

Report No.: 1

Test Time: 22.01.2020 21:11

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FT 185 N 62W 3000K 20-90gr.

Luminous Length (mm): 587

Luminous Width (mm): 177

Luminous Height (mm): 102

Voltage: 221.5 V

Current: 0.290 A

Power: 62.35 W

Power Factor: 0.970

Photometric Results

CIE Class: Direct

Measurement Flux: 8722.8 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 8722.8 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 152.5, 140.6, 134.6, 134.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 78.7, 46.2, 59.2, 58.5

Luminaire Efficacy Rating (LER): 139.95

Central Intensity: 3103.14 cd

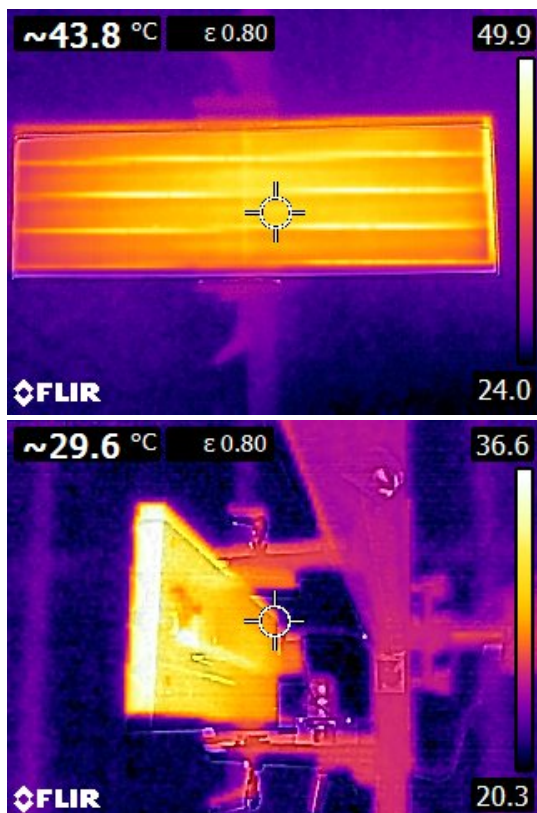
Max. Intensity: 5837.3 cd

Pos of Max. Intensity: H90 V24

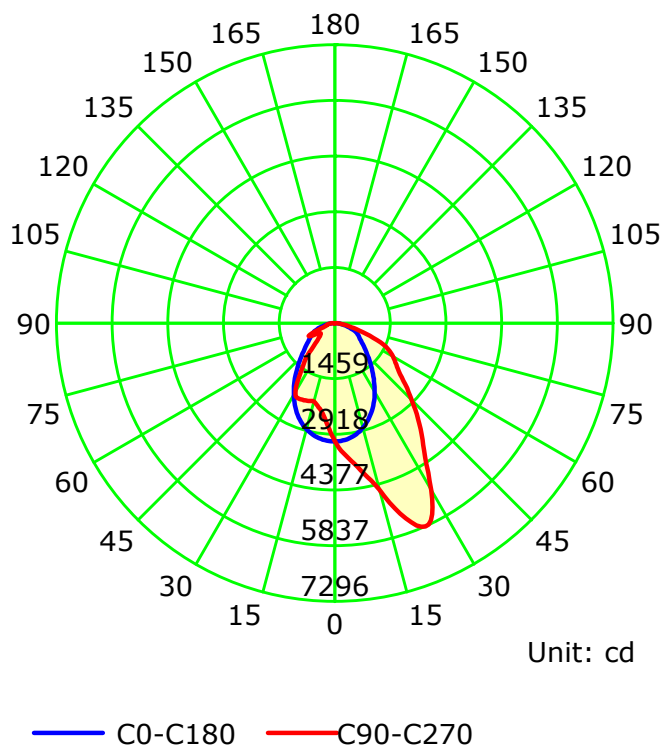
S/MH(C0/C180): 1.06

S/MH(C90/C270): 1.40

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

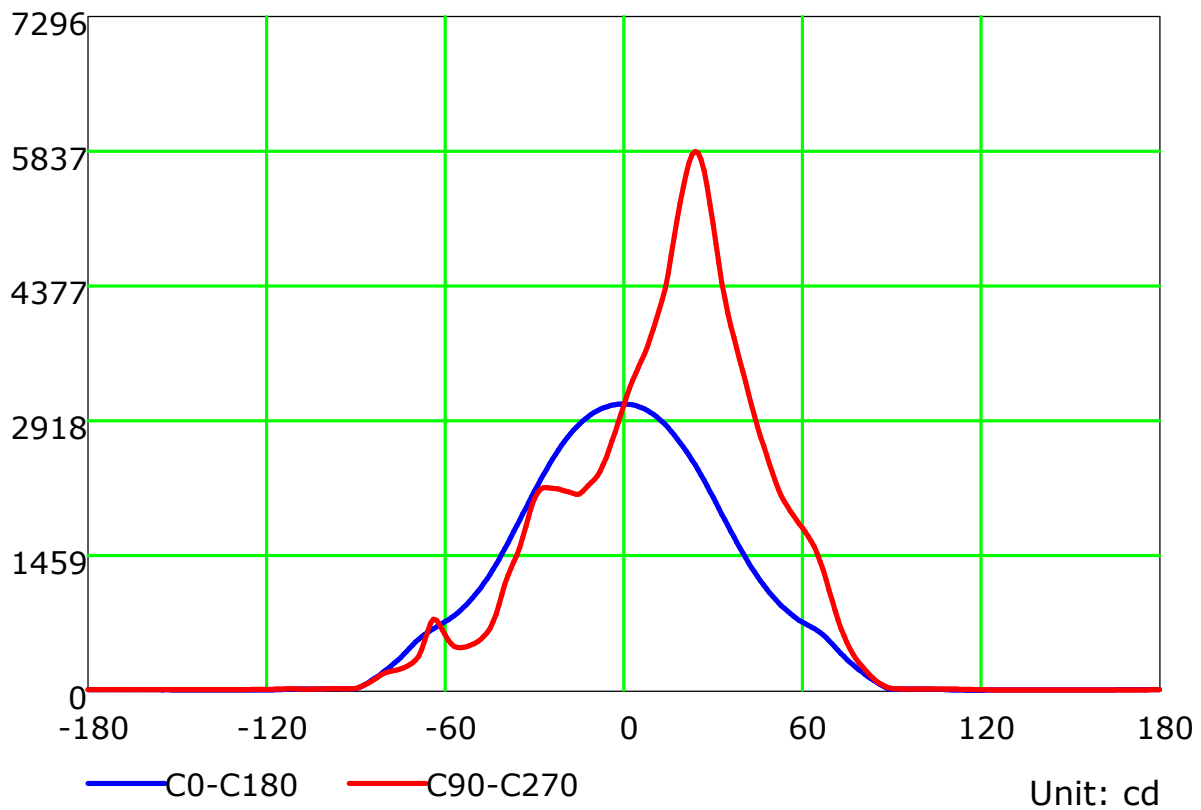
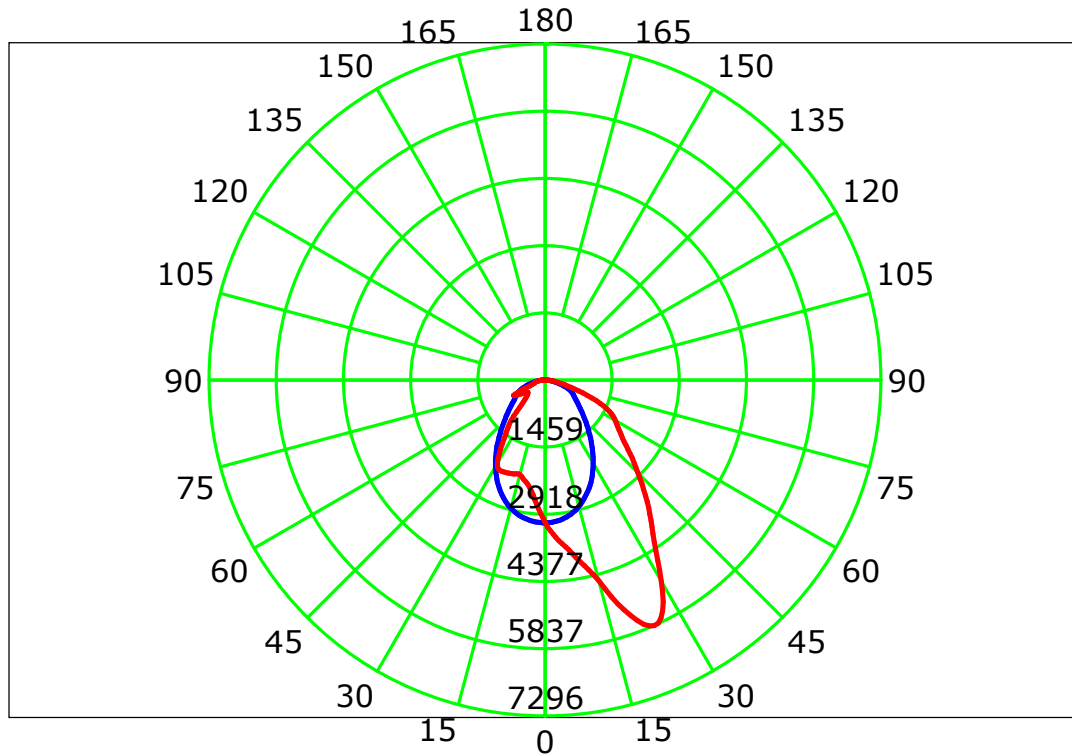
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

