

Report No.: 1

Test Time: 30.01.2020 14:48

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 DALI 36LED 300W 5000K 30gr.

Luminous Length (mm): 355 mm

Luminous Width (mm): 210 mm

Luminous Height (mm): 338 mm

Voltage: 221.3 V

Current: 1.348 A

Power: 294.61 W

Power Factor: 0.986

Photometric Results

CIE Class: Direct

Measurement Flux: 42800.7 lm

Downward Ratio: 95%

Total Rated Lamp Lumens: 42800.7 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): 145.33

Central Intensity: 93041.9 cd

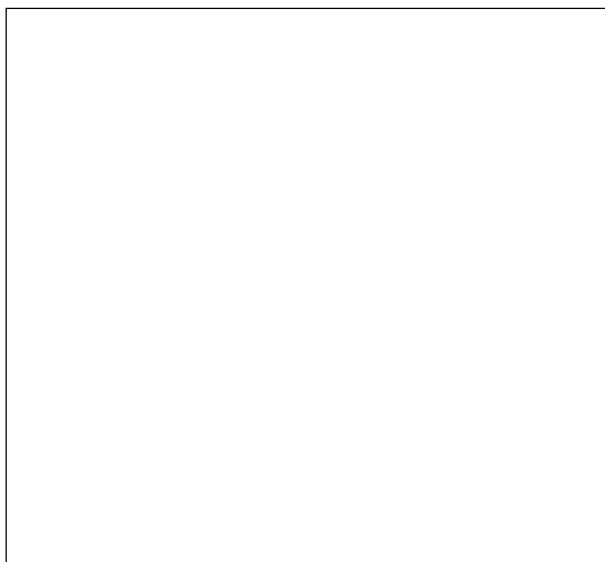
Max. Intensity: 95720.94 cd

Pos of Max. Intensity: H315 V1

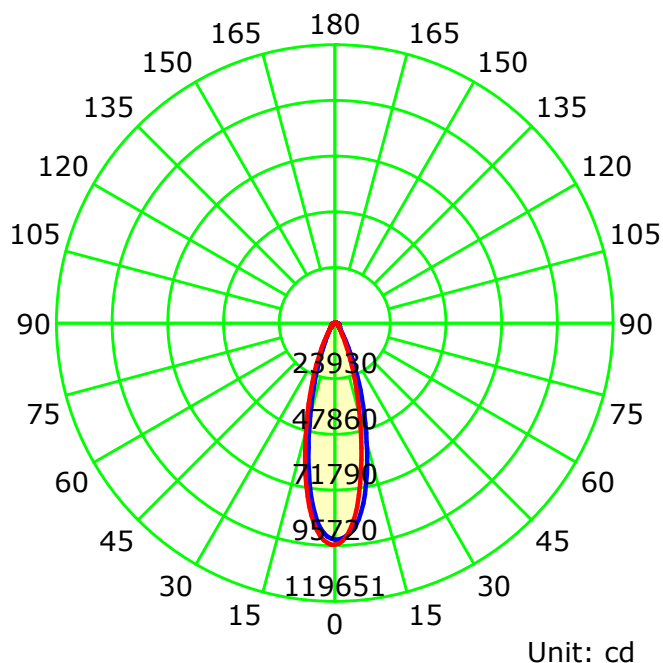
S/MH(C0/C180): 0.50

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

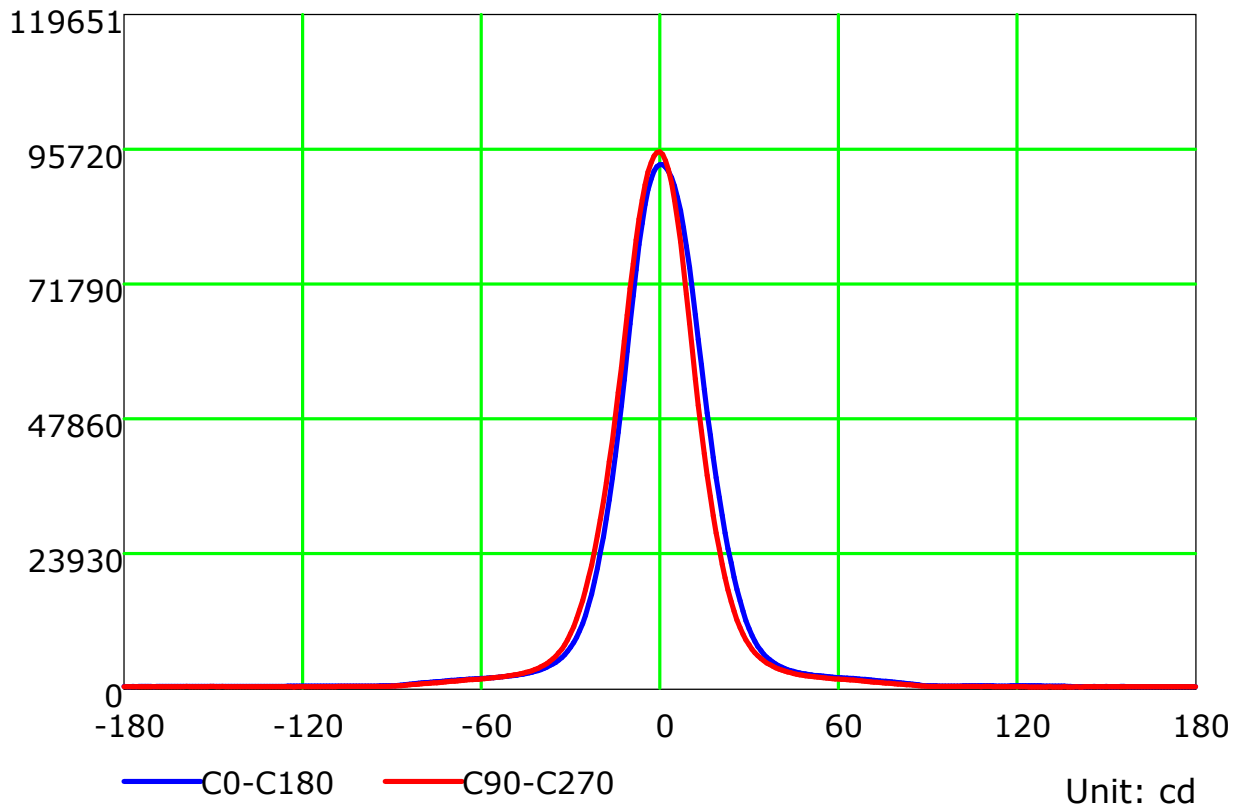
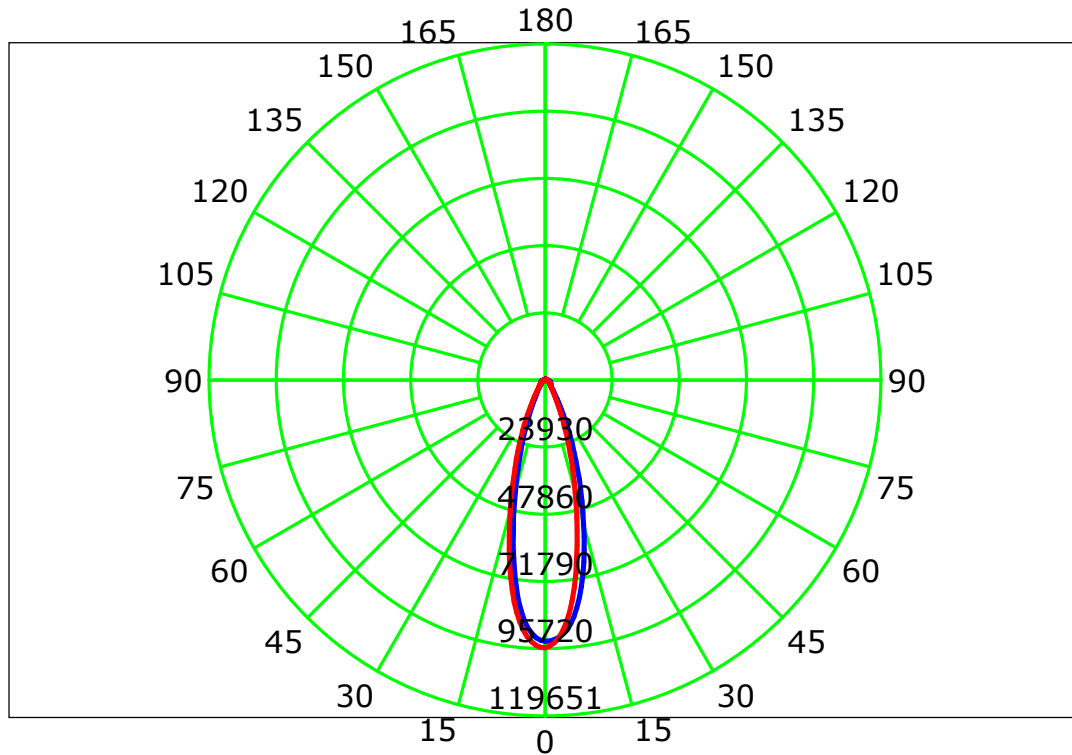
Test Device: LSG-1800B

