

Report No.:

Test Time: 30.04.2020 14:33

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 200LED 62W Refond 3N 5000K 104x90 rp

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 229.3 V

Current: 0.274 A

Power: 62.47 W

Power Factor: 0.993

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 10022.7 lm

Measurement Flux: 10022.7 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): 160.49

Central Intensity: 4648.82 cd

Max. Intensity: 4749.69 cd

Pos of Max. Intensity: H112.5 V2

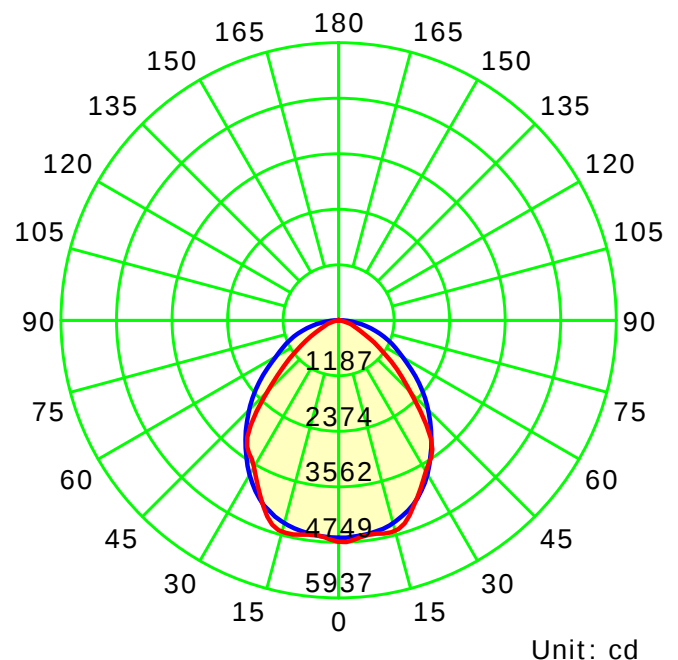
S/MH(C0/C180): 1.21

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

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

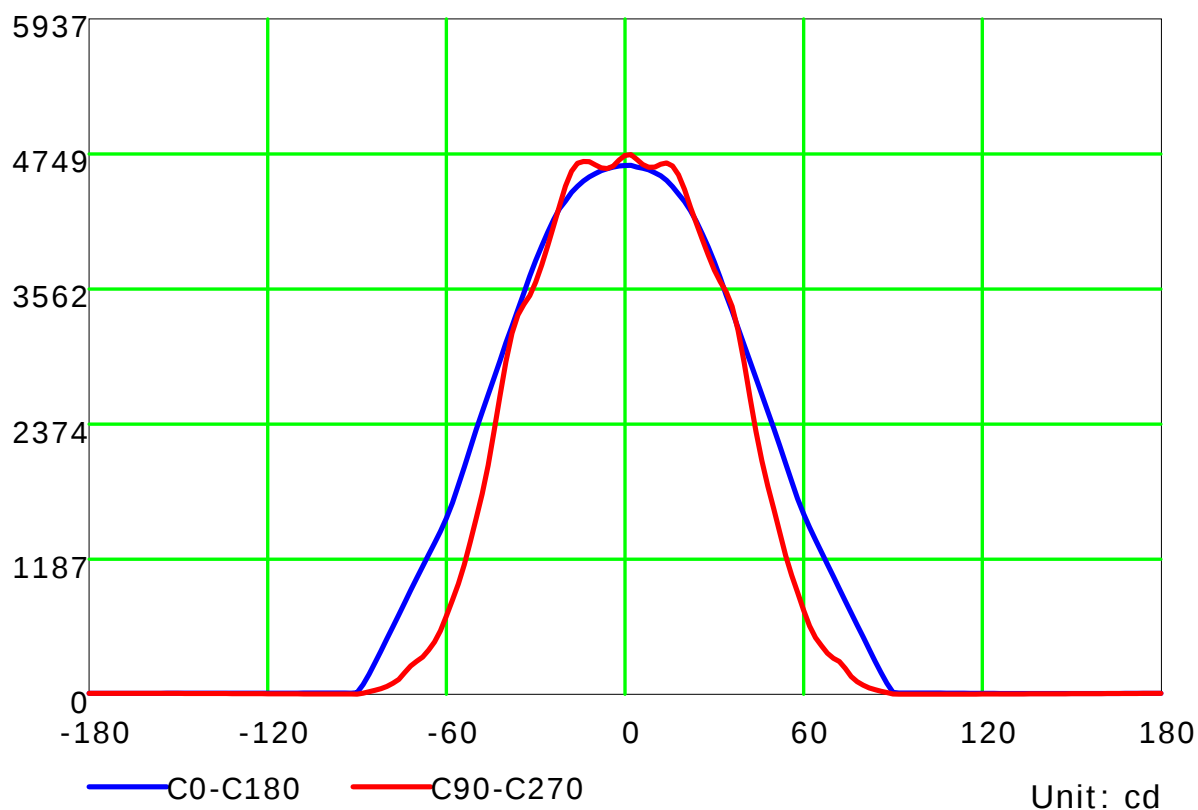
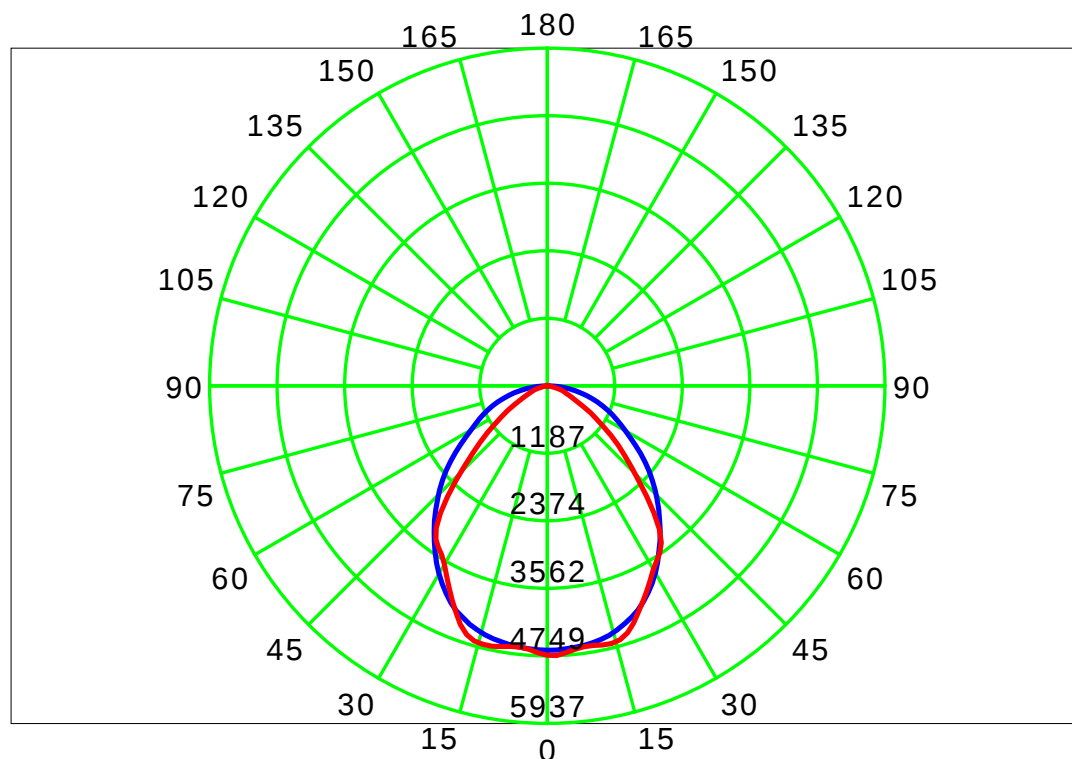
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



