

Report No.:

Test Time: 25.03.2020 21:47

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 60LED 32W 4000K 96x55 gr.

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 229.3 V

Current: 0.146 A

Power: 31.96 W

Power Factor: 0.957

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 4263.6 lm

Measurement Flux: 4263.6 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 133.6, 113.3, 112.2, 112.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 94.6, 52.2, 61.2, 61.3

Luminaire Efficacy Rating (LER): 133.45

Central Intensity: 3034.42 cd

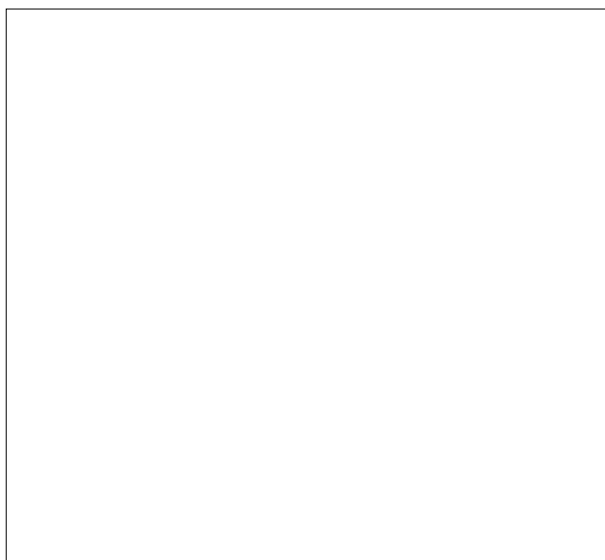
Max. Intensity: 3042.85 cd

Pos of Max. Intensity: H45 V2

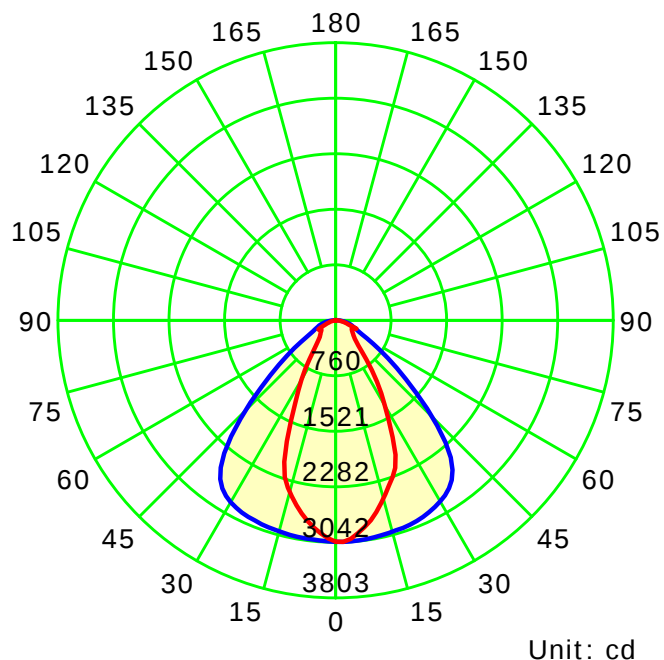
S/MH(C0/C180): 1.39

S/MH(C90/C270): 0.83

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

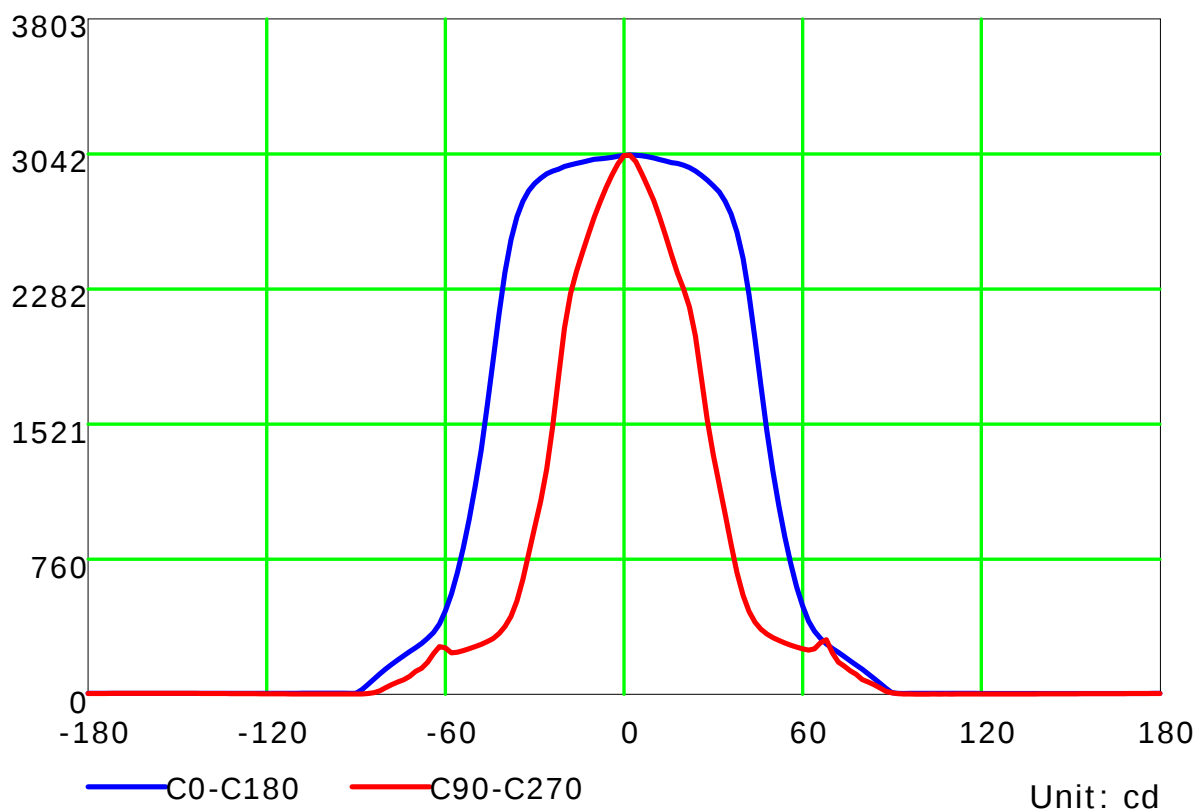
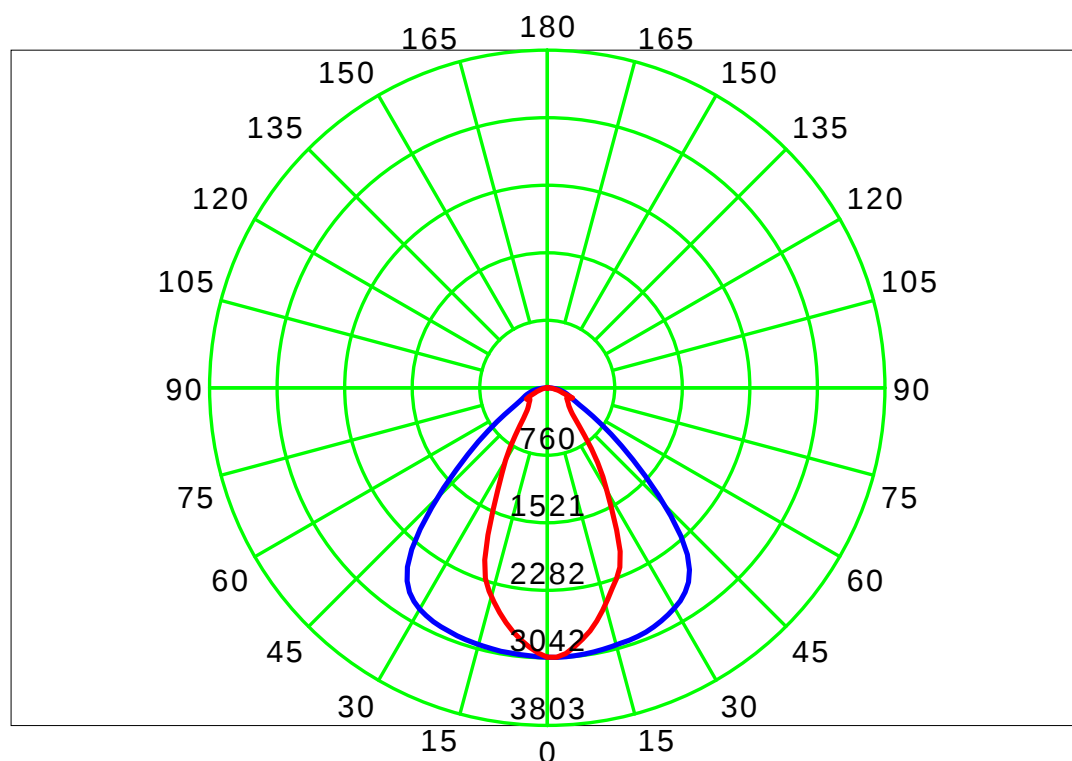
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