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

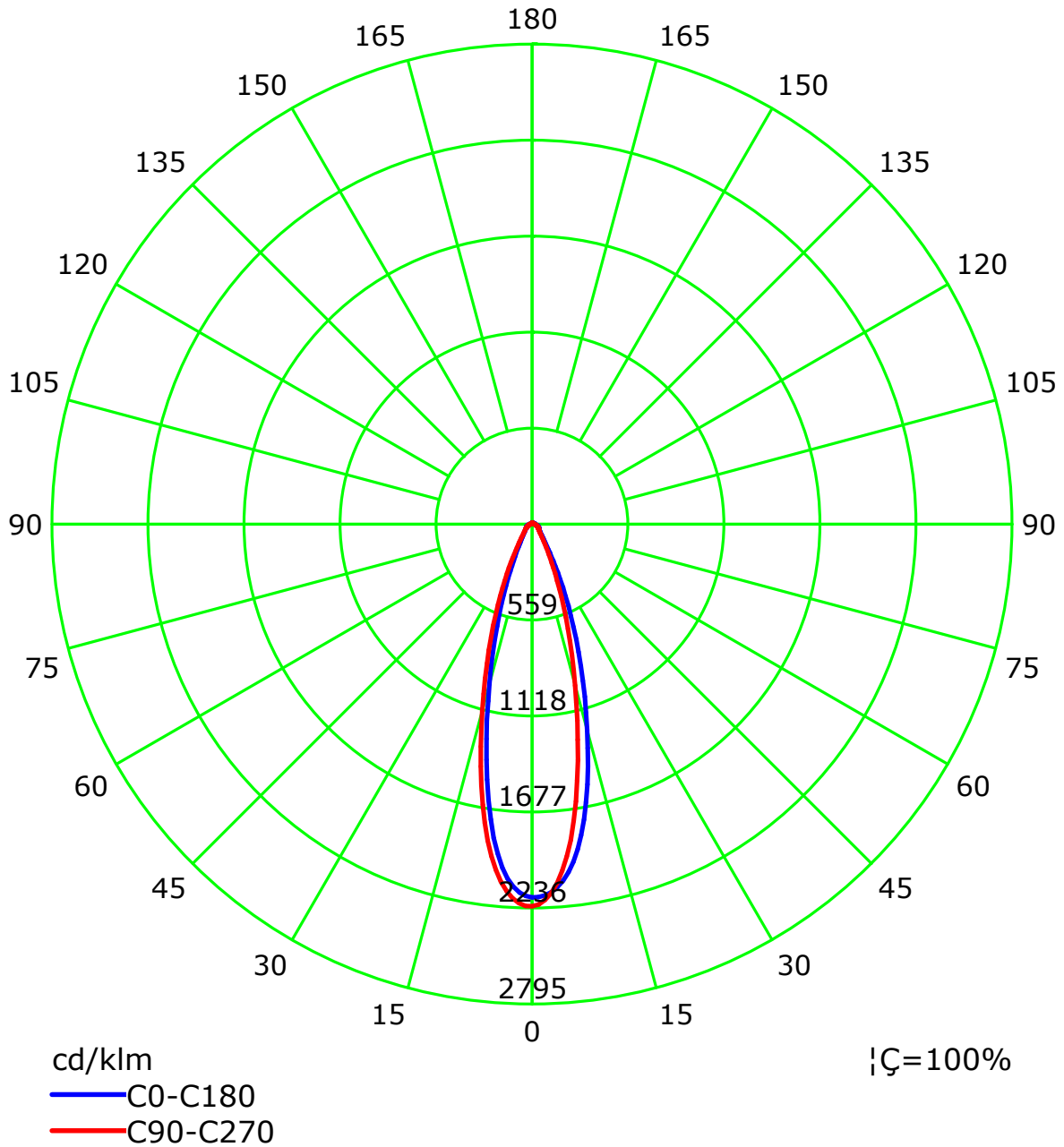
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

