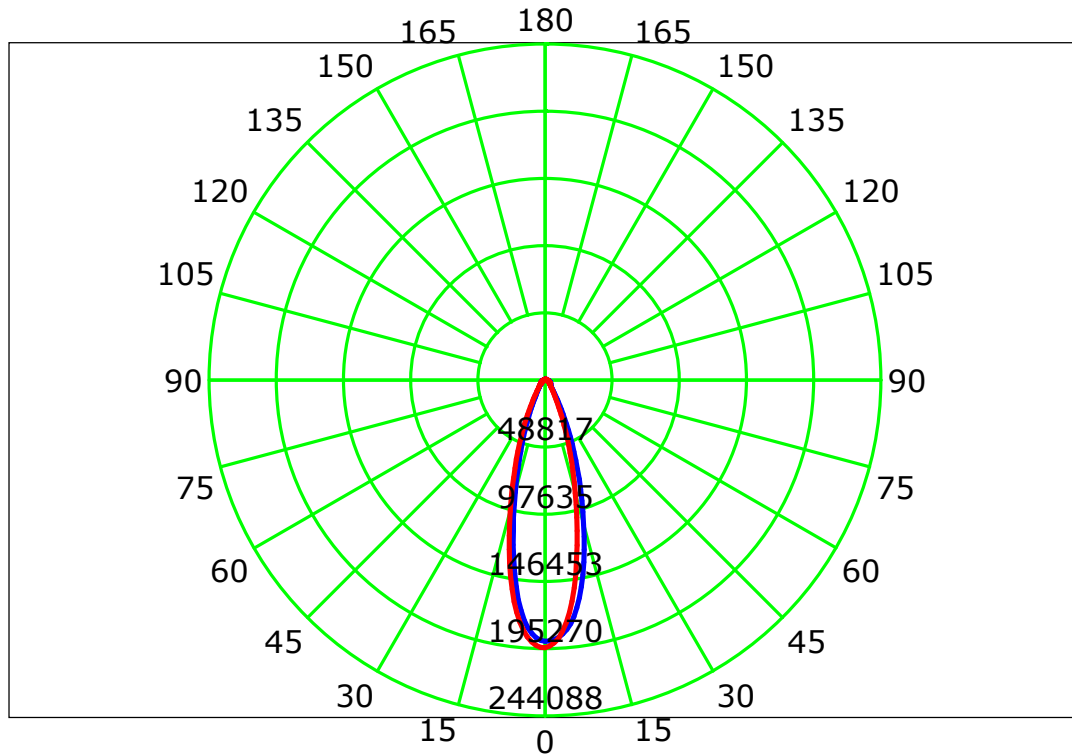
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

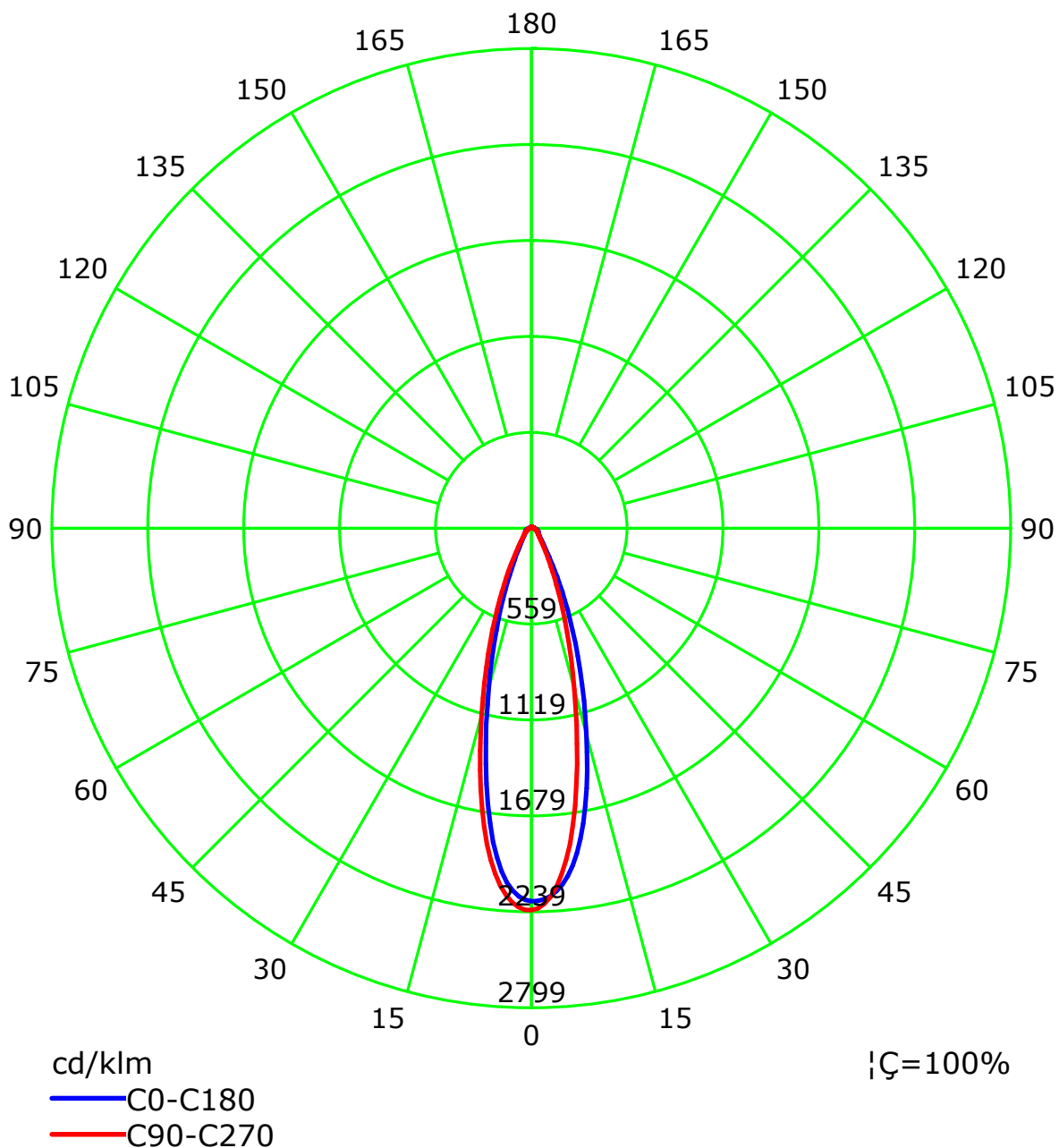
Luminous Intensity Distribution Curve



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)



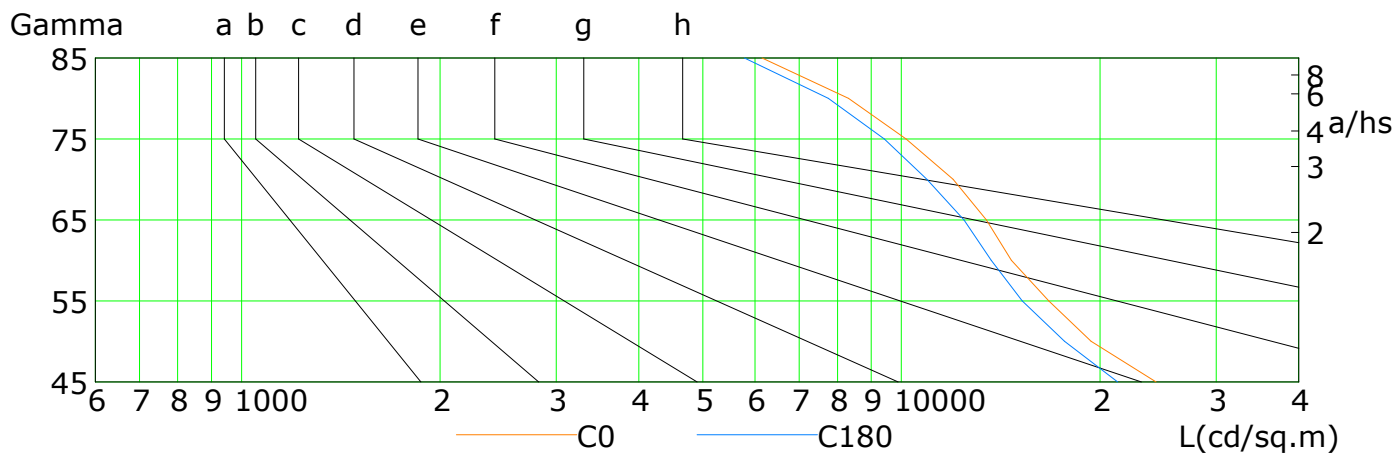
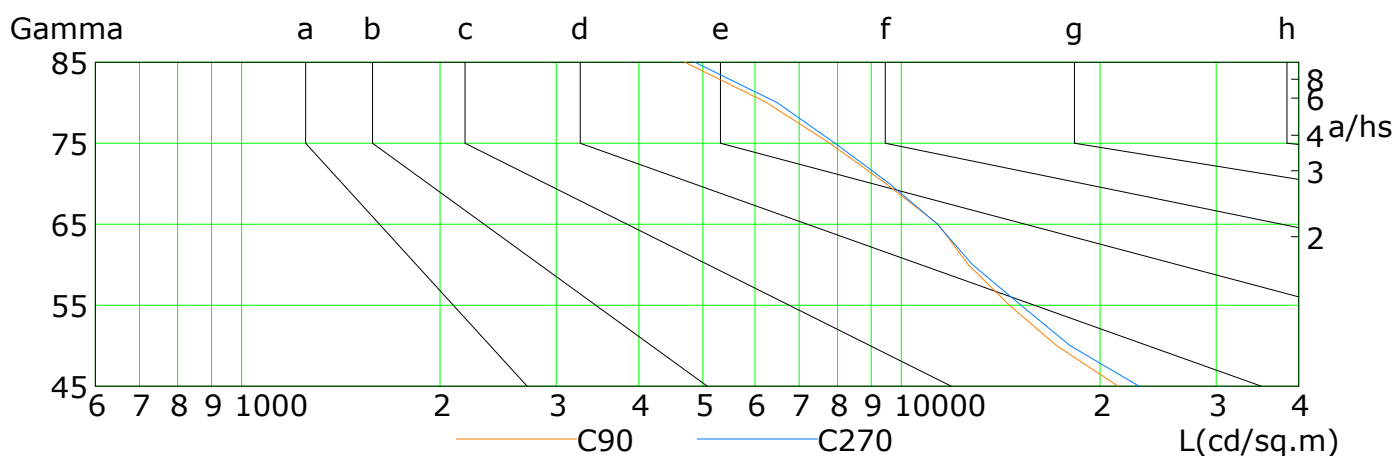
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

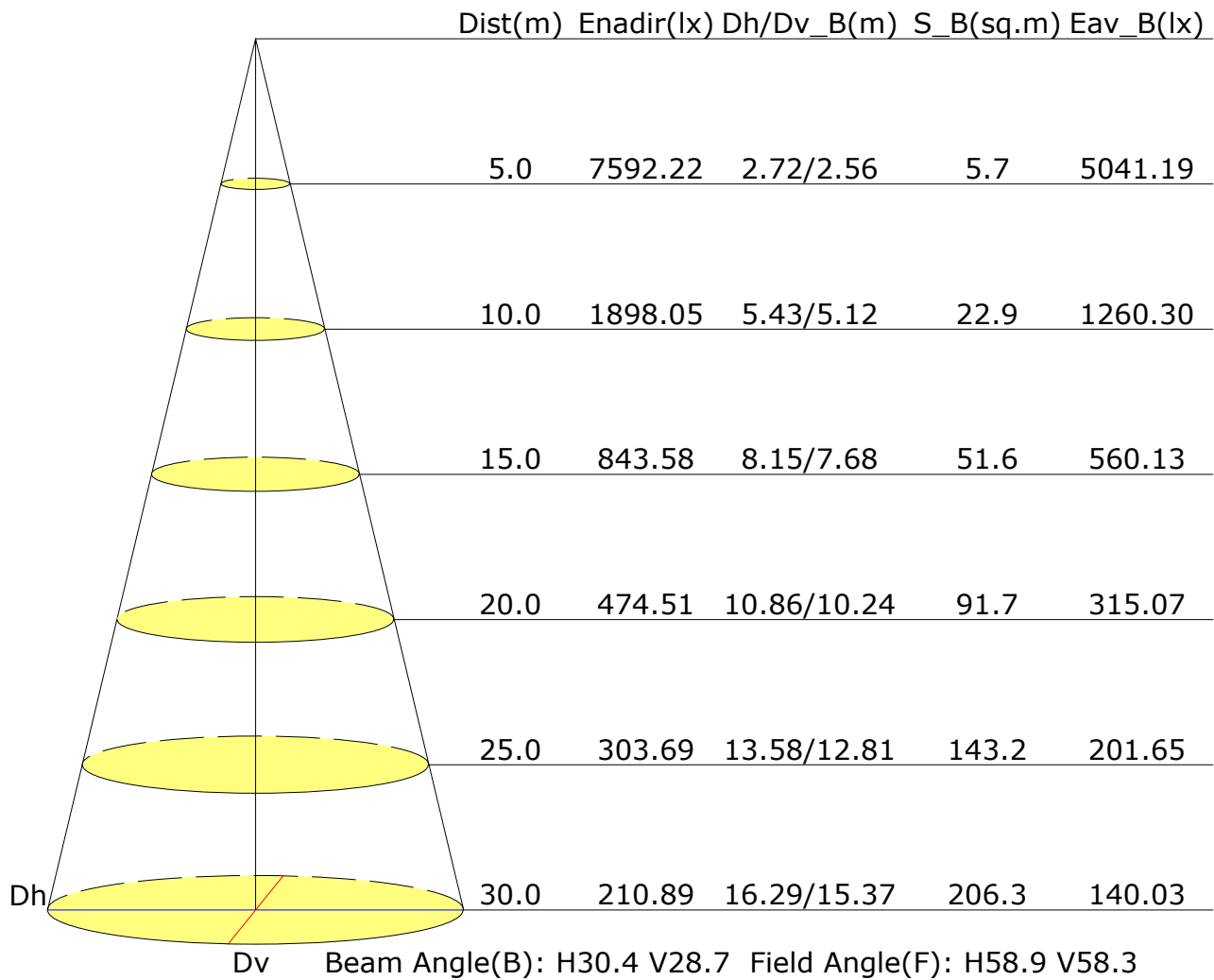


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	24323	19382	16728	14676	13457	11973	10161	8316	6148
