

Report No.: 1

Test Time: 14.11.2019 22:44

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 24LED 0,35A 37W 4000K opal Hygiene

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 80

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

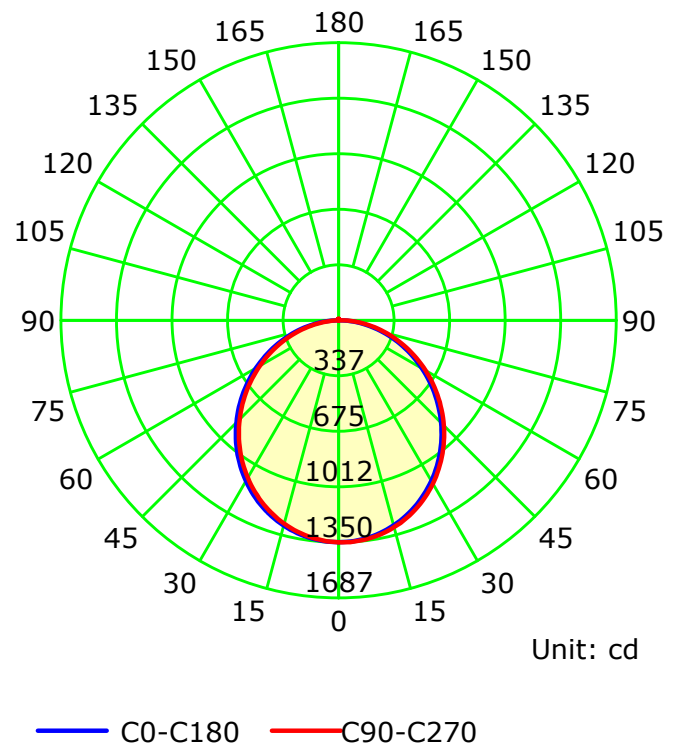