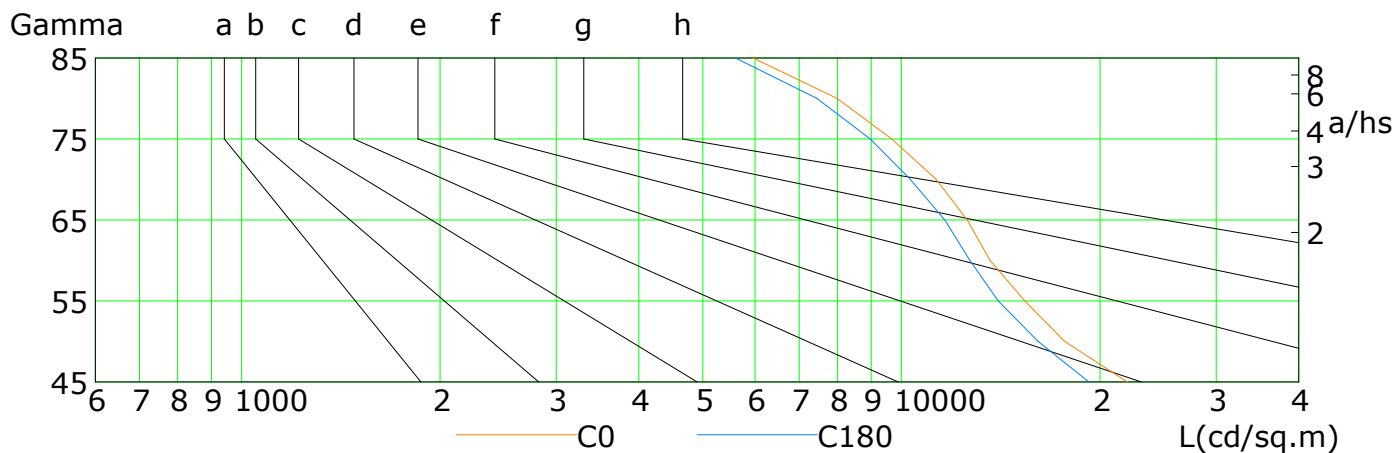
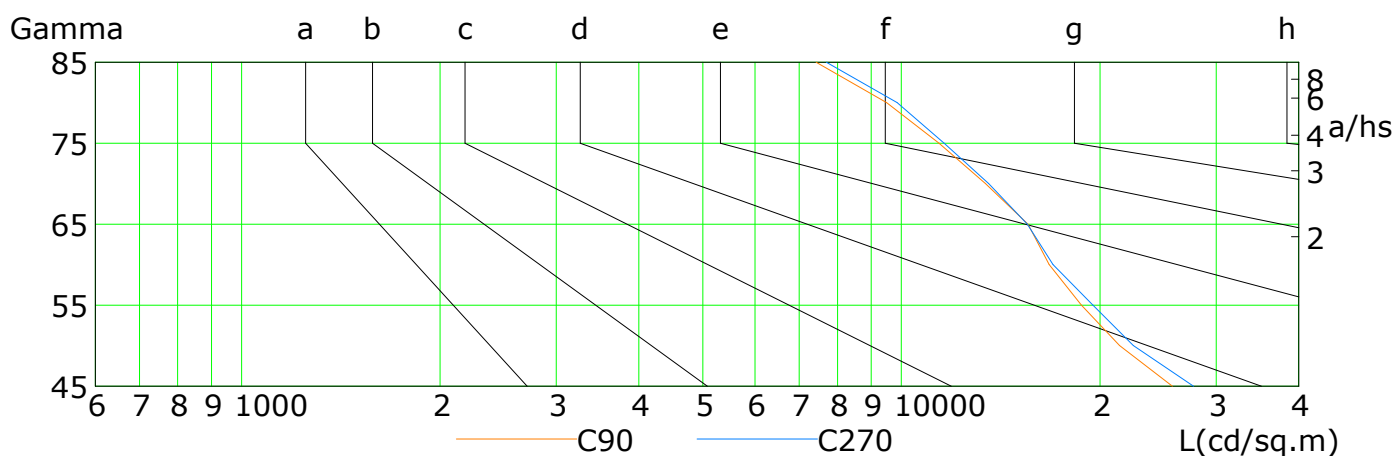
Luminous Intensity Distribution Curve(cd/klm)



