



OOO "FAROS"

www.farosled.ru

Tel: +7 (8422) 583-386, 583-387

E-mail: info@farosled.ru

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Report No.:

Test Time: 23.04.2020 14:59

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 200LED 55W Refond 3N 3000K 2x25-90

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 228.8 V

Current: 0.228 A

Power: 51.43 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 7952.6 lm

Measurement Flux: 7952.6 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.2, 125.9, 134.9, 134.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 103.6, 73.2, 86.8, 86.4

Luminaire Efficacy Rating (LER): 154.68

Central Intensity: 2468.72 cd

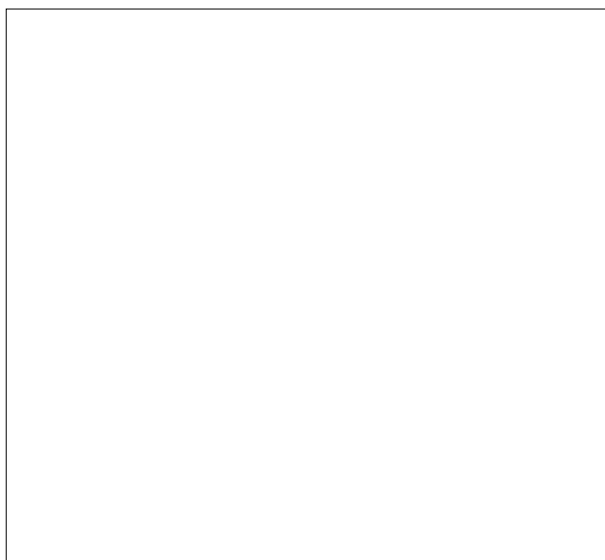
Max. Intensity: 4591.09 cd

Pos of Max. Intensity: H270 V22

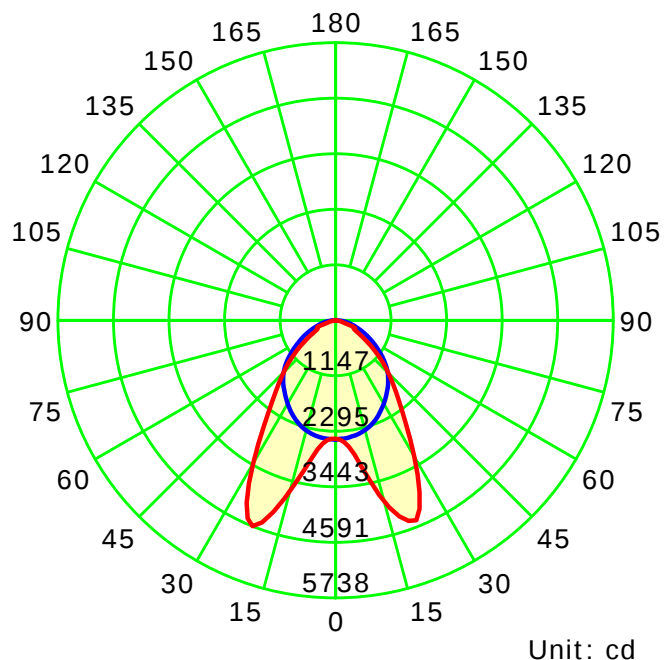
S/MH(C0/C180): 1.20

S/MH(C90/C270): 1.47

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

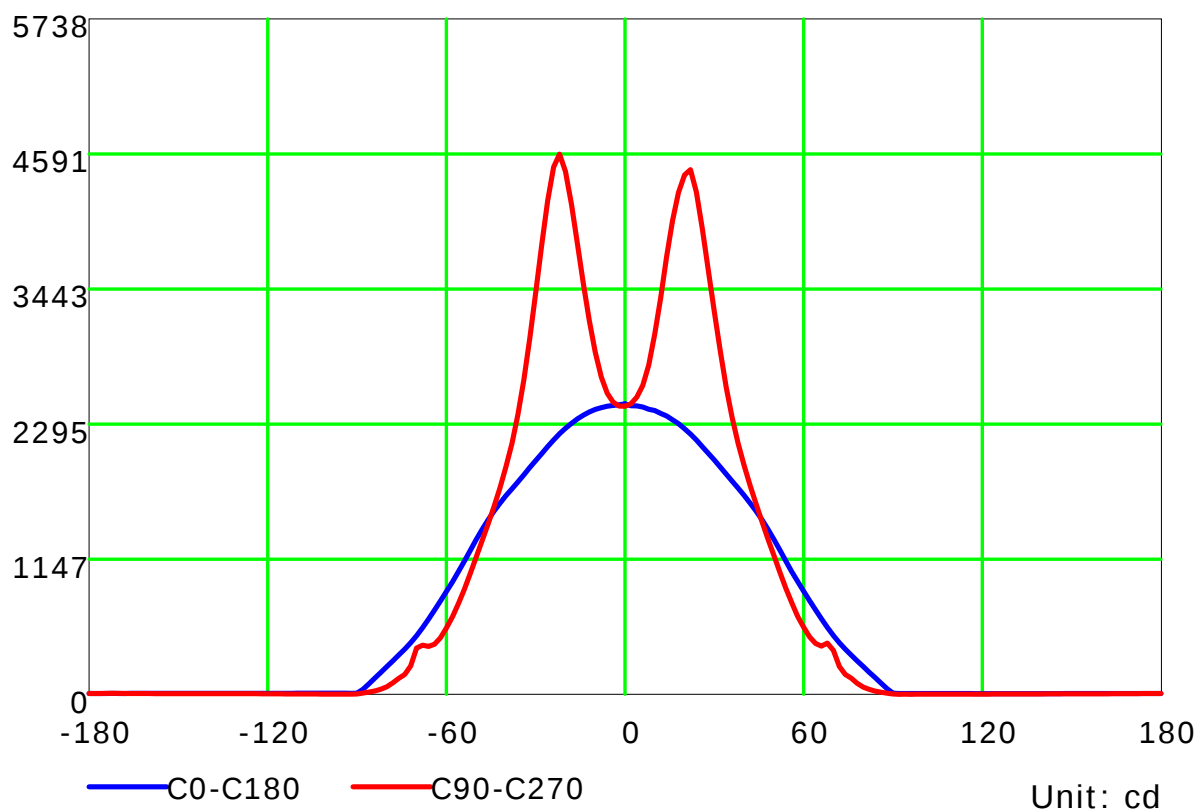
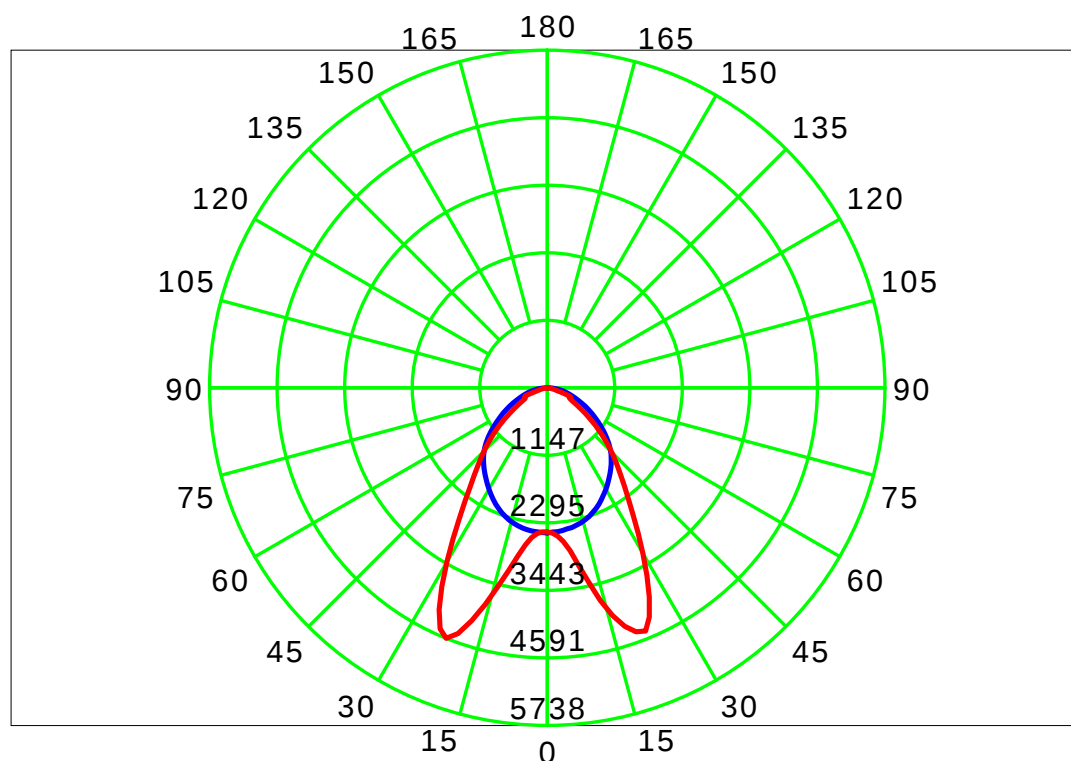
Test Device: LSG-1800B

