

Report No.: 1

Test Time: 14.11.2019 22:44

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 (50) 4x24LED 0,35A 37W 4000K opal

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 50

Voltage: 221.3 V

Current: 0.168 A

Power: 36.20 W

Power Factor: 0.973

Photometric Results

CIE Class: Direct

Measurement Flux: 3872 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3872.0 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.7, 164.4, 164.5, 164.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.1, 110.9, 111.0, 111.0

Luminaire Efficacy Rating (LER): 107.01

Central Intensity: 1348.44 cd

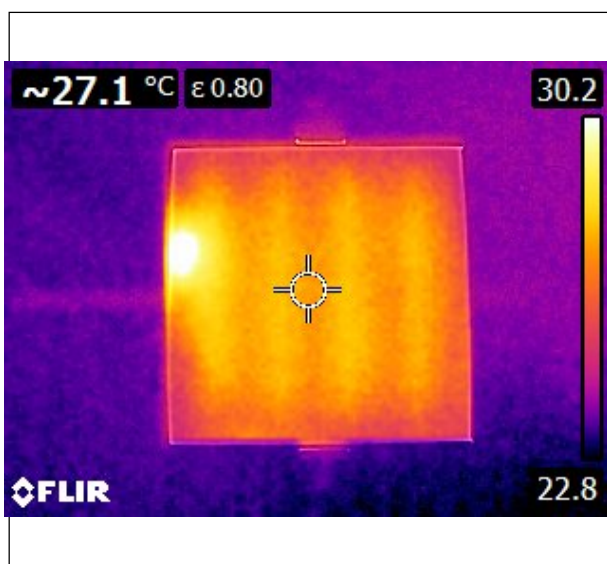
Max. Intensity: 1350.15 cd

Pos of Max. Intensity: H90 V3

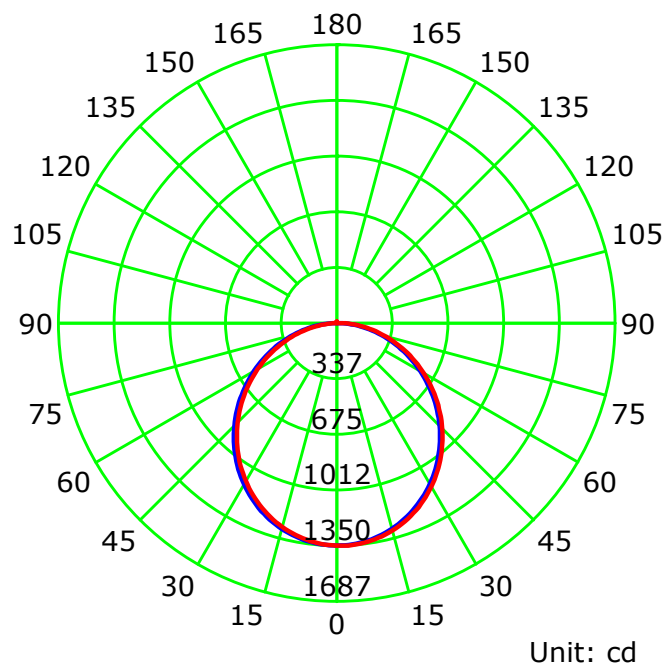
S/MH(C0/C180): 1.24

S/MH(C90/C270): 1.24

Termogramma



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

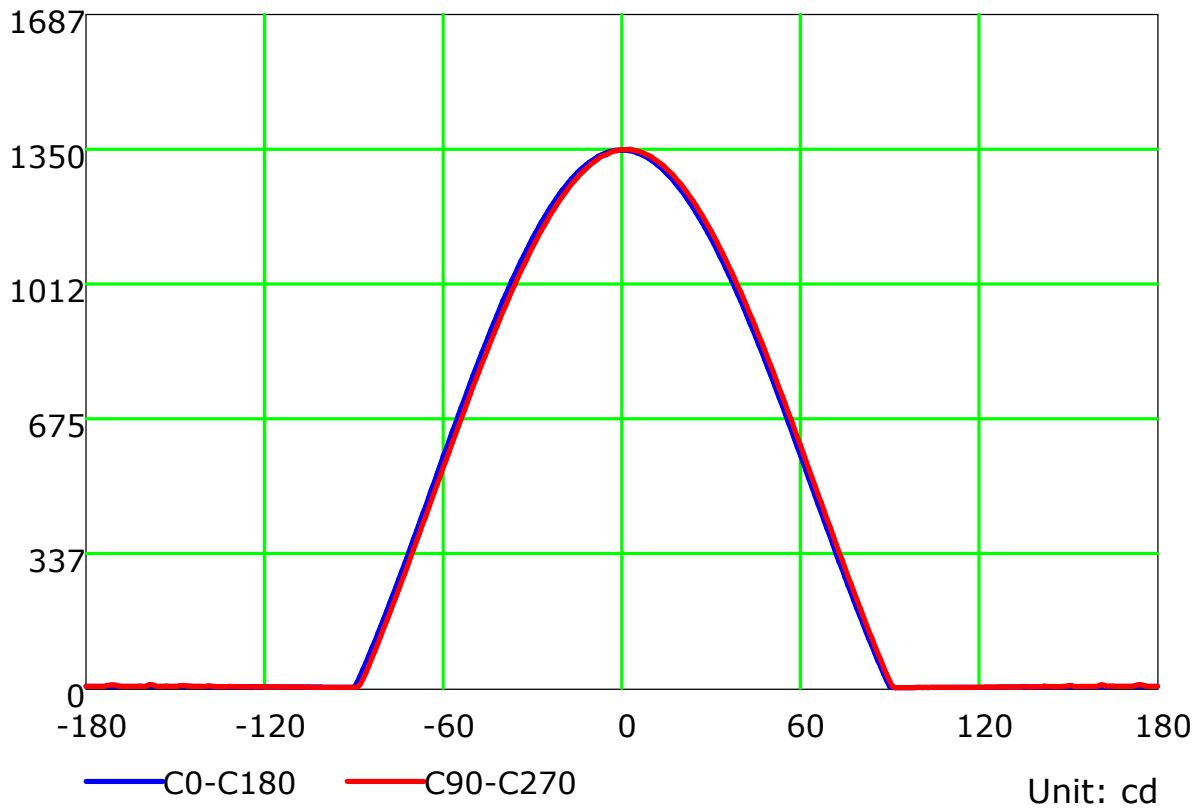
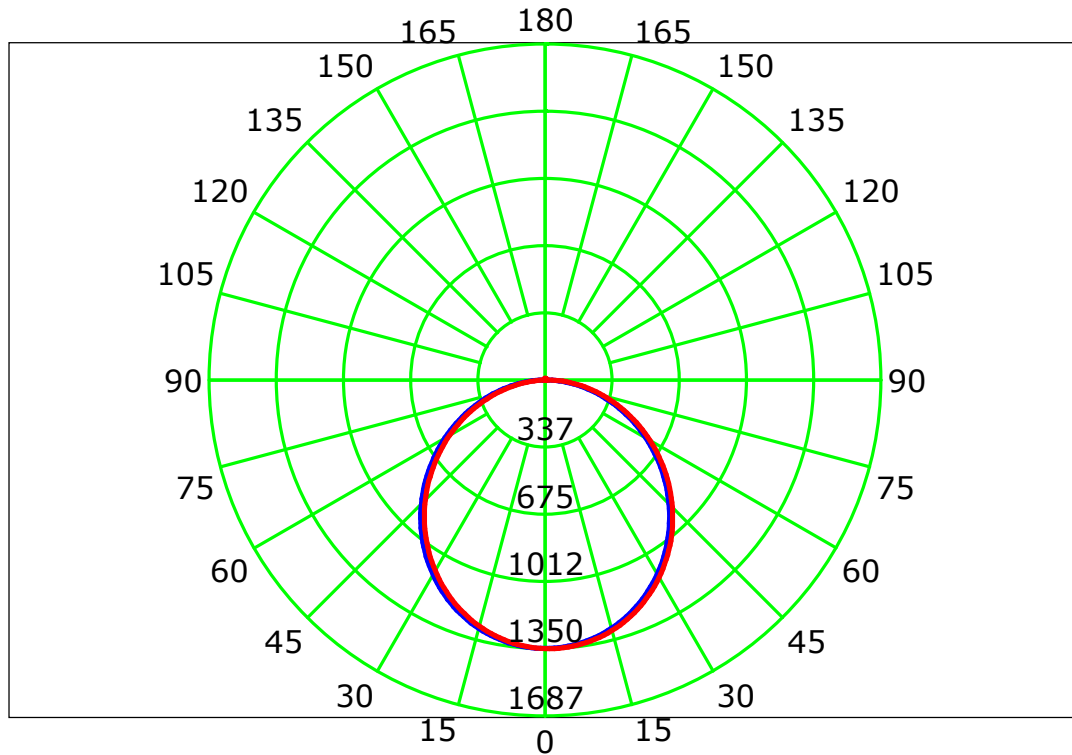
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

