



Report No.:

Test Time: 24.04.2020 11:26

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 200LED 62W Refond 3N 3000K 2x25-90

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 228.6 V

Current: 0.277 A

Power: 62.54 W

Power Factor: 0.989

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 9576.2 lm

Measurement Flux: 9576.2 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.5, 130.9, 135.3, 135.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 103.6, 73.7, 87.3, 87.1

Luminaire Efficacy Rating (LER): 153.17

Central Intensity: 2929.78 cd

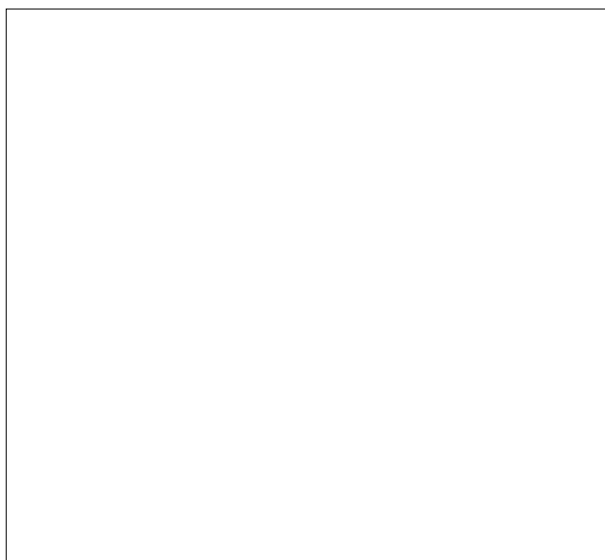
Max. Intensity: 5497.61 cd

Pos of Max. Intensity: H270 V22

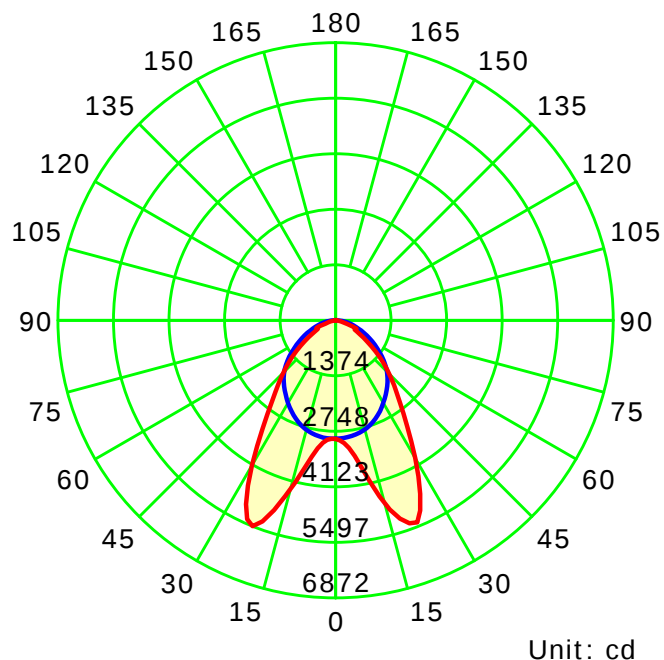
S/MH(C0/C180): 1.20

S/MH(C90/C270): 1.47

Picture Of Luminaire



Luminous Intensity Distribution Curve



— 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

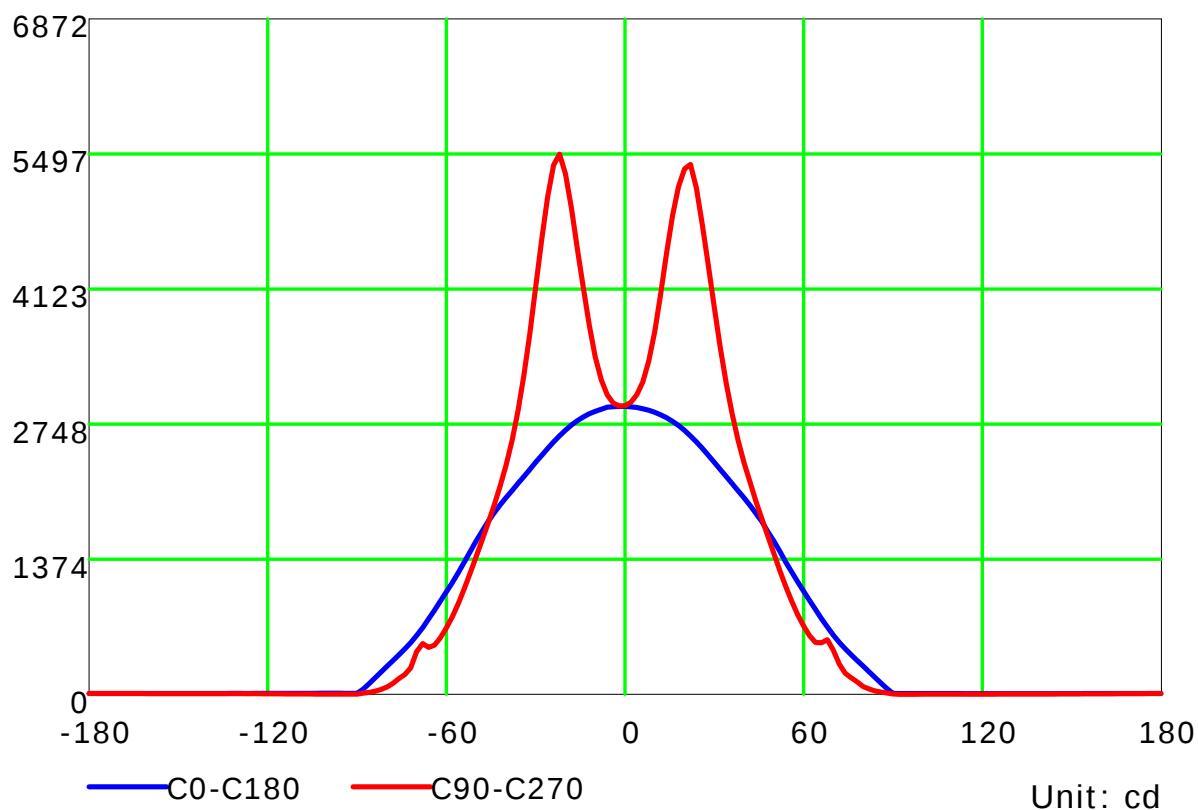
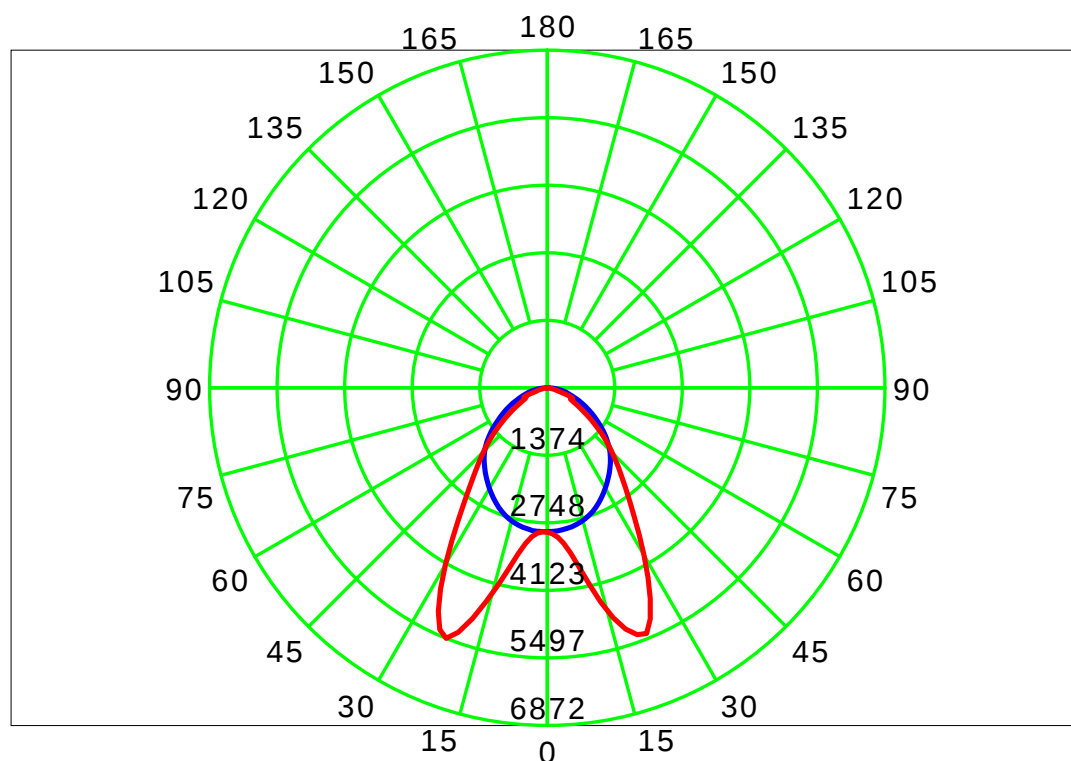
Test Device: LSG-1800B