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:

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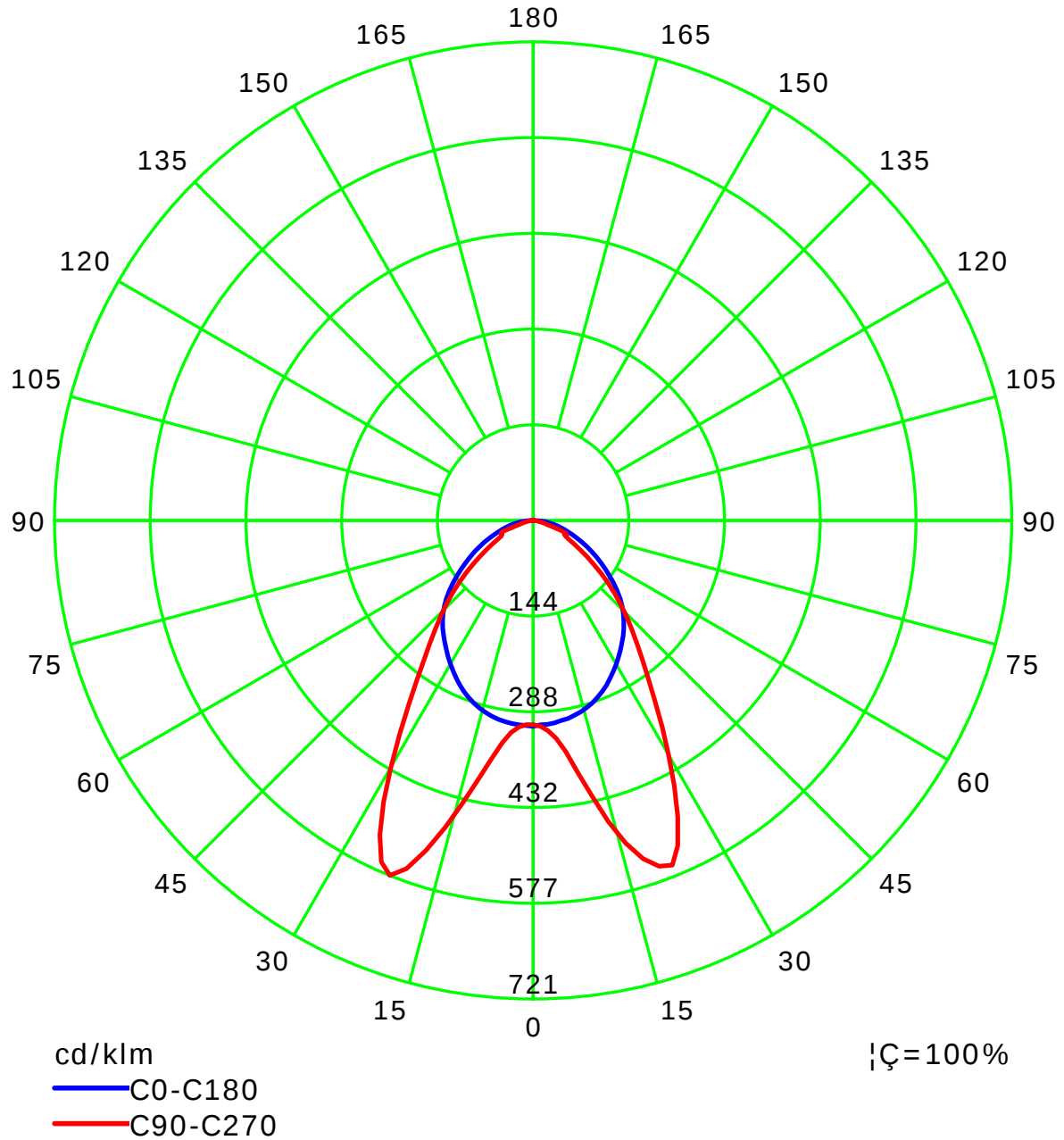
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

