

Report No.: 1

Test Time: 23.01.2020 15:41

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FT 185 N 62W 3000K 96x55gr.

Luminous Length (mm): 587

Luminous Width (mm): 177

Luminous Height (mm): 102

Voltage: 221.4 V

Current: 0.287 A

Power: 61.69 W

Power Factor: 0.969

## Photometric Results

CIE Class: Direct

Measurement Flux: 9063 lm

Downward Ratio: 98%

Total Rated Lamp Lumens: 9063.0 lm

Efficiency: 100%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 136.7, 93.9, 113.0, 111.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 94.4, 55.4, 64.5, 63.8

Luminaire Efficacy Rating (LER): 146.96

Central Intensity: 6141.62 cd

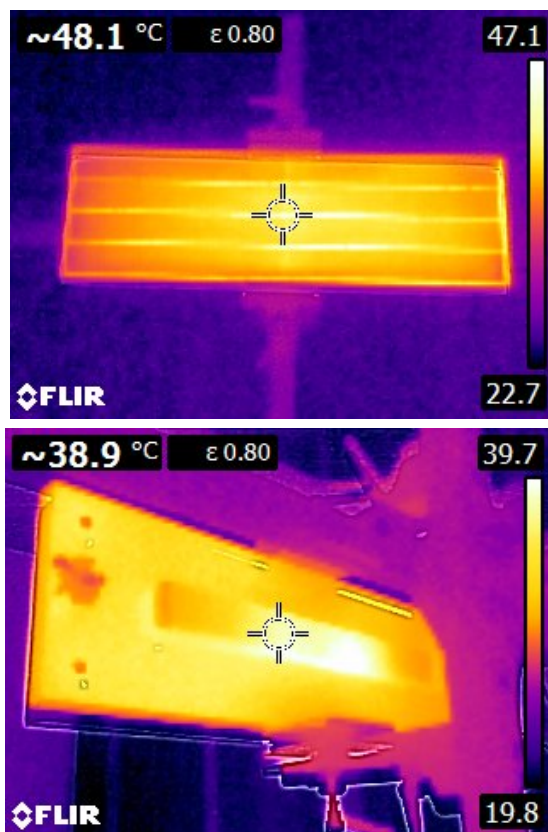