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:

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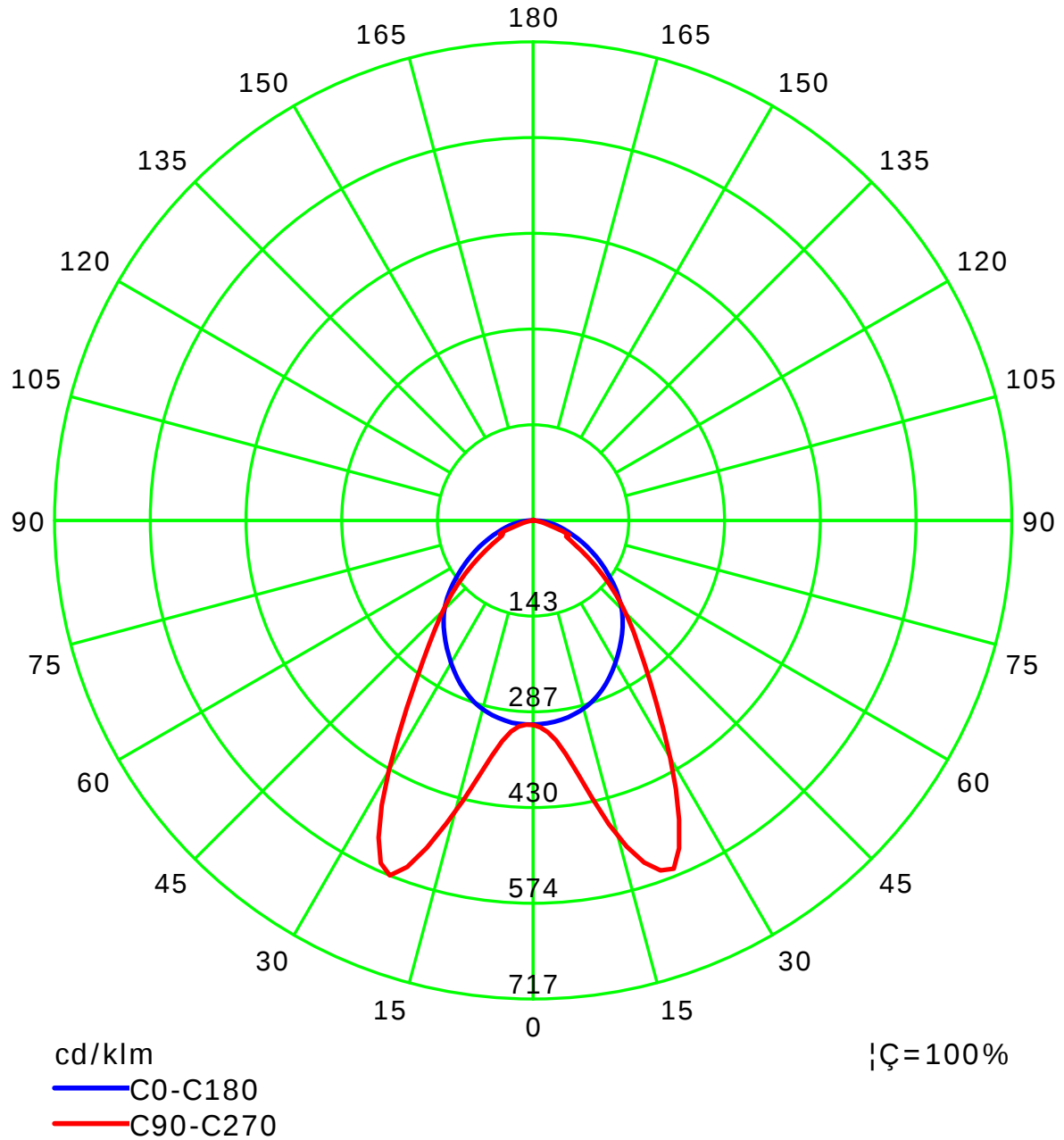
Test Device: LSG-1800B