C90	21304	17180	14586	12622	11361	9478	7793	6248	4695
C180	21280	17667	15247	13683	12443	10930	9425	7752	5785
C270	22920	18014	15179	12802	11338	9592	7931	6483	4865

C Plane (°):0.0-360.0: 22.5
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 Temperature:
 Operator:

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 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	17.9	18.8	18.2	19.1	19.4
3H	19.7	20.5	20.1	20.9	21.2	19.0	19.8	19.4	20.1	20.5
4H	20.4	21.1	20.8	21.5	21.8	19.5	20.2	19.9	20.6	21.0
6H	20.9	21.6	21.3	22.0	22.4	19.9	20.6	20.3	21.0	21.4
8H	21.1	21.8	21.6	22.2	22.6	20.1	20.8	20.5	21.2	21.6
12H	21.3	22.0	21.8	22.4	22.8	20.2	20.9	20.7	21.3	21.7
X=4H Y=2H	18.8	19.5	19.2	19.9	20.3	18.3	19.1	18.7	19.4	19.8
3H	20.3	20.9	20.7	21.3	21.8	19.6	20.3	20.1	20.7	21.1
4H	21.1	21.6	21.5	22.1	22.5	20.3	20.9	20.7	21.3	21.8
6H	21.7	22.3	22.2	22.7	23.2	20.8	21.4	21.3	21.8	22.3
8H	22.0	22.5	22.5	23.0	23.5	21.1	21.6	21.6	22.0	22.6
12H	22.3	22.7	22.8	23.2	23.8	21.3	21.7	21.8	22.2	22.8
X=8H Y=4H	21.3	21.7	21.8	22.2	22.7	20.6	21.0	21.1	21.5	22.0
6H	22.1	22.5	22.6	23.0	23.6	21.3	21.7	21.8	22.2	22.8
8H	22.5	22.8	23.0	23.4	23.9	21.6	22.0	22.2	22.5	23.1
12H	22.8	23.1	23.4	23.7	24.3	21.9	22.2	22.5	22.8	23.4
X=12H Y=4H	21.3	21.7	21.8	22.2	22.7	20.6	21.0	21.1	21.5	22.1
6H	22.1	22.5	22.7	23.0	23.6	21.4	21.7	21.9	22.3	22.8
8H	22.6	22.9	23.1	23.4	24.0	21.8	22.1	22.3	22.6	23.2
Variations with the observer position at spacings:										
S=1.0H	+0.7/-0.4					+0.8/-0.5				
S=1.5H	+1.4/-0.6					+1.7/-0.8				
S=2.0H	+2.4/-1.0					+2.7/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with $87273 \ln (8 \log(F/F_0) = 15.5)$.

