

Report No.: 1

Test Time: 24.12.2019 11:19

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 4x24LED 0.35A 37W 5000K matoviy

Luminous Length (mm): 1280

Luminous Width (mm): 350

Luminous Height (mm): 100

Voltage: 221.4 V

Current: 0.166 A

Power: 35.86 W

Power Factor: 0.971

Photometric Results

CIE Class: Direct

Measurement Flux: 4448.1 lm

Downward Ratio: 92%

Total Rated Lamp Lumens: 4448.1 lm

Efficiency: 100%

Upward Ratio: 8%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.5, 219.0, 194.7, 195.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.0, 125.5, 115.5, 115.7

Luminaire Efficacy Rating (LER): 124.09

Central Intensity: 1307.62 cd

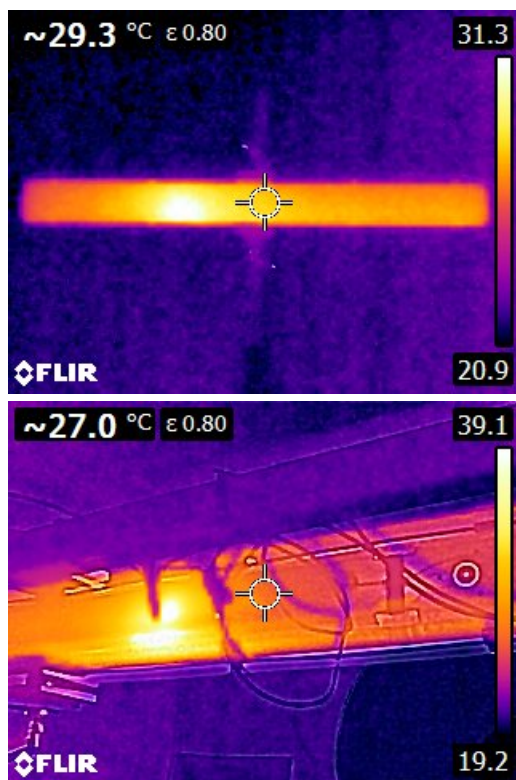
Max. Intensity: 1310.95 cd

Pos of Max. Intensity: H315 V2

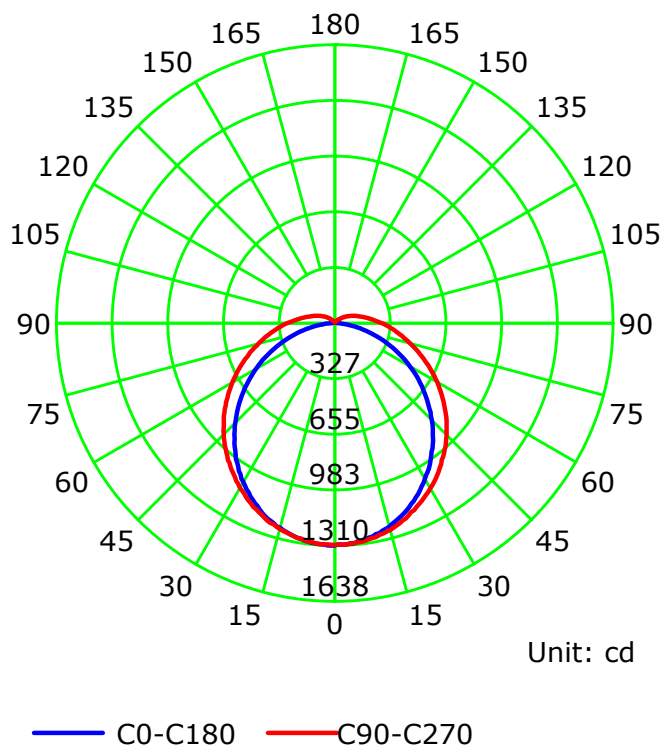
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.28

