

Report No.: 1

Test Time: 22.01.2020 19:49

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FT 185 N 62W 3000K 104x90gr.

Luminous Length (mm): 587

Luminous Width (mm): 177

Luminous Height (mm): 102

Voltage: 221.5 V

Current: 0.289 A

Power: 62.18 W

Power Factor: 0.970

Photometric Results

CIE Class: Direct

Measurement Flux: 8960.7 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 8960.7 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.5, 125.9, 135.9, 135.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 102.2, 86.2, 84.9, 85.4

Luminaire Efficacy Rating (LER): 144.16

Central Intensity: 4296.56 cd

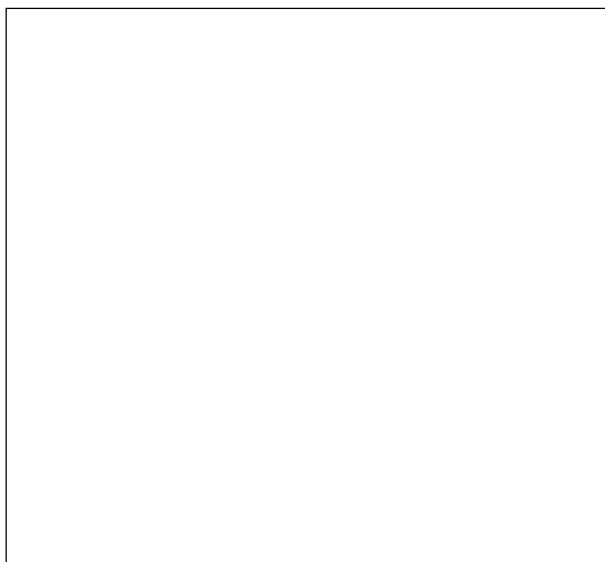
Max. Intensity: 4300.42 cd

Pos of Max. Intensity: H180 V2

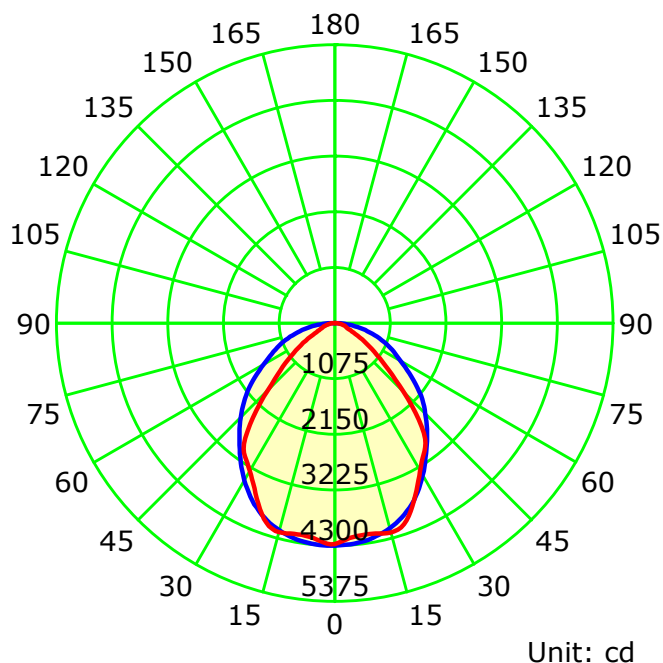
S/MH(C0/C180): 1.20

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 (°):0.0-180.0:1.0

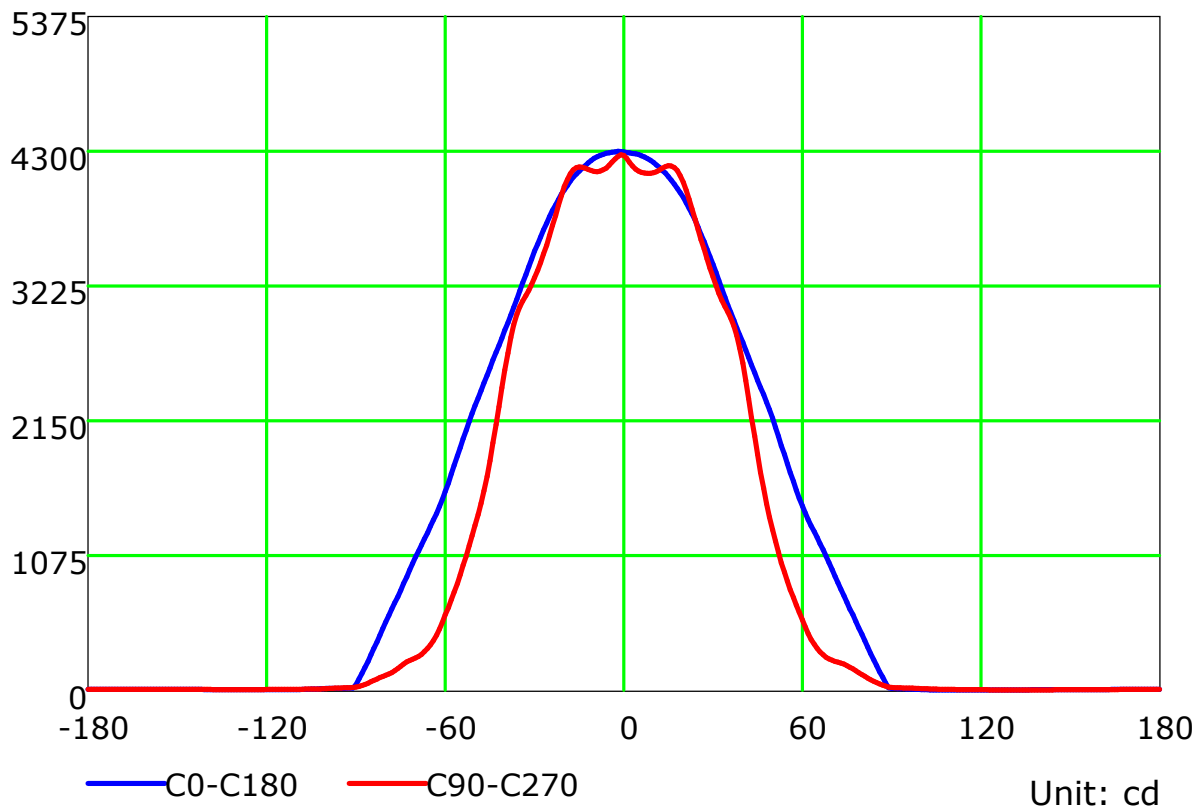
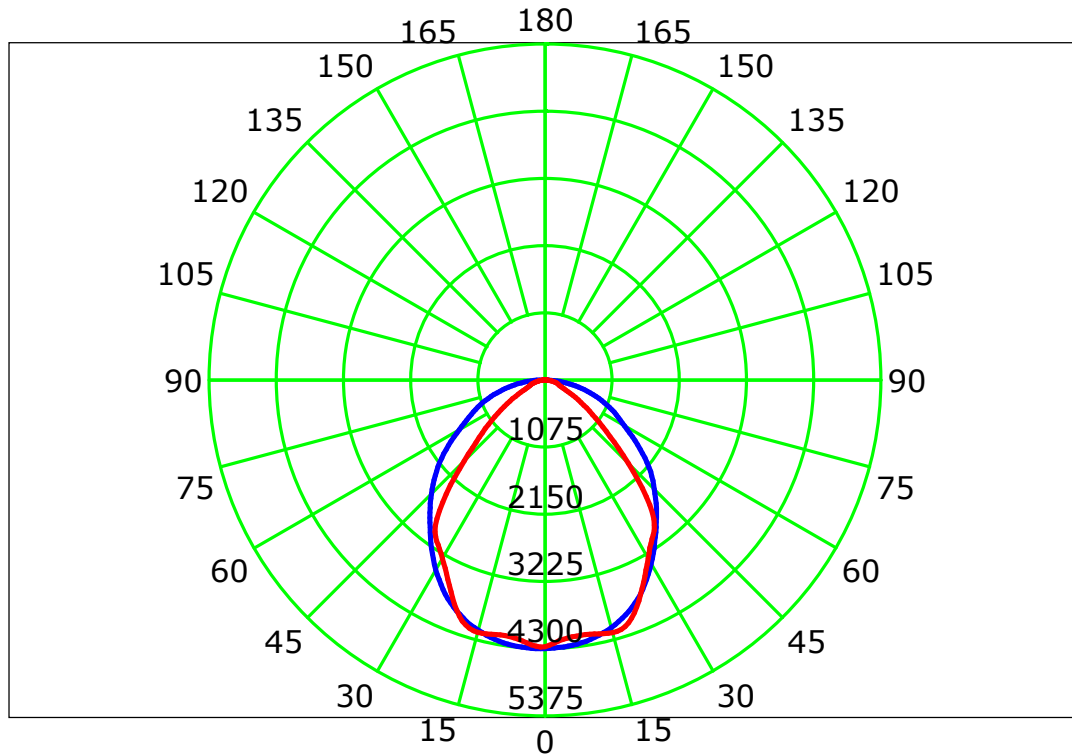
Test Device: LSG-1800B