Max. Intensity: 6150.17 cd

Pos of Max. Intensity: H67.5 V1

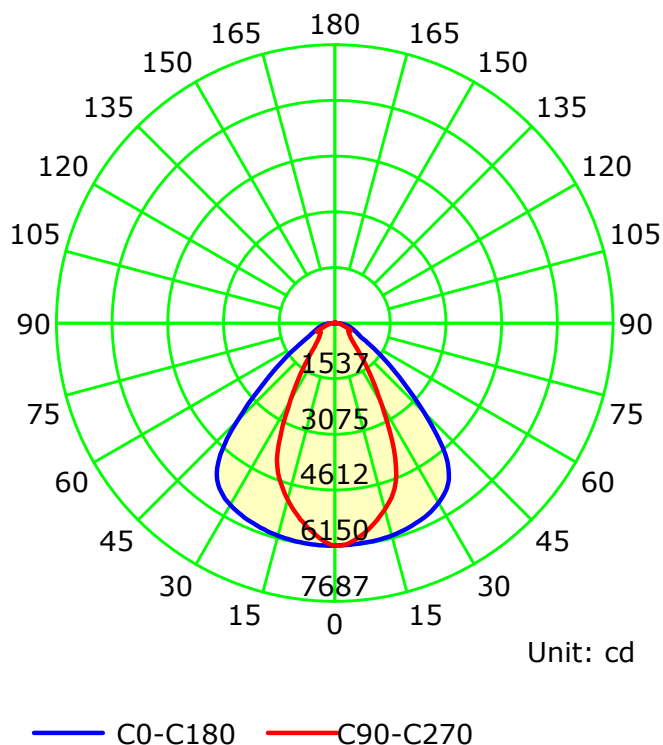
S/MH(C0/C180): 1.38

S/MH(C90/C270): 0.89

Termogramma



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

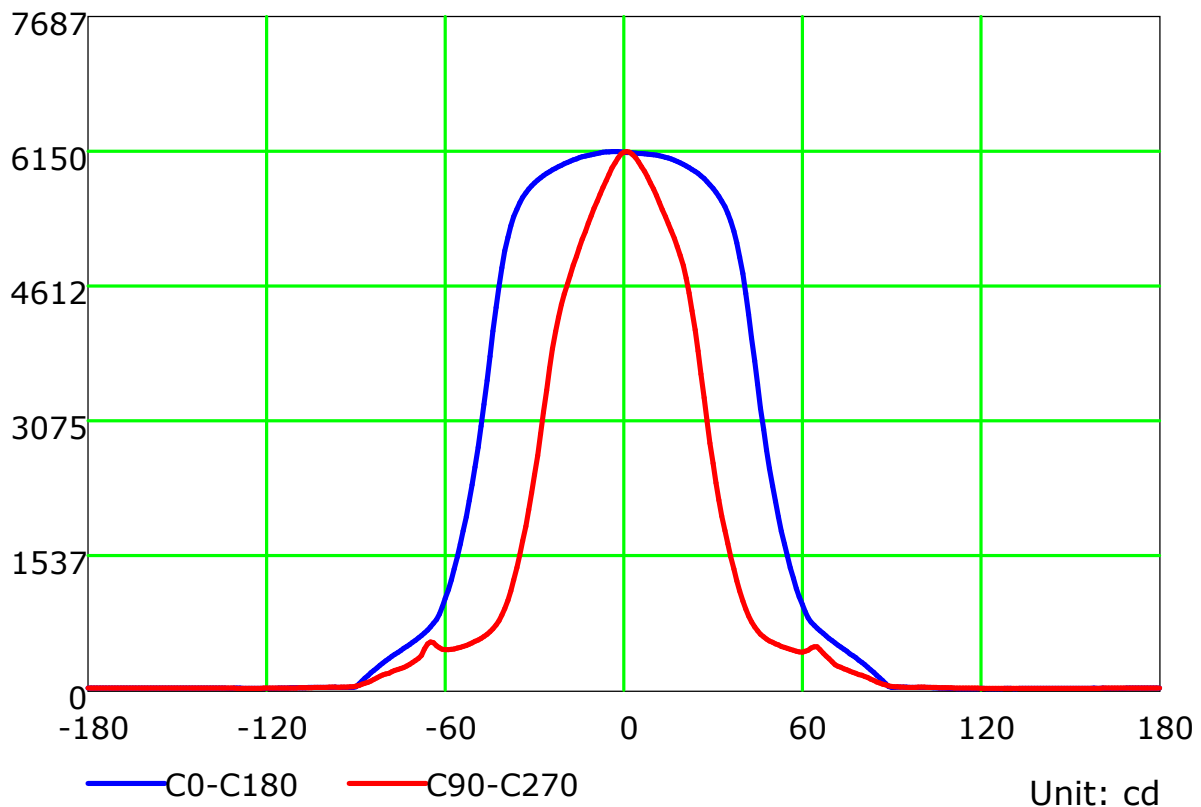
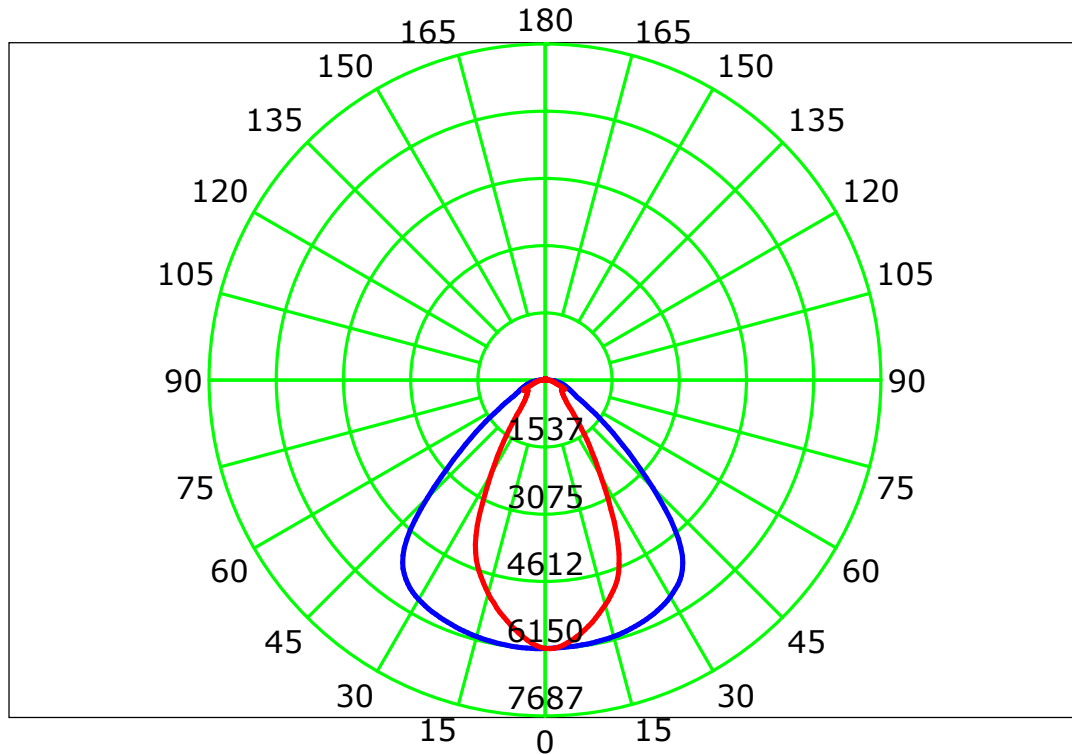
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