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Temperature:

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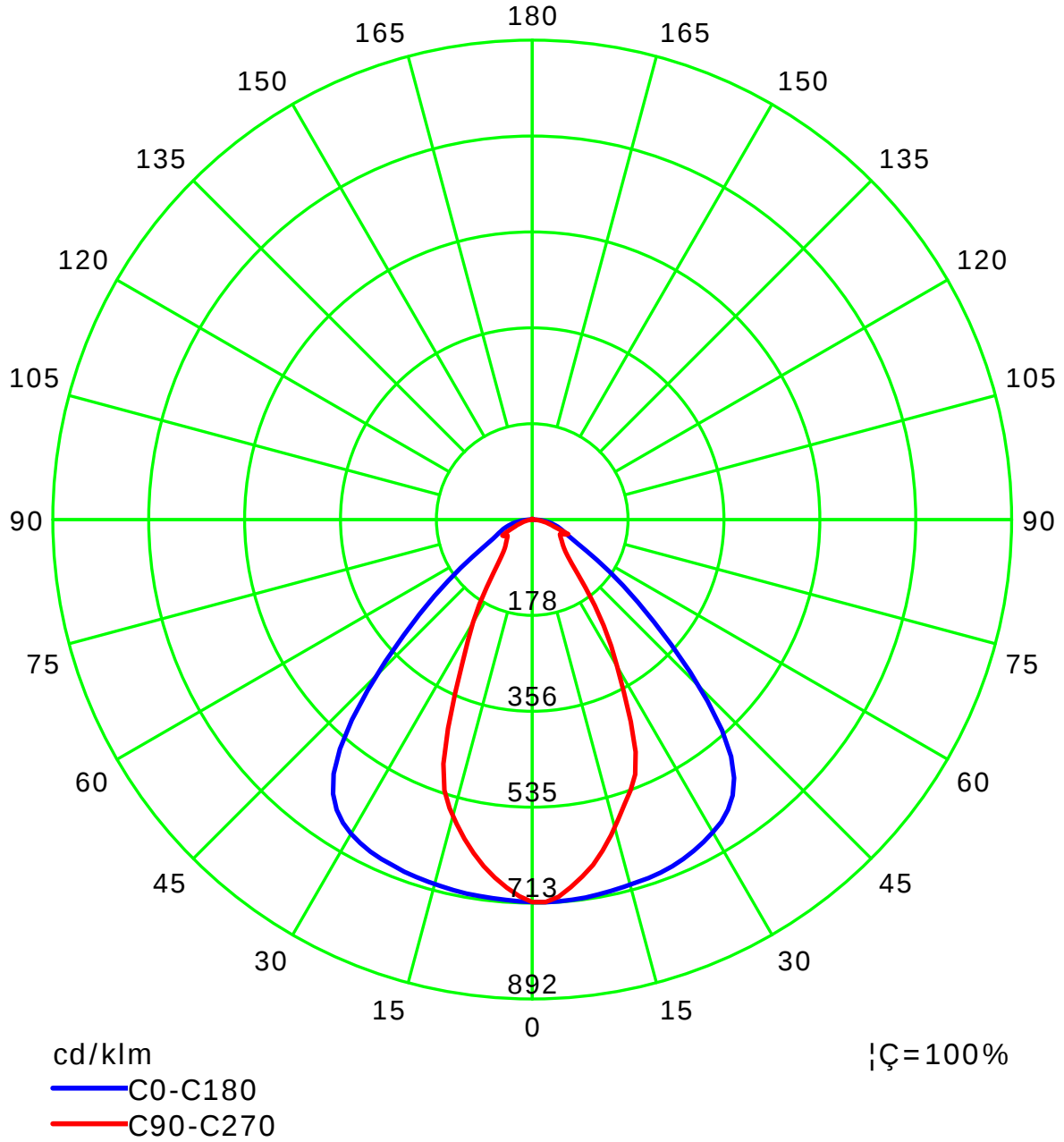
Test Device: LSG-1800B

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:

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Test Device: LSG-1800B

Distance: 12.677 m

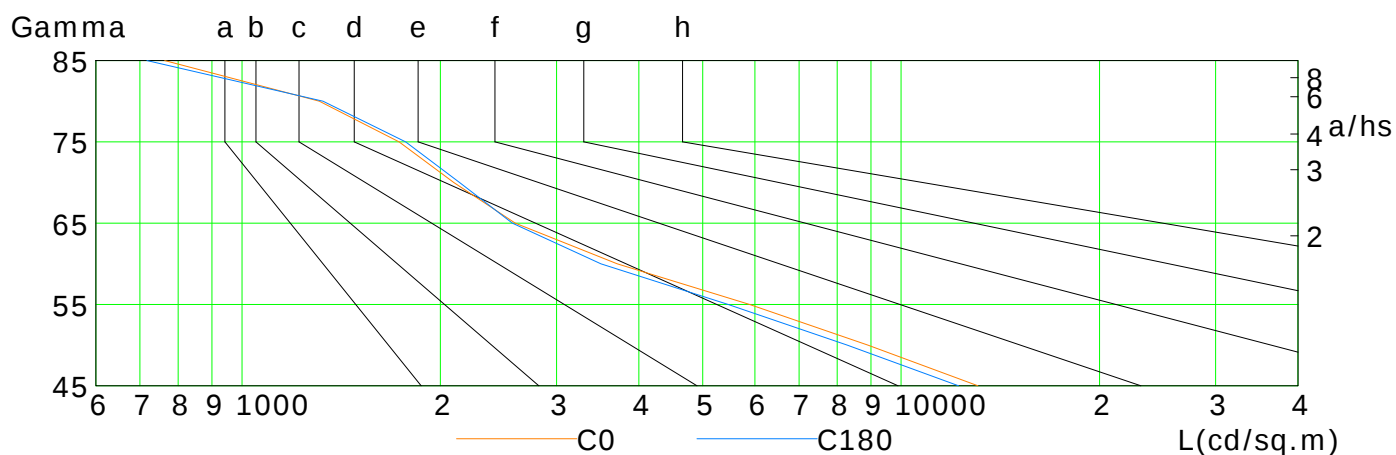
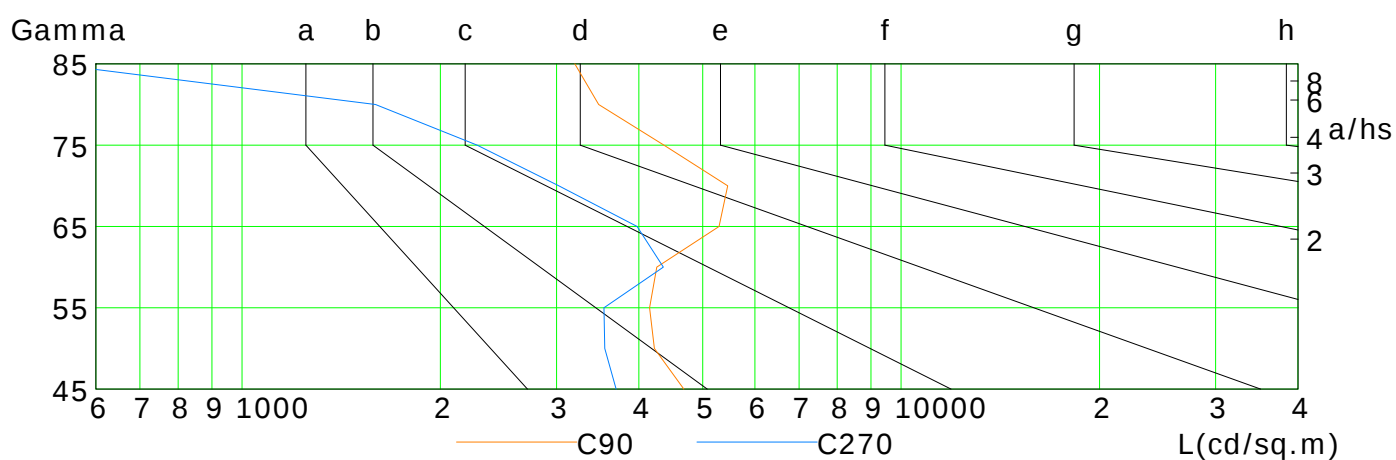
Humidity:

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	13075	8906	5891	3709	2597	2096	1731	1310	763
C90	4681	4222	4154	4259	5292	5456	4367	3477	3199
C180	12222	8285	5464	3505	2572	2139	1771	1327	717
C270	3694	3552	3542	4357	3976	3024	2274	1595	515