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:

Gamma Plane (°):0.0-180.0:1.0

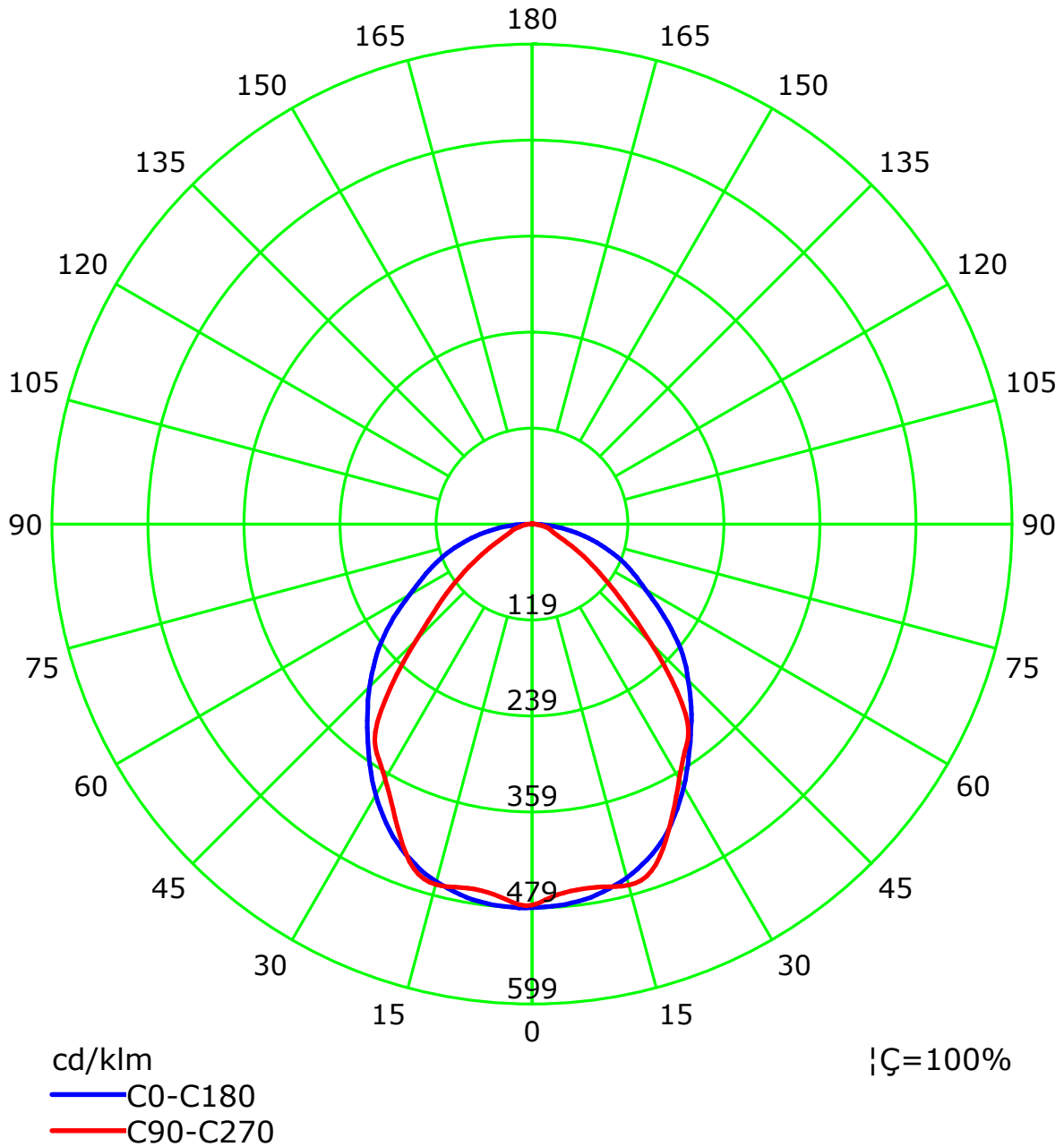
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