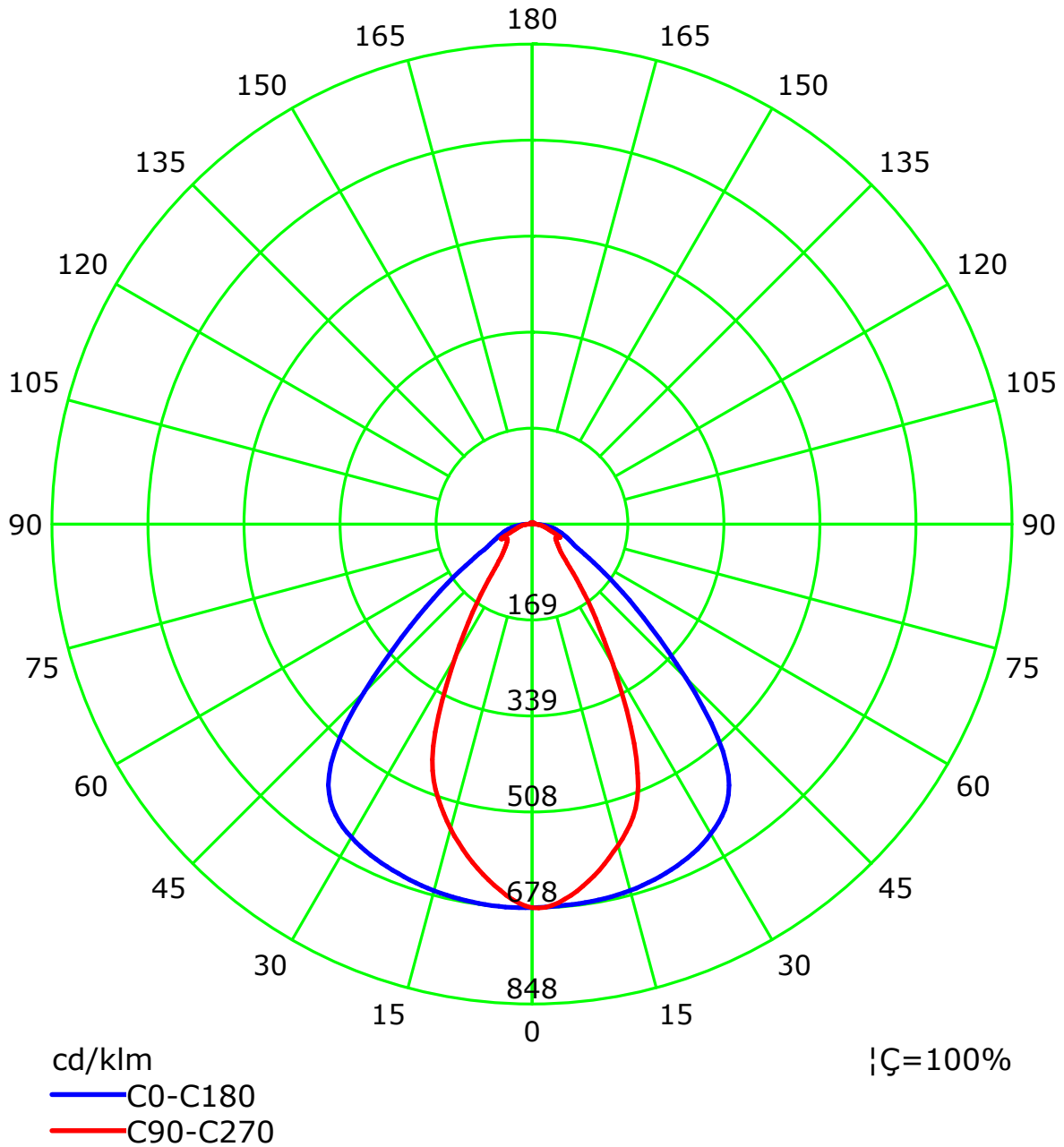
## Luminous Intensity Distribution Curve