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

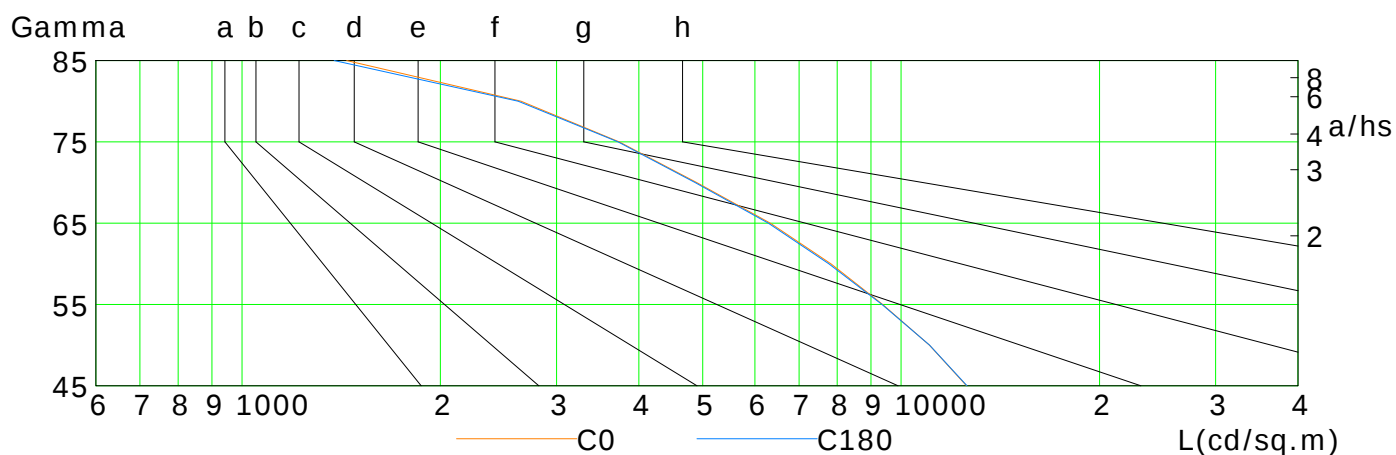
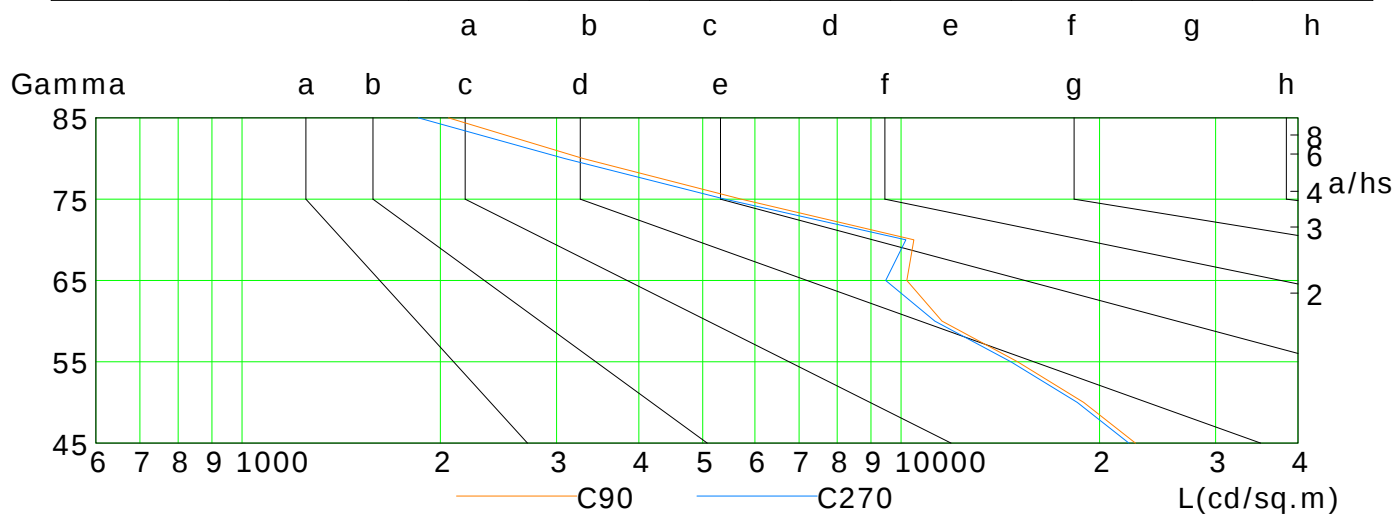
Distance: 12.677 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	12567	11038	9375	7824	6331	4896	3734	2650	1441
C90	22673	18925	15020	11536	10203	10457	5721	3293	2057
C180	12589	11045	9355	7767	6288	4867	3719	2624	1380
C270	22160	18500	14669	11247	9476	10167	5403	3087	1852