Pos of Max. Intensity: H90 V3

S/MH(C0/C180): 1.24

S/MH(C90/C270): 1.24

Termogramma

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

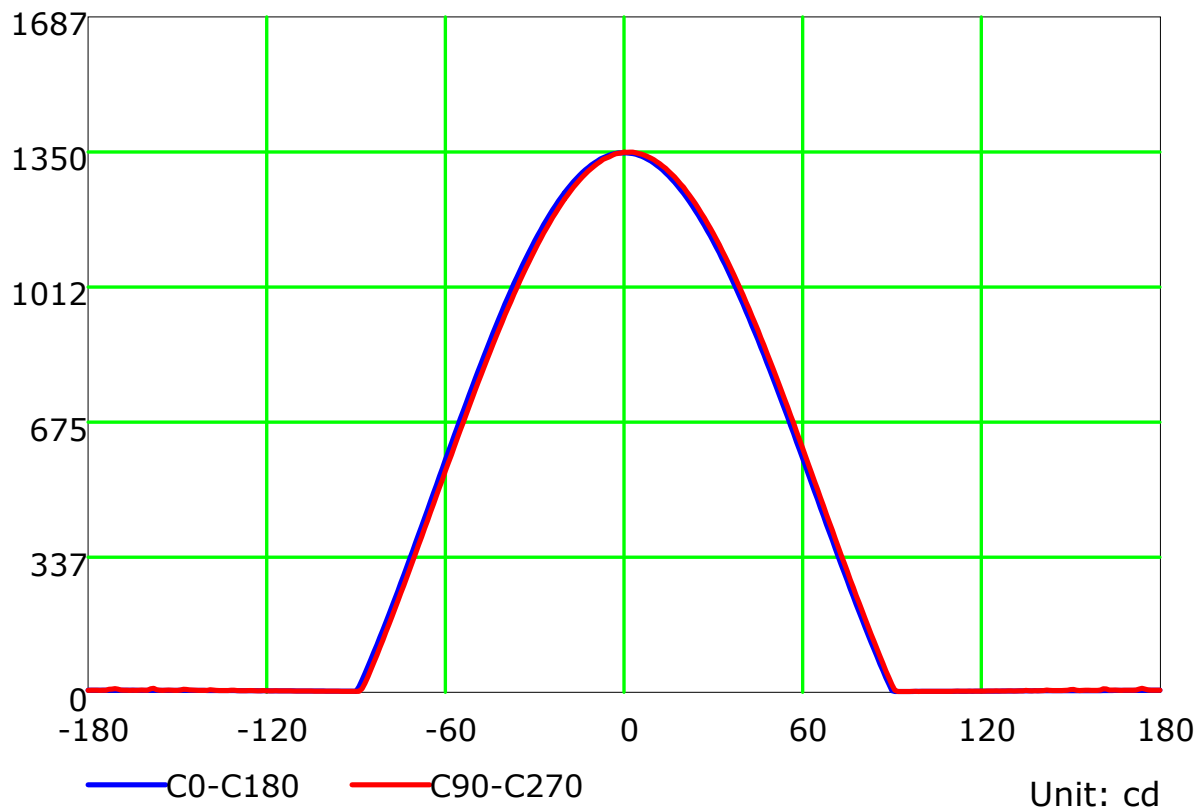
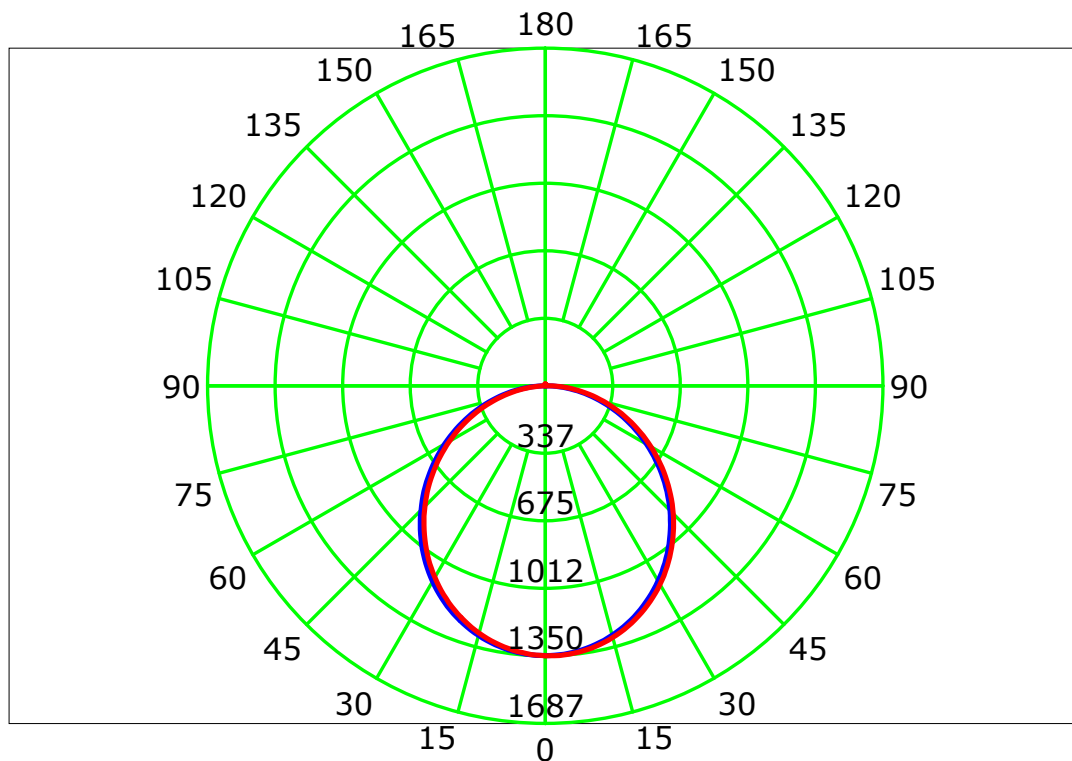
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

