

Report No.:

Test Time: 30.04.2020 14:33

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 200LED 62W Refond 3N 3000K 104x90 rp

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 229.0 V

Current: 0.276 A

Power: 62.47 W

Power Factor: 0.990

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 9402.2 lm

Measurement Flux: 9402.2 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 161.2, 128.4, 137.9, 138.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.2, 87.2, 87.6, 86.9

Luminaire Efficacy Rating (LER): 150.56

Central Intensity: 4361.04 cd

Max. Intensity: 4455.67 cd

Pos of Max. Intensity: H112.5 V2

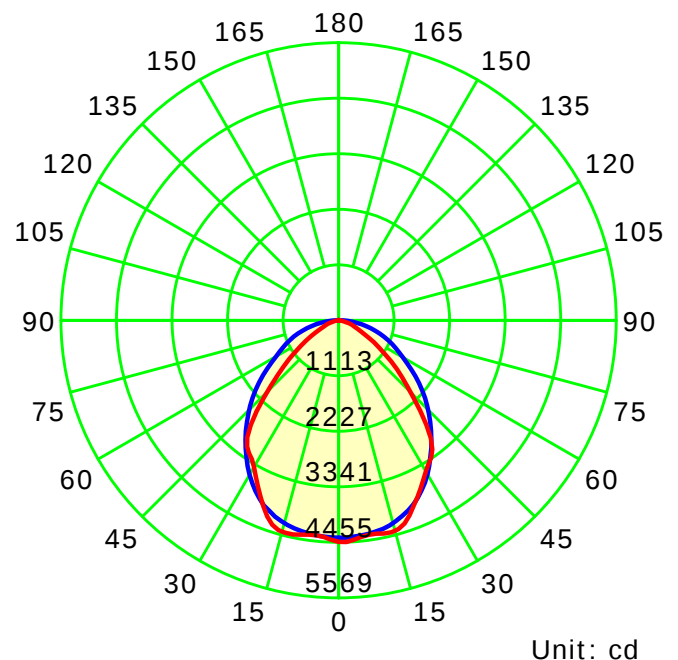
S/MH(C0/C180): 1.21

S/MH(C90/C270): 1.16