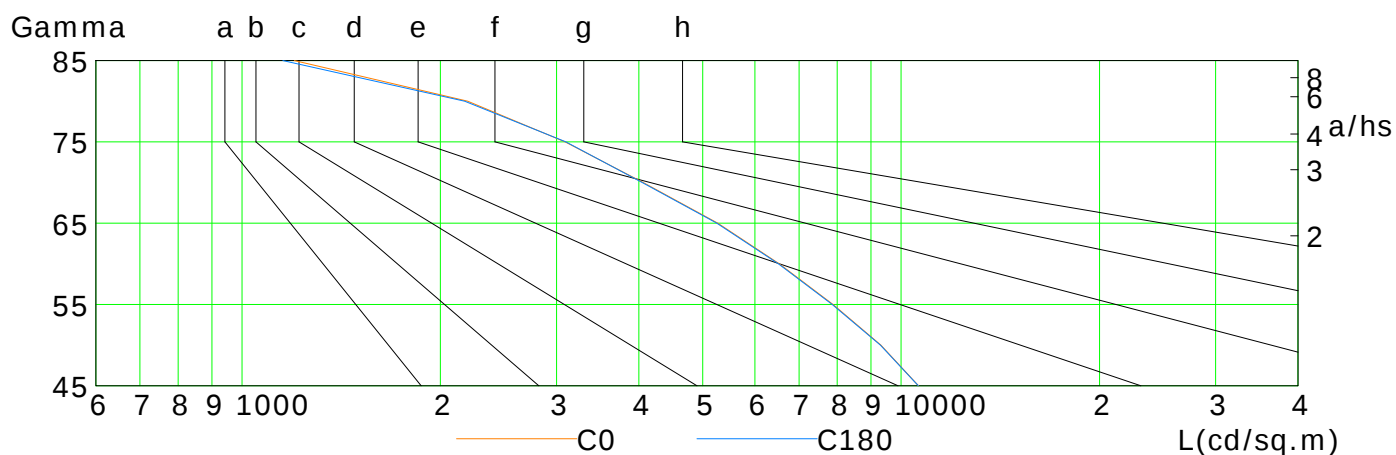
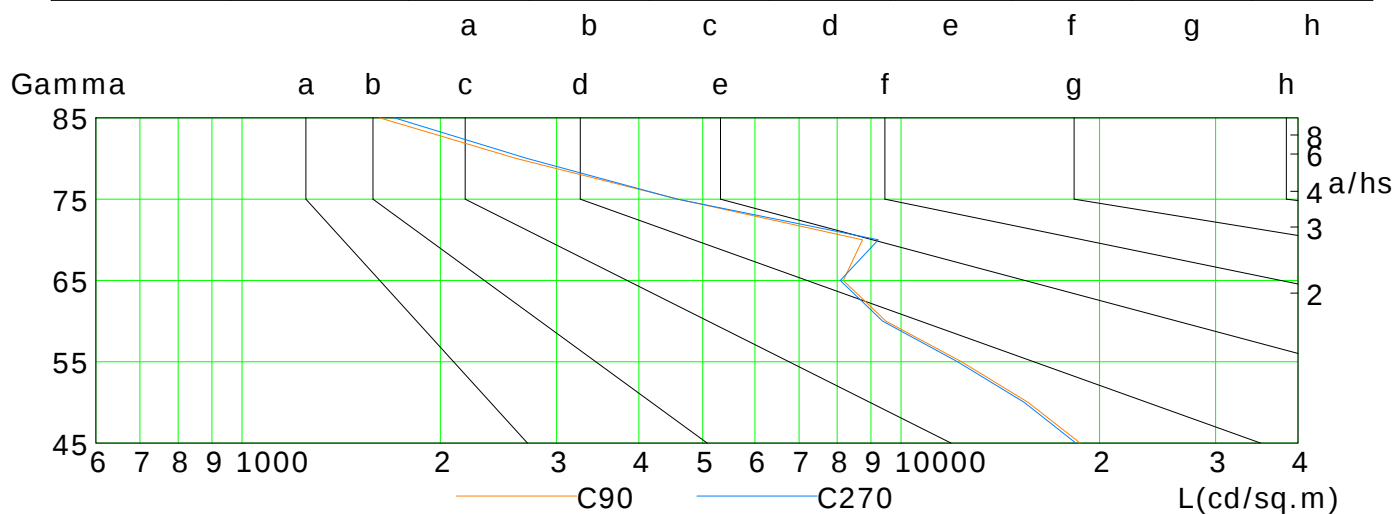
Inspector:

