

Report No.: 1

Test Time: 29.10.2019 18:37

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 250 40LED 0,3A 30W 5000K opal IP54

Luminous Length (mm): 250

Luminous Width (mm): 250

Luminous Height (mm): 48

Voltage: 221.3 V

Current: 0.128 A

Power: 27.78 W

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Measurement Flux: 3373.7 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3373.7 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.7, 164.9, 164.8, 164.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.4, 111.8, 111.7, 111.6

Luminaire Efficacy Rating (LER): 121.49

Central Intensity: 1167.73 cd

Max. Intensity: 1168.18 cd

Pos of Max. Intensity: H45 V1

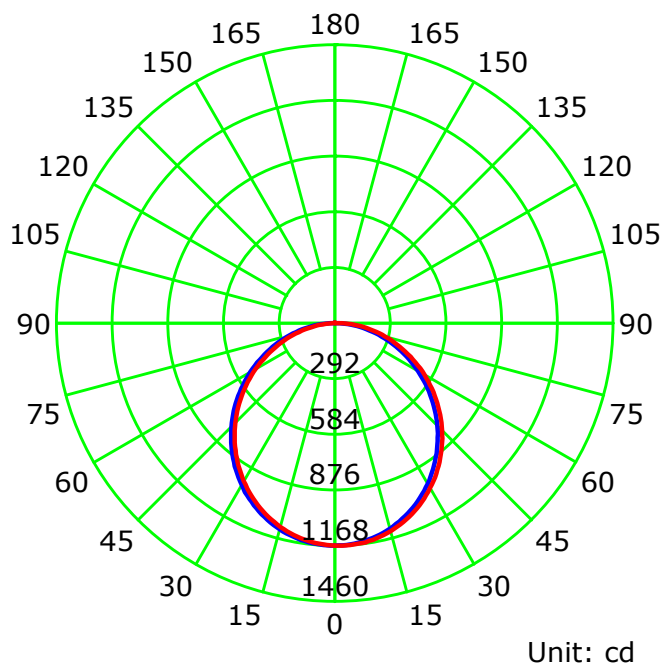
S/MH(C0/C180): 1.24

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

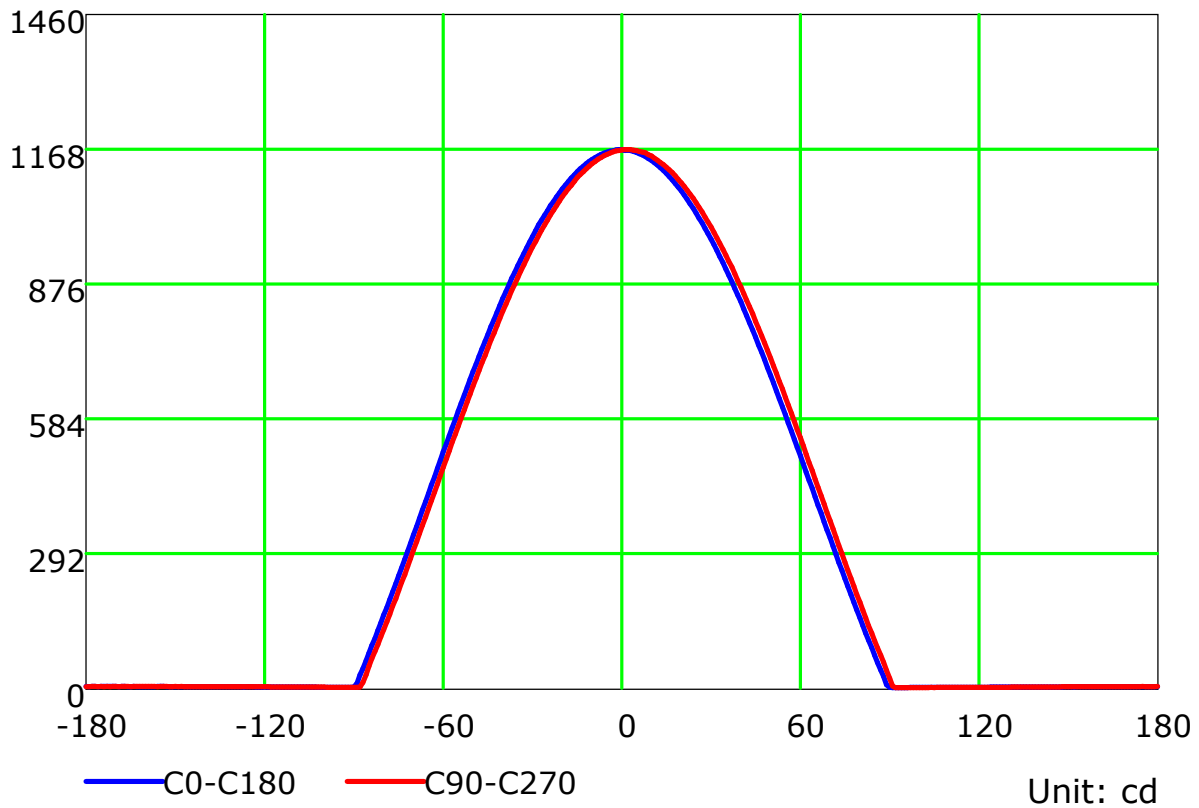
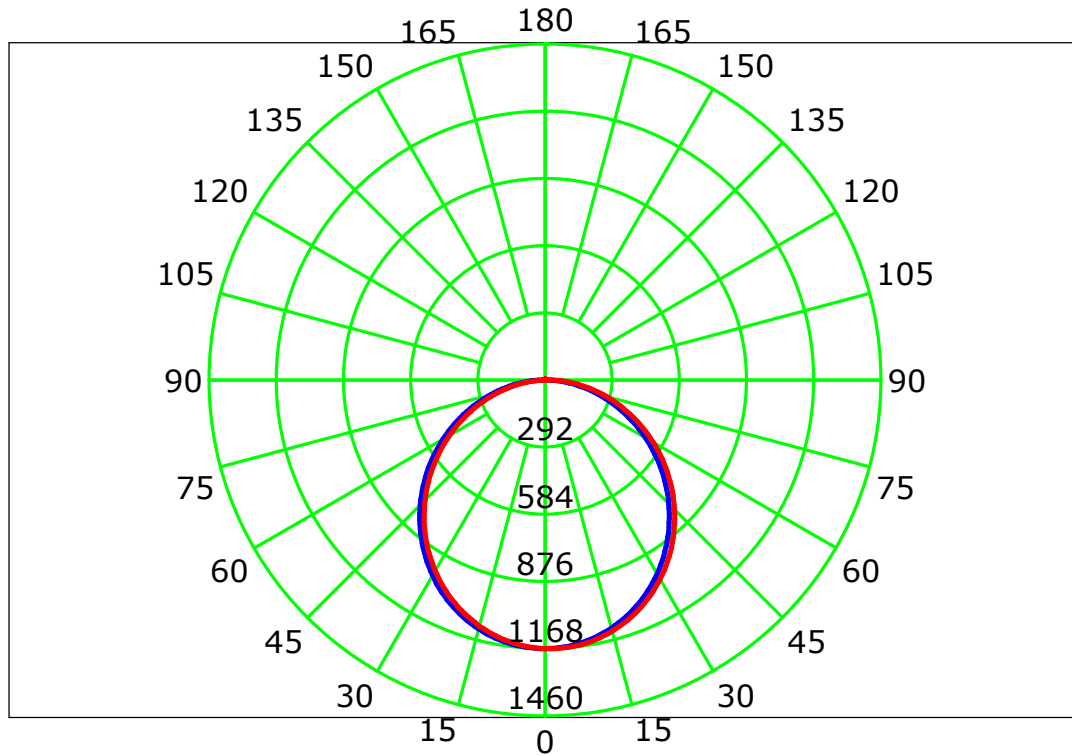
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