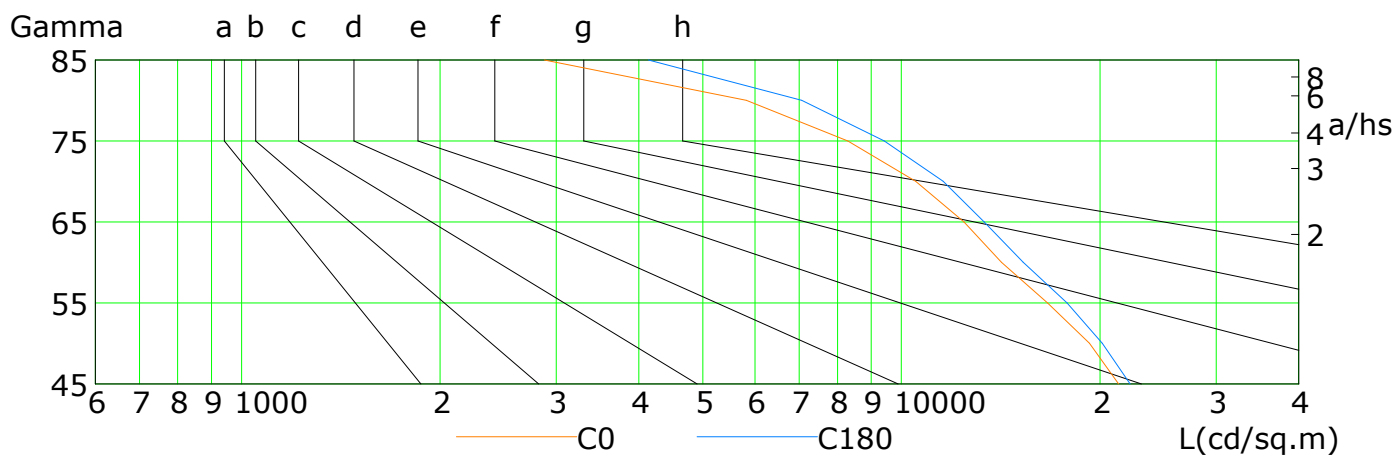
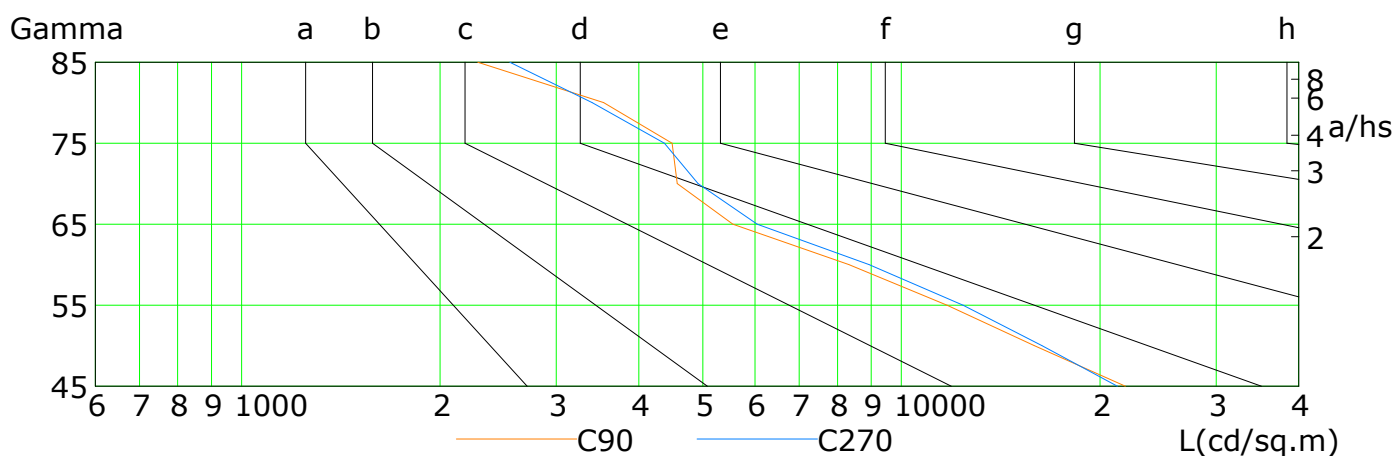
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
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

