

Report No.: 1

Test Time: 17.01.2020 15:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 DALI 44LED 200W 5000K 60x150gr.

Luminous Length (mm): 220 mm

Luminous Width (mm): 174 mm

Luminous Height (mm): 338 mm

Voltage: 221.2 V

Current: 0.874 A

Power: 201.32 W

Power Factor: 0.981

Photometric Results

CIE Class: Direct

Measurement Flux: 29355 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 29355.0 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): 145.86

Central Intensity: 7838.65 cd

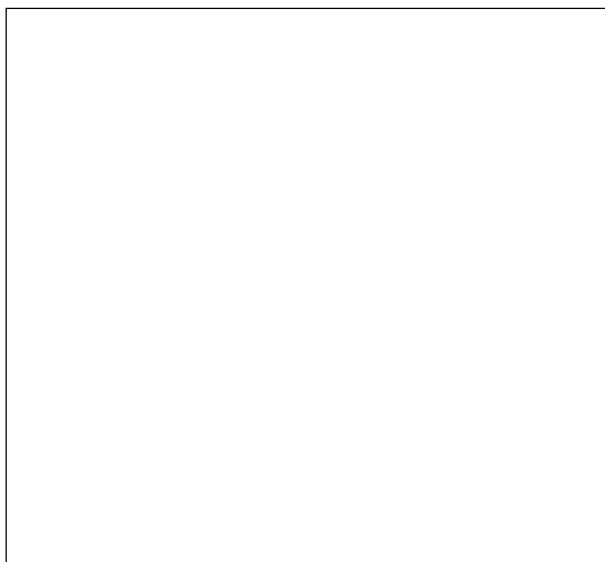
Max. Intensity: 16954.16 cd

Pos of Max. Intensity: H135 V35

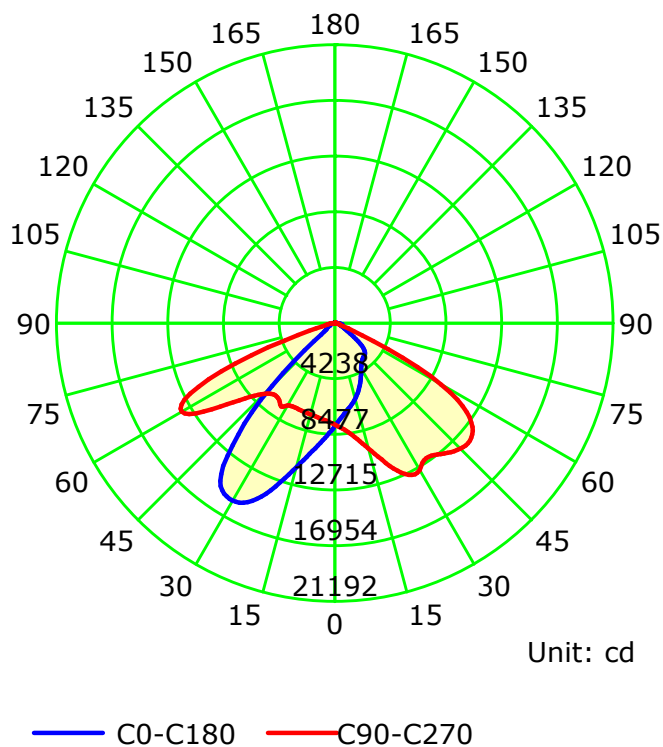
S/MH(C0/C180): 1.61

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

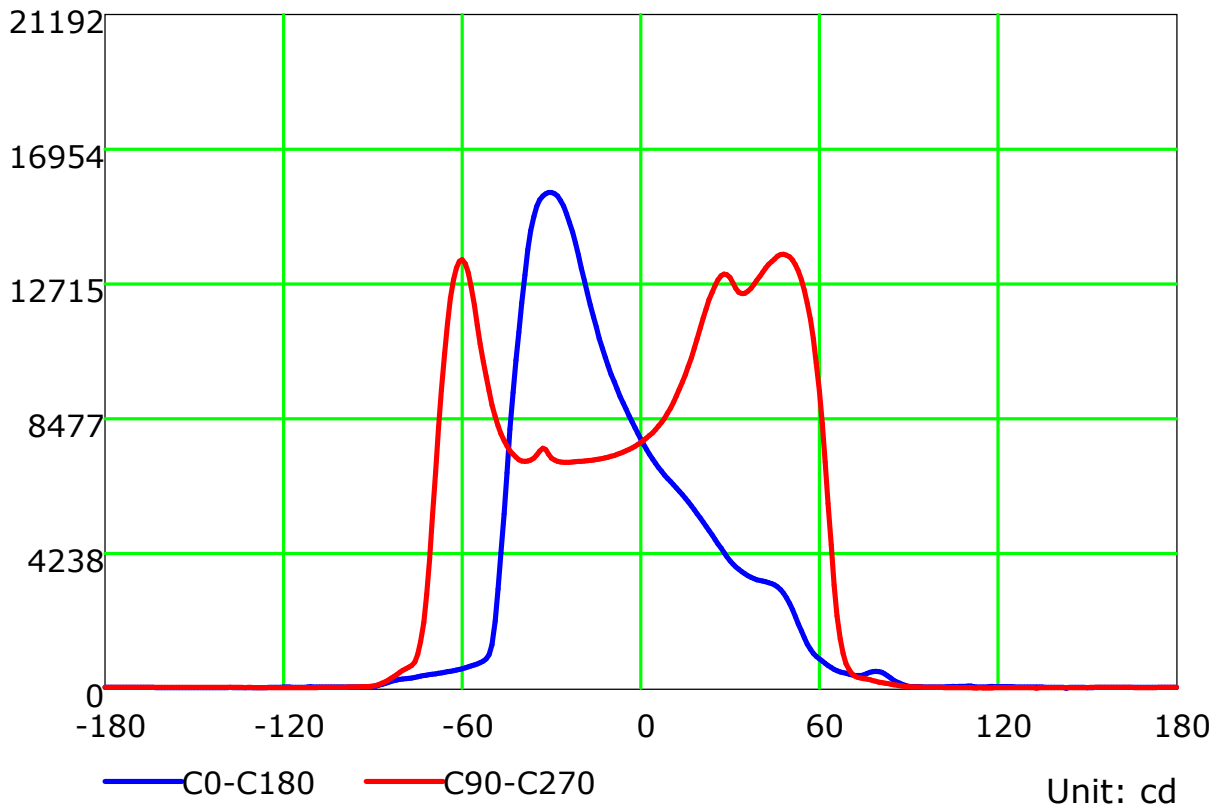
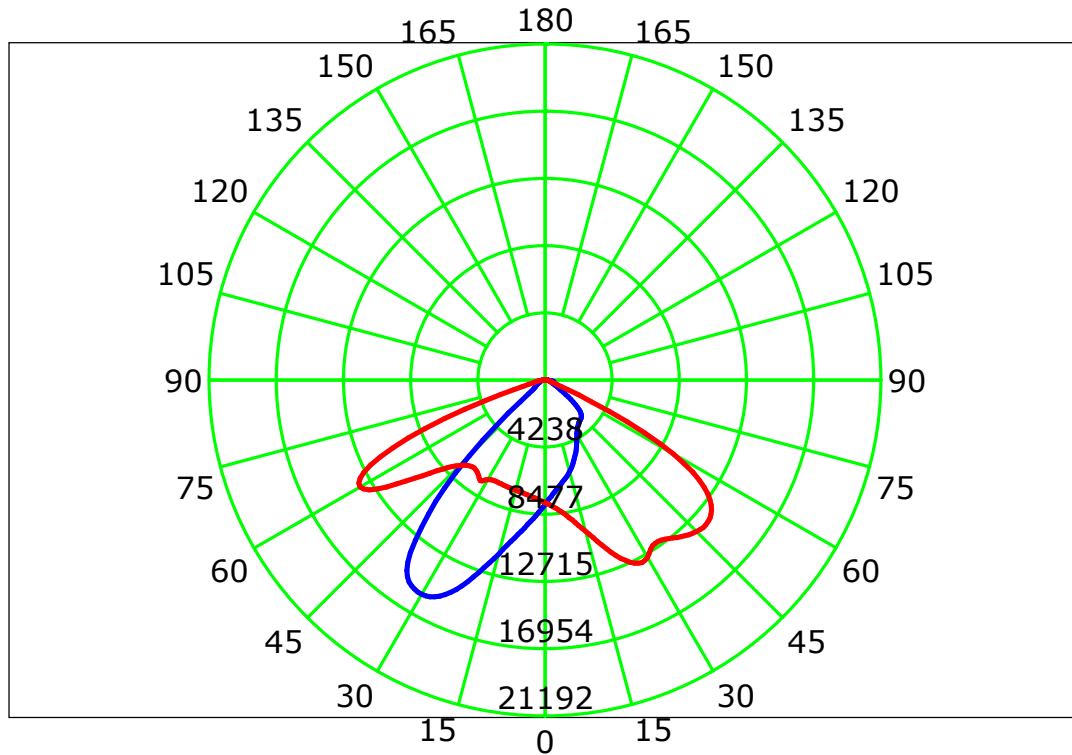
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