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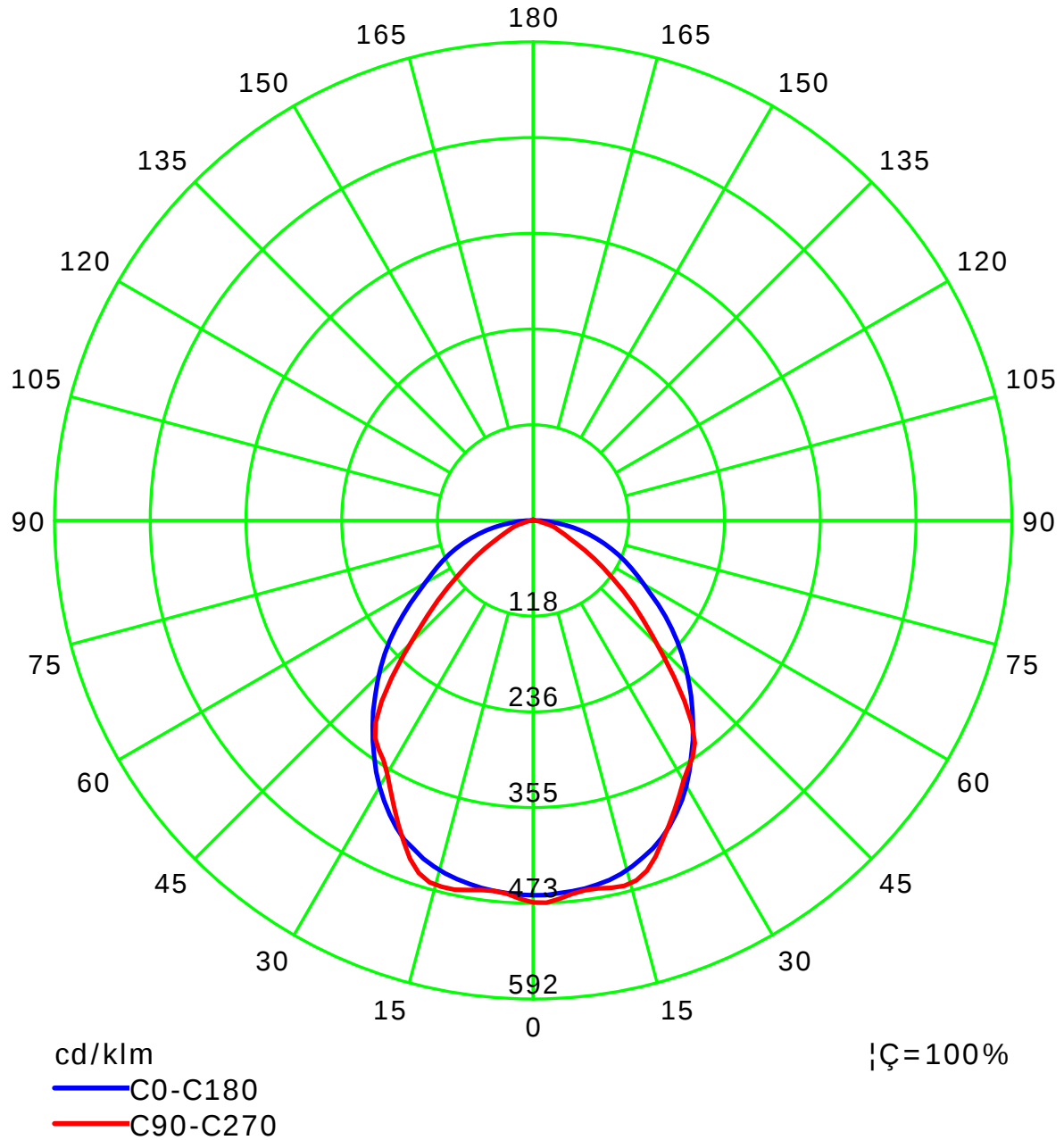
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