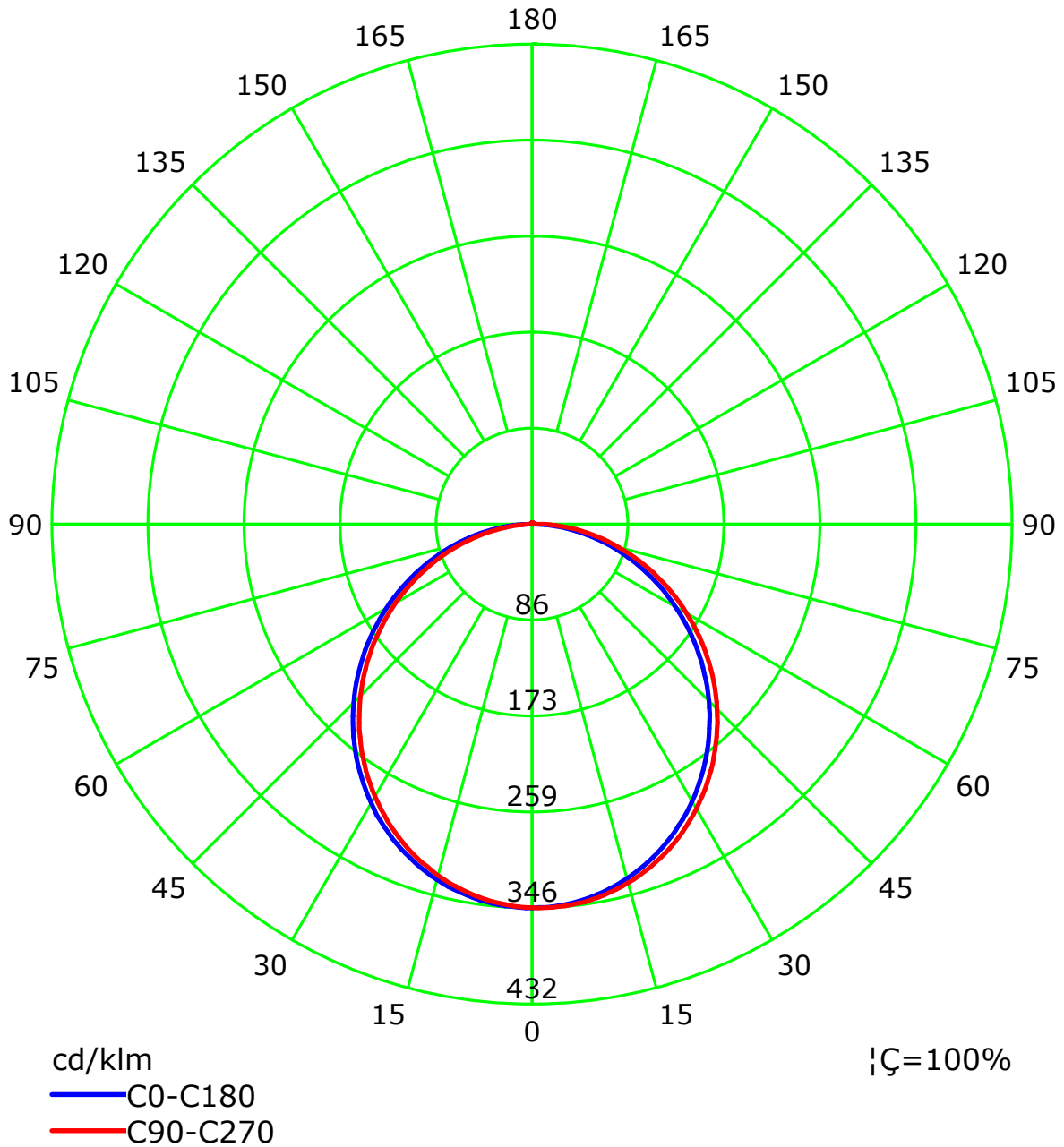
Luminous Intensity Distribution Curve



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:

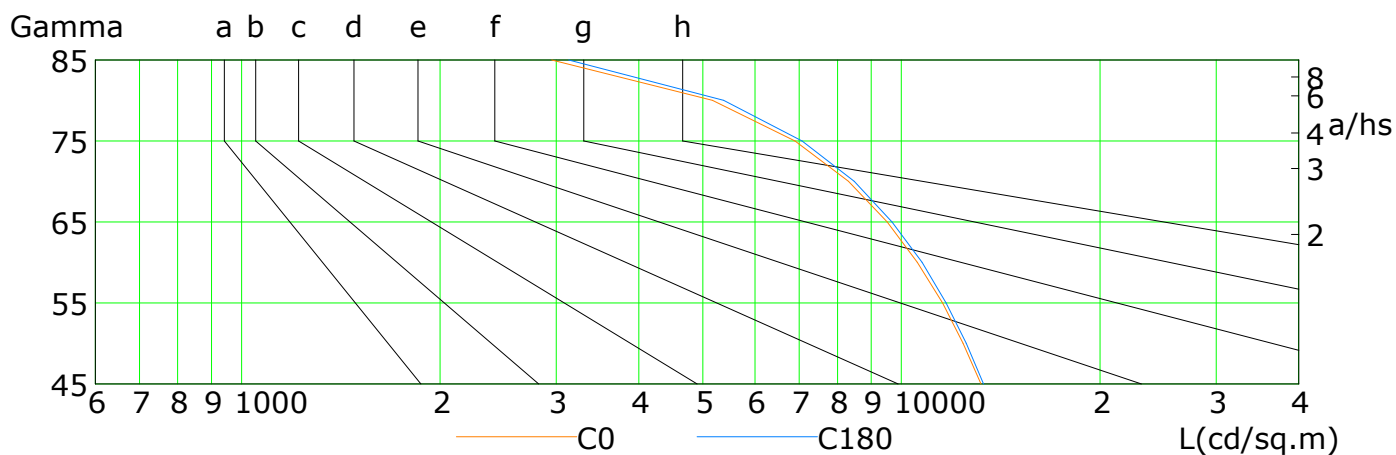
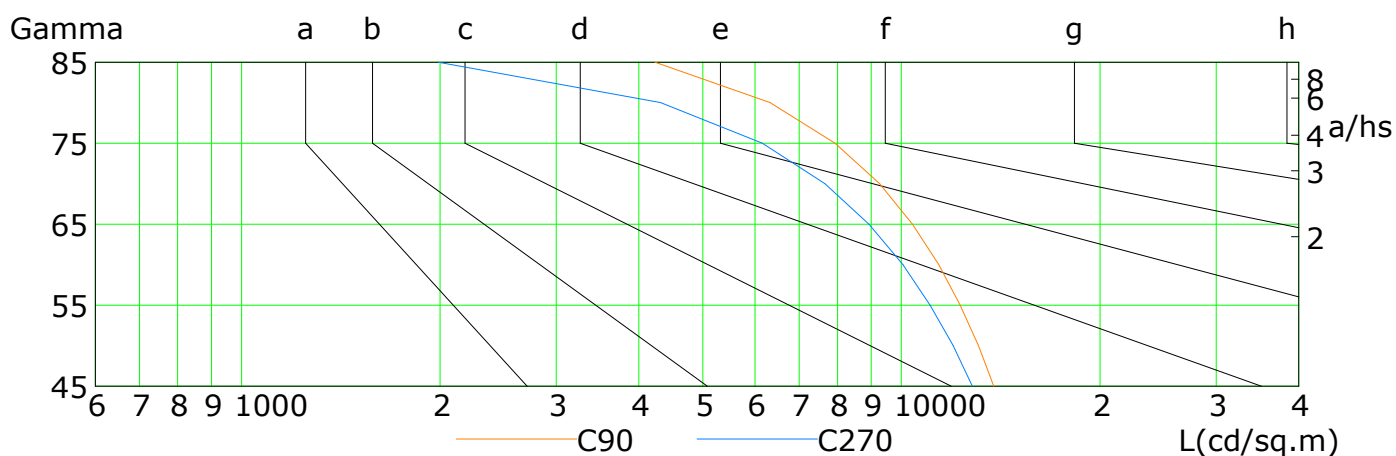
Luminous Intensity Distribution Curve(cd/klm)