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

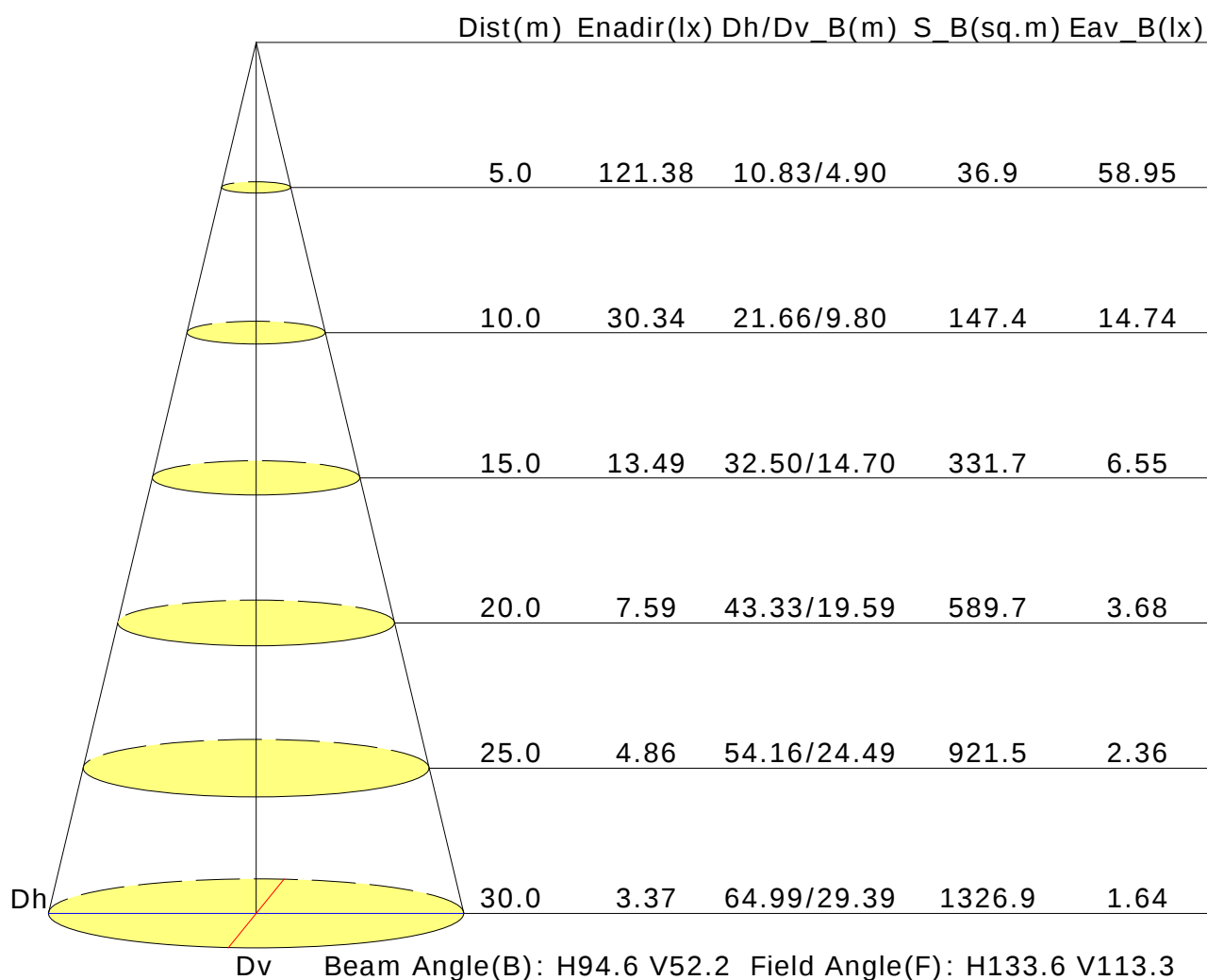
Test Device: LSG-1800B

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	17.7	18.8	18.0	19.1	19.3	14.1	15.2	14.4	15.4	15.7
3H	18.2	19.2	18.5	19.5	19.7	16.0	17.0	16.3	17.3	17.6
4H	18.4	19.4	18.8	19.7	20.0	16.5	17.5	16.9	17.8	18.1
6H	18.6	19.5	19.0	19.8	20.2	16.9	17.8	17.3	18.1	18.4
8H	18.7	19.6	19.1	19.9	20.2	17.0	17.9	17.4	18.2	18.5
12H	18.7	19.6	19.1	19.9	20.2	17.1	17.9	17.4	18.2	18.6
X=4H Y=2H	17.7	18.7	18.1	19.0	19.3	14.6	15.5	14.9	15.8	16.1
3H	18.4	19.2	18.8	19.6	19.9	16.6	17.5	17.0	17.8	18.1
4H	18.8	19.5	19.2	19.9	20.2	17.2	18.0	17.6	18.3	18.7
6H	19.1	19.7	19.5	20.1	20.5	17.7	18.3	18.1	18.7	19.1
8H	19.2	19.8	19.6	20.2	20.6	17.8	18.4	18.3	18.8	19.2
12H	19.2	19.8	19.7	20.2	20.7	17.9	18.4	18.4	18.9	19.3
X=8H Y=4H	18.8	19.4	19.3	19.9	20.3	17.4	18.0	17.9	18.4	18.9
6H	19.3	19.7	19.7	20.2	20.7	17.9	18.4	18.4	18.9	19.3
8H	19.4	19.8	19.9	20.3	20.8	18.1	18.5	18.6	19.0	19.5
12H	19.5	19.9	20.0	20.4	20.9	18.2	18.6	18.7	19.1	19.6
X=12H Y=4H	18.8	19.4	19.3	19.8	20.2	17.4	18.0	17.9	18.4	18.8
6H	19.3	19.7	19.7	20.1	20.6	18.0	18.4	18.5	18.9	19.3
8H	19.4	19.8	19.9	20.3	20.8	18.2	18.5	18.7	19.0	19.5
Variations with the observer position at spacings:										
S=1.0H	+1.2/-1.1					+0.4/-0.4				
S=1.5H	+2.8/-1.9					+0.6/-0.7				
S=2.0H	+4.4/-2.5					+0.8/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4264lm ($8\log(F/F_0) = 5.0$).

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 = 1.00									
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	0.79	0.84	0.89	0.94	0.98	1.01	1.04	1.07	
	0.30		0.64	0.73	0.79	0.83	0.89	0.94	0.97	1.01	1.04	
	0.20		0.59	0.68	0.74	0.79	0.85	0.90	0.93	0.98	1.01	