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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 = 0.75									
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	0.81	0.86	0.91	0.94	0.98	1.01	1.03	1.06	1.08	
	0.30		0.76	0.82	0.86	0.89	0.94	0.97	1.00	1.03	1.05	
	0.20		0.72	0.78	0.82	0.86	0.91	0.94	0.97	1.01	1.03	
0.50	0.50	0.20	0.79	0.84	0.88	0.91	0.94	0.97	0.99	1.01	1.03	
	0.30		0.74	0.80	0.84	0.87	0.91	0.94	0.96	0.99	1.01	
	0.20		0.71	0.77	0.81	0.84	0.88	0.91	0.94	0.97	0.99	
0.30	0.50	0.20	0.77	0.82	0.85	0.88	0.91	0.93	0.95	0.97	0.98	
	0.30		0.73	0.78	0.82	0.84	0.88	0.91	0.92	0.95	0.96	
	0.20		0.71	0.76	0.79	0.82	0.86	0.88	0.91	0.93	0.95	
0.00	0.00	0.00	0.68	0.73	0.76	0.78	0.82	0.84	0.86	0.88	0.89	
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 = 0.75									
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	0.63	0.53	0.45	0.40	0.32	0.27	0.23	0.18	0.15	
	0.30		0.53	0.45	0.39	0.35	0.29	0.25	0.21	0.17	0.14	
	0.20		0.45	0.39	0.35	0.31	0.26	0.23	0.20	0.16	0.14	
0.50	0.50	0.20	0.59	0.49	0.42	0.37	0.30	0.28	0.21	0.17	0.14	
	0.30		0.50	0.42	0.37	0.33	0.27	0.23	0.20	0.16	0.13	
	0.20		0.43	0.38	0.33	0.30	0.25	0.21	0.19	0.15	0.13	
0.30	0.50	0.20	0.56	0.46	0.39	0.34	0.27	0.23	0.19	0.15	0.13	
	0.30		0.48	0.40	0.35	0.31	0.25	0.21	0.18	0.15	0.12	
	0.20		0.42	0.36	0.32	0.28	0.23	0.20	0.17	0.14	0.12	
0.00	0.00	0.00	0.28	0.23	0.20	0.18	0.14	0.12	0.11	0.08	0.07	
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 = 0.75									
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	0.19	0.20	0.21	0.22	0.24	0.25	0.25	0.26	0.26	
	0.30		0.14	0.16	0.18	0.19	0.21	0.22	0.23	0.24	0.25	
	0.20		0.11	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23	
0.50	0.50	0.20	0.18	0.20	0.21	0.22	0.23	0.24	0.24	0.25	0.25	
	0.30		0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.24	
	0.20		0.11	0.13	0.14	0.16	0.17	0.19	0.20	0.21	0.22	
0.30	0.50	0.20	0.17	0.19	0.20	0.21	0.22	0.23	0.23	0.24	0.24	
	0.30		0.14	0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23	
	0.20		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.21	0.22	
0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
Rating:599W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												