

Report No.: 1

Test Time: 16.10.2019 16:23

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 48LED 0.3A 35W 4000K opal

Luminous Width (mm): 55

Voltage: 221.0 V

Power: 34.52 W

Luminous Length (mm): 900

Luminous Height (mm): 90

Current: 0.161 A

Power Factor: 0.966

Photometric Results

CIE Class: Direct

Measurement Flux: 4157.9 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.7, 163.1, 160.7, 160.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.6, 109.6, 109.1, 108.9

Luminaire Efficacy Rating (LER): 120.50

Max. Intensity: 1477.66 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 4157.9 lm

Efficiency: 100%

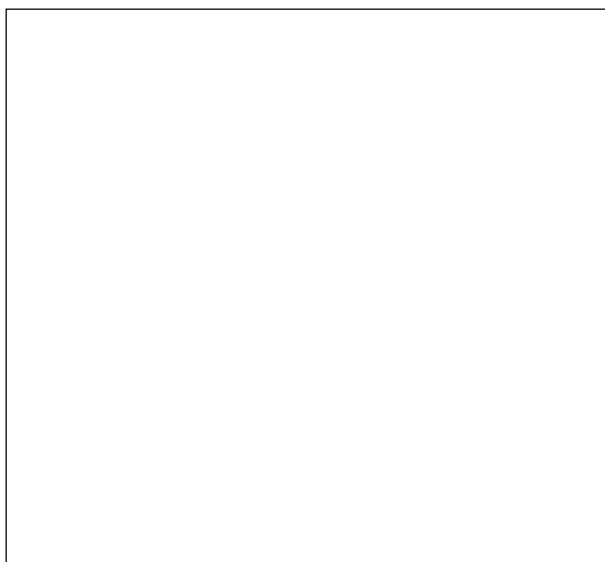
Upward Ratio: 1%

Central Intensity: 1477.24 cd

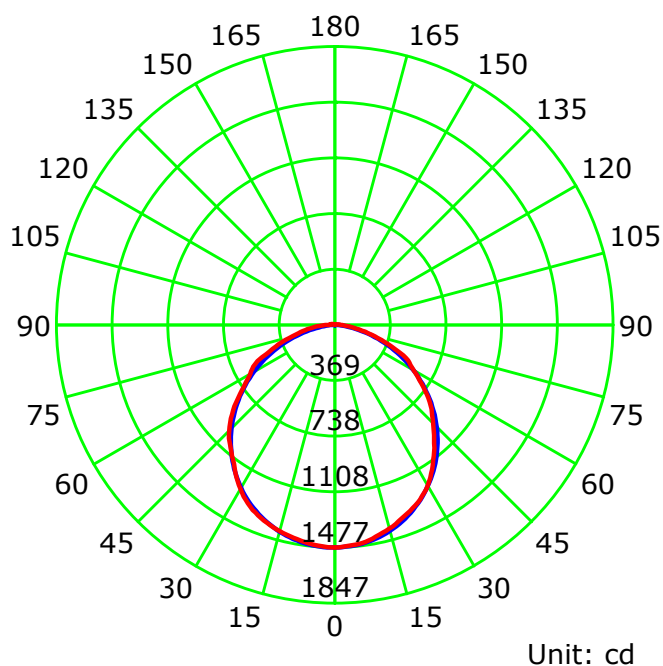
Pos of Max. Intensity: H67.5 V1

S/MH(C90/C270): 1.25

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

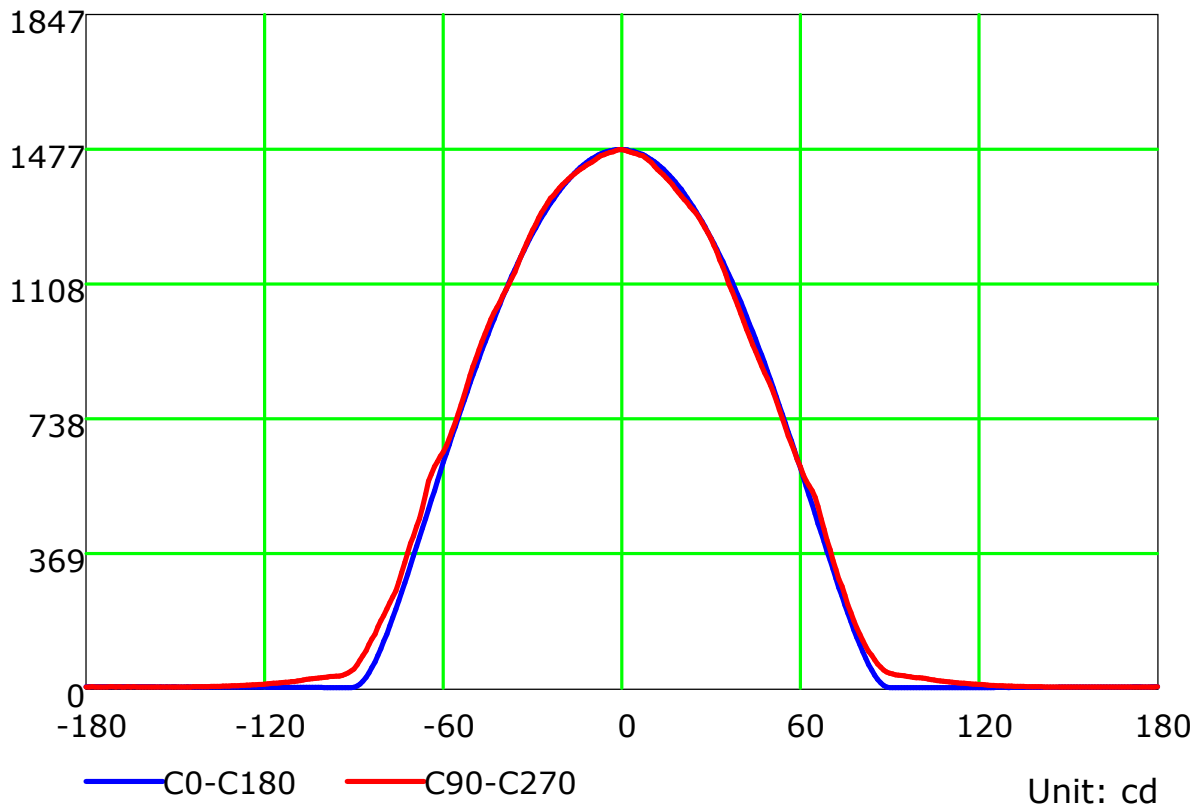
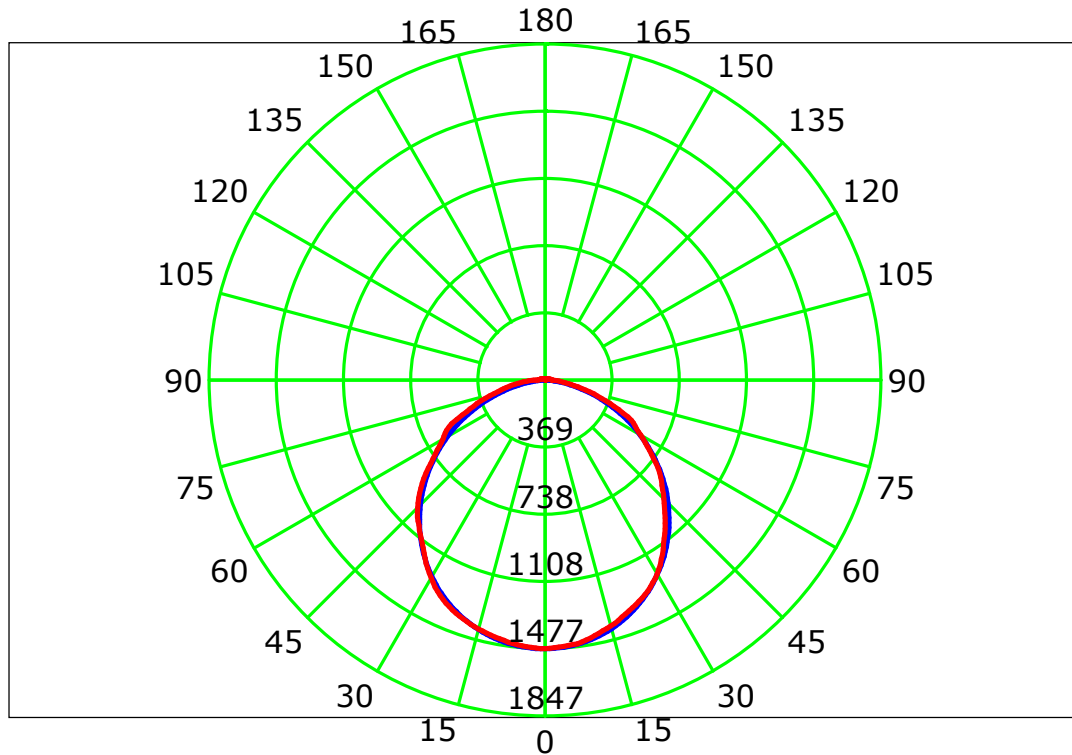
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