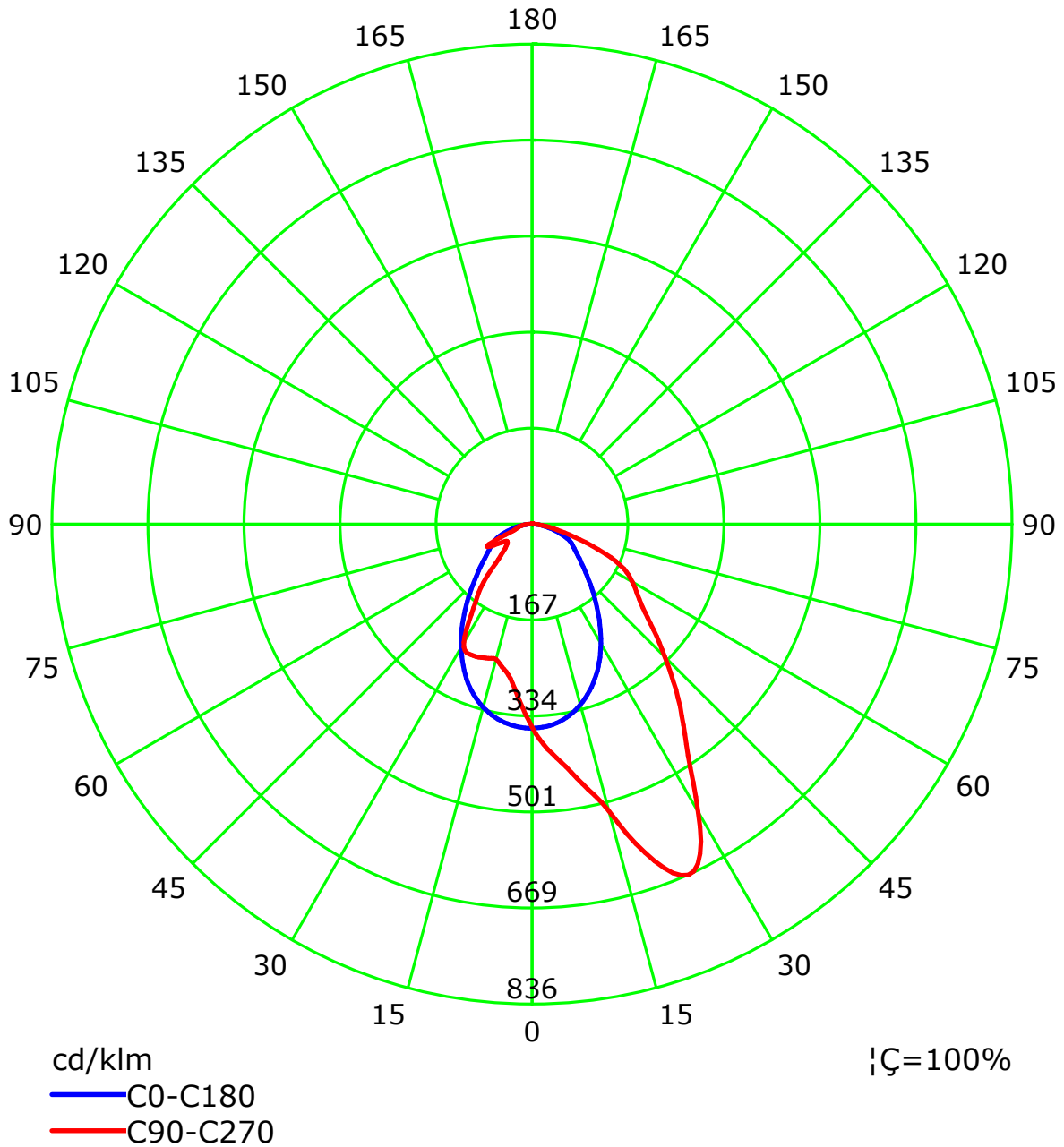
Luminous Intensity Distribution Curve



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:

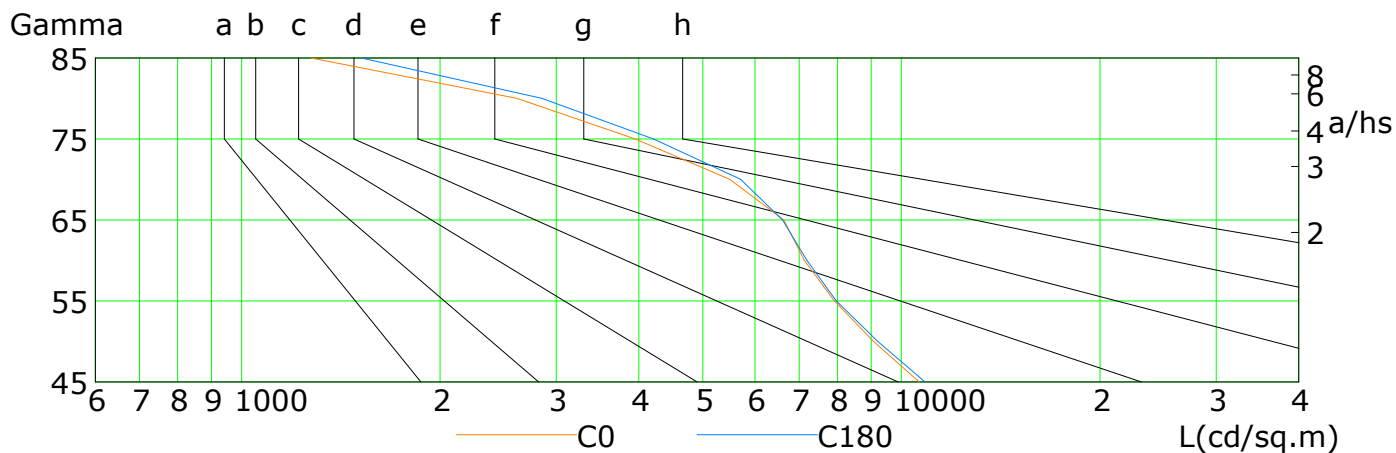
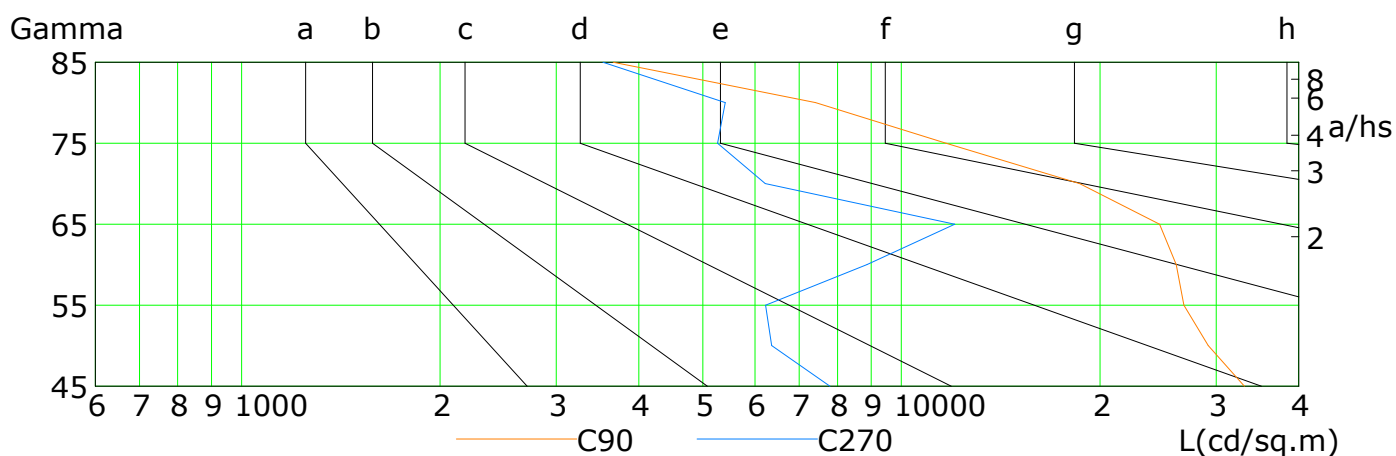
Luminous Intensity Distribution Curve(cd/klm)