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

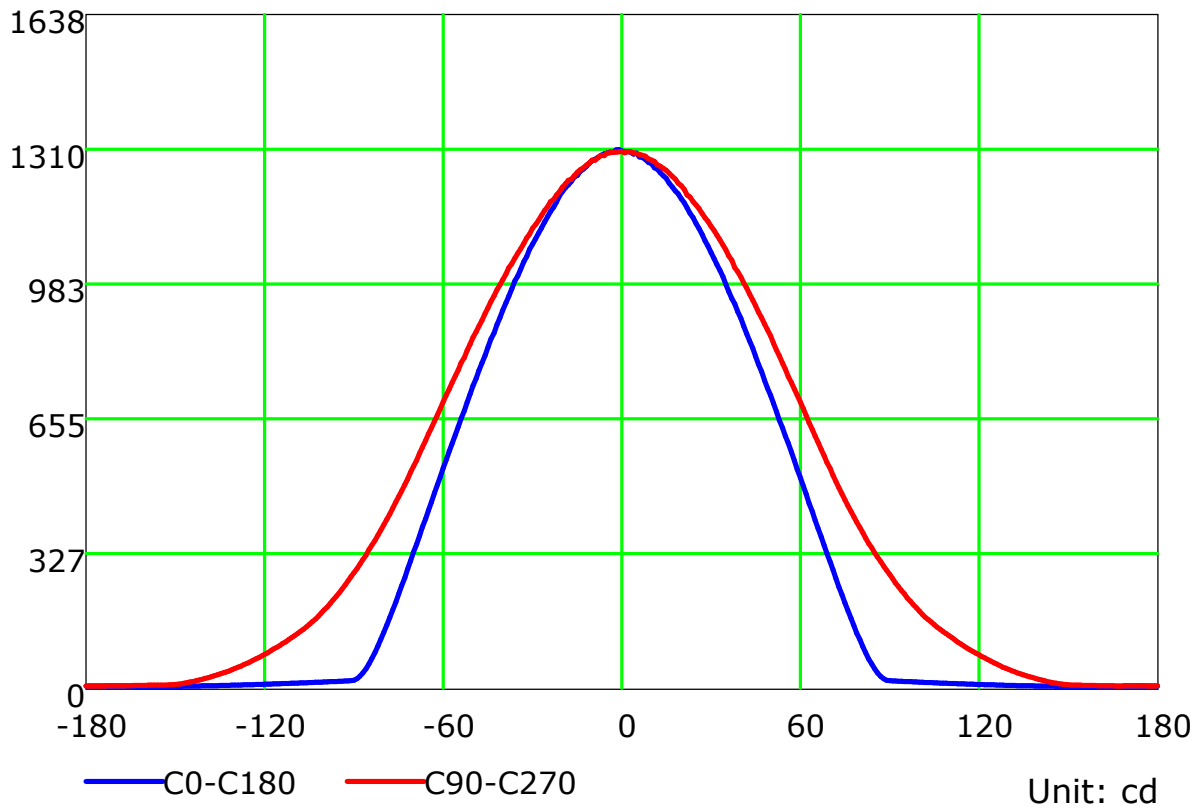
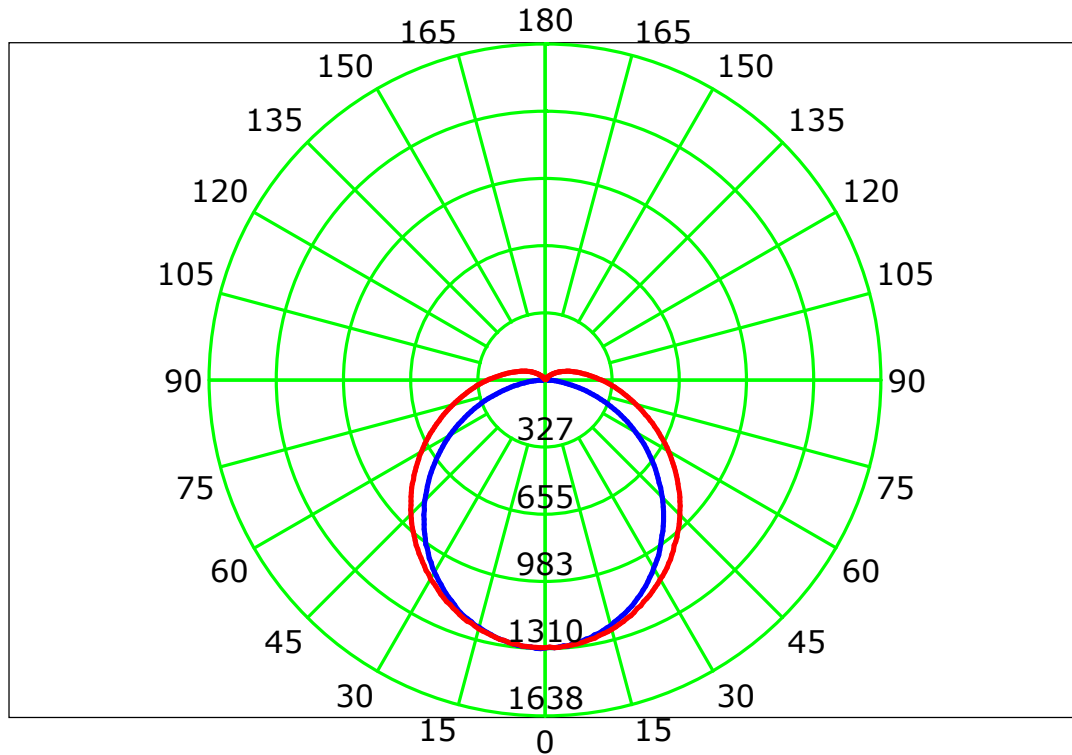
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