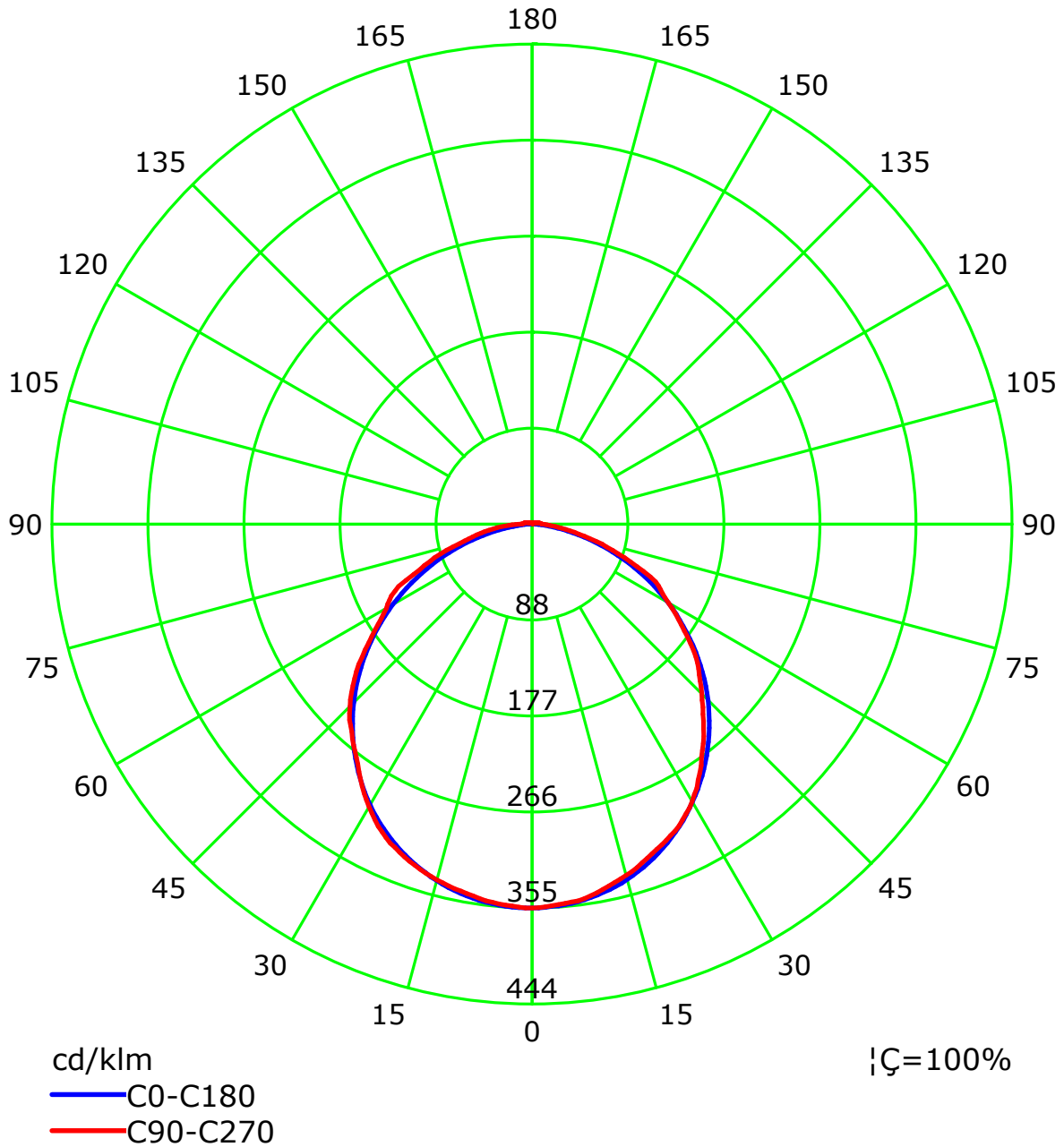
Luminous Intensity Distribution Curve



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)