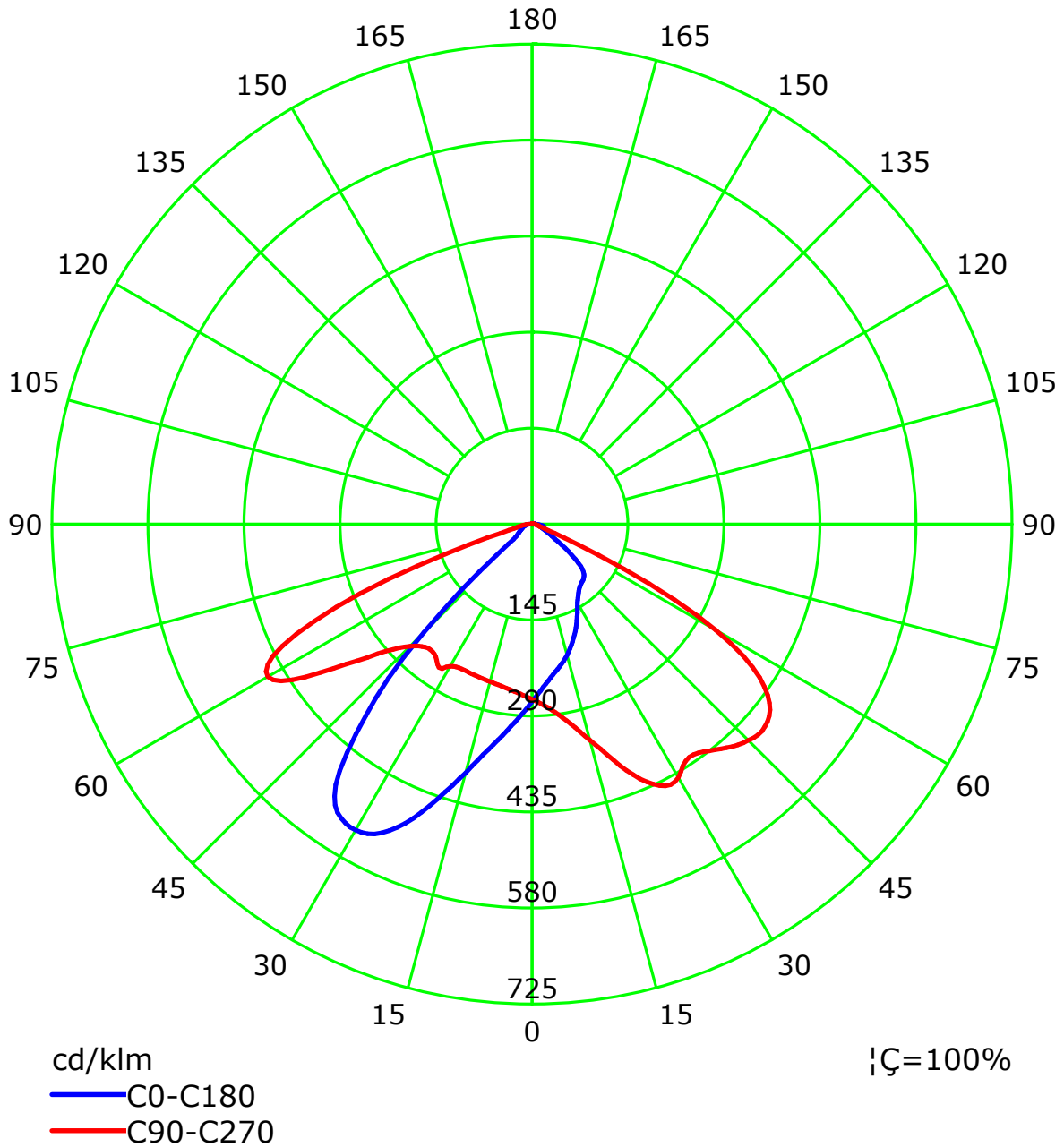
Luminous Intensity Distribution Curve



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)