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 (°):0.0-180.0:2.0

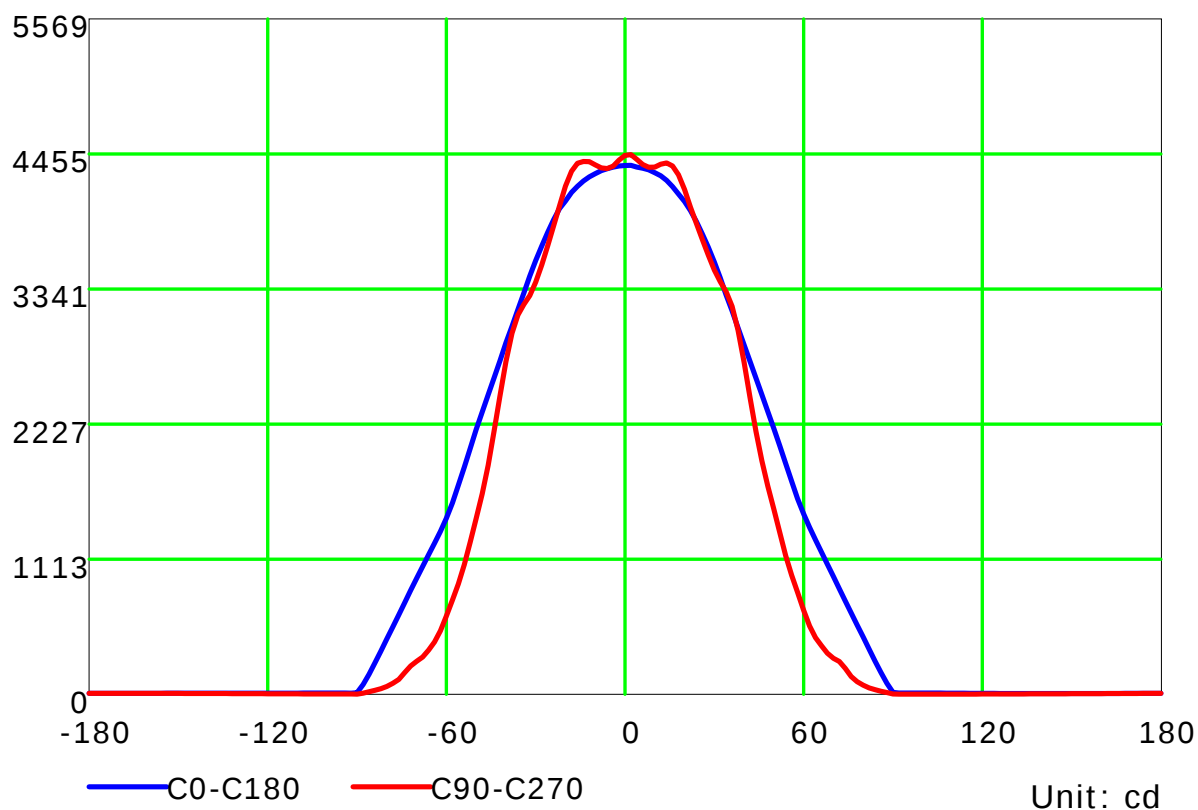
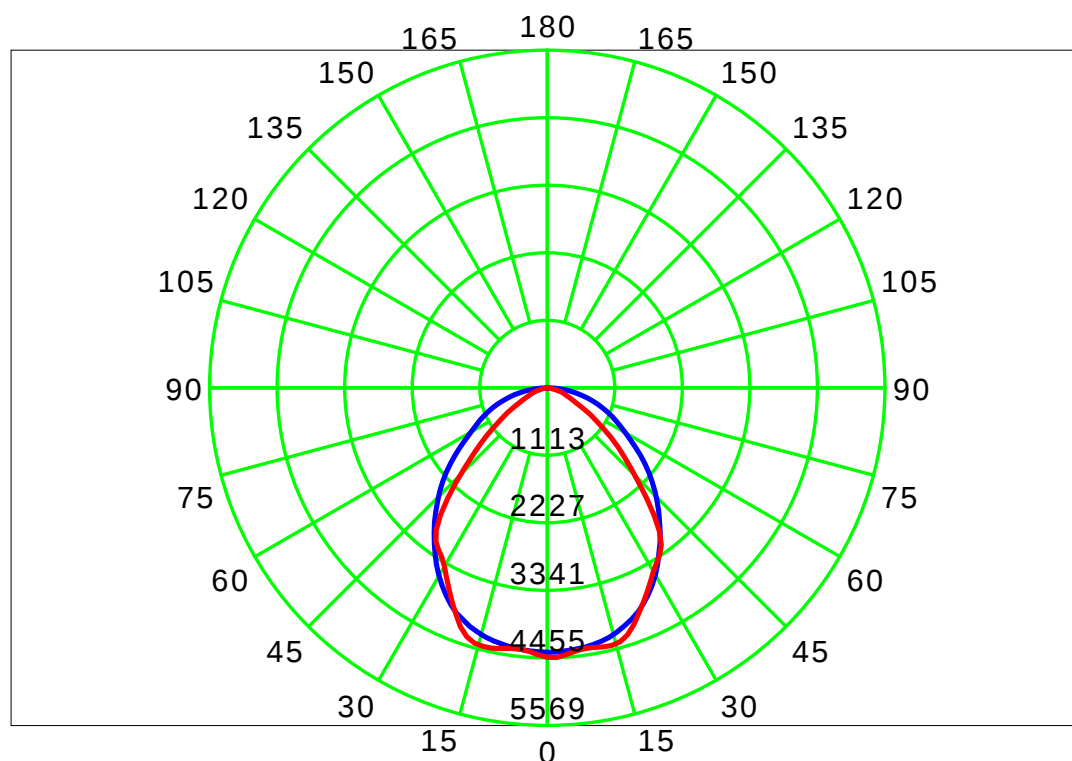
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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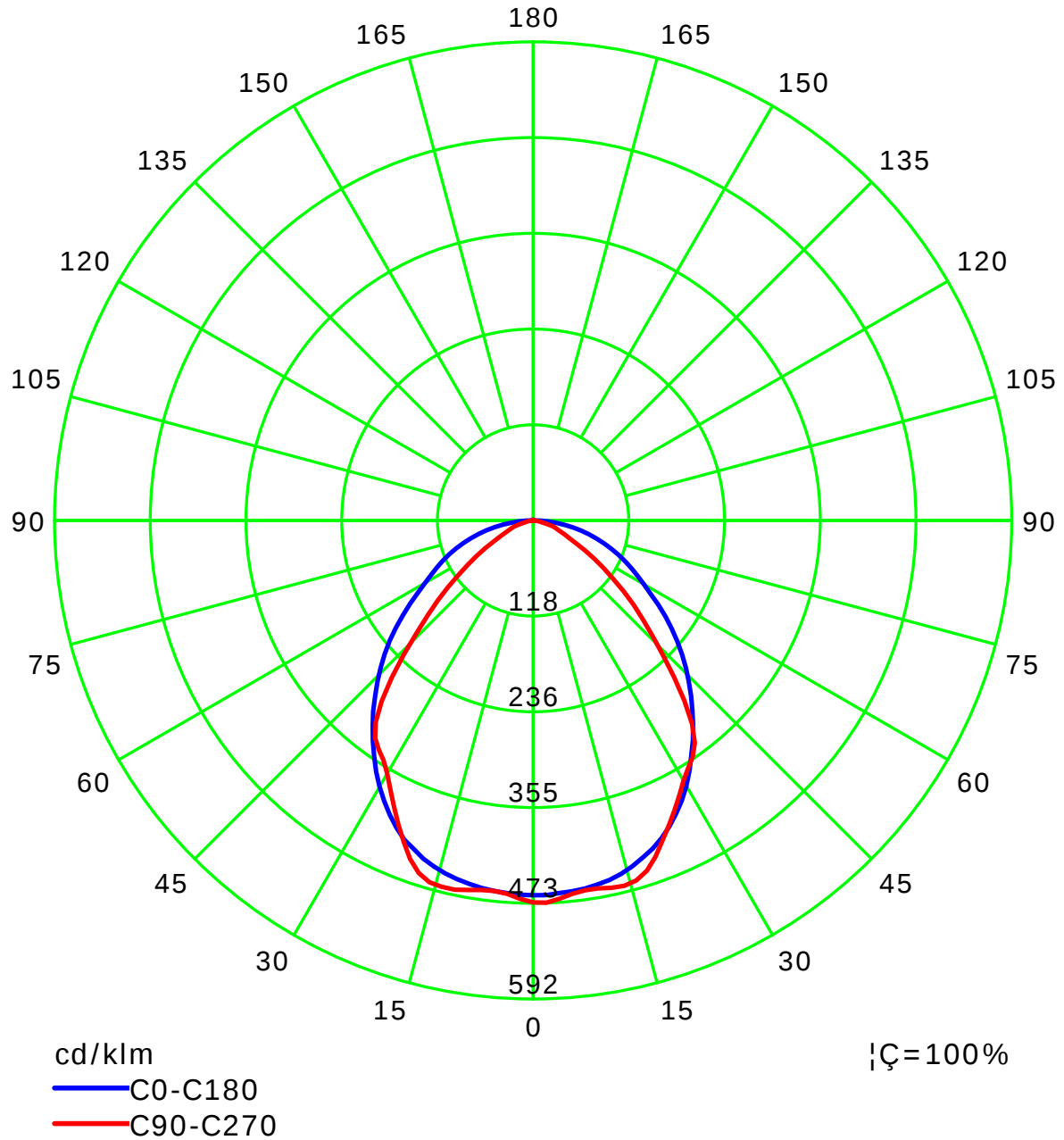
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Distance: 12.677 m