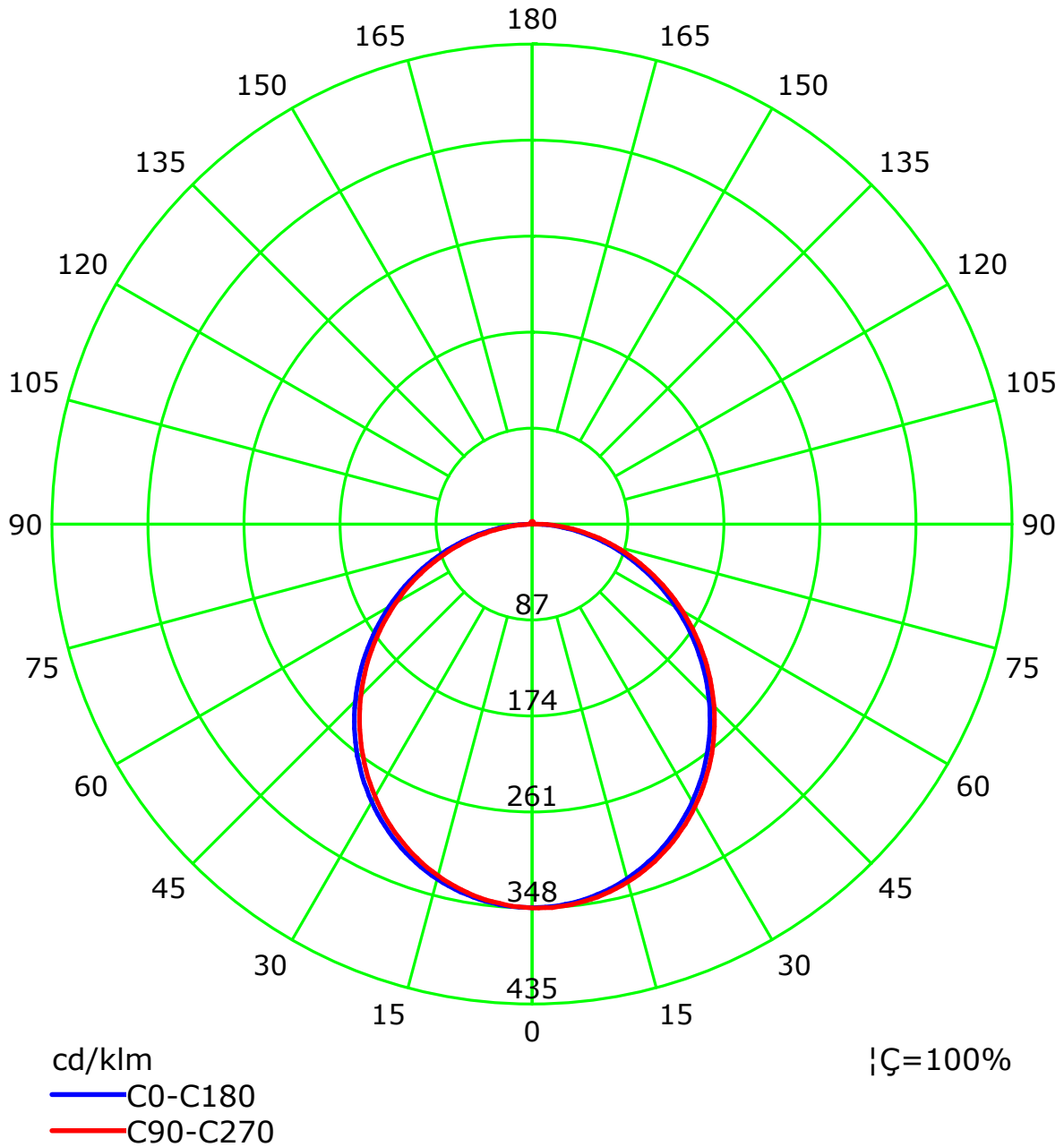
Luminous Intensity Distribution Curve



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

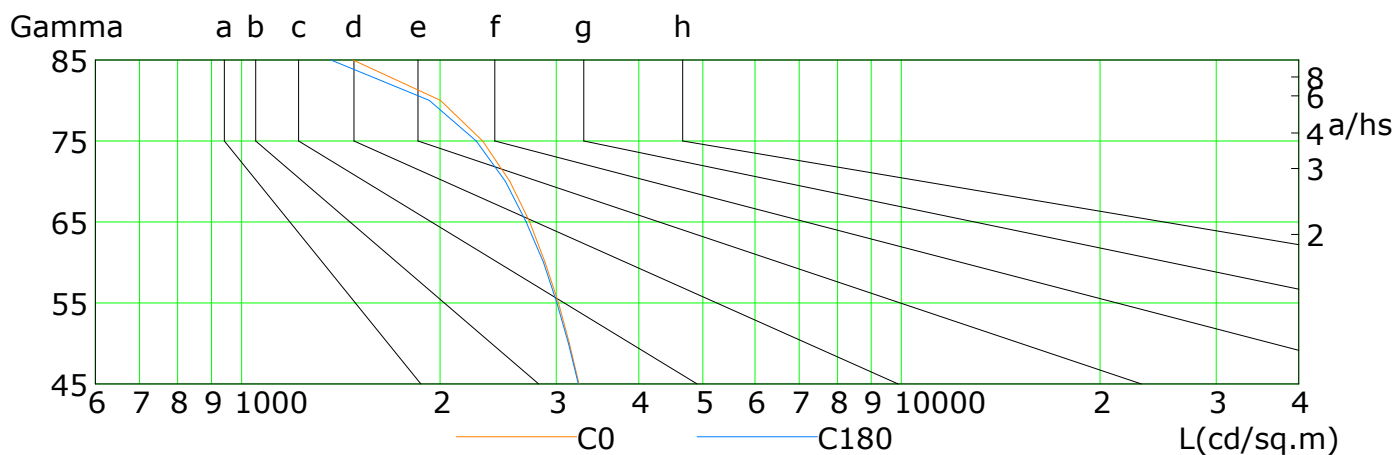