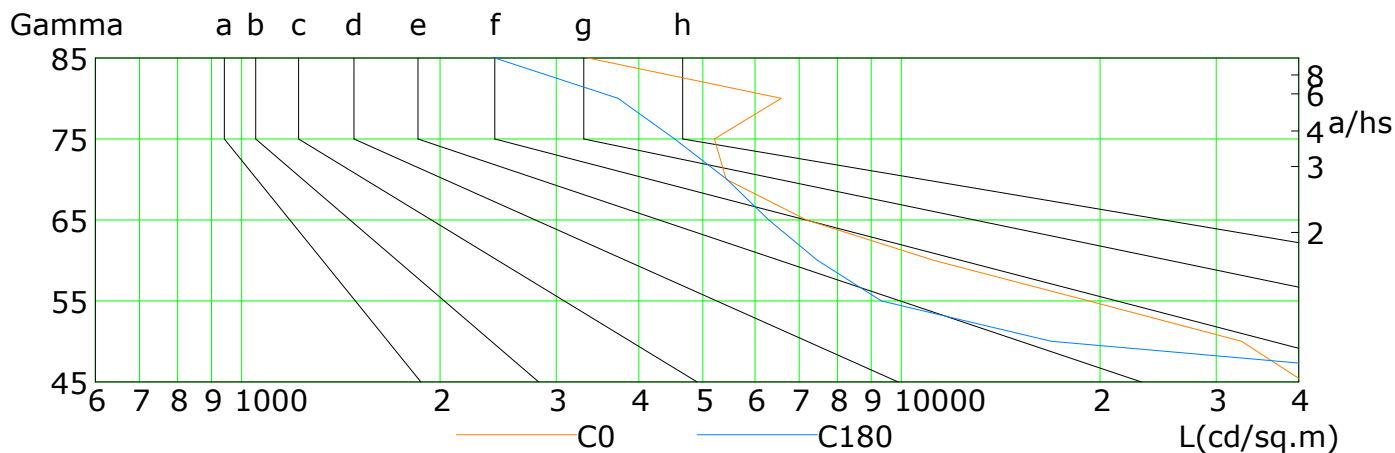
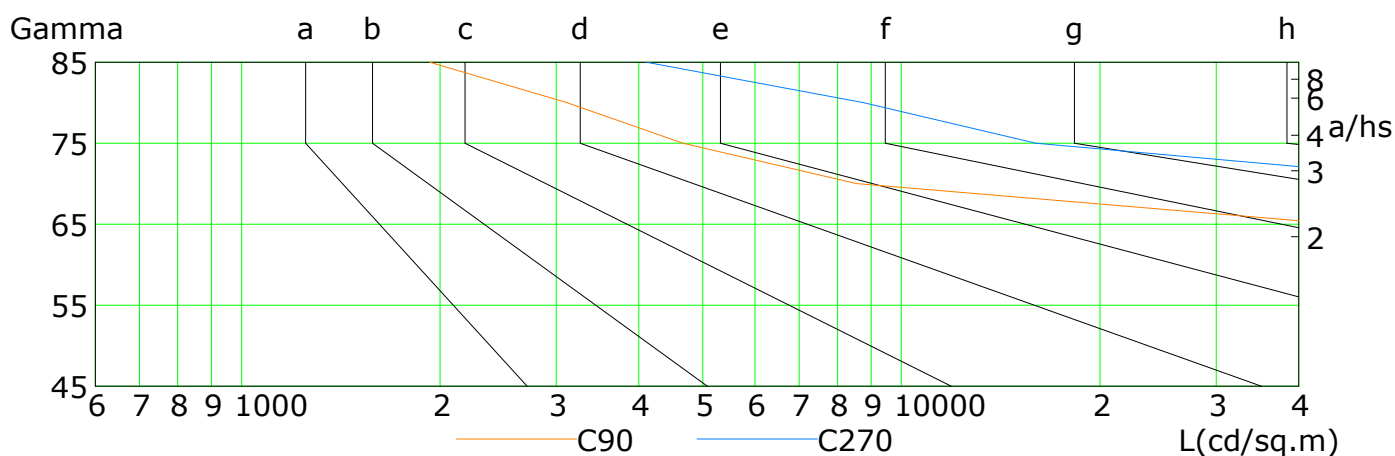
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