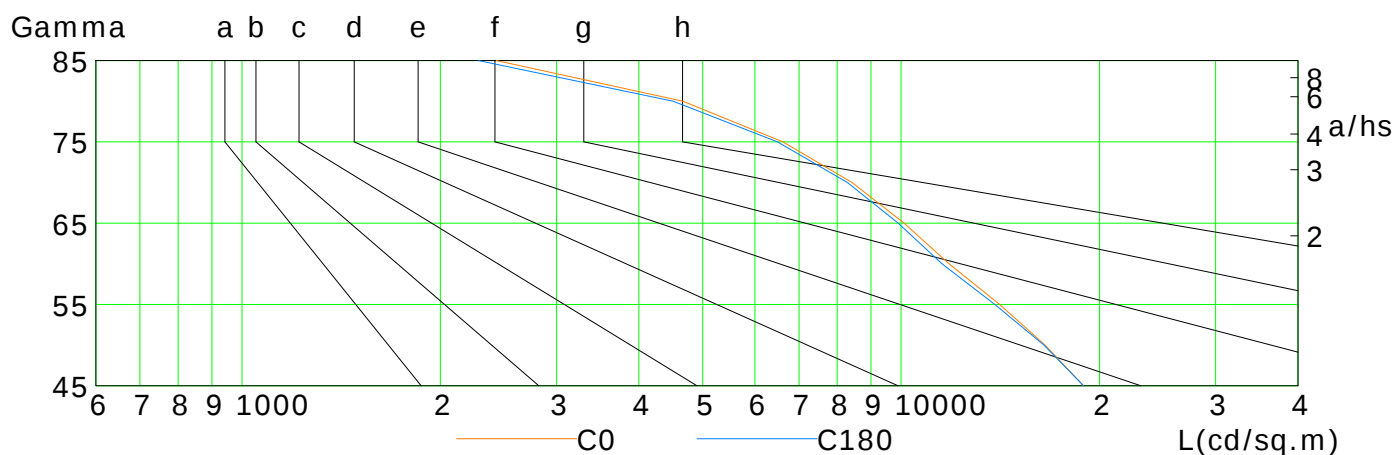
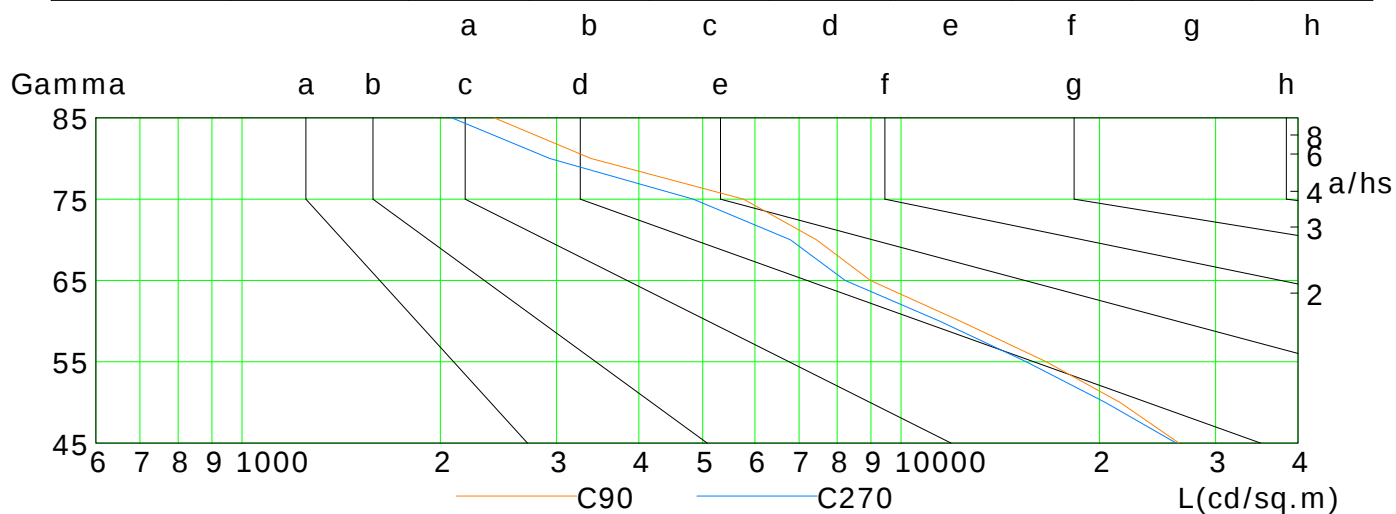
Inspector:

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	18908	16538	14109	11820	10105	8424	6615	4664	2432
C90	26388	21480	16604	12293	8984	7441	5767	3387	2413
C180	18910	16474	13874	11538	9897	8289	6493	4508	2284
C270	26145	20401	15480	11441	8224	6795	4837	2931	2082