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

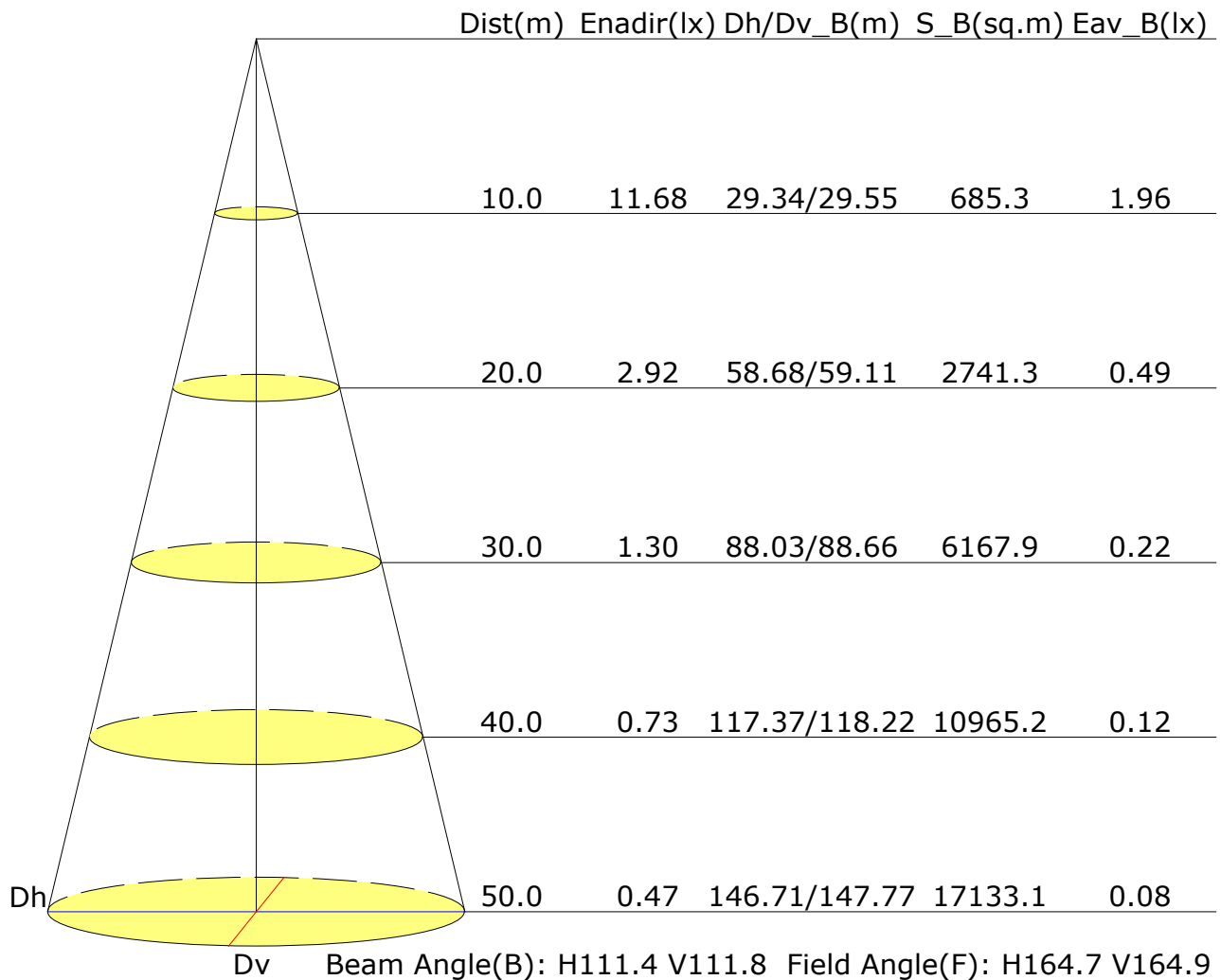


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	13206	12394	11540	10572	9516	8316	6901	5174	2952
C90	13804	13079	12276	11395	10389	9261	7930	6326	4235
C180	13325	12537	11687	10750	9674	8479	7073	5378	3132
C270	12816	11977	11051	10048	8925	7652	6153	4317	1988

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	20.7	22.1	21.1	22.4	22.7	20.8	22.2	21.1	22.5	22.7
3H	22.1	23.4	22.5	23.7	24.0	22.2	23.5	22.6	23.8	24.1
4H	22.6	23.9	23.0	24.2	24.5	22.8	24.0	23.1	24.3	24.6
6H	23.0	24.1	23.4	24.5	24.8	23.1	24.3	23.5	24.6	24.9
8H	23.1	24.2	23.5	24.5	24.9	23.2	24.3	23.6	24.7	25.0
12H	23.2	24.2	23.6	24.5	24.9	23.3	24.3	23.7	24.7	25.0
X=4H Y=2H	21.3	22.5	21.7	22.8	23.1	21.4	22.6	21.7	22.9	23.2
3H	22.8	23.9	23.2	24.2	24.6	22.9	24.0	23.3	24.3	24.7
4H	23.5	24.4	23.9	24.8	25.2	23.6	24.5	24.0	24.9	25.3
6H	24.0	24.8	24.4	25.2	25.6	24.1	24.9	24.5	25.3	25.7
8H	24.1	24.9	24.5	25.3	25.7	24.2	25.0	24.7	25.4	25.8
12H	24.2	24.9	24.6	25.3	25.8	24.3	25.0	24.8	25.5	25.9
X=8H Y=4H	23.7	24.5	24.2	24.9	25.3	23.8	24.6	24.2	25.0	25.4
6H	24.3	24.9	24.8	25.4	25.8	24.4	25.0	24.9	25.5	25.9
8H	24.5	25.0	25.0	25.5	26.0	24.6	25.2	25.1	25.6	26.1
12H	24.6	25.1	25.1	25.6	26.1	24.8	25.3	25.3	25.7	26.3
X=12H Y=4H	23.7	24.4	24.2	24.8	25.3	23.8	24.5	24.3	24.9	25.4
6H	24.3	24.9	24.8	25.3	25.8	24.4	25.0	24.9	25.5	26.0
8H	24.6	25.0	25.1	25.5	26.0	24.7	25.2	25.2	25.7	26.2
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.5					+0.4/-0.6				
S=2.0H	+0.6/-0.9					+0.5/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3374lm ($8\log(F/F_0) = 4.2$).

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	0.56	0.66	0.73	0.79	0.86	0.91	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.85	0.90	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.74	0.81	0.85	0.91	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.95	0.98	
	0.30		0.47	0.57	0.64	0.70	0.77	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		0.41	0.51	0.58	0.64	0.71	0.77	0.81	0.86	0.89	
0.00	0.00	0.00	0.39	0.49	0.55	0.61	0.68	0.73	0.77	0.81	0.85	
Rating:28W 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	0.72	0.63	0.50	0.42	0.36	0.28	0.23	
	0.30		0.84	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.63	0.55	0.50	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.97	0.81	0.69	0.60	0.48	0.43	0.34	0.27	0.22	
	0.30		0.82	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.72	0.62	0.54	0.49	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.77	0.66	0.58	0.46	0.38	0.33	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	0.61	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
Rating:28W 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	0.09	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:28W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												