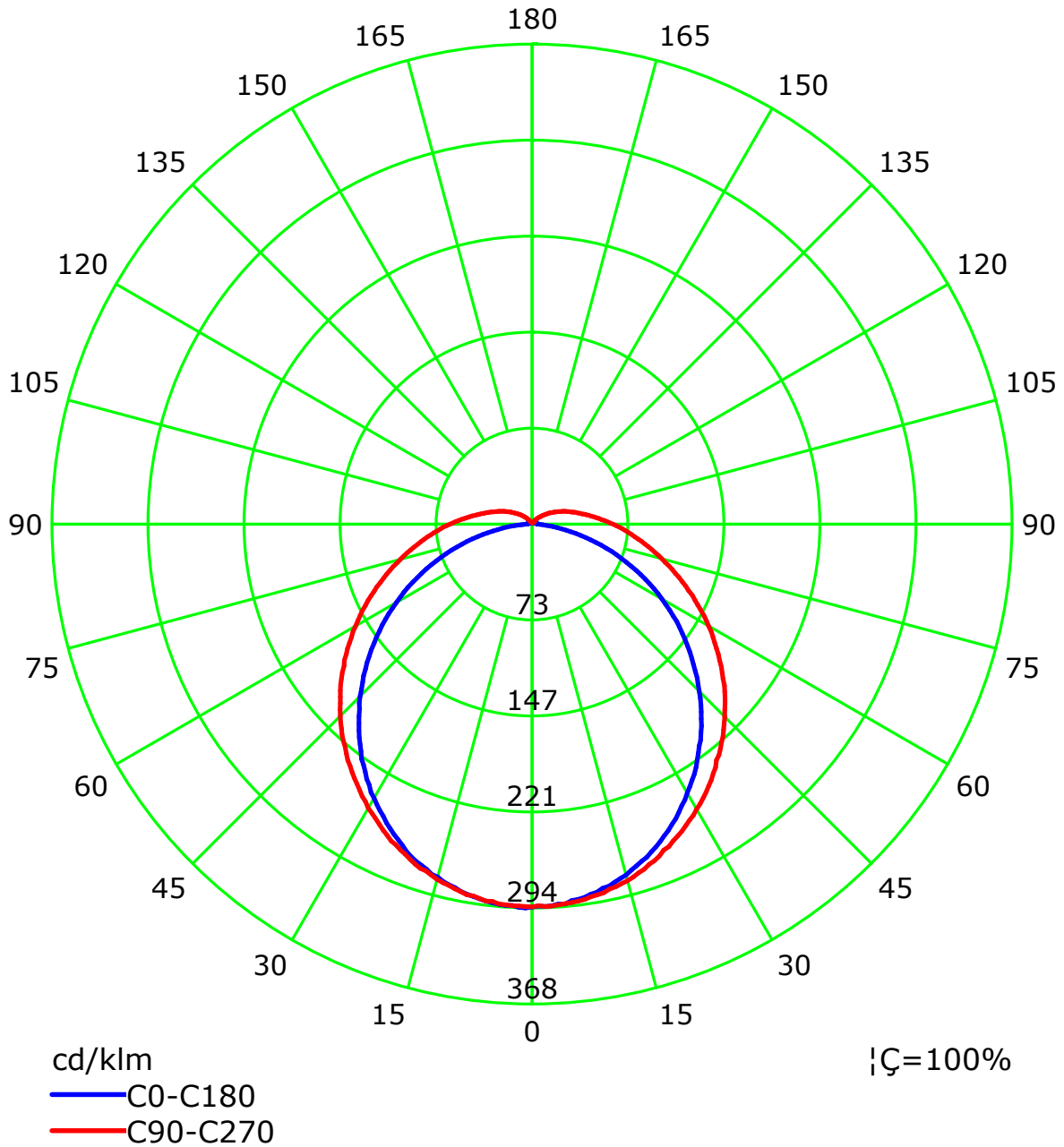
Luminous Intensity Distribution Curve



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)