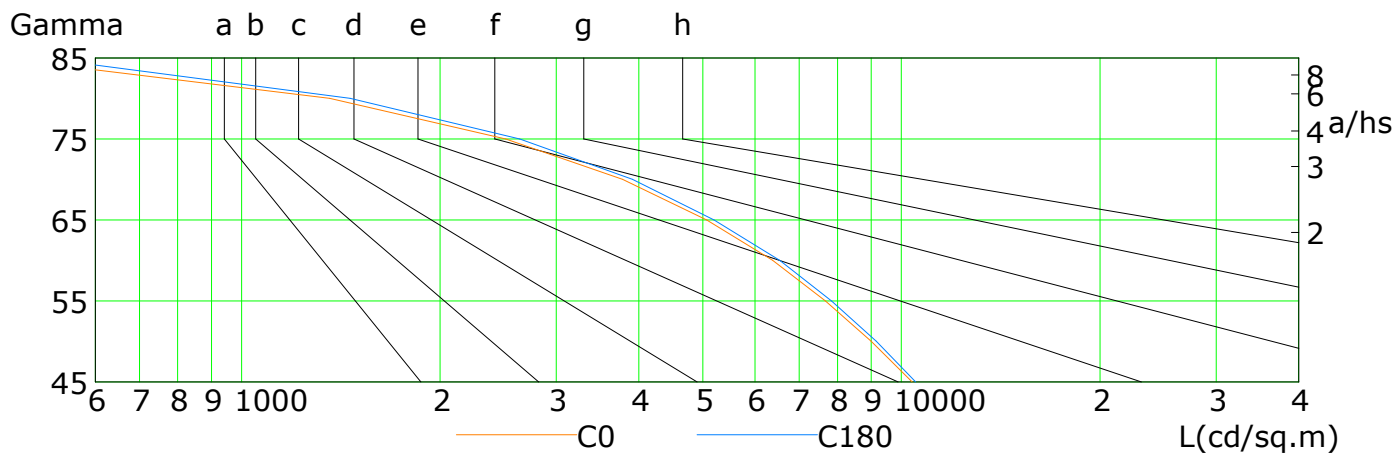
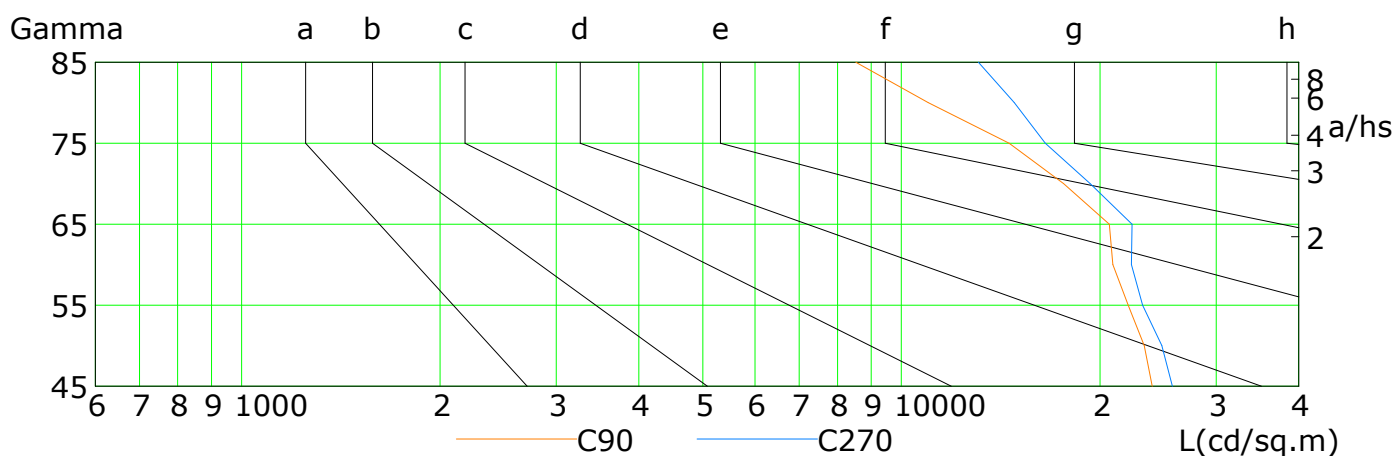
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