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

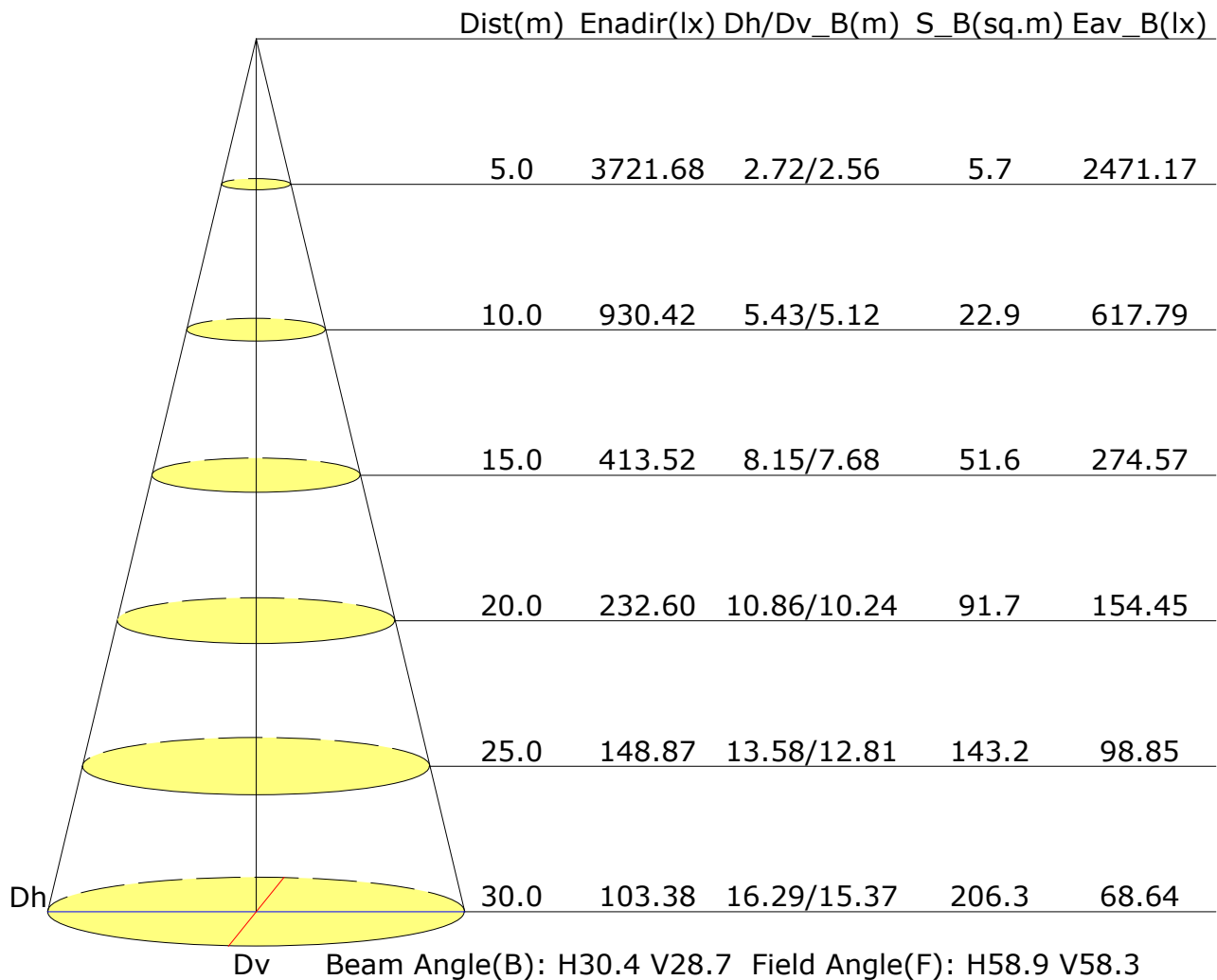


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	21990	17678	15388	13613	12587	11293	9667	7984	5959
C90	25747	21420	18755	16740	15551	13406	11410	9494	7430
C180	19239	16113	14025	12692	11638	10309	8967	7443	5608
C270	27701	22461	19517	16979	15520	13567	11612	9851	7698

C Plane (°):0.0-360.0: 22.5
 Test Lab:
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 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	18.4	19.3	18.8	19.6	19.9	18.5	19.3	18.8	19.6	19.9
3H	19.7	20.5	20.1	20.8	21.2	19.7	20.5	20.1	20.8	21.2
4H	20.3	21.1	20.7	21.4	21.8	20.3	21.0	20.7	21.4	21.7
6H	20.9	21.6	21.3	22.0	22.4	20.8	21.5	21.2	21.8	22.2
8H	21.1	21.8	21.5	22.2	22.6	21.0	21.6	21.4	22.0	22.5
12H	21.3	21.9	21.7	22.3	22.8	21.1	21.8	21.6	22.2	22.6
X=4H Y=2H	18.8	19.6	19.2	19.9	20.3	18.9	19.6	19.3	20.0	20.4
3H	20.3	21.0	20.8	21.4	21.8	20.3	21.0	20.8	21.4	21.8
4H	21.1	21.7	21.6	22.1	22.6	21.0	21.6	21.5	22.0	22.5
6H	21.8	22.3	22.3	22.8	23.3	21.7	22.2	22.2	22.6	23.1
8H	22.1	22.6	22.6	23.0	23.6	21.9	22.4	22.4	22.9	23.4
12H	22.3	22.8	22.9	23.3	23.8	22.2	22.6	22.7	23.1	23.7
X=8H Y=4H	21.4	21.8	21.9	22.3	22.8	21.3	21.7	21.8	22.2	22.8
6H	22.2	22.6	22.8	23.1	23.7	22.1	22.5	22.6	23.0	23.6
8H	22.6	22.9	23.1	23.5	24.1	22.5	22.8	23.0	23.3	23.9