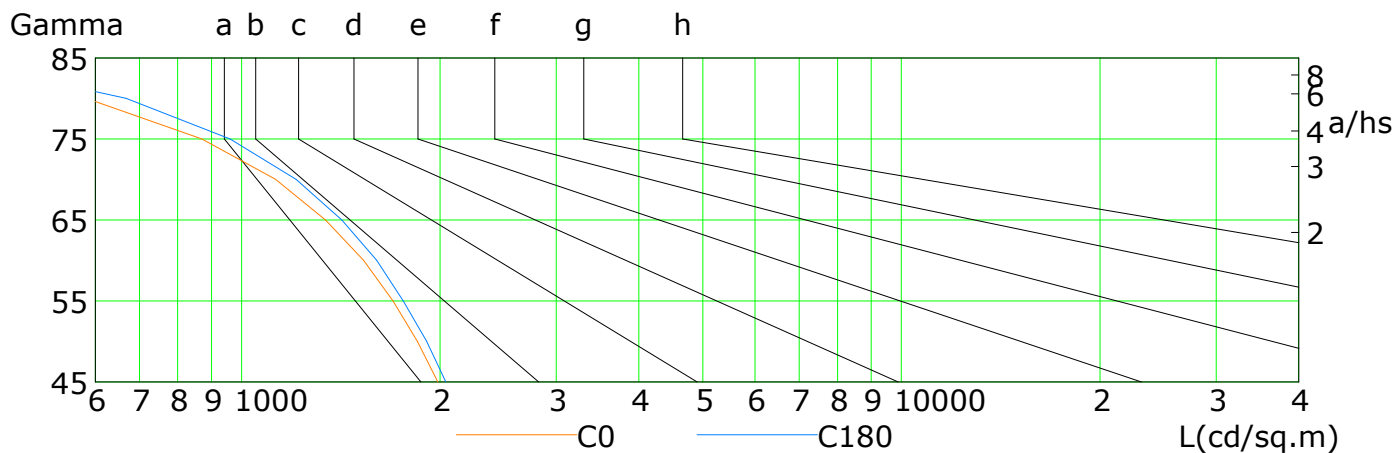
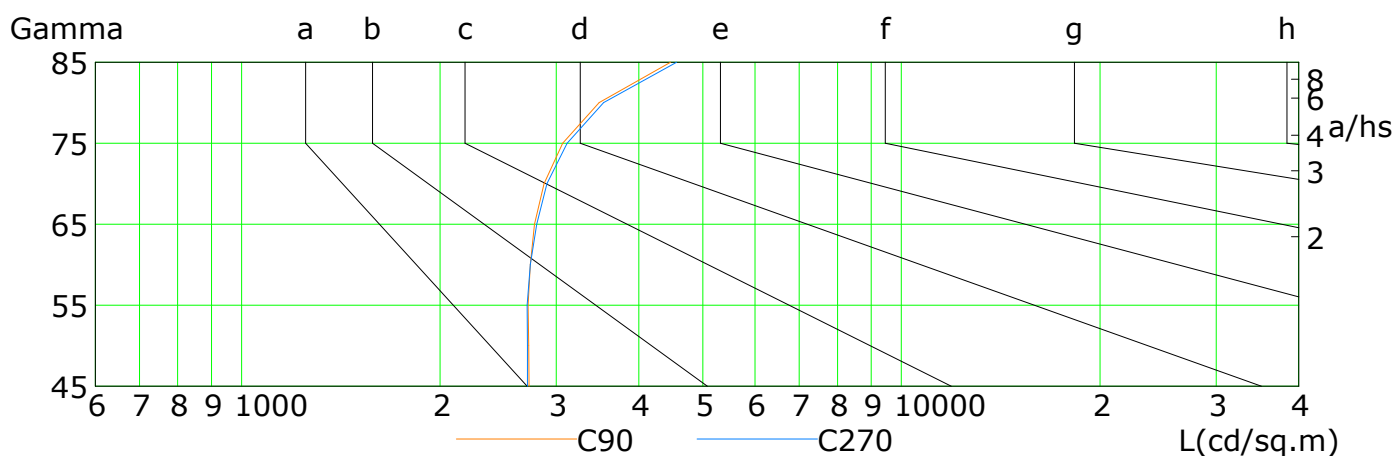
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