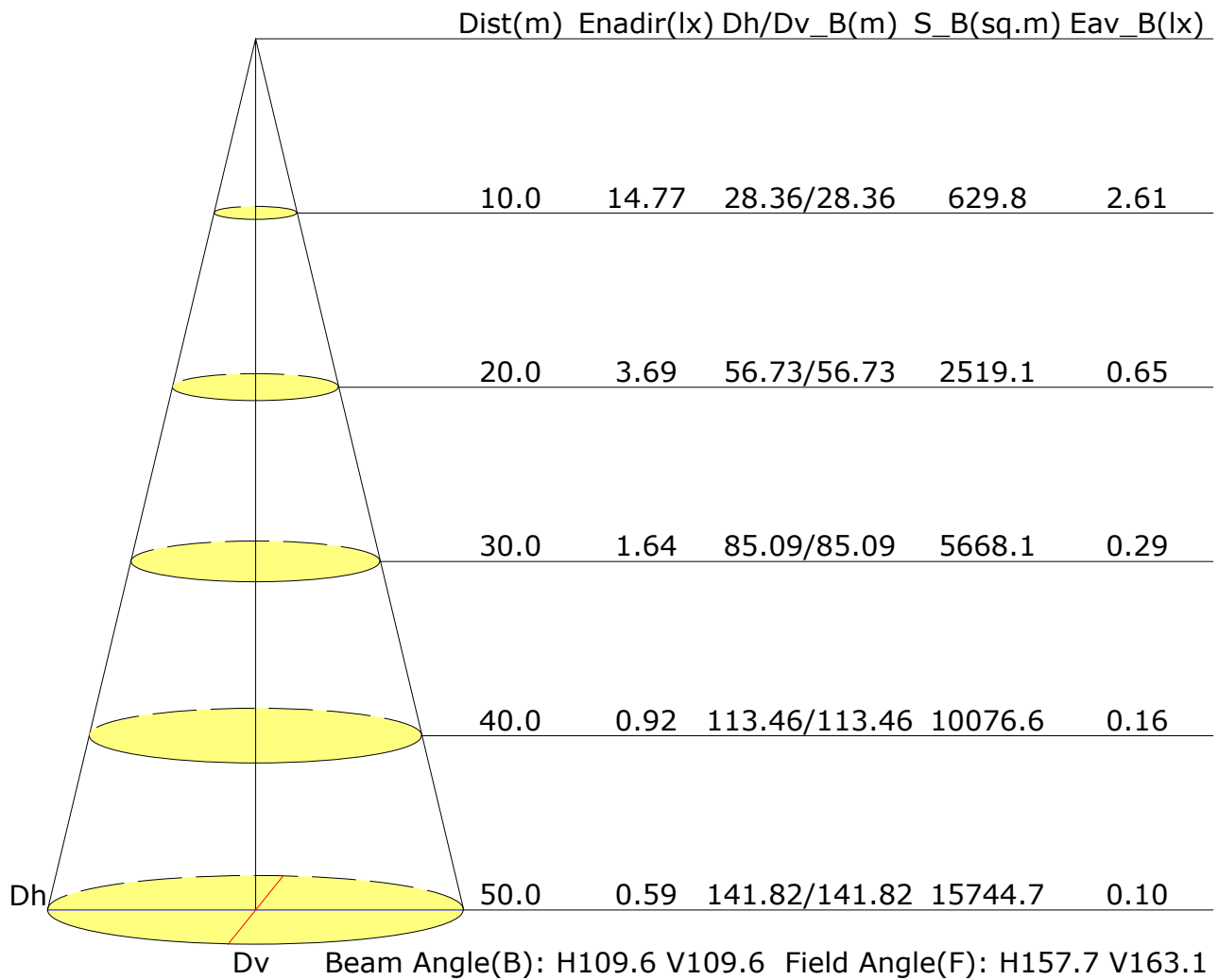


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	10378	9004	7671	6377	5070	3780	2512	1360	430
C90	24004	23328	22068	20917	20649	17615	14562	10980	8534
C180	10515	9160	7831	6537	5202	3911	2639	1461	499
C270	25759	24803	23210	22318	22356	19329	16518	14821	13085