Humidity:

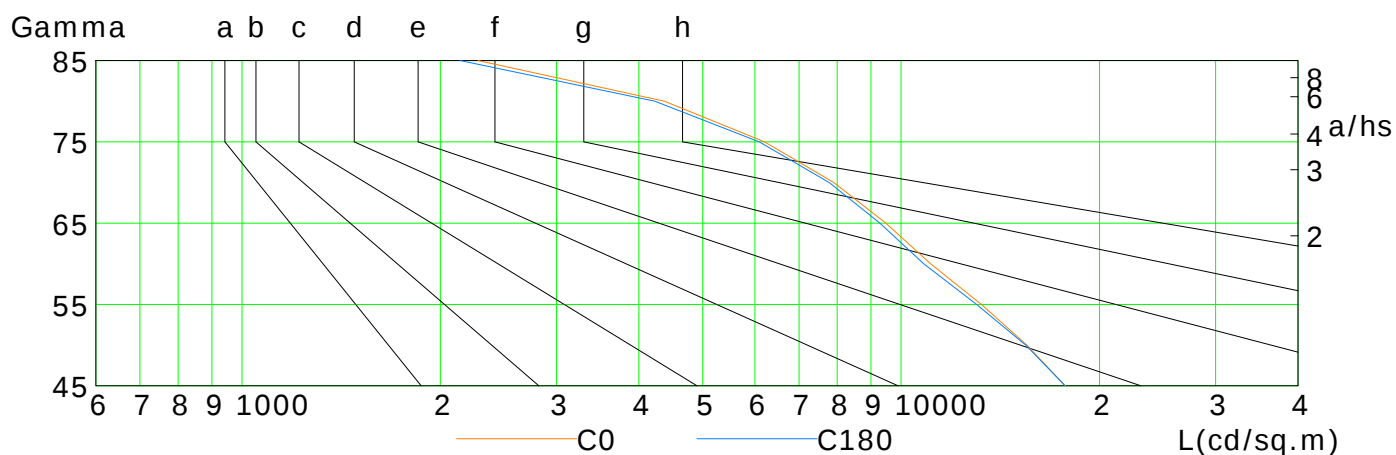
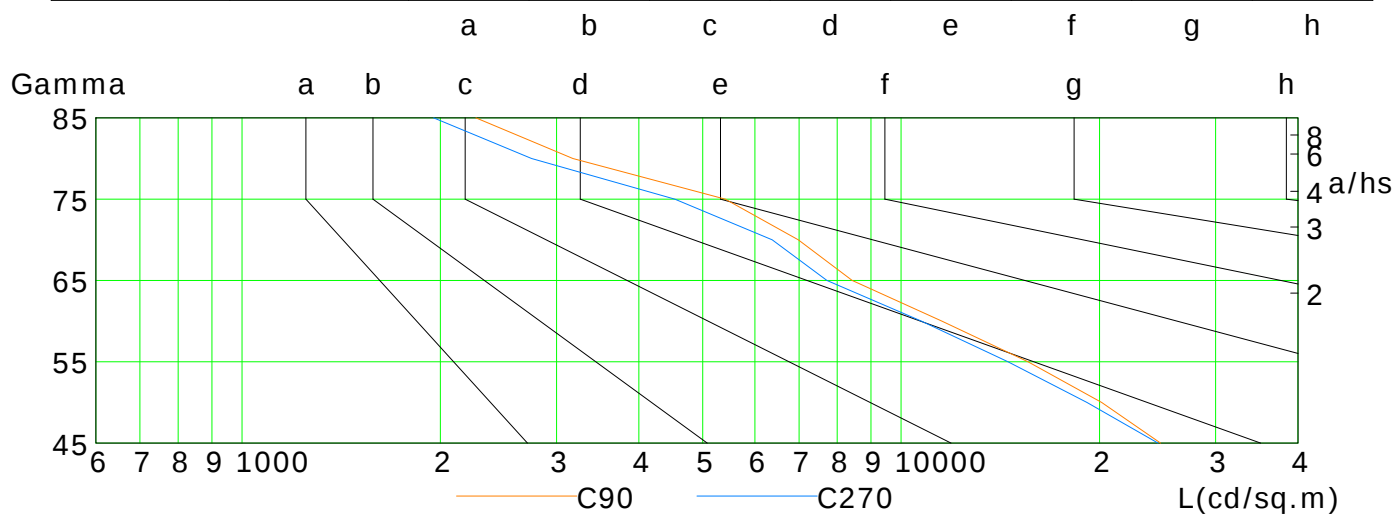
Inspector:

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	17738	15515	13236	11088	9479	7903	6206	4375	2281
C90	24755	20151	15576	11532	8428	6980	5410	3177	2263
C180	17739	15454	13015	10824	9285	7776	6091	4229	2143
C270	24527	19138	14521	10733	7715	6374	4537	2750	1953

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Operator:

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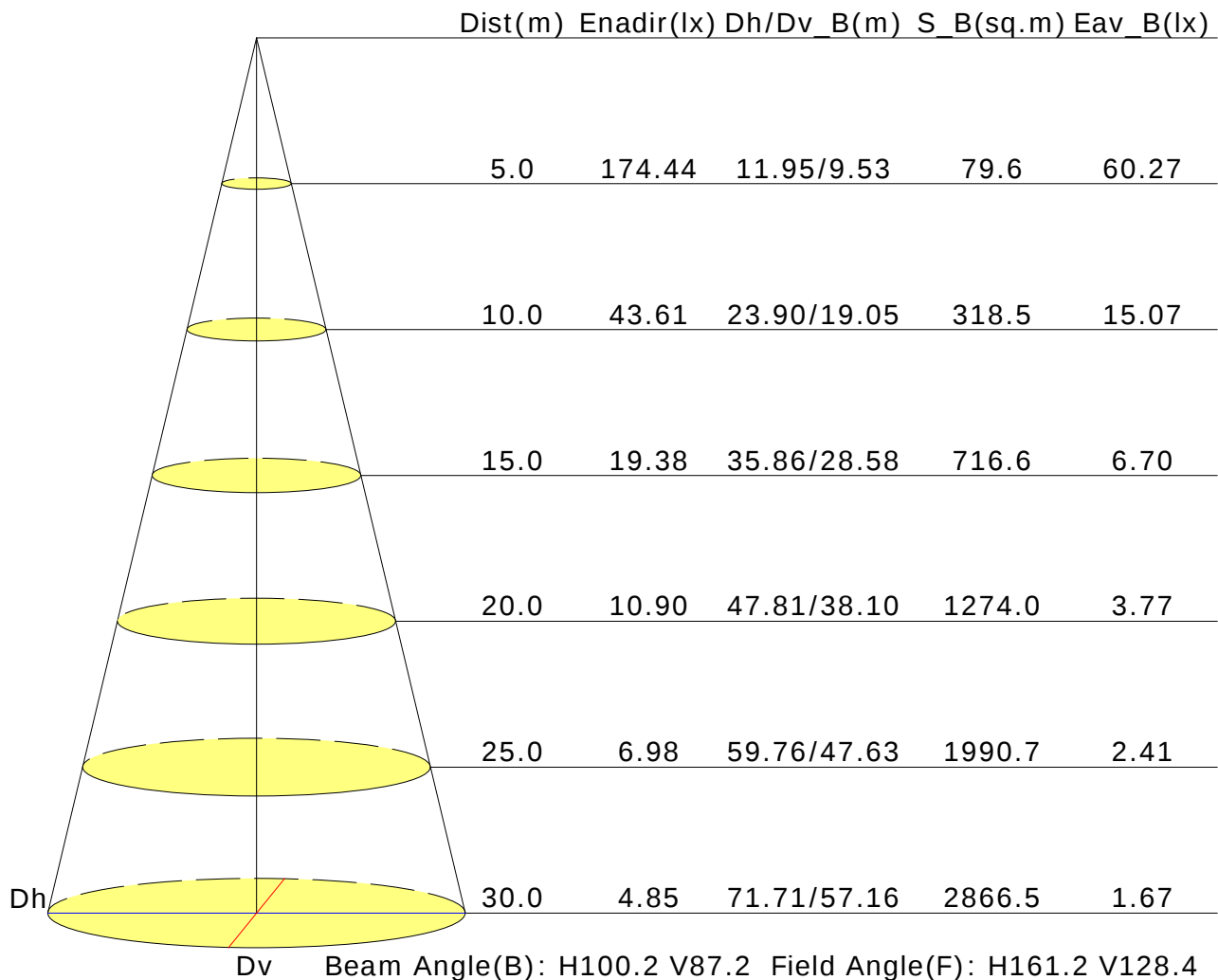
Test Device: LSG-1800B