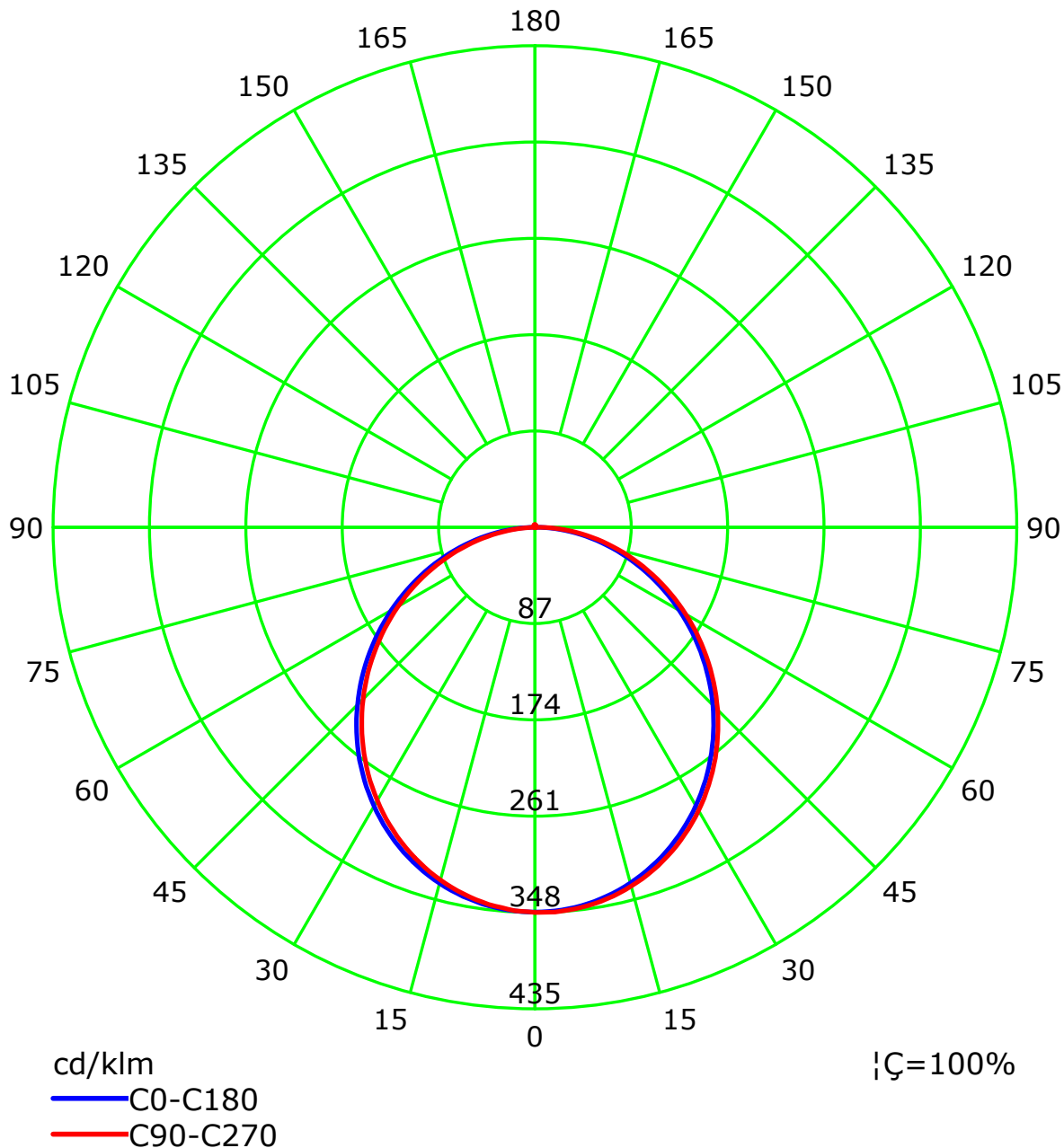
Luminous Intensity Distribution Curve



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 Test Lab:
 Test Type: TYPE C
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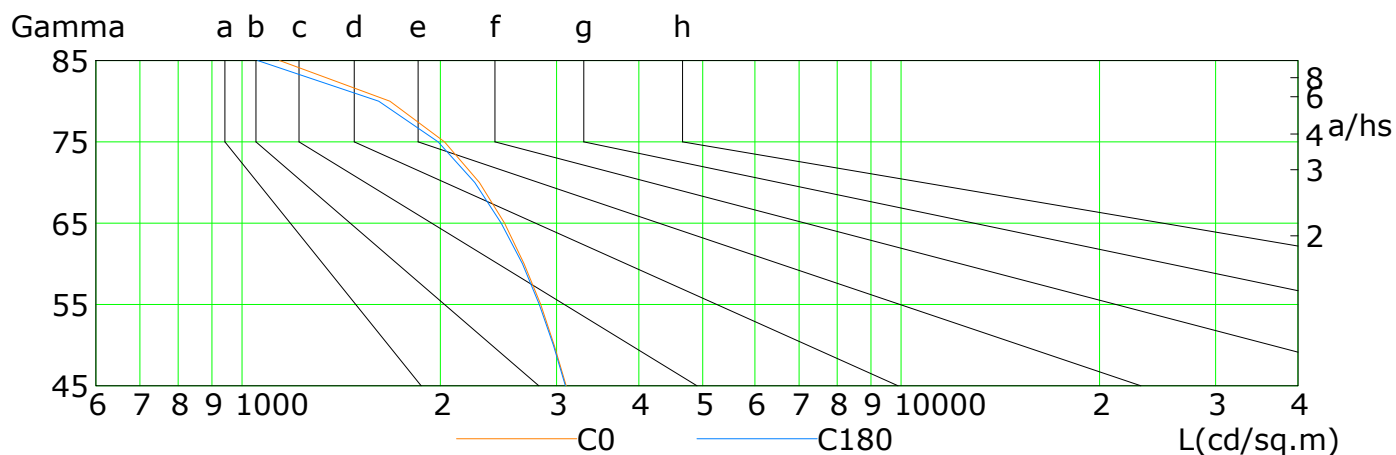
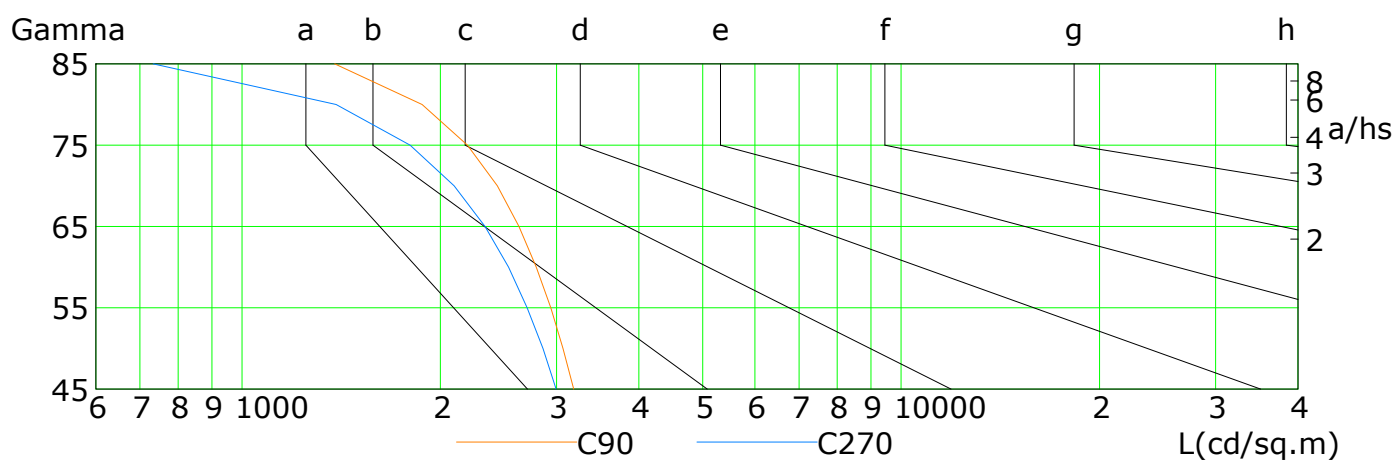
Luminous Intensity Distribution Curve(cd / klm)



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	3103	2976	2840	2679	2503	2292	2029	1677	1140
C90	3186	3068	2941	2795	2631	2439	2198	1876	1383
C180	3095	2967	2824	2664	2473	2255	1984	1612	1056
C270	2997	2861	2707	2537	2337	2098	1799	1390	733