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

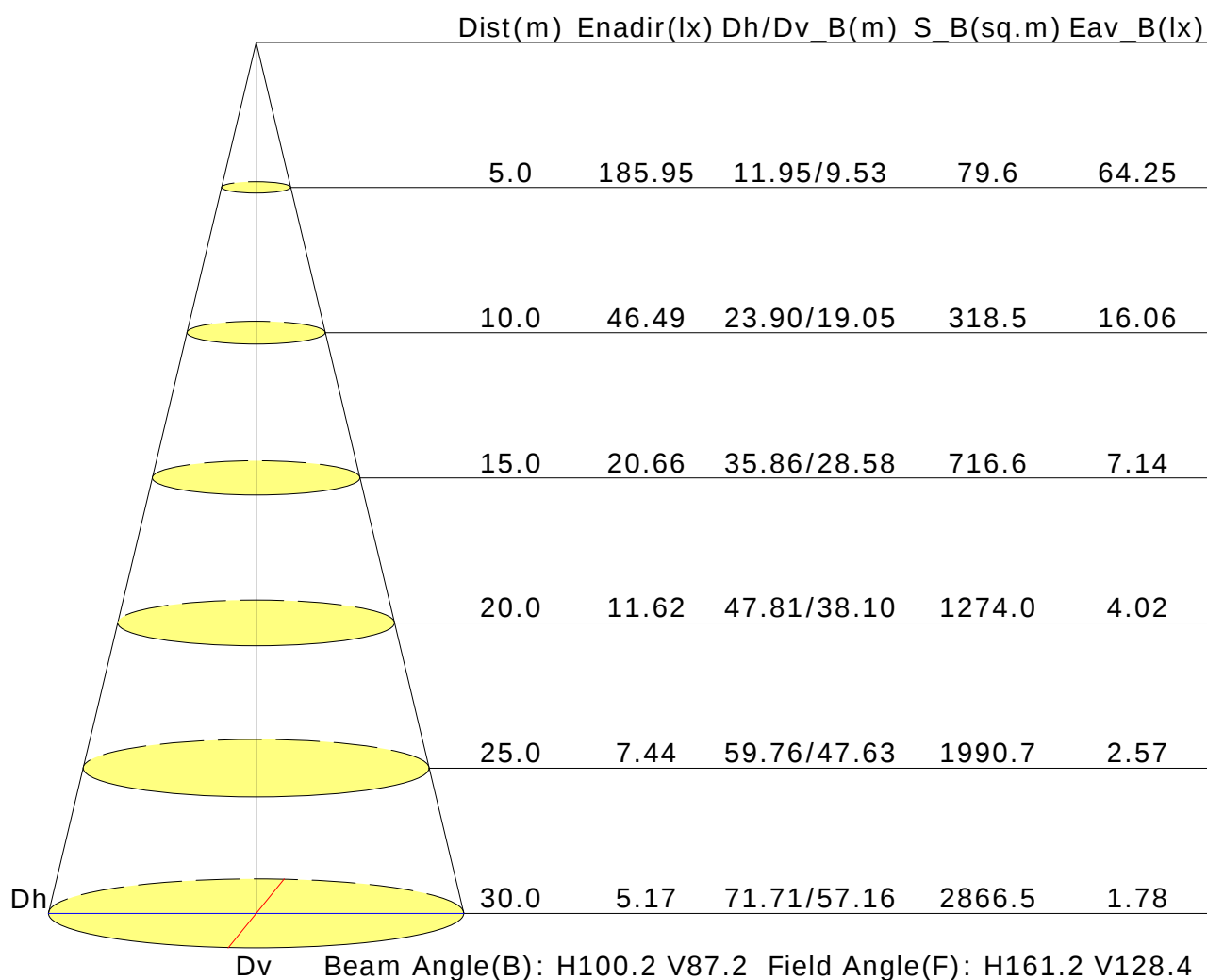
Test Device: LSG-1800B

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	21.2	22.4	21.4	22.6	22.9	20.8	22.0	21.1	22.3	22.5
3H	22.3	23.4	22.6	23.7	23.9	21.1	22.2	21.4	22.5	22.7
4H	22.7	23.8	23.1	24.1	24.4	21.2	22.2	21.5	22.5	22.8
6H	23.0	24.0	23.4	24.3	24.6	21.2	22.1	21.5	22.5	22.8
8H	23.1	24.1	23.5	24.4	24.7	21.2	22.1	21.5	22.4	22.7
12H	23.2	24.1	23.5	24.4	24.7	21.1	22.0	21.5	22.4	22.7
X=4H Y=2H	21.3	22.4	21.7	22.7	23.0	21.0	22.0	21.3	22.3	22.6
3H	22.6	23.5	22.9	23.8	24.1	21.4	22.3	21.8	22.6	23.0
4H	23.1	23.9	23.5	24.3	24.6	21.5	22.3	21.9	22.7	23.1
6H	23.5	24.2	23.9	24.6	25.0	21.5	22.3	22.0	22.6	23.1
8H	23.6	24.3	24.1	24.7	25.1	21.5	22.2	22.0	22.6	23.0
12H	23.7	24.3	24.2	24.7	25.2	21.5	22.1	22.0	22.5	23.0
X=8H Y=4H	23.1	23.7	23.5	24.1	24.6	21.6	22.2	22.0	22.6	23.0
6H	23.5	24.1	24.0	24.5	25.0	21.6	22.1	22.1	22.6	23.1
8H	23.7	24.2	24.2	24.6	25.1	21.6	22.1	22.1	22.5	23.0
12H	23.8	24.2	24.3	24.7	25.2	21.6	22.0	22.1	22.5	23.0
X=12H Y=4H	23.0	23.6	23.5	24.1	24.5	21.6	22.1	22.0	22.6	23.0
6H	23.5	24.0	24.0	24.4	24.9	21.6	22.1	22.1	22.5	23.0
8H	23.7	24.1	24.2	24.6	25.1	21.6	22.0	22.1	22.5	23.0
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 10023lm ($8\log(F/F_0) = 8.0$).

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 = 1.25									
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												