

Report No.: 1

Test Time: 17.01.2020 15:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 DALI 44LED 1000W 5000K 60x150gr.

Luminous Length (mm): 565 mm

Luminous Width (mm): 345 mm

Luminous Height (mm): 695 mm

Voltage: 220.7 V

Current: 4.905 A

Power: 998.93 W

Power Factor: 0.988

Photometric Results

CIE Class: Direct

Measurement Flux: 145479.8 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 145479.8 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 104.9, 141.7, 126.7, 125.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 44.3, 131.2, 82.4, 58.1

Luminaire Efficacy Rating (LER): 145.69

Central Intensity: 38847.44 cd

Max. Intensity: 84022.79 cd

Pos of Max. Intensity: H135 V35

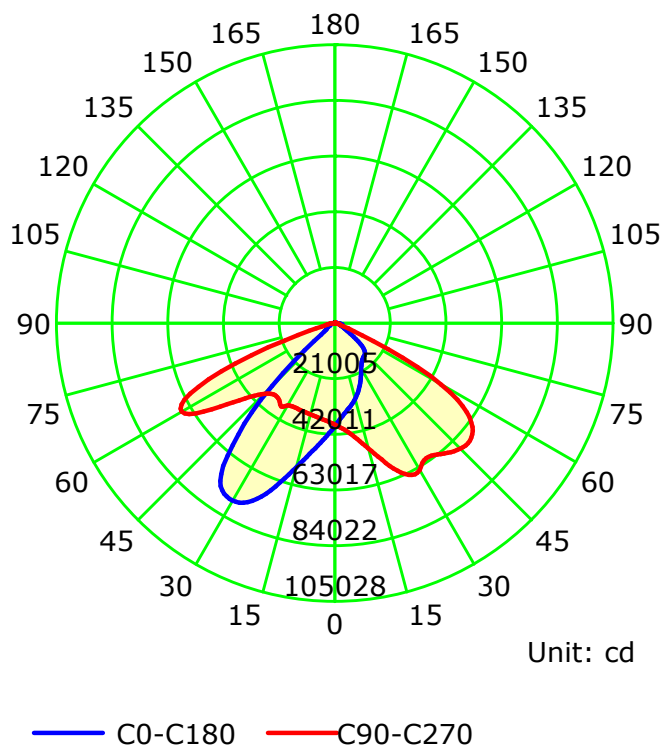
S/MH(C0/C180): 1.61

S/MH(C90/C270): 1.94

Picture Of Luminaire



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

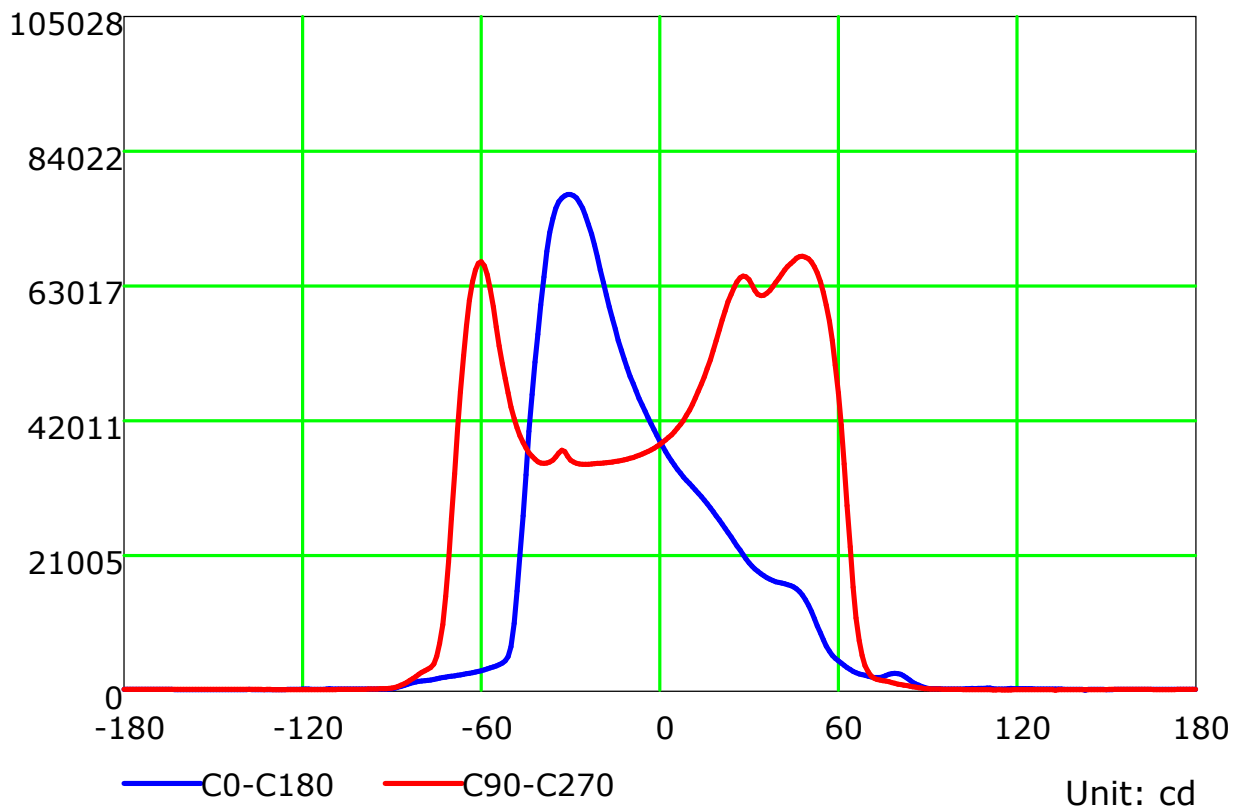
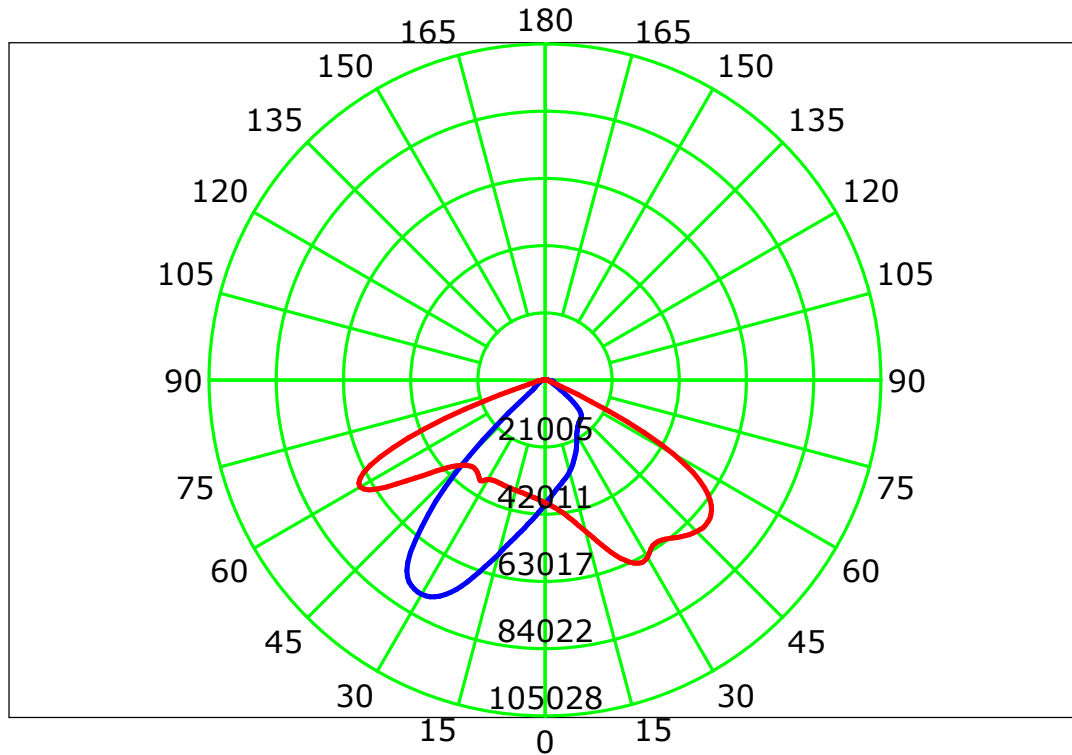
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