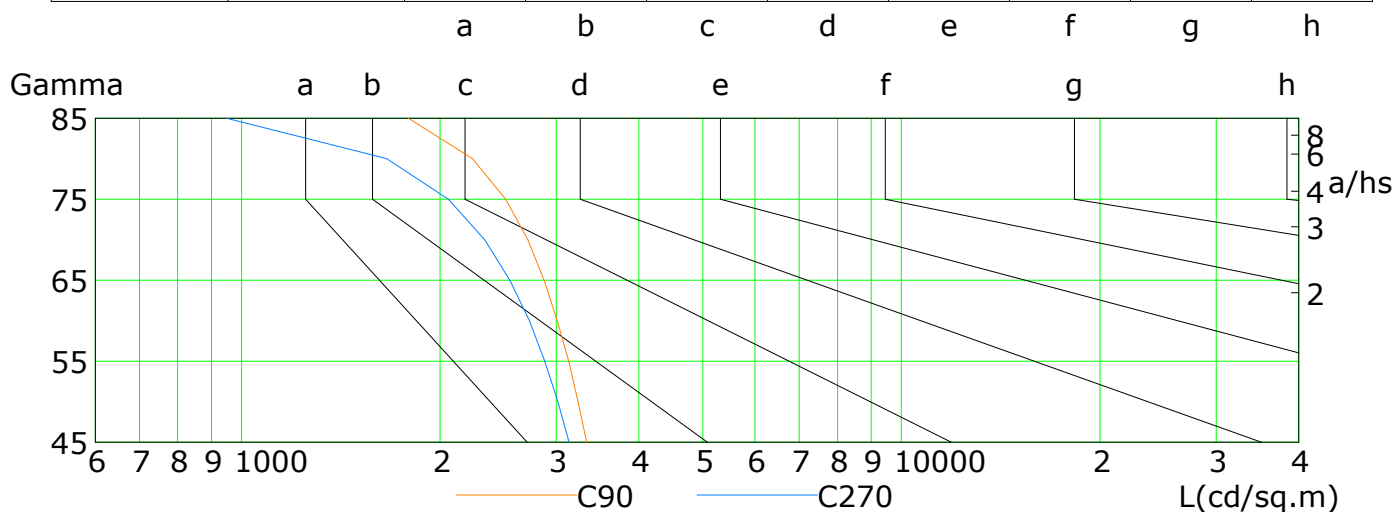
Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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