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:

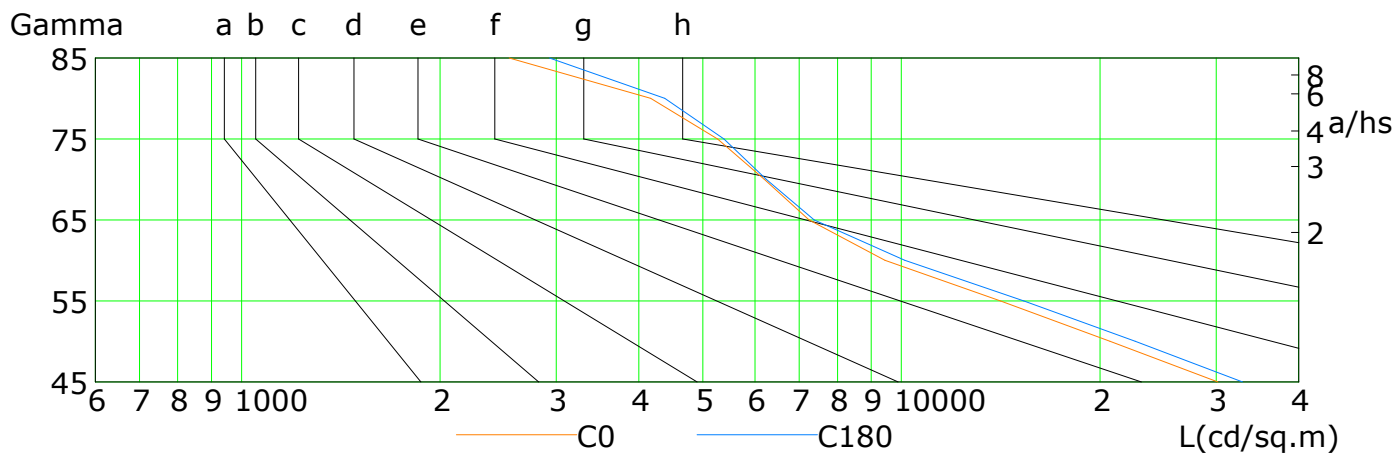
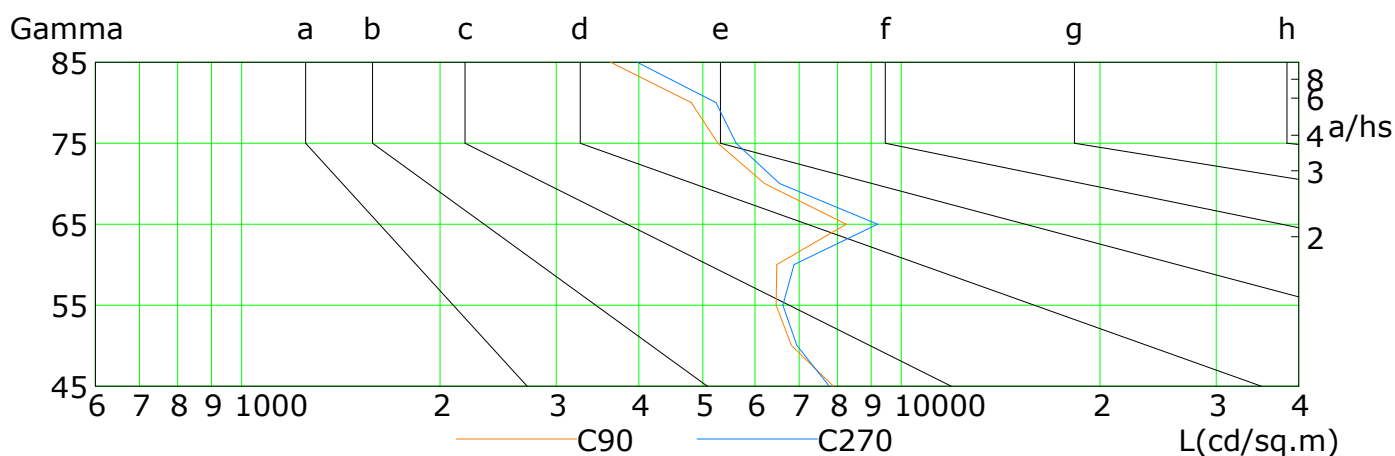
## Luminous Intensity Distribution Curve(cd/klm)