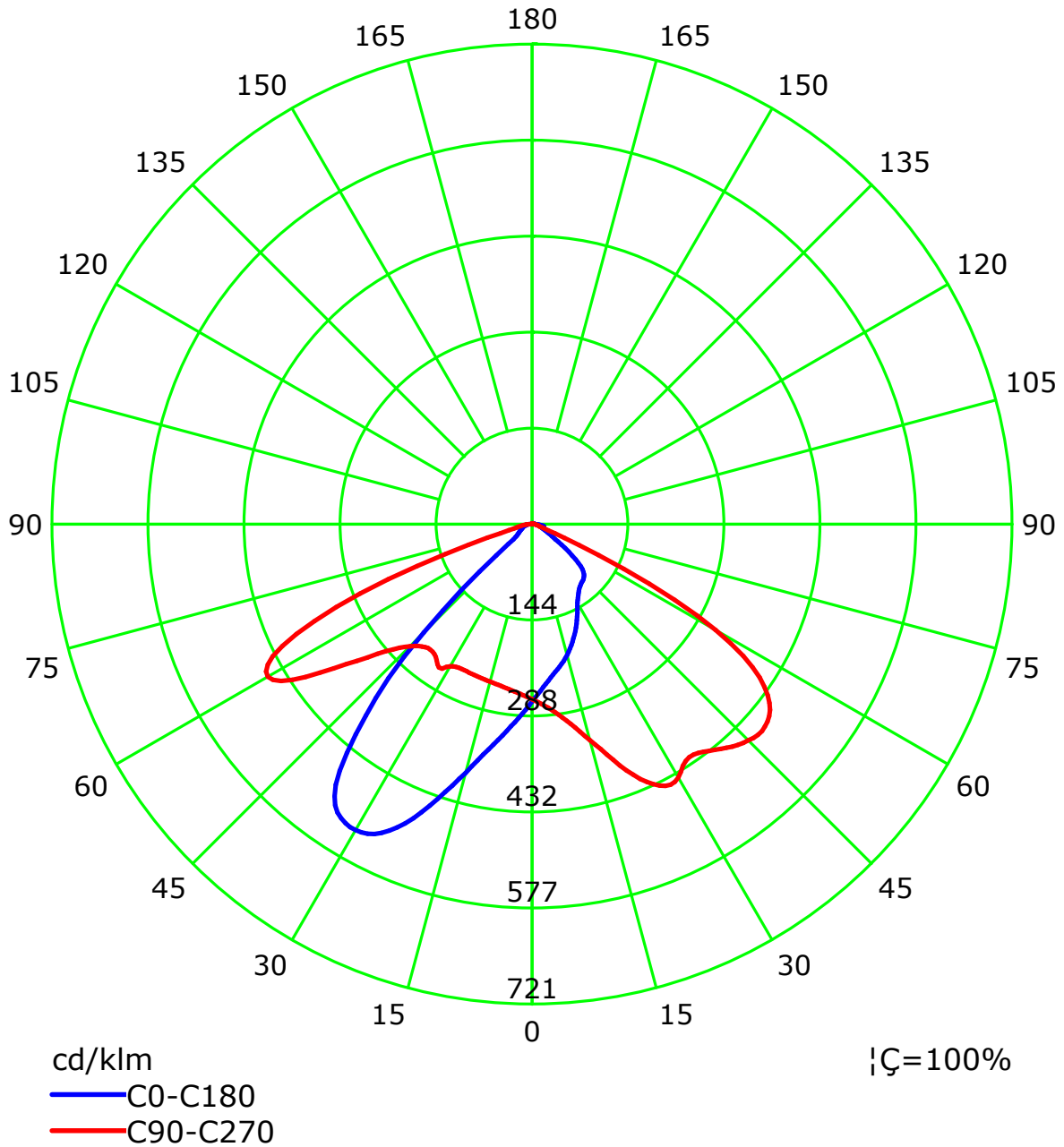
Luminous Intensity Distribution Curve



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)



