

Report No.:

Test Time: 23.10.2020 14:55

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 250 40LED 35W 4000K opal ШИМ

Luminous Length (mm): 270

Luminous Width (mm): 270

Luminous Height (mm): 70

Voltage: 221.4 V

Current: 0.163 A

Power: 35.25 W

Power Factor: 0.974

Photometric Results

CIE Class: Direct

Measurement Flux: 3746.9 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 3746.9 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.7, 161.1, 163.5, 163.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.3, 112.3, 112.4, 112.3

Luminaire Efficacy Rating (LER): 106.34

Central Intensity: 1300.59 cd

Max. Intensity: 1300.59 cd

Pos of Max. Intensity: H0 V0

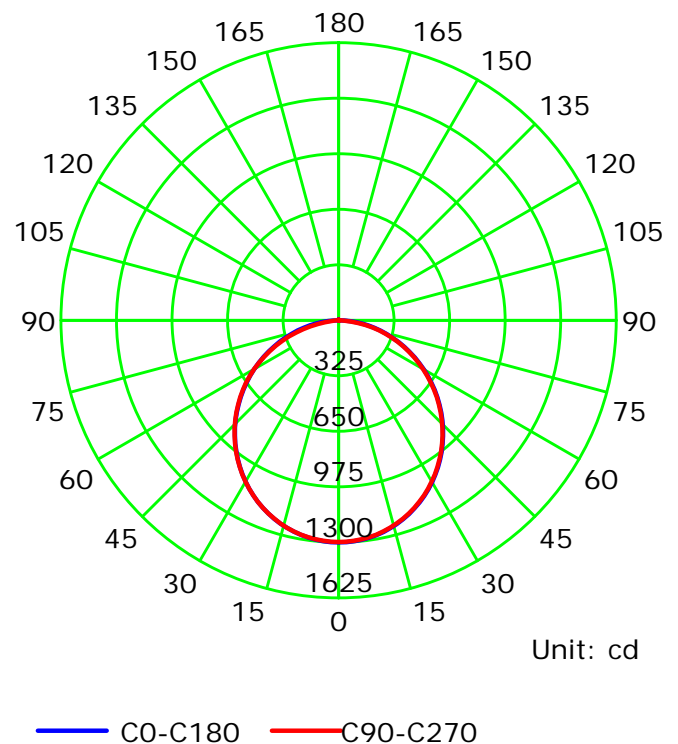
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.25