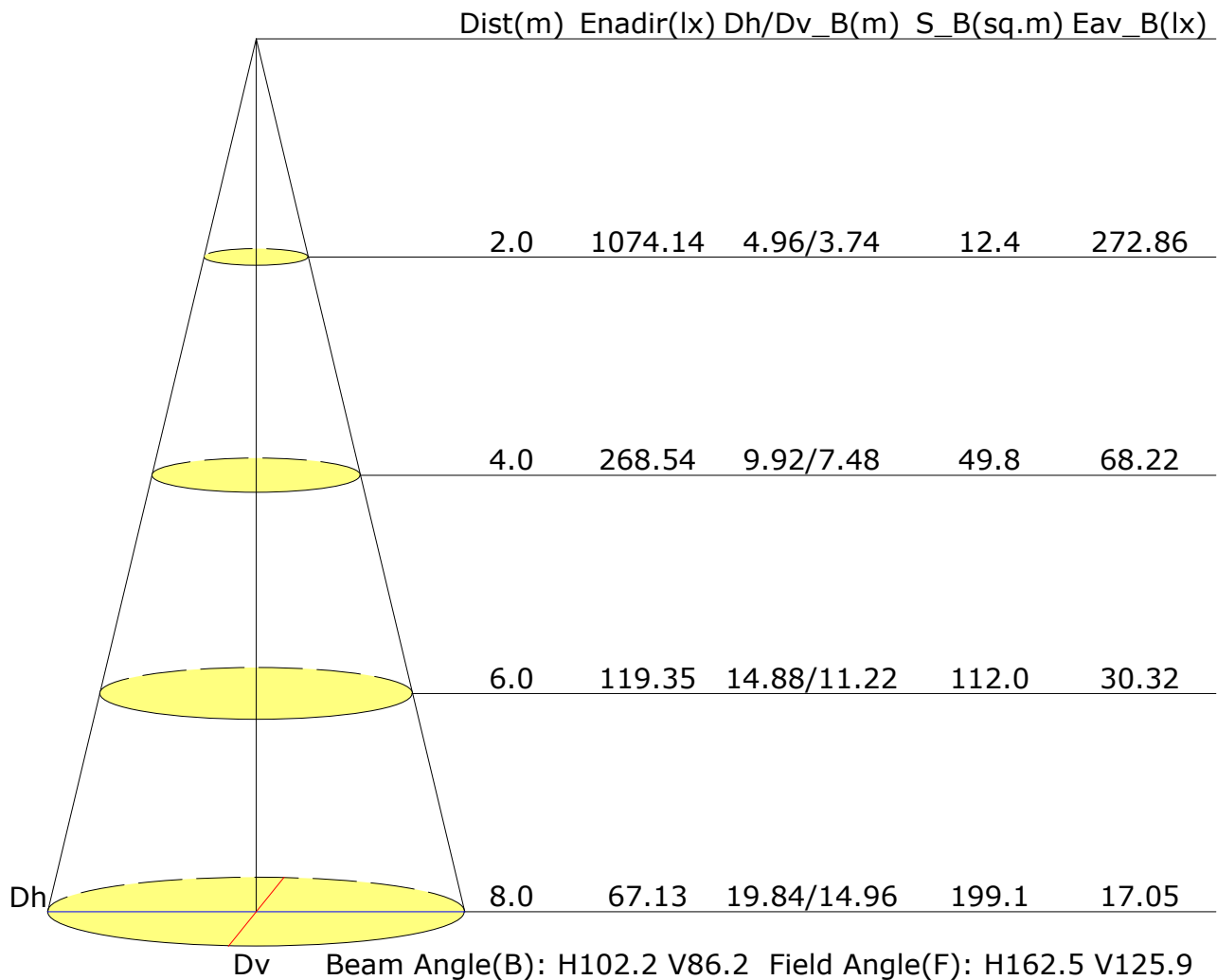


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	21348	19275	16646	14172	12442	10509	8293	5819	2878
C90	21838	15886	11721	8326	5555	4573	4492	3539	2281
C180	22222	20157	17832	15302	13346	11576	9421	7066	4137
C270	21246	16327	12401	8932	6044	4917	4373	3399	2550