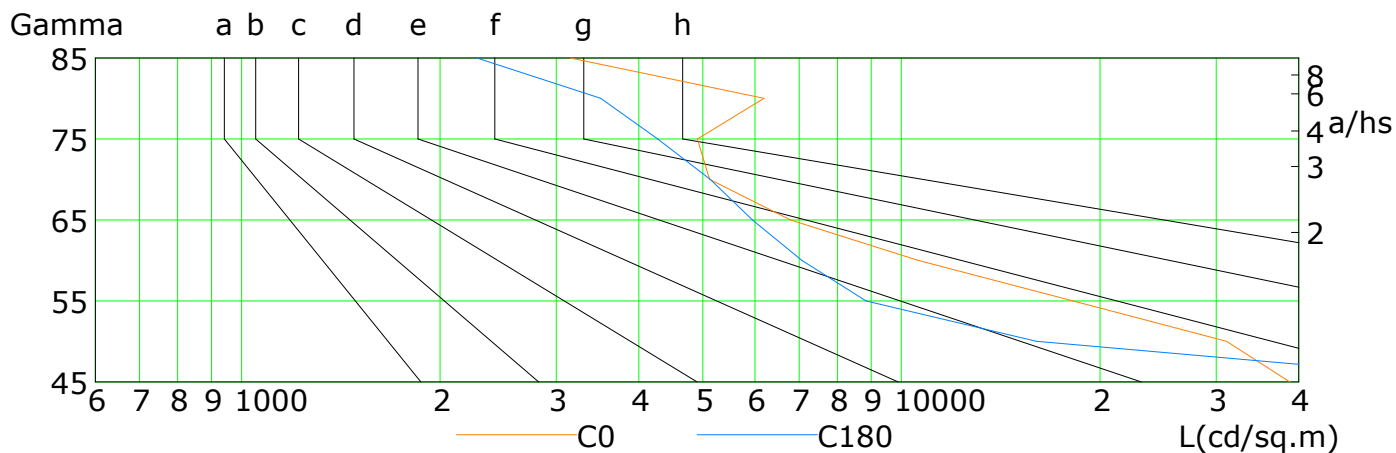
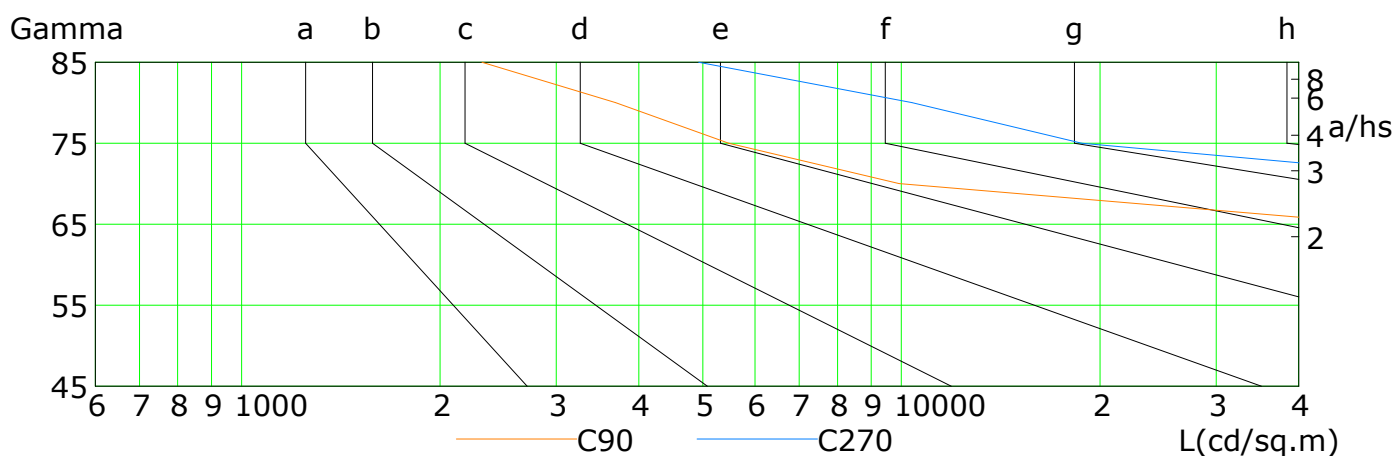
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