0.50	0.50	0.20	0.69	0.77	0.82	0.86	0.91	0.95	0.97	1.00	1.02	
	0.30		0.63	0.71	0.77	0.81	0.87	0.91	0.94	0.98	1.00	
	0.20		0.59	0.67	0.73	0.77	0.84	0.88	0.91	0.95	0.98	
0.30	0.50	0.20	0.67	0.75	0.80	0.83	0.88	0.92	0.94	0.97	0.98	
	0.30		0.62	0.70	0.76	0.80	0.85	0.89	0.91	0.94	0.97	
	0.20		0.58	0.67	0.72	0.76	0.82	0.86	0.89	0.93	0.95	
0.00	0.00	0.00	0.57	0.64	0.70	0.73	0.79	0.82	0.85	0.88	0.90	
Rating:32W 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 = 1.00									
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	0.80	0.65	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.30		0.66	0.56	0.48	0.42	0.34	0.29	0.25	0.20	0.16	
	0.20		0.57	0.49	0.43	0.38	0.31	0.27	0.23	0.19	0.16	
0.50	0.50	0.20	0.76	0.62	0.52	0.46	0.36	0.33	0.25	0.20	0.16	
	0.30		0.65	0.54	0.46	0.41	0.33	0.28	0.24	0.19	0.15	
	0.20		0.56	0.48	0.42	0.37	0.30	0.26	0.22	0.18	0.15	
0.30	0.50	0.20	0.74	0.59	0.50	0.43	0.34	0.28	0.24	0.18	0.15	
	0.30		0.63	0.52	0.45	0.39	0.31	0.26	0.23	0.18	0.15	
	0.20		0.55	0.47	0.40	0.36	0.29	0.25	0.21	0.17	0.14	
0.00	0.00	0.00	0.43	0.35	0.30	0.26	0.21	0.18	0.15	0.12	0.10	
Rating:32W 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 = 1.00									
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	0.18	0.18	0.20	0.20	0.21	0.22	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	0.08	0.09	0.11	0.13	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	0.21	0.21	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	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	0.19	0.19	0.20	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	0.08	0.09	0.10	0.12	0.13	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:32W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												