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	10628	9319	7881	6532	5270	4061	3091	2200	1201
C90	18688	15582	12352	9478	8171	8737	4587	2608	1618
C180	10618	9301	7861	6515	5252	4048	3099	2177	1153
C270	18411	15374	12180	9374	8082	9233	4576	2709	1703

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

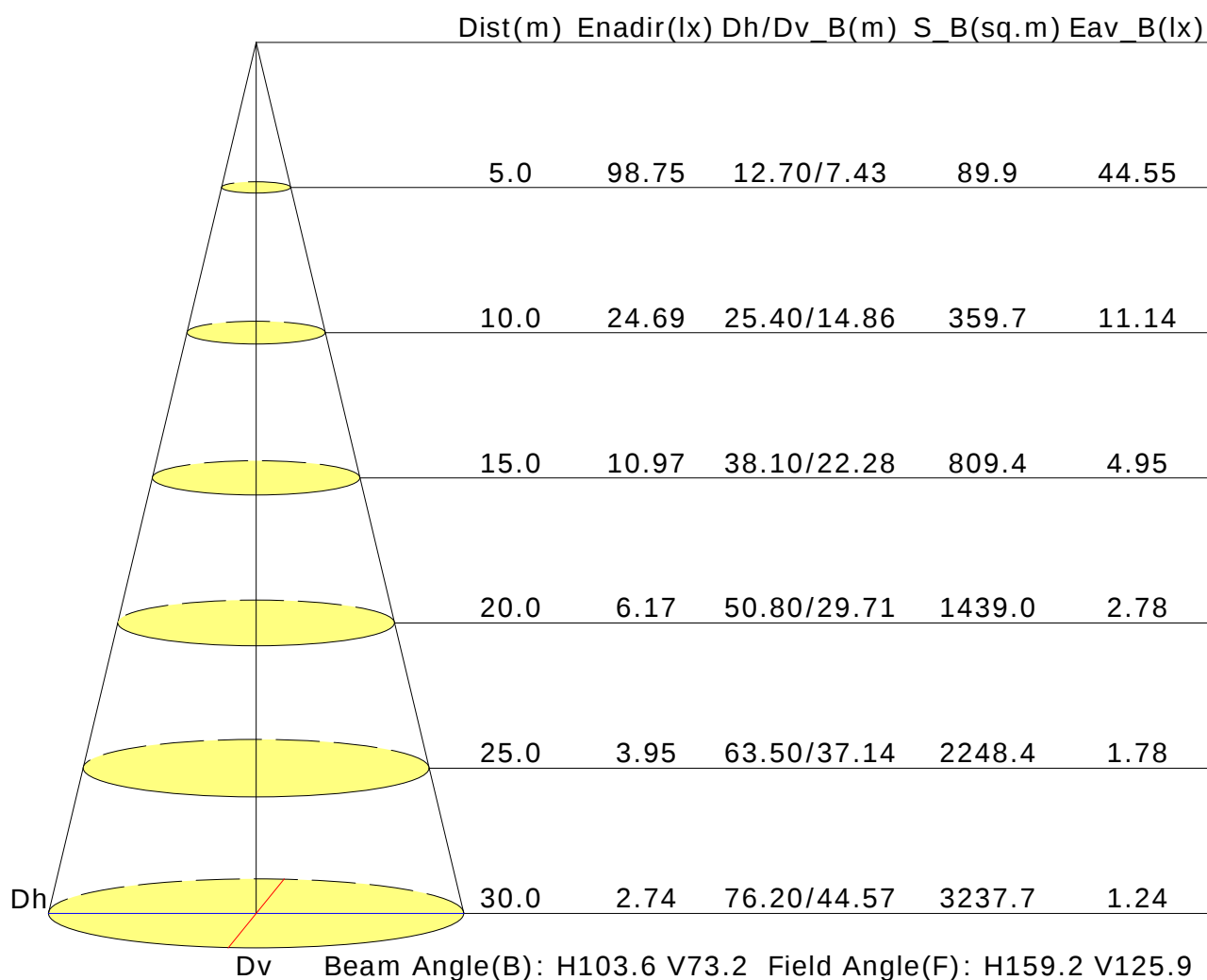
Test Device: LSG-1800B

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	21.9	21.0	22.1	22.4	19.7	20.9	20.0	21.1	21.4
3H	21.2	22.3	21.5	22.6	22.9	20.4	21.5	20.7	21.8	22.0
4H	21.4	22.4	21.7	22.7	23.0	20.5	21.6	20.9	21.9	22.2
6H	21.5	22.5	21.9	22.8	23.1	20.5	21.5	20.9	21.8	22.1
8H	21.5	22.5	21.9	22.8	23.1	20.5	21.5	20.9	21.8	22.1
12H	21.5	22.4	21.9	22.8	23.1	20.5	21.4	20.9	21.7	22.1
X=4H Y=2H	20.7	21.8	21.1	22.1	22.4	19.9	20.9	20.2	21.2	21.5
3H	21.4	22.4	21.8	22.7	23.0	20.7	21.6	21.1	22.0	22.3
4H	21.7	22.5	22.1	22.9	23.3	20.9	21.7	21.3	22.1	22.5
6H	21.9	22.7	22.4	23.0	23.4	21.0	21.7	21.4	22.1	22.5
8H	22.0	22.7	22.4	23.1	23.5	21.0	21.6	21.4	22.0	22.5
12H	22.0	22.6	22.5	23.0	23.5	21.0	21.5	21.4	22.0	22.4
X=8H Y=4H	21.8	22.4	22.2	22.8	23.2	21.0	21.6	21.4	22.1	22.5
6H	22.0	22.6	22.5	23.0	23.5	21.1	21.6	21.6	22.1	22.5
8H	22.2	22.6	22.6	23.1	23.6	21.1	21.6	21.6	22.0	22.5
12H	22.2	22.6	22.7	23.1	23.6	21.1	21.5	21.6	22.0	22.5
X=12H Y=4H	21.7	22.3	22.2	22.7	23.2	21.0	21.6	21.4	22.0	22.4
6H	22.0	22.5	22.5	23.0	23.4	21.1	21.6	21.6	22.0	22.5
8H	22.1	22.5	22.6	23.0	23.5	21.1	21.5	21.6	22.0	22.5
Variations with the observer position at spacings:										
S=1.0H	+0.9/-0.9					+0.7/-0.8				
S=1.5H	+1.5/-1.7					+1.3/-2.2				
S=2.0H	+2.7/-2.4					+2.7/-2.3				

Calculate in accordance with CIE Pub.117. The table is revised with 7953lm ($8\log(F/F_0) = 7.2$).