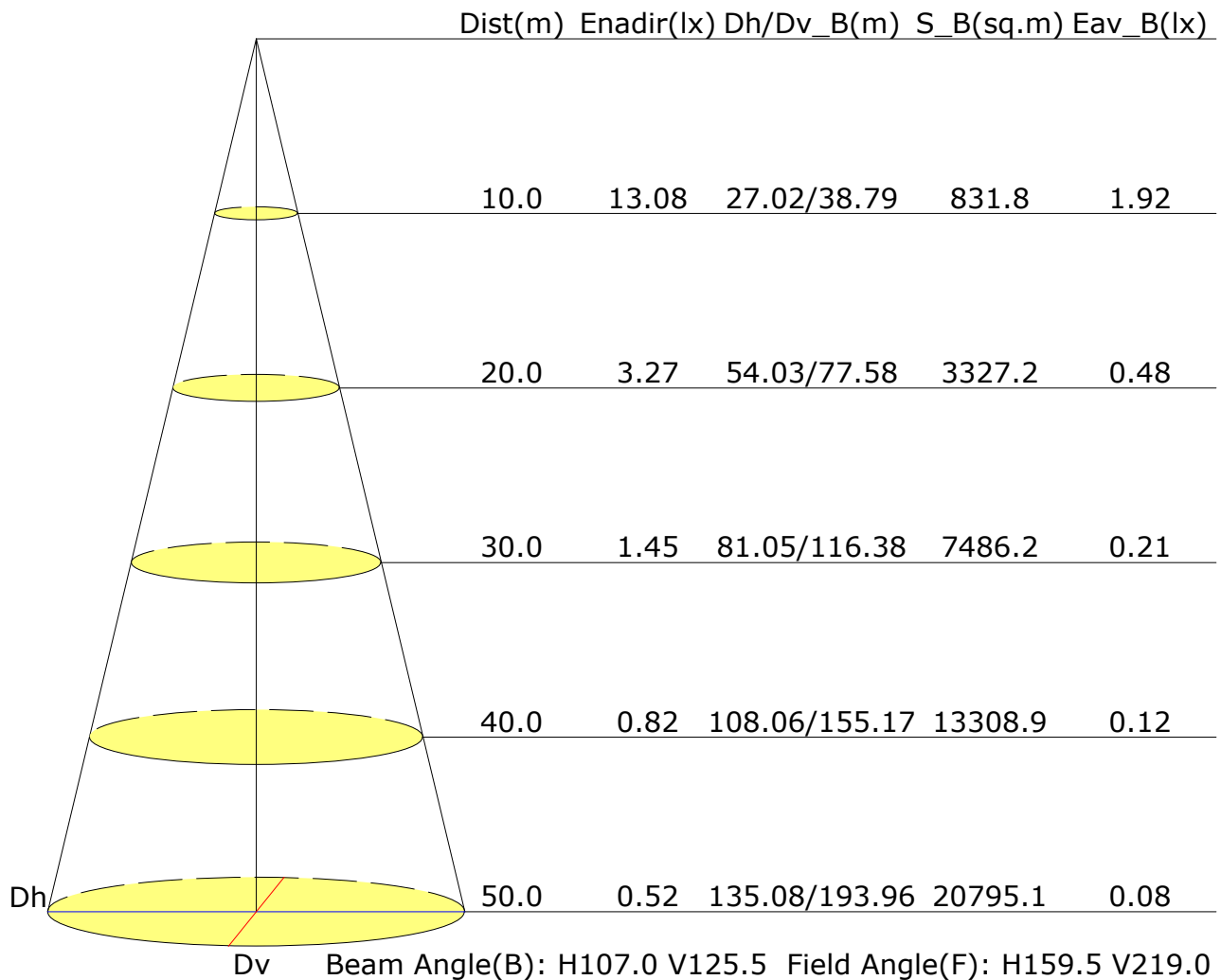


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1983	1846	1697	1531	1340	1126	871	582	288
C90	2726	2723	2718	2739	2778	2874	3067	3484	4465
C180	2039	1907	1758	1602	1418	1210	961	668	360
C270	2712	2712	2710	2740	2800	2902	3115	3539	4564

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	13.6	14.9	14.0	15.3	15.7	15.3	16.7	15.8	17.1	17.5
3H	14.8	16.0	15.3	16.5	16.9	17.4	18.7	17.9	19.1	19.5
4H	15.2	16.4	15.7	16.8	17.3	18.5	19.6	19.0	20.1	20.5
6H	15.5	16.6	16.0	17.0	17.5	19.6	20.7	20.1	21.1	21.6
8H	15.5	16.6	16.0	17.1	17.6	20.1	21.2	20.6	21.6	22.2
12H	15.6	16.6	16.1	17.0	17.5	20.7	21.7	21.2	22.2	22.7
X=4H Y=2H	14.5	15.6	14.9	16.0	16.5	15.8	17.0	16.3	17.4	17.9
3H	15.9	16.9	16.4	17.4	17.9	18.1	19.1	18.6	19.6	20.1