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

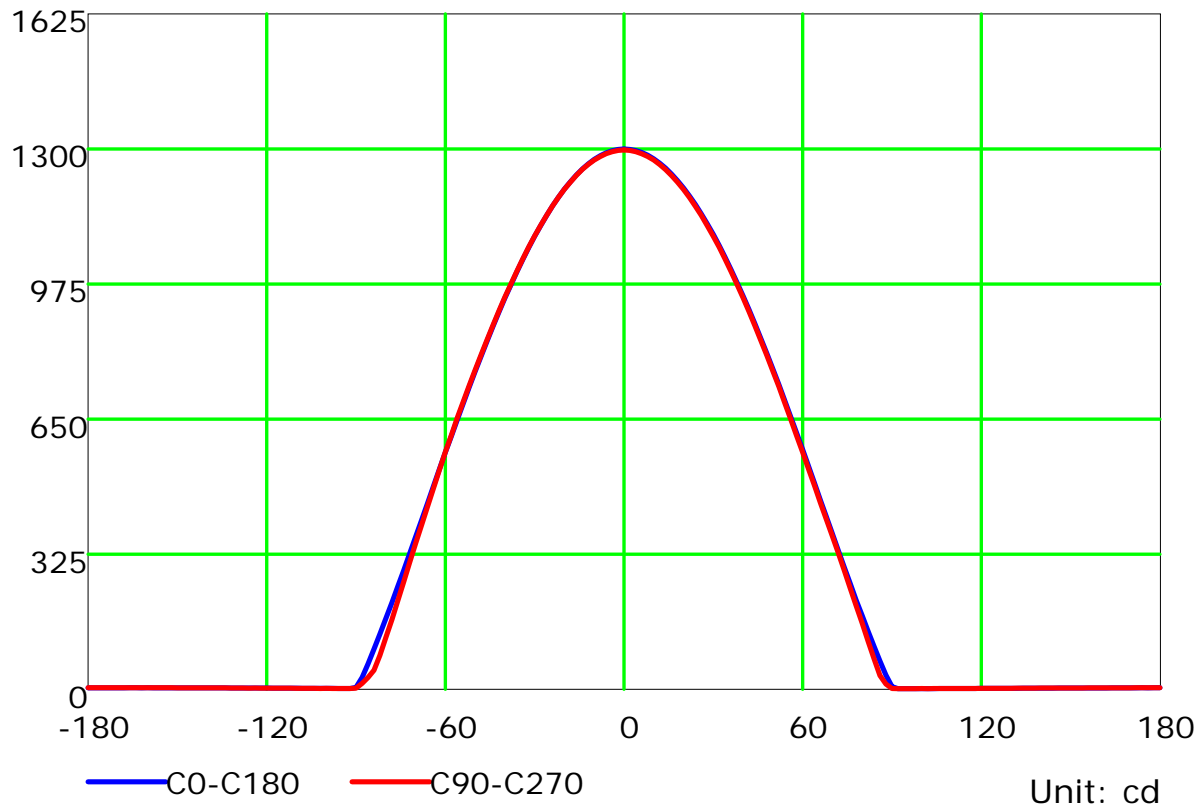
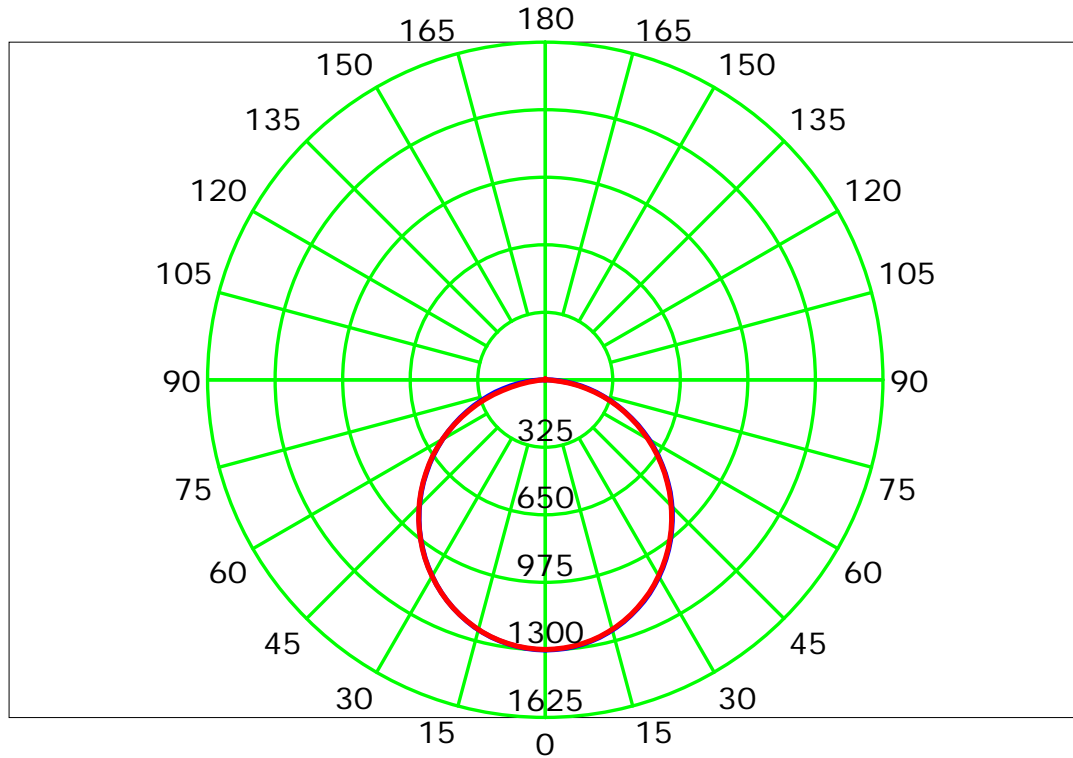
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