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
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	0.70	0.78	0.84	0.88	0.94	0.98	1.01	1.04	1.06	
	0.30		0.64	0.71	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
	0.20		0.59	0.67	0.74	0.78	0.85	0.90	0.93	0.98	1.01	
0.50	0.50	0.20	0.68	0.76	0.82	0.86	0.91	0.95	0.97	1.00	1.02	
	0.30		0.63	0.70	0.77	0.81	0.87	0.91	0.94	0.98	1.00	
	0.20		0.59	0.66	0.73	0.77	0.84	0.88	0.91	0.95	0.98	
0.30	0.50	0.20	0.67	0.74	0.79	0.83	0.88	0.91	0.94	0.97	0.98	
	0.30		0.62	0.69	0.75	0.79	0.85	0.89	0.91	0.94	0.97	
	0.20		0.58	0.65	0.72	0.76	0.82	0.86	0.89	0.93	0.95	
0.00	0.00	0.00	0.56	0.63	0.69	0.73	0.79	0.82	0.85	0.88	0.90	
Rating:51W 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 = 1.50									
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	0.79	0.66	0.55	0.48	0.38	0.31	0.27	0.21	0.17	
	0.30		0.66	0.56	0.48	0.42	0.34	0.29	0.25	0.19	0.16	
	0.20		0.57	0.49	0.43	0.38	0.31	0.26	0.23	0.18	0.15	
0.50	0.50	0.20	0.76	0.63	0.53	0.45	0.36	0.33	0.25	0.19	0.16	
	0.30		0.64	0.55	0.46	0.41	0.33	0.27	0.23	0.18	0.15	
	0.20		0.56	0.48	0.42	0.37	0.30	0.25	0.22	0.17	0.14	
0.30	0.50	0.20	0.74	0.60	0.50	0.43	0.34	0.28	0.24	0.18	0.15	
	0.30		0.63	0.53	0.45	0.39	0.31	0.26	0.22	0.17	0.14	
	0.20		0.55	0.47	0.41	0.36	0.29	0.24	0.21	0.17	0.14	
0.00	0.00	0.00	0.43	0.36	0.30	0.26	0.21	0.17	0.15	0.11	0.09	
Rating:51W 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 = 1.50									
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	0.15	0.17	0.17	0.18	0.19	0.20	0.21	0.21	0.22	
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rating:51W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												