4H	16.5	17.4	17.0	17.9	18.4	19.3	20.2	19.9	20.7	21.3
6H	16.8	17.7	17.4	18.2	18.7	20.6	21.4	21.2	21.9	22.5
8H	16.9	17.7	17.5	18.2	18.8	21.3	22.0	21.8	22.6	23.2
12H	17.0	17.7	17.6	18.2	18.8	22.0	22.7	22.6	23.2	23.8
X=8H Y=4H	17.1	17.8	17.6	18.4	19.0	19.6	20.3	20.1	20.8	21.4
6H	17.7	18.3	18.3	18.9	19.5	21.0	21.7	21.6	22.2	22.9
8H	17.9	18.4	18.5	19.0	19.7	21.9	22.4	22.5	23.0	23.6
12H	18.0	18.5	18.6	19.1	19.8	22.8	23.2	23.4	23.8	24.5
X=12H Y=4H	17.2	17.9	17.8	18.5	19.1	19.6	20.2	20.1	20.8	21.4
6H	17.9	18.5	18.5	19.1	19.7	21.1	21.6	21.7	22.2	22.9
8H	18.2	18.7	18.9	19.3	20.0	22.0	22.5	22.6	23.1	23.7
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.2				
S=1.5H	+0.3/-0.5					+0.4/-0.4				
S=2.0H	+0.5/-1.0					+0.6/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 4448lm ($8\log(F/F_0) = 5.2$).