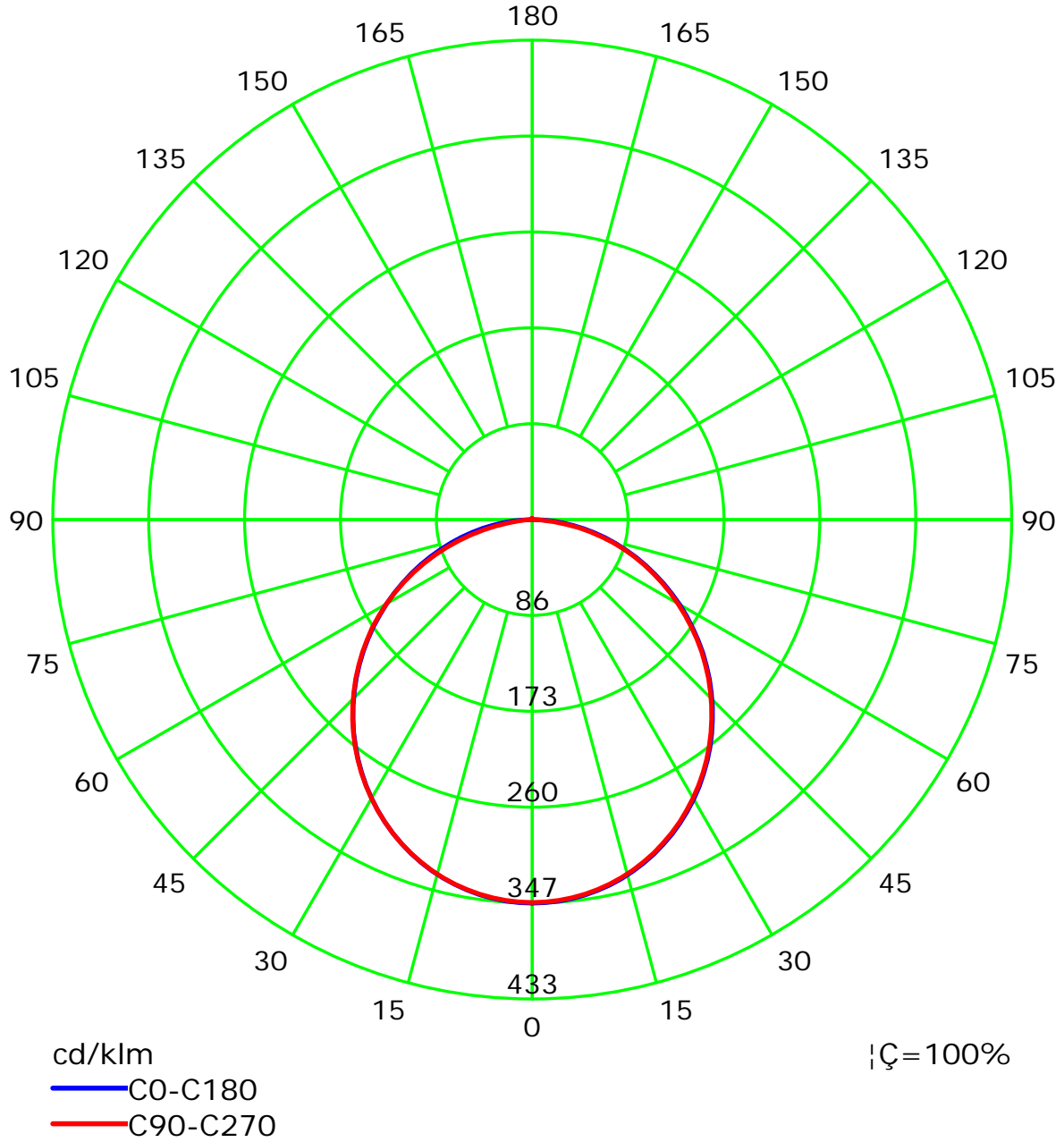
Luminous Intensity Distribution Curve



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