12H	22.9	23.2	23.5	23.8	24.4	22.8	23.1	23.4	23.7	24.3
X=12H Y=4H	21.4	21.8	21.9	22.3	22.9	21.3	21.7	21.8	22.2	22.8
6H	22.3	22.6	22.8	23.2	23.8	22.1	22.5	22.7	23.0	23.6
8H	22.7	23.0	23.3	23.6	24.2	22.6	22.9	23.2	23.4	24.1
Variations with the observer position at spacings:										
S=1.0H	+0.6/-0.4					+0.7/-0.4				
S=1.5H	+1.3/-0.7					+1.5/-0.7				
S=2.0H	+2.1/-0.9					+2.4/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 42801lm ($8\log(F/F_0) = 13.1$).

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 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	0.81	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	1.00	1.03	
0.50	0.50	0.20	0.79	0.84	0.88	0.90	0.94	0.97	0.99	1.01	1.02	
	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	0.93	0.97	0.99	
0.30	0.50	0.20	0.77	0.82	0.85	0.88	0.91	0.93	0.94	0.96	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	0.75	0.79	0.82	0.86	0.88	0.90	0.93	0.95	
0.00	0.00	0.00	0.68	0.73	0.76	0.78	0.82	0.84	0.85	0.88	0.89	
Rating:295W 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	0.29	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		0.47	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:295W 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	0.20	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:295W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												