C Plane (°):0.0-360.0: 22.5
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 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 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	21.4	22.6	21.7	22.8	23.1	20.1	21.4	20.4	21.6	21.9
3H	22.6	23.7	22.9	24.0	24.2	20.4	21.5	20.7	21.7	22.0
4H	23.1	24.1	23.4	24.4	24.7	20.5	21.5	20.8	21.8	22.1
6H	23.4	24.4	23.8	24.7	25.0	20.5	21.5	20.9	21.8	22.2
8H	23.5	24.4	23.9	24.8	25.1	20.6	21.5	20.9	21.8	22.2
12H	23.5	24.4	23.9	24.8	25.1	20.6	21.5	21.0	21.8	22.2
X=4H Y=2H	21.5	22.5	21.8	22.8	23.1	20.4	21.4	20.7	21.7	22.0
3H	22.8	23.7	23.2	24.0	24.4	20.7	21.6	21.1	21.9	22.3
4H	23.3	24.1	23.8	24.5	24.9	20.8	21.6	21.3	22.0	22.4
6H	23.8	24.5	24.2	24.9	25.3	21.0	21.7	21.4	22.1	22.5
8H	23.9	24.6	24.3	25.0	25.4	21.0	21.7	21.5	22.1	22.5
12H	24.0	24.6	24.4	25.0	25.4	21.1	21.7	21.5	22.1	22.5
X=8H Y=4H	23.3	24.0	23.7	24.4	24.8	20.9	21.6	21.4	22.0	22.4
6H	23.8	24.3	24.3	24.7	25.2	21.1	21.6	21.6	22.1	22.5
8H	23.9	24.4	24.4	24.9	25.4	21.2	21.6	21.7	22.1	22.6
12H	24.0	24.4	24.5	24.9	25.4	21.2	21.6	21.7	22.1	22.6
X=12H Y=4H	23.3	23.9	23.7	24.3	24.7	20.9	21.5	21.4	21.9	22.4
6H	23.8	24.2	24.2	24.7	25.2	21.1	21.6	21.6	22.0	22.5
8H	23.9	24.3	24.4	24.8	25.3	21.2	21.6	21.7	22.1	22.6
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.7/-1.0				
S=1.5H	+0.8/-1.1					+1.6/-2.4				
S=2.0H	+1.7/-2.0					+3.1/-3.9				

Calculate in accordance with CIE Pub.117. The table is revised with 8961lm ($8\log(F/F_0) = 7.6$).

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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	0.66	0.75	0.82	0.86	0.92	0.97	1.00	1.03	1.06	
	0.30		0.59	0.69	0.75	0.80	0.87	0.92	0.95	1.00	1.03	
	0.20		0.54	0.64	0.71	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	1.01	
	0.30		0.58	0.67	0.74	0.79	0.85	0.89	0.92	0.96	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	0.63	0.71	0.77	0.81	0.86	0.90	0.92	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	0.86	0.70	0.59	0.51	0.41	0.34	0.29	0.22	0.18	
	0.30		0.72	0.60	0.51	0.45	0.37	0.31	0.27	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	0.51	0.45	0.39	0.32	0.27	0.24	0.19	0.16	
0.30	0.50	0.20	0.80	0.64	0.54	0.46	0.36	0.30	0.26	0.20	0.16	
	0.30		0.68	0.56	0.48	0.42	0.34	0.28	0.24	0.19	0.15	
	0.20		0.60	0.50	0.44	0.38	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	0.17	0.13	0.11	
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	0.22	0.22	
	0.30		0.10	0.12	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	0.20	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	0.07	0.09	0.10	0.12	0.14	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		0.06	0.07	0.09	0.10	0.12	0.13	0.14	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:62W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												