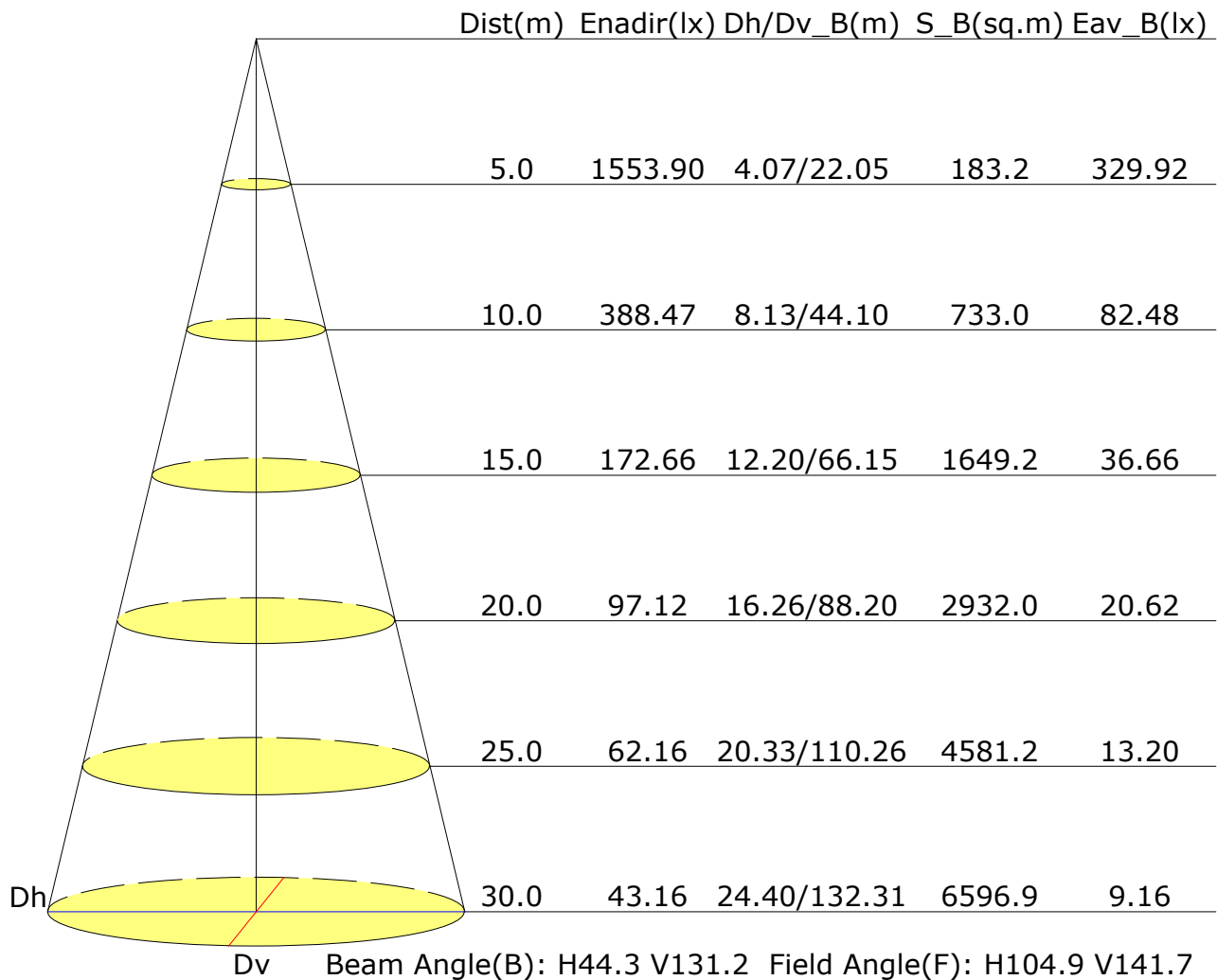


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	38808	31100	18215	10594	6791	5121	4910	6189	3149
C90	217772	217702	201381	152046	53765	9914	5473	3687	2314
C180	80839	16016	8842	7061	5948	5130	4272	3501	2273
C270	122912	142925	183815	218998	189782	91765	18758	10376	4931