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	20.9	22.2	21.2	22.4	22.6	20.6	21.8	20.9	22.0	22.3
3H	22.0	23.2	22.4	23.4	23.7	20.9	22.0	21.2	22.3	22.5
4H	22.5	23.5	22.8	23.8	24.1	21.0	22.0	21.3	22.3	22.6
6H	22.8	23.8	23.2	24.1	24.4	20.9	21.9	21.3	22.2	22.6
8H	22.9	23.8	23.3	24.2	24.5	20.9	21.9	21.3	22.2	22.5
12H	22.9	23.8	23.3	24.2	24.5	20.9	21.8	21.3	22.1	22.5
X=4H Y=2H	21.1	22.2	21.5	22.5	22.8	20.8	21.8	21.1	22.1	22.4
3H	22.3	23.2	22.7	23.6	23.9	21.2	22.1	21.5	22.4	22.7
4H	22.9	23.7	23.3	24.0	24.4	21.3	22.1	21.7	22.5	22.8
6H	23.3	24.0	23.7	24.4	24.8	21.3	22.0	21.8	22.4	22.8
8H	23.4	24.1	23.9	24.5	24.9	21.3	22.0	21.8	22.4	22.8
12H	23.5	24.1	23.9	24.5	24.9	21.3	21.9	21.8	22.3	22.8
X=8H Y=4H	22.9	23.5	23.3	23.9	24.3	21.3	22.0	21.8	22.4	22.8
6H	23.3	23.8	23.8	24.3	24.8	21.4	21.9	21.9	22.4	22.8
8H	23.5	24.0	24.0	24.4	24.9	21.4	21.9	21.9	22.3	22.8
12H	23.6	24.0	24.1	24.5	25.0	21.4	21.8	21.9	22.3	22.8
X=12H Y=4H	22.8	23.4	23.3	23.8	24.3	21.3	21.9	21.8	22.3	22.8
6H	23.3	23.8	23.8	24.2	24.7	21.4	21.9	21.9	22.3	22.8
8H	23.5	23.9	24.0	24.4	24.9	21.4	21.8	21.9	22.3	22.8
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.4					+0.6/-0.9				
S=1.5H	+0.7/-1.0					+1.7/-2.3				
S=2.0H	+1.5/-1.8					+3.2/-3.8				

Calculate in accordance with CIE Pub.117. The table is revised with 9402Im ($8\log(F/F_0) = 7.8$).

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Operator:

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Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25									
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	0.65	0.75	0.82	0.86	0.93	0.97	1.00	1.03	1.06	
	0.30		0.58	0.68	0.75	0.80	0.87	0.92	0.95	1.00	1.03	
	0.20		0.54	0.63	0.70	0.76	0.83	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.64	0.73	0.79	0.84	0.89	0.93	0.96	0.99	1.02	
	0.30		0.58	0.67	0.74	0.79	0.85	0.89	0.93	0.97	0.99	
	0.20		0.53	0.63	0.70	0.74	0.81	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.90	0.93	0.96	0.98	
	0.30		0.57	0.66	0.72	0.77	0.83	0.87	0.90	0.93	0.96	
	0.20		0.53	0.62	0.69	0.73	0.80	0.84	0.87	0.91	0.94	
0.00	0.00	0.00	0.51	0.60	0.66	0.70	0.76	0.80	0.83	0.87	0.89	
Rating:62W 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 = 1.25									
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	0.87	0.70	0.59	0.51	0.41	0.34	0.29	0.22	0.18	
	0.30		0.72	0.60	0.52	0.45	0.37	0.31	0.26	0.21	0.17	
	0.20		0.62	0.52	0.46	0.41	0.33	0.28	0.25	0.20	0.16	
0.50	0.50	0.20	0.83	0.67	0.56	0.49	0.38	0.35	0.27	0.21	0.17	
	0.30		0.70	0.58	0.50	0.44	0.35	0.29	0.25	0.20	0.16	
	0.20		0.61	0.52	0.45	0.40	0.32	0.27	0.24	0.19	0.16	
0.30	0.50	0.20	0.81	0.64	0.54	0.47	0.37	0.30	0.26	0.20	0.16	
	0.30		0.69	0.57	0.48	0.42	0.34	0.28	0.24	0.19	0.15	
	0.20		0.60	0.51	0.44	0.39	0.31	0.26	0.23	0.18	0.15	
0.00	0.00	0.00	0.49	0.40	0.34	0.29	0.23	0.19	0.16	0.13	0.10	
Rating:62W 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 = 1.25									
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	0.16	0.17	0.18	0.19	0.20	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		0.05	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	0.21	0.21	
	0.30		0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	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		0.05	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:62W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												