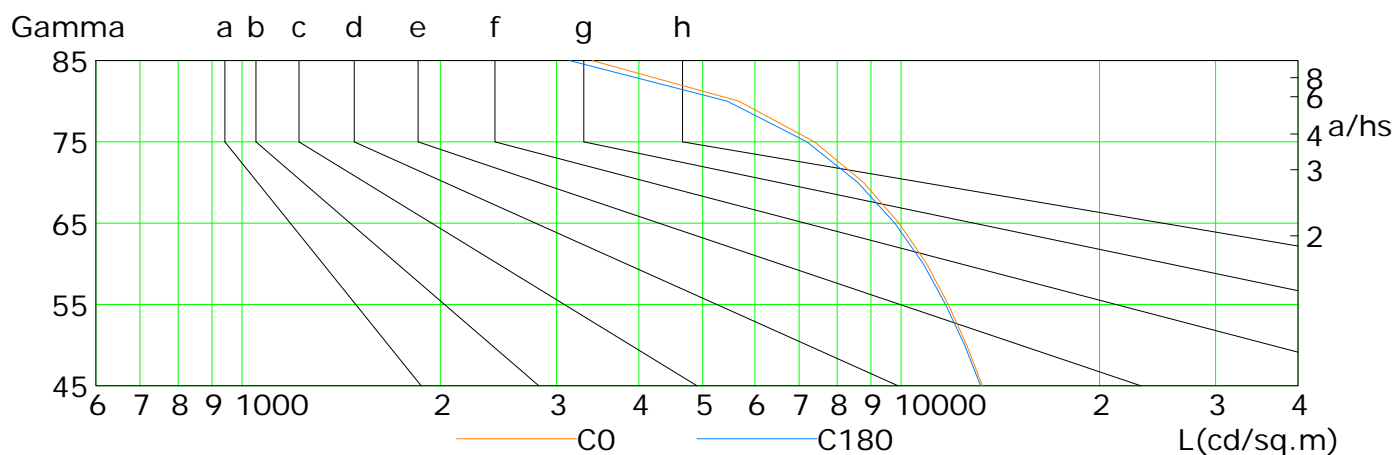
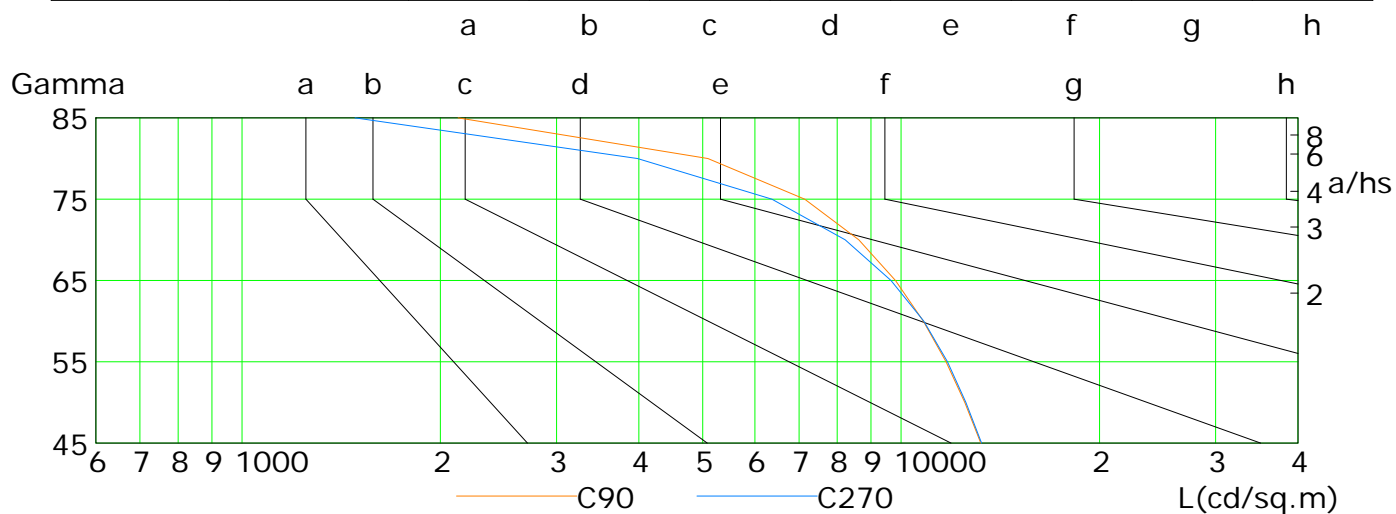
Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.682 m
Humidity:
Inspector:

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	13278	12570	11791	10933	9926	8770	7388	5673	3398
C90	13208	12491	11701	10808	9804	8627	7139	5090	2128
C180	13198	12480	11681	10805	9781	8596	7197	5451	3139
C270	13242	12536	11758	10821	9649	8224	6366	3980	1484

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

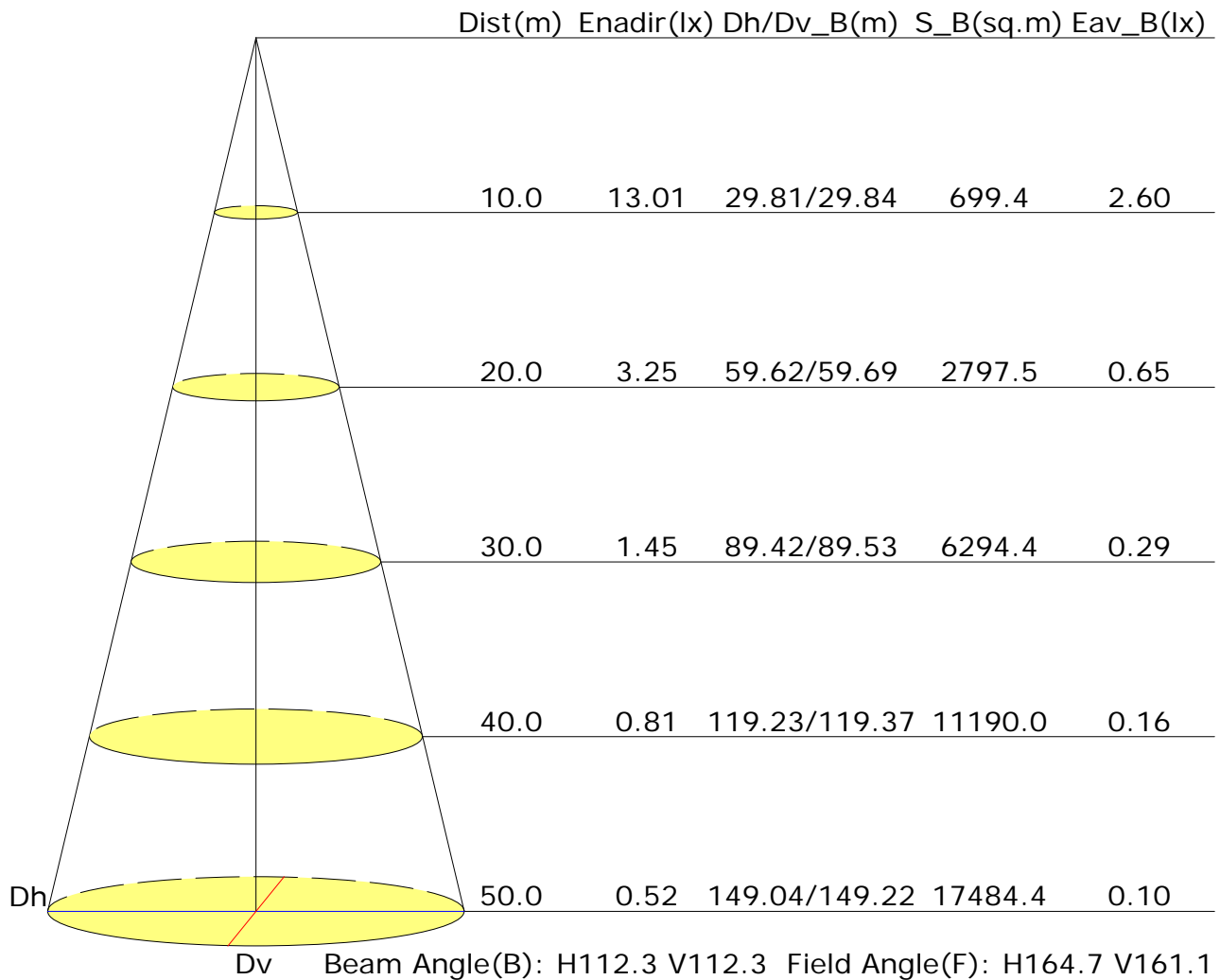
Test Device: LSG-1800B

Distance: 12.682 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	20.9	22.3	21.2	22.6	22.8	20.9	22.3	21.2	22.5	22.8
3H	22.3	23.6	22.7	23.9	24.2	22.3	23.5	22.6	23.8	24.1
4H	22.9	24.1	23.2	24.4	24.7	22.7	23.9	23.1	24.2	24.6
6H	23.3	24.4	23.6	24.7	25.0	23.0	24.2	23.4	24.5	24.8
8H	23.4	24.5	23.8	24.8	25.1	23.1	24.2	23.5	24.5	24.8
12H	23.4	24.5	23.8	24.8	25.2	23.1	24.1	23.5	24.5	24.8
X=4H Y=2H	21.5	22.7	21.8	23.0	23.3	21.5	22.7	21.8	23.0	23.3
3H	23.1	24.1	23.5	24.5	24.8	23.0	24.0	23.4	24.4	24.7
4H	23.7	24.7	24.2	25.0	25.4	23.6	24.5	24.0	24.9	25.3
6H	24.2	25.1	24.7	25.4	25.9	24.0	24.8	24.4	25.2	25.6
8H	24.4	25.1	24.8	25.6	26.0	24.1	24.8	24.5	25.2	25.7
12H	24.5	25.2	24.9	25.6	26.0	24.1	24.8	24.5	25.2	25.6
X=8H Y=4H	23.9	24.7	24.4	25.1	25.6	23.8	24.6	24.3	25.0	25.4
6H	24.6	25.2	25.0	25.6	26.1	24.3	24.9	24.8	25.4	25.8
8H	24.8	25.3	25.3	25.8	26.3	24.4	25.0	24.9	25.4	25.9
12H	24.9	25.4	25.4	25.9	26.4	24.5	24.9	25.0	25.4	25.9
X=12H Y=4H	24.0	24.6	24.4	25.1	25.5	23.8	24.5	24.3	24.9	25.4
6H	24.6	25.1	25.1	25.6	26.1	24.3	24.9	24.8	25.3	25.8
8H	24.8	25.3	25.3	25.8	26.3	24.5	25.0	25.0	25.4	25.9
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					+0.3/-0.5				
S=2.0H	+0.6/-0.9					+0.6/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 3747lm ($8\log(F/F_0) = 4.6$).

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	0.92	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.96	0.99	
	0.20		0.42	0.53	0.60	0.66	0.75	0.81	0.86	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	0.99	
	0.30		0.47	0.57	0.65	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	0.93	
0.30	0.50	0.20	0.53	0.62	0.69	0.74	0.80	0.85	0.88	0.92	0.95	
	0.30		0.46	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.92	
	0.20		0.42	0.51	0.59	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	
<p>Rating: 35W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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	0.83	0.71	0.62	0.50	0.41	0.35	0.27	0.22	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.31	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.48	0.43	0.34	0.26	0.21	
	0.30		0.82	0.70	0.60	0.53	0.43	0.36	0.32	0.25	0.20	
	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	0.45	0.38	0.32	0.25	0.20	
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.51	0.44	0.39	0.31	0.26	0.23	0.18	0.15	
<p>Rating: 35W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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	0.21	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	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	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	0.08	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	0.19	0.20	0.20	0.20	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.16	0.18	0.18	
	0.20		0.05	0.07	0.08	0.09	0.11	0.12	0.14	0.15	0.16	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<p>Rating: 35W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												