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

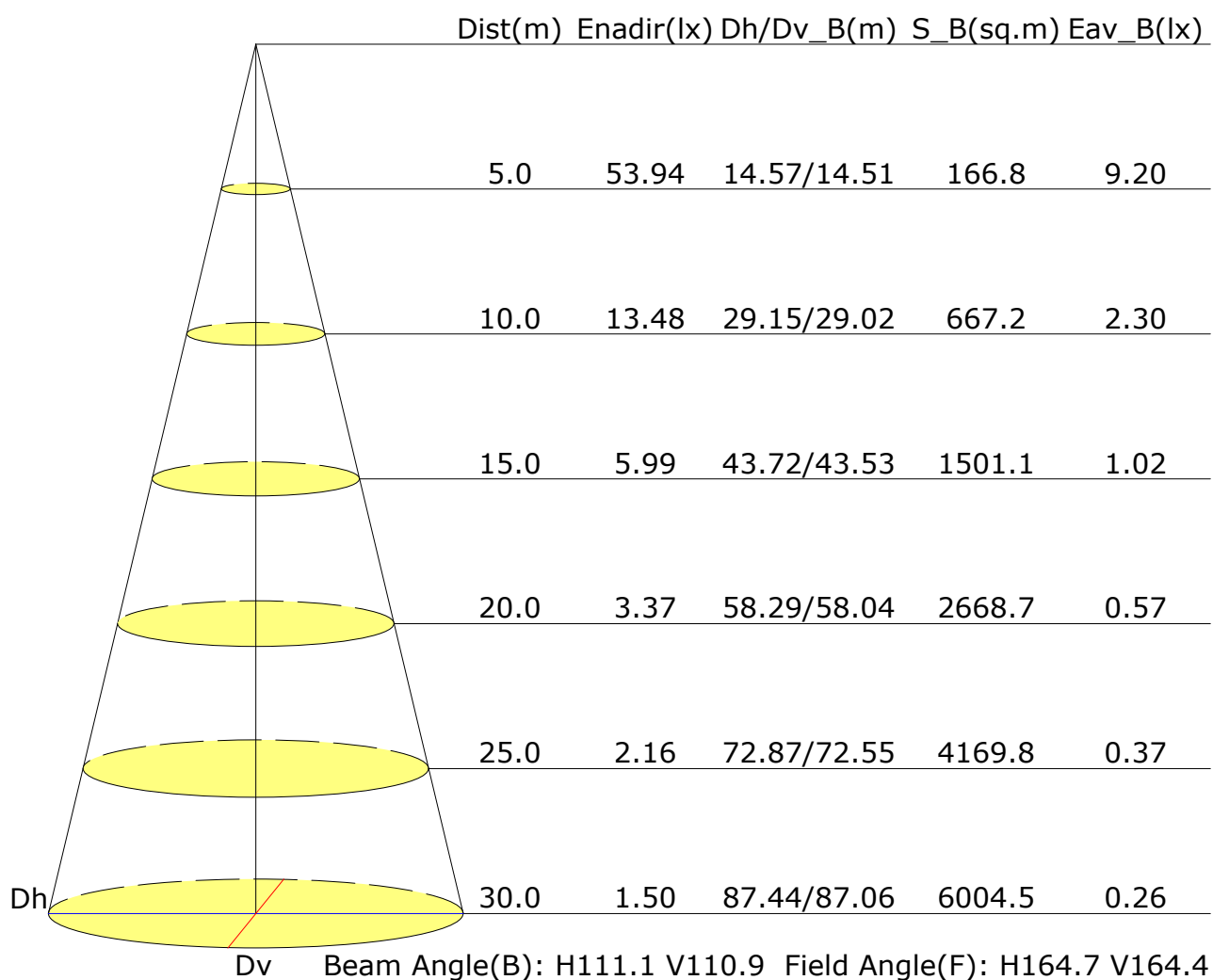
Test Device: LSG-1800B

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	16.0	17.4	16.3	17.7	17.9	16.0	17.4	16.3	17.6	17.9
3H	17.5	18.8	17.8	19.1	19.4	17.5	18.8	17.8	19.0	19.3
4H	18.1	19.3	18.5	19.6	19.9	18.1	19.3	18.4	19.6	19.9
6H	18.6	19.7	18.9	20.0	20.3	18.5	19.7	18.9	20.0	20.3
8H	18.7	19.8	19.1	20.1	20.5	18.7	19.8	19.0	20.1	20.4
12H	18.8	19.8	19.2	20.2	20.5	18.7	19.8	19.1	20.1	20.5
X=4H Y=2H	16.6	17.8	17.0	18.1	18.4	16.6	17.8	17.0	18.1	18.4
3H	18.3	19.3	18.7	19.7	20.0	18.3	19.3	18.7	19.7	20.0
4H	19.0	20.0	19.4	20.3	20.7	19.0	19.9	19.4	20.3	20.7
6H	19.6	20.4	20.0	20.8	21.2	19.6	20.4	20.0	20.8	21.2
8H	19.8	20.5	20.2	21.0	21.4	19.8	20.5	20.2	20.9	21.4
12H	19.9	20.6	20.4	21.0	21.5	19.9	20.6	20.3	21.0	21.4
X=8H Y=4H	19.3	20.0	19.7	20.5	20.9	19.3	20.0	19.7	20.4	20.9
6H	20.0	20.6	20.5	21.0	21.5	20.0	20.6	20.4	21.0	21.5
8H	20.2	20.8	20.7	21.3	21.8	20.2	20.8	20.7	21.2	21.7
12H	20.4	20.9	20.9	21.4	21.9	20.4	20.9	20.9	21.4	21.9
X=12H Y=4H	19.3	20.0	19.8	20.4	20.9	19.3	20.0	19.8	20.4	20.9
6H	20.0	20.6	20.5	21.0	21.5	20.0	20.6	20.5	21.0	21.5
8H	20.3	20.8	20.8	21.3	21.8	20.3	20.8	20.8	21.3	21.8
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/-0.5				
S=2.0H	+0.6/-0.8					+0.5/-1.0				

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

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												