C Plane (°):0.0-360.0: 22.5
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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	20.7	22.0	21.0	22.3	22.5	30.3	31.7	30.7	31.9	32.2
3H	20.7	21.9	21.1	22.2	22.5	31.3	32.5	31.6	32.8	33.1
4H	20.8	21.9	21.1	22.2	22.5	31.3	32.4	31.6	32.7	33.0
6H	20.9	22.0	21.3	22.3	22.6	31.2	32.2	31.6	32.6	32.9
8H	21.0	22.0	21.4	22.3	22.7	31.2	32.2	31.6	32.5	32.8
12H	21.1	22.0	21.5	22.3	22.7	31.1	32.1	31.5	32.4	32.8
X=4H Y=2H	22.0	23.1	22.4	23.4	23.7	30.2	31.3	30.5	31.6	31.9
3H	22.1	23.0	22.5	23.4	23.7	31.2	32.1	31.6	32.5	32.8
4H	22.1	23.0	22.5	23.3	23.7	31.2	32.0	31.6	32.4	32.8
6H	22.3	23.0	22.7	23.4	23.8	31.1	31.9	31.6	32.2	32.7
8H	22.4	23.1	22.8	23.5	23.9	31.1	31.8	31.5	32.2	32.6
12H	22.4	23.0	22.9	23.5	23.9	31.1	31.7	31.5	32.1	32.6
X=8H Y=4H	22.2	22.9	22.7	23.3	23.7	31.1	31.7	31.5	32.2	32.6
6H	22.4	23.0	22.9	23.4	23.9	31.0	31.6	31.5	32.0	32.5
8H	22.5	23.0	23.0	23.5	24.0	31.0	31.5	31.5	31.9	32.4
12H	22.6	23.0	23.1	23.5	24.0	31.0	31.4	31.5	31.9	32.4
X=12H Y=4H	22.2	22.8	22.7	23.2	23.7	31.0	31.6	31.5	32.1	32.5
6H	22.4	22.9	22.9	23.3	23.8	31.0	31.5	31.5	31.9	32.4
8H	22.5	22.9	23.1	23.4	24.0	31.0	31.4	31.5	31.9	32.4
Variations with the observer position at spacings:										
S=1.0H	+0.6/-1.3					+0.7/-0.7				
S=1.5H	+1.6/-4.0					+2.4/-2.6				
S=2.0H	+2.4/-5.7					+4.3/-5.9				

Calculate in accordance with CIE Pub.117. The table is revised with 145480lm ($8\log(F/F_0) = 17.3$).

C Plane (°):0.0-360.0: 22.5
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 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 = 1.75									
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	NA	0.75	0.82	0.87	0.94	0.98	1.01	1.04	1.06	
	0.30		NA	0.69	0.76	0.81	0.89	0.93	0.97	1.01	1.04	
	0.20		NA	0.64	0.71	0.77	0.85	0.90	0.93	0.98	1.01	
0.50	0.50	0.20	NA	0.73	0.80	0.85	0.91	0.94	0.97	1.00	1.02	
	0.30		NA	0.68	0.75	0.80	0.87	0.91	0.94	0.97	1.00	
	0.20		NA	0.63	0.70	0.76	0.83	0.88	0.91	0.95	0.98	
0.30	0.50	0.20	NA	0.71	0.78	0.82	0.88	0.91	0.93	0.96	0.98	
	0.30		NA	0.67	0.73	0.78	0.84	0.88	0.91	0.94	0.96	
	0.20		NA	0.63	0.69	0.75	0.81	0.86	0.88	0.92	0.95	
0.00	0.00	0.00	NA	0.60	0.67	0.72	0.78	0.82	0.84	0.88	0.90	
Rating:999W 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 = 1.75									
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	NA	0.69	0.58	0.50	0.38	0.32	0.27	0.21	0.17	
	0.30		NA	0.59	0.51	0.44	0.35	0.29	0.25	0.20	0.16	
	0.20		NA	0.52	0.45	0.39	0.32	0.27	0.23	0.18	0.15	
0.50	0.50	0.20	NA	0.66	0.55	0.47	0.36	0.34	0.25	0.19	0.16	
	0.30		NA	0.58	0.49	0.42	0.33	0.28	0.24	0.18	0.15	
	0.20		NA	0.51	0.44	0.38	0.31	0.26	0.22	0.18	0.15	
0.30	0.50	0.20	NA	0.63	0.53	0.45	0.34	0.28	0.24	0.18	0.15	
	0.30		NA	0.56	0.47	0.41	0.32	0.26	0.23	0.17	0.14	
	0.20		NA	0.50	0.43	0.37	0.30	0.25	0.21	0.17	0.14	
0.00	0.00	0.00	0.99	0.39	0.33	0.28	0.21	0.18	0.15	0.12	0.09	
Rating:999W 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 = 1.75									
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	NA	0.17	0.18	0.19	0.20	0.20	0.21	0.22	0.22	
	0.30		NA	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		NA	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	NA	0.17	0.17	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		NA	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		NA	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	NA	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		NA	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		NA	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:999W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												