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

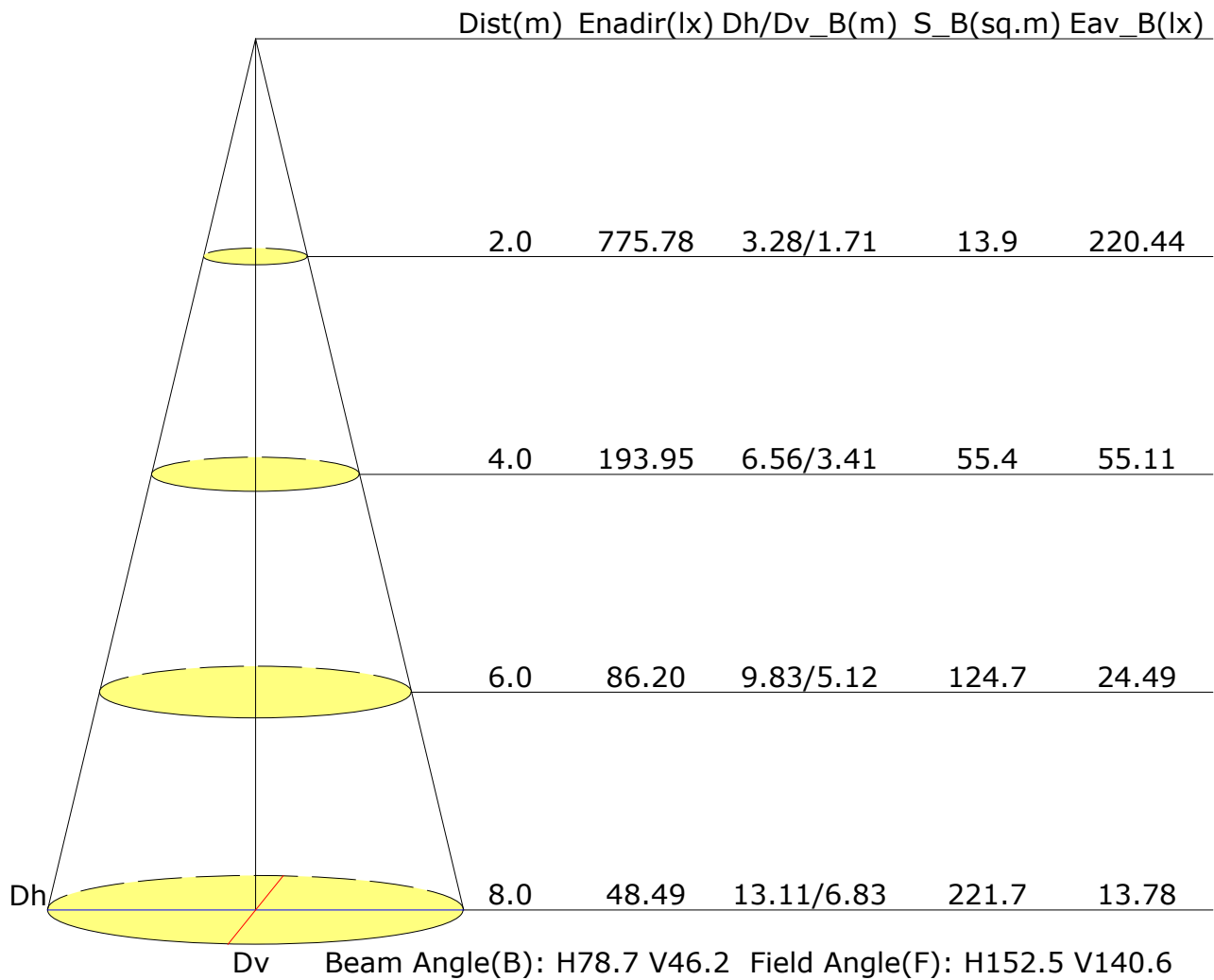


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	10638	9065	7914	7124	6636	5492	3953	2615	1274
C90	33117	29190	26809	26105	24631	18613	11685	7408	3658
C180	10852	9198	7968	7189	6603	5708	4211	2852	1518
C270	7795	6359	6224	8875	12045	6221	5263	5405	3528