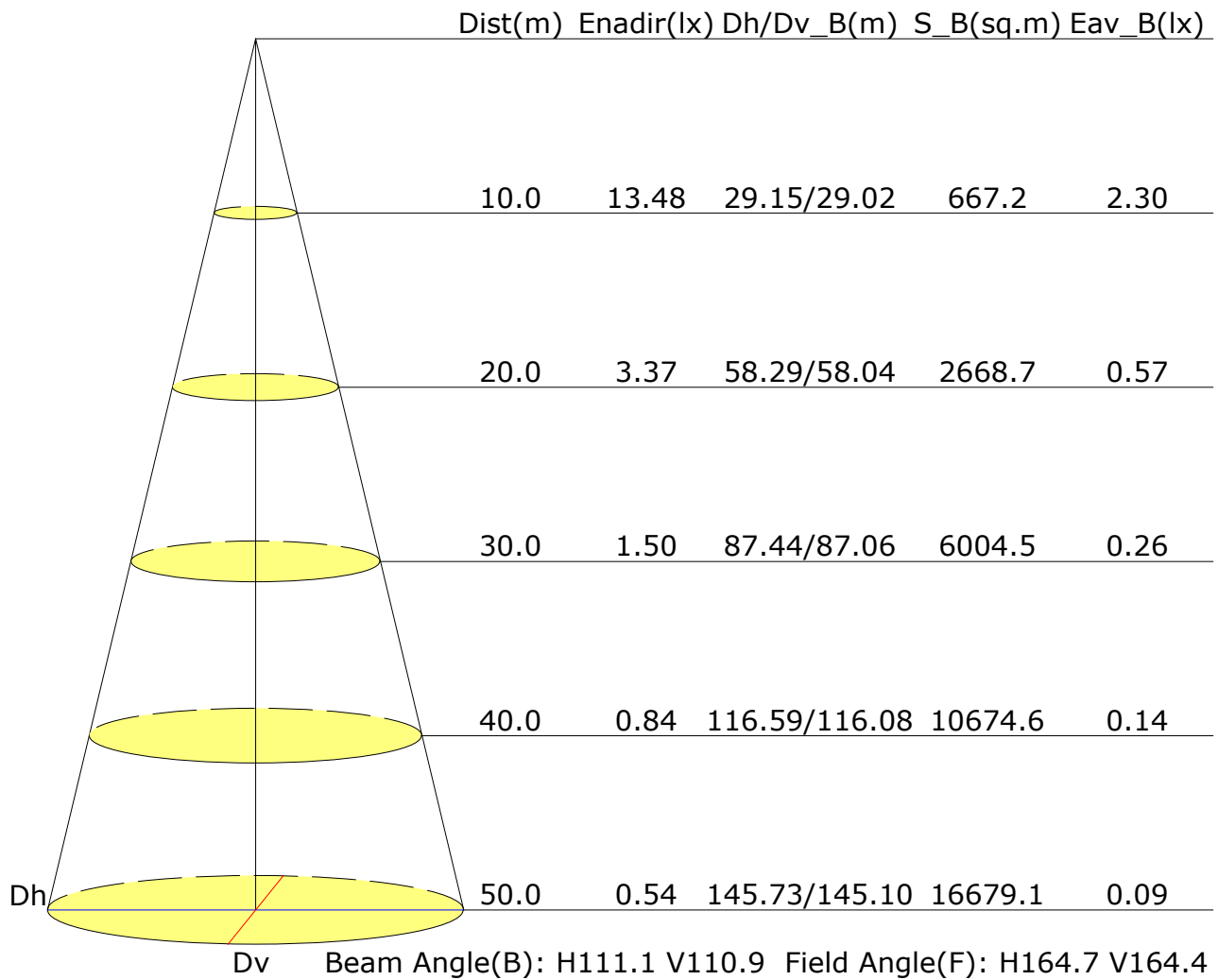


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3248	3138	3022	2884	2732	2550	2319	2001	1476
C90	3335	3235	3131	3008	2872	2714	2513	2239	1789
C180	3239	3129	3006	2867	2700	2509	2268	1925	1367
C270	3136	3017	2881	2730	2552	2334	2057	1659	949

C Plane (°):0.0-360.0: 22.5
 Test Lab:
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 Temperature:
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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	16.3	17.7	16.6	17.9	18.2	16.3	17.7	16.6	17.9	18.2
3H	17.8	19.1	18.2	19.4	19.7	17.8	19.1	18.1	19.4	19.6
4H	18.5	19.7	18.8	20.0	20.3	18.4	19.6	18.8	19.9	20.2
6H	18.9	20.1	19.3	20.4	20.7	18.9	20.0	19.3	20.4	20.7
8H	19.1	20.2	19.5	20.5	20.9	19.1	20.1	19.4	20.5	20.8
12H	19.2	20.2	19.6	20.6	20.9	19.2	20.2	19.6	20.5	20.9
X=4H Y=2H	16.9	18.1	17.3	18.4	18.7	16.9	18.1	17.3	18.4	18.7
3H	18.6	19.7	19.0	20.0	20.4	18.6	19.7	19.0	20.0	20.4
4H	19.4	20.3	19.8	20.7	21.1	19.4	20.3	19.8	20.7	21.1
6H	20.0	20.8	20.4	21.2	21.6	20.0	20.8	20.4	21.2	21.6
8H	20.2	21.0	20.7	21.4	21.8	20.2	21.0	20.6	21.4	21.8
12H	20.4	21.1	20.8	21.5	21.9	20.3	21.0	20.8	21.4	21.9
X=8H Y=4H	19.7	20.4	20.1	20.9	21.3	19.7	20.4	20.1	20.8	21.3
6H	20.4	21.0	20.9	21.5	22.0	20.4	21.0	20.9	21.5	22.0
8H	20.7	21.3	21.2	21.7	22.2	20.7	21.2	21.2	21.7	22.2
12H	20.9	21.4	21.4	21.9	22.4	20.9	21.4	21.4	21.9	22.4
X=12H Y=4H	19.7	20.4	20.2	20.8	21.3	19.7	20.4	20.2	20.8	21.3
6H	20.5	21.0	21.0	21.5	22.0	20.5	21.0	21.0	21.5	22.0
8H	20.8	21.3	21.3	21.8	22.3	20.8	21.3	21.3	21.8	22.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.4					+0.4/-0.5				
S=2.0H	+0.5/-0.8					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 3872lm ($8\log(F/F_0) = 4.7$).

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 = 1.25									
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	0.56	0.66	0.74	0.79	0.86	0.91	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.95	0.99	
	0.20		0.42	0.53	0.60	0.66	0.75	0.81	0.85	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.98	
	0.30		0.47	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.95	
	0.20		0.42	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.92	
0.30	0.50	0.20	0.53	0.62	0.69	0.73	0.80	0.84	0.88	0.92	0.94	
	0.30		0.46	0.56	0.63	0.68	0.75	0.80	0.84	0.89	0.92	
	0.20		0.42	0.51	0.58	0.64	0.72	0.77	0.81	0.86	0.90	
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85	
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	1.01	0.84	0.71	0.62	0.50	0.42	0.36	0.28	0.23	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.62	0.55	0.50	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.48	0.43	0.34	0.26	0.22	
	0.30		0.82	0.70	0.60	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.94	0.77	0.66	0.57	0.46	0.38	0.32	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.53	0.48	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
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	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	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	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	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	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21	
	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	0.08	0.09	0.11	0.13	0.14	0.15	0.16	
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:36W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												