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

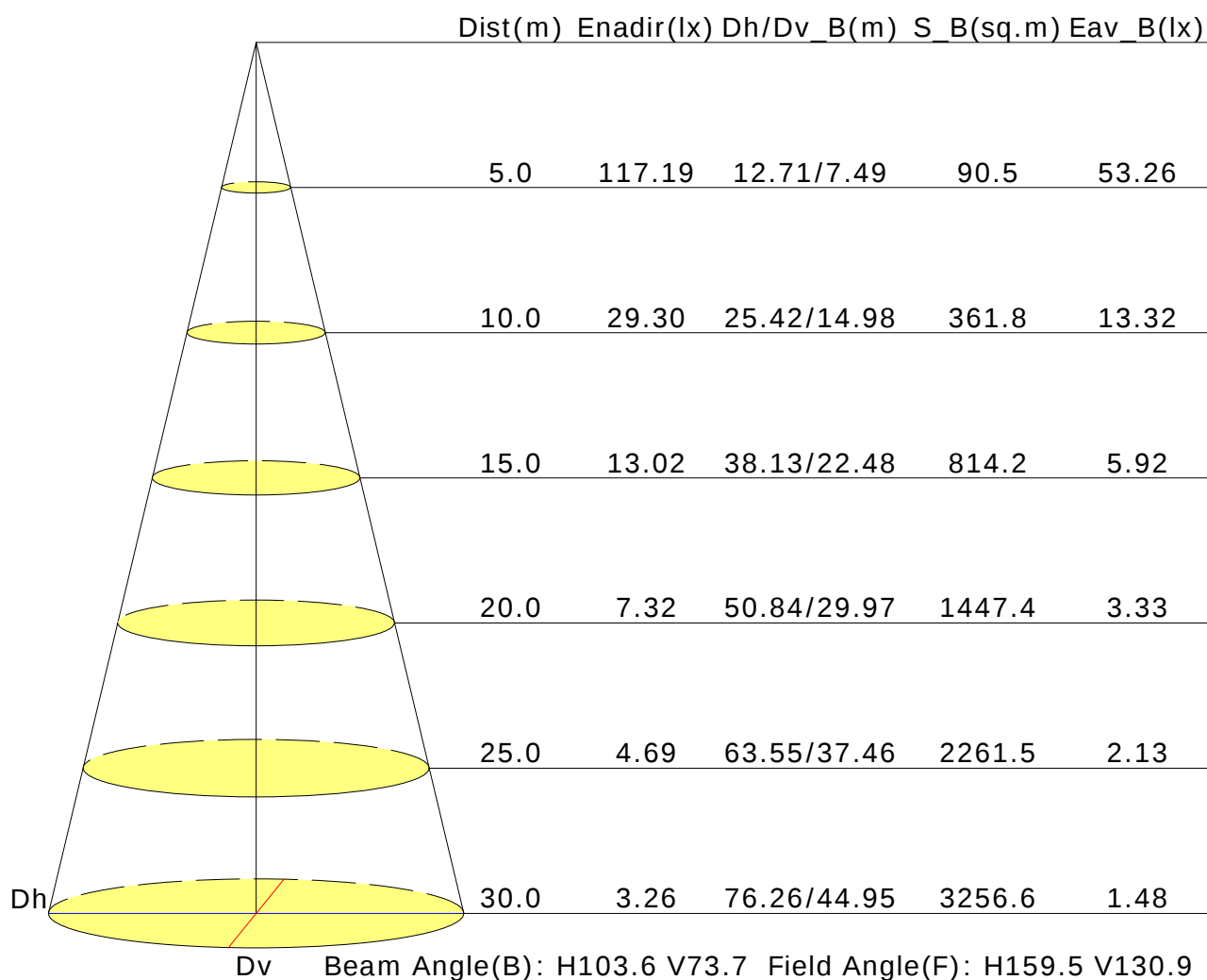
Test Device: LSG-1800B

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	21.3	22.6	21.6	22.8	23.1	20.3	21.6	20.6	21.8	22.1
3H	21.9	23.0	22.2	23.3	23.5	21.0	22.2	21.4	22.5	22.7
4H	22.0	23.1	22.4	23.4	23.7	21.2	22.2	21.5	22.5	22.8
6H	22.2	23.1	22.5	23.5	23.8	21.2	22.2	21.6	22.5	22.8
8H	22.2	23.1	22.6	23.5	23.8	21.2	22.1	21.6	22.5	22.8
12H	22.2	23.1	22.6	23.4	23.8	21.2	22.1	21.5	22.4	22.7
X=4H Y=2H	21.4	22.5	21.8	22.8	23.1	20.6	21.6	20.9	21.9	22.2
3H	22.1	23.0	22.5	23.4	23.7	21.4	22.3	21.8	22.7	23.0
4H	22.4	23.2	22.8	23.6	23.9	21.6	22.4	22.0	22.8	23.1
6H	22.6	23.3	23.0	23.7	24.1	21.7	22.4	22.1	22.8	23.2
8H	22.7	23.3	23.1	23.7	24.2	21.7	22.3	22.1	22.7	23.1
12H	22.7	23.3	23.2	23.7	24.2	21.6	22.2	22.1	22.6	23.1
X=8H Y=4H	22.4	23.1	22.9	23.5	23.9	21.7	22.3	22.1	22.7	23.2
6H	22.7	23.2	23.2	23.7	24.1	21.8	22.3	22.2	22.7	23.2
8H	22.8	23.3	23.3	23.7	24.2	21.8	22.2	22.3	22.7	23.2
12H	22.9	23.3	23.4	23.8	24.3	21.8	22.2	22.3	22.6	23.1
X=12H Y=4H	22.4	23.0	22.9	23.4	23.9	21.7	22.2	22.1	22.7	23.1
6H	22.7	23.2	23.2	23.6	24.1	21.8	22.2	22.3	22.7	23.2
8H	22.8	23.2	23.3	23.7	24.2	21.8	22.2	22.3	22.7	23.2
Variations with the observer position at spacings:										
S=1.0H	+1.0/-0.9					+0.7/-0.8				
S=1.5H	+1.6/-1.8					+1.3/-2.2				
S=2.0H	+2.8/-2.4					+2.8/-2.3				

Calculate in accordance with CIE Pub.117. The table is revised with 9576lm ($8\log(F/F_0) = 7.8$).

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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 = 1.50									
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	0.77	0.84	0.88	0.94	0.98	1.01	1.04	1.06	
	0.30		0.63	0.71	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
	0.20		0.59	0.67	0.73	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	0.76	0.81	0.87	0.91	0.94	0.98	1.00	
	0.20		0.58	0.66	0.72	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	0.96	0.98	
	0.30		0.62	0.69	0.75	0.79	0.85	0.88	0.91	0.94	0.97	
	0.20		0.58	0.65	0.72	0.76	0.82	0.86	0.89	0.92	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:63W 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	0.80	0.66	0.55	0.48	0.38	0.31	0.27	0.21	0.17	
	0.30		0.66	0.57	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	0.27	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		0.65	0.55	0.47	0.41	0.33	0.27	0.24	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	0.37	0.31	0.26	0.21	0.17	0.15	0.12	0.09	
Rating:63W 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	0.20	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	0.14	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	0.16	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:63W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												