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	21.3	22.6	21.6	22.8	23.1	22.7	24.1	23.1	24.3	24.6
3H	22.0	23.2	22.3	23.4	23.7	24.0	25.2	24.4	25.5	25.8
4H	22.2	23.3	22.5	23.6	23.9	24.3	25.4	24.7	25.7	26.0
6H	22.3	23.3	22.6	23.6	23.9	24.4	25.5	24.8	25.8	26.1
8H	22.3	23.3	22.6	23.6	23.9	24.5	25.5	24.9	25.8	26.1
12H	22.2	23.2	22.6	23.6	23.9	24.5	25.4	24.9	25.8	26.1
X=4H Y=2H	21.9	23.0	22.2	23.3	23.6	23.1	24.2	23.4	24.5	24.8
3H	22.8	23.7	23.1	24.1	24.4	24.5	25.5	24.9	25.8	26.2
4H	23.1	23.9	23.5	24.3	24.7	24.9	25.8	25.3	26.1	26.5
6H	23.2	24.0	23.7	24.4	24.8	25.1	25.9	25.5	26.2	26.7
8H	23.3	24.0	23.7	24.4	24.8	25.1	25.8	25.6	26.3	26.7
12H	23.3	23.9	23.7	24.3	24.8	25.2	25.8	25.6	26.2	26.7
X=8H Y=4H	23.3	24.0	23.7	24.4	24.8	25.0	25.7	25.4	26.1	26.5
6H	23.6	24.1	24.0	24.6	25.1	25.3	25.8	25.7	26.3	26.7
8H	23.6	24.1	24.1	24.6	25.1	25.3	25.8	25.8	26.3	26.8
12H	23.7	24.1	24.2	24.6	25.1	25.4	25.8	25.9	26.3	26.8
X=12H Y=4H	23.3	23.9	23.8	24.4	24.8	25.0	25.6	25.4	26.0	26.5
6H	23.6	24.1	24.1	24.6	25.1	25.3	25.8	25.7	26.2	26.7
8H	23.7	24.1	24.2	24.6	25.1	25.4	25.8	25.9	26.3	26.8
Variations with the observer position at spacings:										
S=1.0H	+0.7/-0.7					+0.6/-0.7				
S=1.5H	+1.2/-1.8					+1.2/-1.4				
S=2.0H	+2.0/-2.6					+1.2/-1.5				

Calculate in accordance with CIE Pub.117. The table is revised with 8723lm ($8\log(F/F_0) = 7.5$).

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 = 1.25									
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	0.61	0.71	0.78	0.83	0.90	0.94	0.97	1.02	1.04	
	0.30		0.53	0.64	0.71	0.76	0.84	0.89	0.93	0.98	1.01	
	0.20		0.48	0.58	0.66	0.71	0.79	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.59	0.69	0.75	0.80	0.86	0.91	0.94	0.98	1.00	
	0.30		0.53	0.62	0.69	0.74	0.82	0.86	0.90	0.94	0.97	
	0.20		0.48	0.58	0.65	0.70	0.77	0.83	0.86	0.92	0.95	
0.30	0.50	0.20	0.58	0.67	0.73	0.77	0.83	0.87	0.90	0.94	0.96	
	0.30		0.52	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
	0.20		0.47	0.57	0.64	0.69	0.76	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.45	0.54	0.61	0.66	0.72	0.77	0.80	0.84	0.87	
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	0.93	0.76	0.65	0.56	0.45	0.37	0.32	0.24	0.20	
	0.30		0.78	0.65	0.56	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.67	0.57	0.50	0.45	0.37	0.31	0.27	0.22	0.18	
0.50	0.50	0.20	0.90	0.73	0.62	0.54	0.43	0.39	0.30	0.23	0.19	
	0.30		0.76	0.64	0.55	0.48	0.39	0.33	0.28	0.22	0.18	
	0.20		0.66	0.56	0.49	0.44	0.36	0.30	0.26	0.21	0.17	
0.30	0.50	0.20	0.87	0.70	0.59	0.51	0.40	0.33	0.28	0.22	0.18	
	0.30		0.74	0.62	0.53	0.46	0.37	0.31	0.27	0.21	0.17	
	0.20		0.65	0.55	0.48	0.43	0.35	0.29	0.25	0.20	0.17	
0.00	0.00	0.00	0.54	0.45	0.38	0.34	0.27	0.22	0.19	0.15	0.12	
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	0.18	0.19	0.19	0.20	0.21	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		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	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		0.05	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.19	0.20	0.20	0.20	
	0.30		0.10	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	0.01	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												