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	19.7	21.1	20.0	21.3	21.6	21.9	23.3	22.2	23.5	23.8
3H	20.6	21.8	20.9	22.1	22.4	23.5	24.7	23.8	25.0	25.3
4H	20.8	22.0	21.2	22.3	22.6	24.0	25.2	24.4	25.5	25.8
6H	20.9	22.0	21.3	22.3	22.7	24.4	25.5	24.8	25.8	26.2
8H	20.9	22.0	21.3	22.3	22.7	24.5	25.6	24.9	25.9	26.3
12H	20.9	21.9	21.3	22.2	22.6	24.7	25.7	25.1	26.0	26.4
X=4H Y=2H	20.3	21.5	20.7	21.8	22.1	22.1	23.3	22.5	23.6	24.0
3H	21.3	22.3	21.7	22.7	23.1	23.8	24.8	24.2	25.2	25.6
4H	21.7	22.6	22.1	22.9	23.3	24.5	25.4	24.9	25.7	26.1
6H	21.8	22.6	22.2	23.0	23.4	24.9	25.7	25.4	26.1	26.6
8H	21.8	22.6	22.3	23.0	23.4	25.1	25.9	25.6	26.3	26.7
12H	21.8	22.5	22.3	22.9	23.4	25.3	25.9	25.8	26.4	26.9
X=8H Y=4H	21.9	22.6	22.3	23.0	23.5	24.5	25.2	24.9	25.7	26.1
6H	22.1	22.7	22.6	23.2	23.7	25.0	25.6	25.5	26.1	26.6
8H	22.2	22.7	22.7	23.2	23.7	25.3	25.8	25.8	26.3	26.8
12H	22.2	22.6	22.7	23.1	23.6	25.5	25.9	26.0	26.4	27.0
X=12H Y=4H	21.9	22.6	22.4	23.0	23.5	24.5	25.1	24.9	25.6	26.0
6H	22.2	22.7	22.7	23.2	23.7	25.0	25.6	25.5	26.0	26.6
8H	22.2	22.7	22.7	23.2	23.7	25.3	25.7	25.8	26.2	26.8
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.2				
S=1.5H	+0.5/-0.9					+0.7/-0.7				
S=2.0H	+0.9/-1.6					+1.3/-1.5				

Calculate in accordance with CIE Pub.117. The table is revised with 4158lm ($8\log(F/F_0) = 5.0$).

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	0.57	0.67	0.74	0.80	0.87	0.92	0.95	1.00	1.03	
	0.30		0.49	0.59	0.67	0.73	0.81	0.86	0.90	0.96	0.99	
	0.20		0.43	0.54	0.61	0.67	0.76	0.82	0.86	0.92	0.96	
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.84	0.88	0.92	0.96	0.98	
	0.30		0.48	0.58	0.65	0.71	0.78	0.84	0.87	0.92	0.96	
	0.20		0.43	0.53	0.60	0.66	0.74	0.80	0.84	0.89	0.93	
0.30	0.50	0.20	0.53	0.63	0.69	0.74	0.81	0.85	0.88	0.92	0.94	
	0.30		0.47	0.57	0.64	0.69	0.76	0.81	0.84	0.89	0.92	
	0.20		0.42	0.52	0.59	0.65	0.72	0.78	0.81	0.87	0.90	
0.00	0.00	0.00	0.40	0.50	0.56	0.62	0.69	0.74	0.77	0.82	0.85	
Rating:35W 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	0.99	0.82	0.70	0.61	0.48	0.40	0.34	0.27	0.22	
	0.30		0.83	0.70	0.61	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	
0.50	0.50	0.20	0.95	0.78	0.67	0.58	0.46	0.42	0.33	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.31	0.24	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.92	0.75	0.64	0.55	0.44	0.36	0.31	0.24	0.20	
	0.30		0.79	0.66	0.57	0.50	0.41	0.34	0.29	0.23	0.19	
	0.20		0.69	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.59	0.49	0.42	0.37	0.30	0.25	0.22	0.17	0.14	
Rating:35W 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	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.20	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	
	0.30		0.11	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	0.16	0.17	
0.30	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.20	0.20	0.21	0.21	
	0.30		0.10	0.12	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	0.13	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:35W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												