## 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

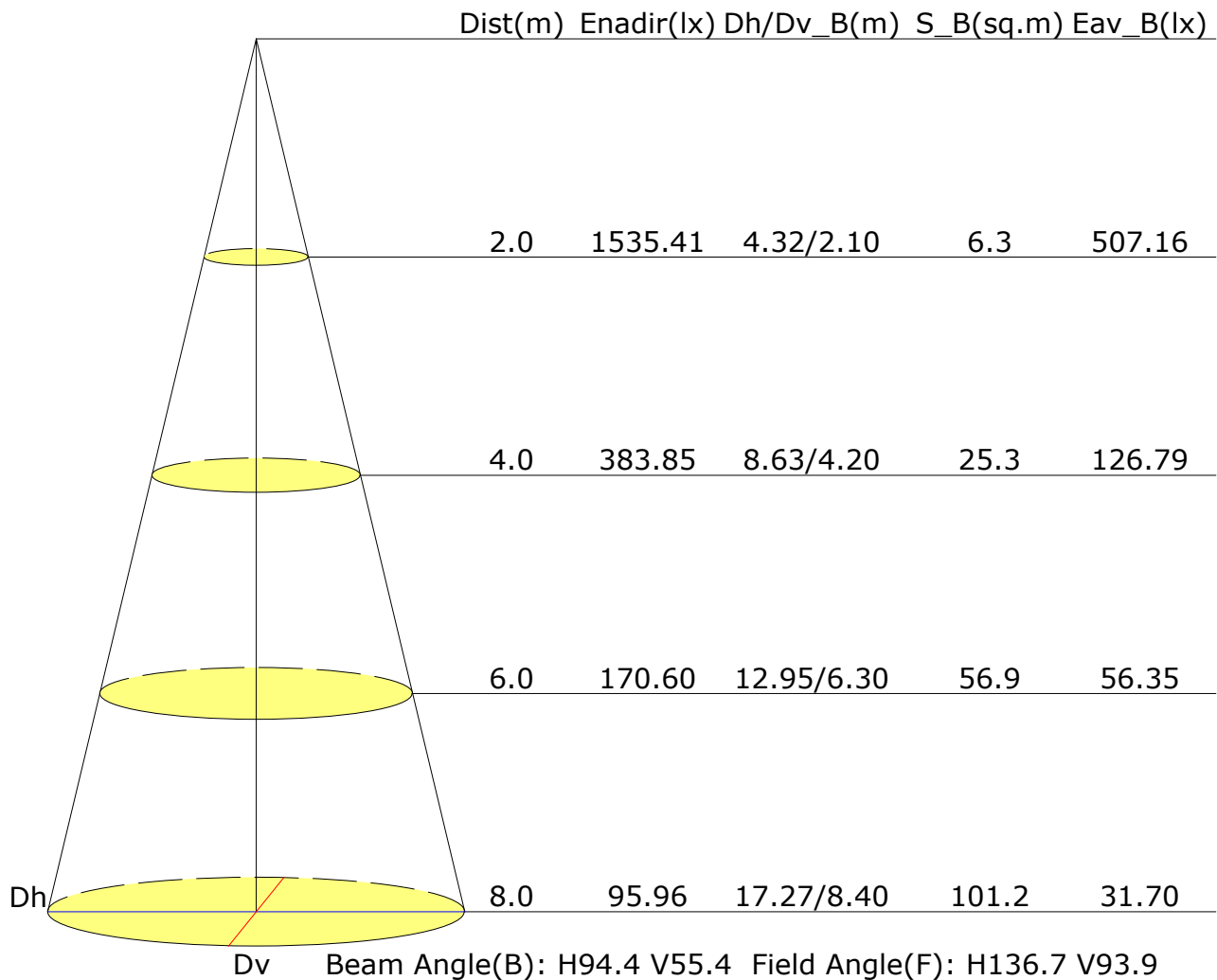


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	30154	20699	14131	9439	7248	6201	5264	4169	2544
C90	7891	6812	6456	6472	8248	6204	5273	4802	3625
C180	32897	22608	15332	10122	7379	6236	5384	4379	2931
C270	7773	6942	6610	6876	9199	6538	5619	5238	3979

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:

## 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	20.6	21.7	20.9	22.0	22.2	16.1	17.2	16.4	17.5	17.7
3H	21.2	22.2	21.5	22.5	22.8	17.8	18.8	18.2	19.1	19.4
4H	21.5	22.5	21.9	22.8	23.1	18.3	19.3	18.7	19.6	19.9
6H	21.8	22.7	22.2	23.0	23.3	18.8	19.7	19.2	20.0	20.4
8H	21.9	22.7	22.3	23.1	23.4	19.0	19.8	19.4	20.2	20.5
12H	21.9	22.7	22.3	23.1	23.5	19.1	19.9	19.5	20.3	20.7
X=4H Y=2H	20.6	21.5	20.9	21.8	22.2	16.7	17.7	17.1	18.0	18.3
3H	21.4	22.2	21.8	22.5	22.9	18.6	19.4	19.0	19.7	20.1
4H	21.8	22.5	22.2	22.9	23.3	19.2	19.9	19.6	20.3	20.7
6H	22.2	22.8	22.6	23.3	23.7	19.7	20.4	20.2	20.8	21.2
8H	22.3	22.9	22.8	23.4	23.8	20.0	20.6	20.4	21.0	21.5
12H	22.4	23.0	22.9	23.4	23.9	20.2	20.7	20.6	21.1	21.6
X=8H Y=4H	21.9	22.5	22.3	22.9	23.3	19.4	20.0	19.9	20.4	20.9
6H	22.3	22.8	22.8	23.3	23.8	20.1	20.6	20.6	21.0	21.5
8H	22.5	23.0	23.1	23.5	24.0	20.4	20.8	20.9	21.3	21.8
12H	22.7	23.1	23.2	23.6	24.1	20.7	21.0	21.2	21.5	22.1
X=12H Y=4H	21.8	22.4	22.3	22.8	23.3	19.4	20.0	19.9	20.4	20.9
6H	22.3	22.8	22.9	23.3	23.8	20.1	20.6	20.7	21.1	21.6
8H	22.6	22.9	23.1	23.4	24.0	20.5	20.9	21.0	21.4	21.9
Variations with the observer position at spacings:										
S=1.0H	+1.0/-1.0					+0.4/-0.3				
S=1.5H	+2.6/-1.7					+1.3/-0.8				
S=2.0H	+4.1/-2.3					+1.6/-0.6				

Calculate in accordance with CIE Pub.117. The table is revised with 9063lm ( $8\log(F/F_0) = 7.7$ ).

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:

## 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	0.78	0.84	0.88	0.94	0.98	1.00	1.04	1.06	
	0.30		0.63	0.72	0.78	0.82	0.89	0.93	0.96	1.00	1.03	
	0.20		0.59	0.67	0.73	0.78	0.85	0.89	0.93	0.98	1.01	
0.50	0.50	0.20	0.68	0.76	0.81	0.85	0.91	0.94	0.96	1.00	1.02	
	0.30		0.62	0.71	0.76	0.81	0.86	0.90	0.93	0.97	0.99	
	0.20		0.58	0.67	0.72	0.77	0.83	0.87	0.90	0.94	0.97	
0.30	0.50	0.20	0.67	0.74	0.79	0.83	0.87	0.91	0.93	0.96	0.97	
	0.30		0.62	0.69	0.75	0.79	0.84	0.88	0.90	0.93	0.96	
	0.20		0.58	0.66	0.71	0.75	0.81	0.85	0.88	0.92	0.94	
0.00	0.00	0.00	0.56	0.63	0.69	0.72	0.78	0.81	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 = 1.00									
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	0.56	0.48	0.38	0.32	0.27	0.21	0.17	
	0.30		0.67	0.56	0.48	0.43	0.35	0.29	0.25	0.20	0.17	
	0.20		0.57	0.49	0.43	0.38	0.32	0.27	0.24	0.19	0.16	
0.50	0.50	0.20	0.76	0.62	0.53	0.46	0.36	0.34	0.26	0.20	0.16	
	0.30		0.65	0.54	0.46	0.41	0.33	0.28	0.24	0.19	0.16	
	0.20		0.56	0.48	0.42	0.37	0.31	0.26	0.23	0.18	0.15	
0.30	0.50	0.20	0.73	0.59	0.50	0.43	0.34	0.28	0.24	0.19	0.15	
	0.30		0.63	0.52	0.45	0.39	0.32	0.26	0.23	0.18	0.15	
	0.20		0.55	0.46	0.40	0.36	0.29	0.25	0.22	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: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 = 1.00									
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	0.17	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.11	0.13	0.14	0.15	0.16	0.18	0.18	0.20	0.20	
	0.20		0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	0.19	
0.30	0.50	0.20	0.15	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.09	0.10	0.11	0.13	0.15	0.16	0.17	0.18	
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Rating:62W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												