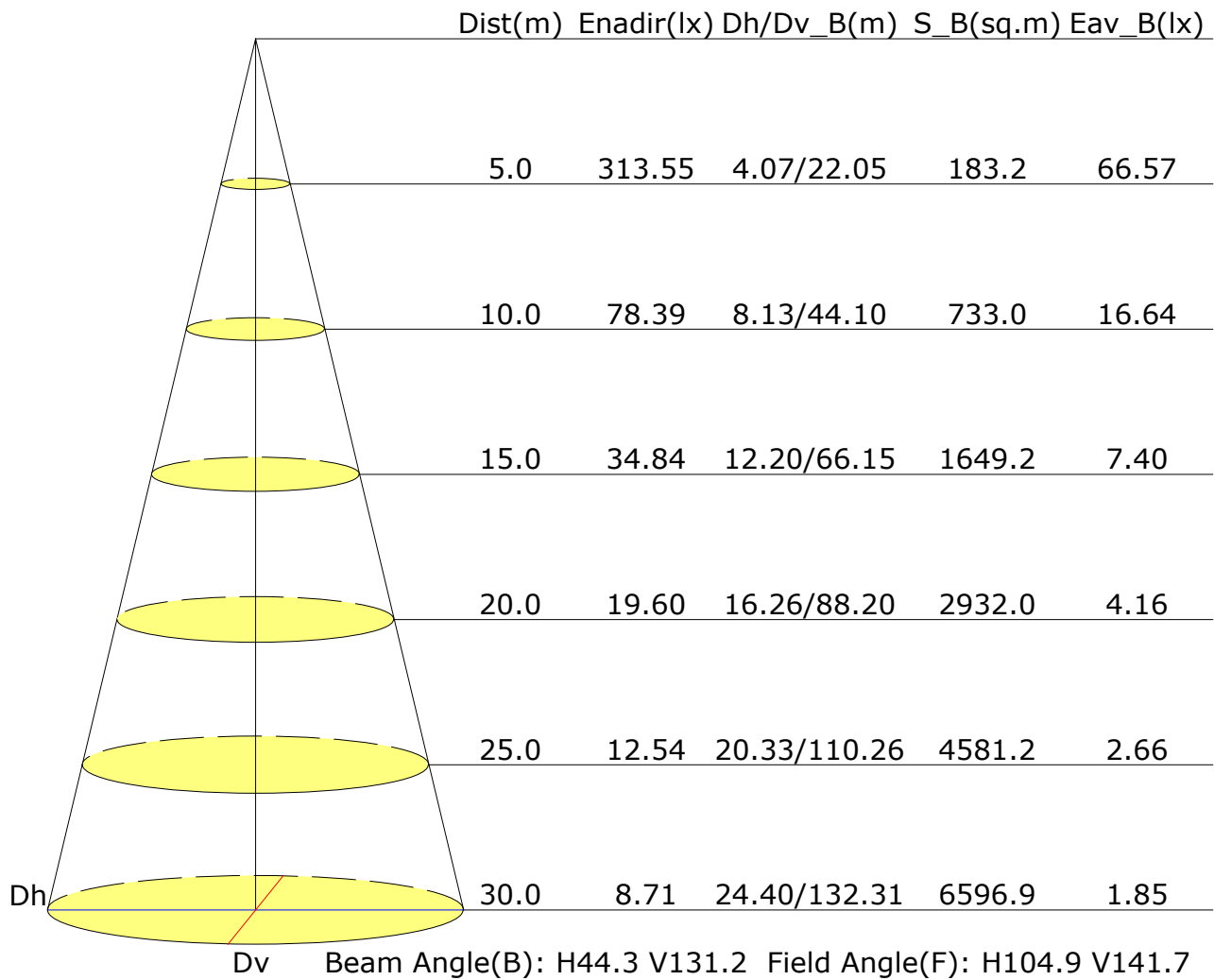


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	40850	32782	19225	11196	7186	5426	5209	6575	3351
C90	196737	194845	178580	133588	46794	8545	4669	3111	1929
C180	85092	16882	9332	7462	6294	5436	4532	3719	2418
C270	111040	127919	163004	192412	165176	79090	16002	8755	4111

C Plane (°):0.0-360.0: 22.5
 Test Lab:
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 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	20.7	22.0	21.0	22.3	22.5	30.0	31.4	30.3	31.6	31.9
3H	20.8	22.0	21.1	22.2	22.5	31.0	32.2	31.3	32.4	32.7
4H	20.8	21.9	21.2	22.2	22.5	30.9	32.1	31.3	32.4	32.7
6H	21.0	22.0	21.4	22.3	22.7	30.9	31.9	31.2	32.2	32.6
8H	21.1	22.1	21.5	22.4	22.7	30.8	31.8	31.2	32.2	32.5
12H	21.1	22.1	21.5	22.4	22.8	30.8	31.7	31.2	32.1	32.4
X=4H Y=2H	22.0	23.1	22.3	23.4	23.7	29.9	31.0	30.2	31.3	31.6
3H	22.0	23.0	22.4	23.3	23.7	30.9	31.8	31.2	32.1	32.5
4H	22.1	22.9	22.5	23.3	23.7	30.8	31.7	31.3	32.0	32.4
6H	22.3	23.0	22.7	23.4	23.8	30.8	31.5	31.2	31.9	32.3
8H	22.4	23.0	22.8	23.5	23.9	30.8	31.4	31.2	31.8	32.3
12H	22.4	23.0	22.9	23.5	23.9	30.7	31.3	31.2	31.8	32.2
X=8H Y=4H	22.2	22.9	22.6	23.3	23.7	30.7	31.4	31.2	31.8	32.3
6H	22.4	22.9	22.9	23.4	23.9	30.7	31.2	31.2	31.7	32.2
8H	22.5	23.0	23.0	23.5	24.0	30.7	31.1	31.2	31.6	32.1
12H	22.6	23.0	23.1	23.5	24.0	30.6	31.1	31.2	31.5	32.1
X=12H Y=4H	22.2	22.8	22.6	23.2	23.7	30.7	31.3	31.2	31.7	32.2
6H	22.4	22.9	22.9	23.3	23.8	30.7	31.1	31.2	31.6	32.1
8H	22.5	22.9	23.0	23.4	23.9	30.6	31.0	31.1	31.5	32.0
Variations with the observer position at spacings:										
S=1.0H	+0.5/-1.3					+0.7/-0.7				
S=1.5H	+1.6/-3.9					+2.4/-2.5				
S=2.0H	+2.4/-5.6					+4.2/-5.8				

Calculate in accordance with CIE Pub.117. The table is revised with 29355lm ($8\log(F/F_0) = 11.7$).

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
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 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 = 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:201W 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:201W 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:201W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												