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	0.52	0.62	0.69	0.74	0.81	0.86	0.90	0.95	0.98	
	0.30		0.44	0.53	0.61	0.66	0.74	0.80	0.84	0.90	0.94	
	0.20		0.38	0.47	0.55	0.60	0.69	0.75	0.79	0.86	0.90	
0.50	0.50	0.20	0.49	0.59	0.65	0.70	0.77	0.81	0.85	0.89	0.92	
	0.30		0.42	0.52	0.58	0.64	0.71	0.76	0.80	0.85	0.89	
	0.20		0.37	0.46	0.53	0.58	0.66	0.72	0.76	0.82	0.86	
0.30	0.50	0.20	0.47	0.56	0.62	0.66	0.73	0.77	0.80	0.84	0.87	
	0.30		0.41	0.50	0.56	0.61	0.68	0.73	0.76	0.81	0.84	
	0.20		0.36	0.45	0.52	0.56	0.64	0.69	0.73	0.78	0.81	
0.00	0.00	0.00	0.33	0.42	0.48	0.52	0.59	0.64	0.67	0.72	0.75	
Rating:36W 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	1.03	0.86	0.75	0.66	0.54	0.45	0.39	0.31	0.26	
	0.30		0.86	0.74	0.65	0.58	0.49	0.42	0.36	0.29	0.25	
	0.20		0.74	0.65	0.58	0.52	0.44	0.38	0.34	0.28	0.24	
0.50	0.50	0.20	0.98	0.82	0.71	0.62	0.51	0.46	0.37	0.29	0.24	
	0.30		0.83	0.71	0.62	0.56	0.46	0.40	0.35	0.28	0.23	
	0.20		0.72	0.63	0.56	0.51	0.43	0.37	0.33	0.27	0.23	
0.30	0.50	0.20	0.93	0.77	0.67	0.59	0.48	0.40	0.35	0.28	0.23	
	0.30		0.80	0.68	0.60	0.53	0.44	0.38	0.33	0.27	0.22	
	0.20		0.70	0.61	0.54	0.49	0.41	0.35	0.31	0.25	0.22	
0.00	0.00	0.00	0.59	0.51	0.45	0.40	0.33	0.29	0.25	0.20	0.17	
Rating:36W 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	0.24	0.26	0.26	0.27	0.28	0.28	0.29	0.29	0.30	
	0.30		0.17	0.19	0.20	0.21	0.23	0.24	0.24	0.26	0.26	
	0.20		0.12	0.14	0.15	0.16	0.18	0.20	0.21	0.22	0.24	
0.50	0.50	0.20	0.23	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.28	
	0.30		0.17	0.18	0.19	0.20	0.22	0.23	0.24	0.25	0.26	
	0.20		0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23	
0.30	0.50	0.20	0.23	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.27	
	0.30		0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	
	0.20		0.12	0.13	0.15	0.16	0.17	0.19	0.20	0.21	0.22	
0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
Rating:36W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												