

Report No.:

Test Time: 17.04.2020 12:39

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FT 185 47W 3000K linza 2x25-90 gr. N IPS 50-382

Luminous Length (mm): 587

Luminous Width (mm): 177

Luminous Height (mm): 73

Voltage: 229.1 V

Current: 0.224 A

Power: 50.25 W

Power Factor: 0.977

Photometric Results

CIE Class: Direct

Measurement Flux: 7131.9 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 7131.9 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.4, 123.9, 132.5, 132.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 102.7, 72.3, 87.1, 86.6

Luminaire Efficacy Rating (LER): 141.98

Central Intensity: 2153.14 cd

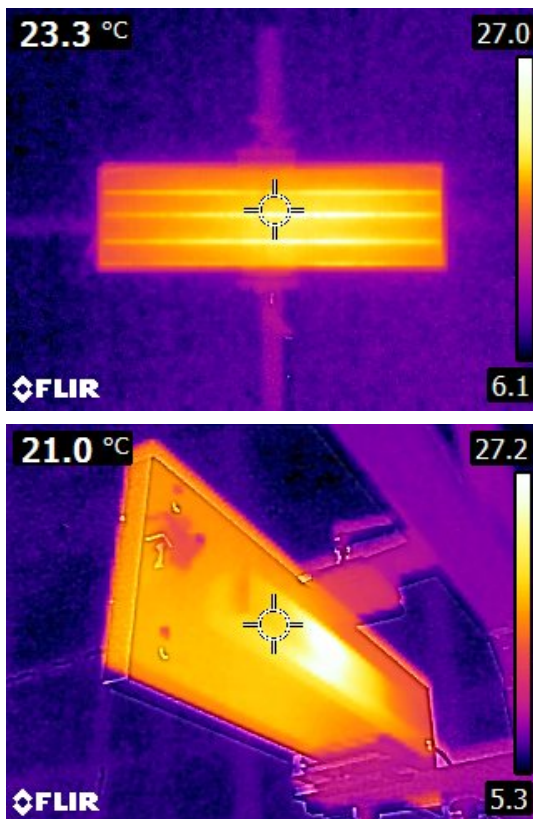
Max. Intensity: 4206.19 cd

Pos of Max. Intensity: H270 V22

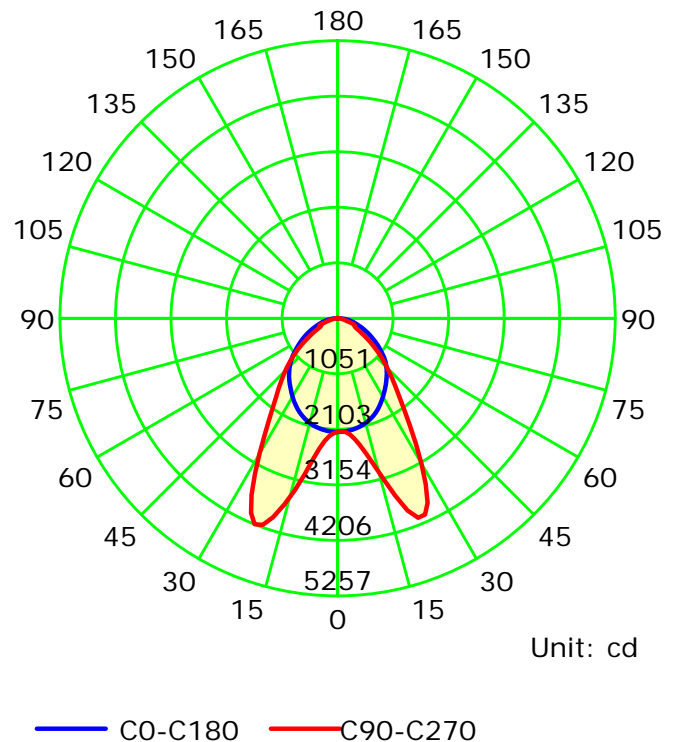
S/MH(C0/C180): 1.19

S/MH(C90/C270): 1.48

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

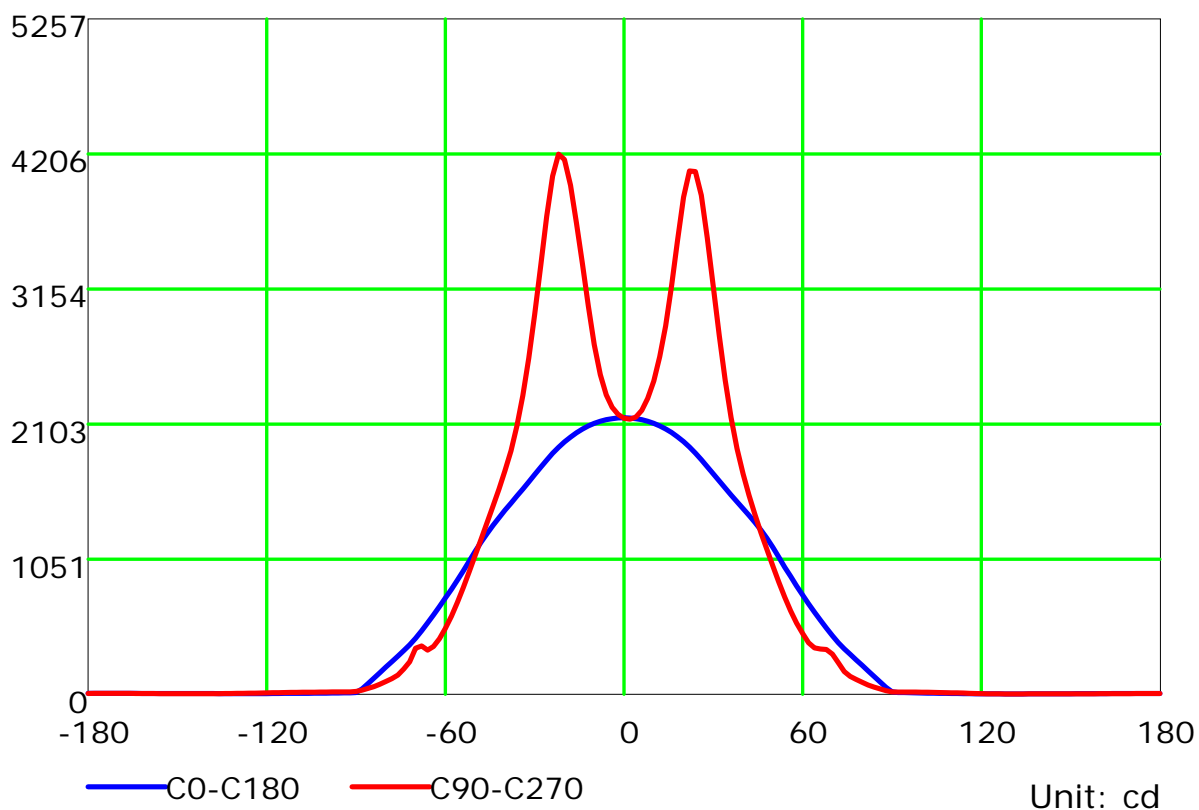
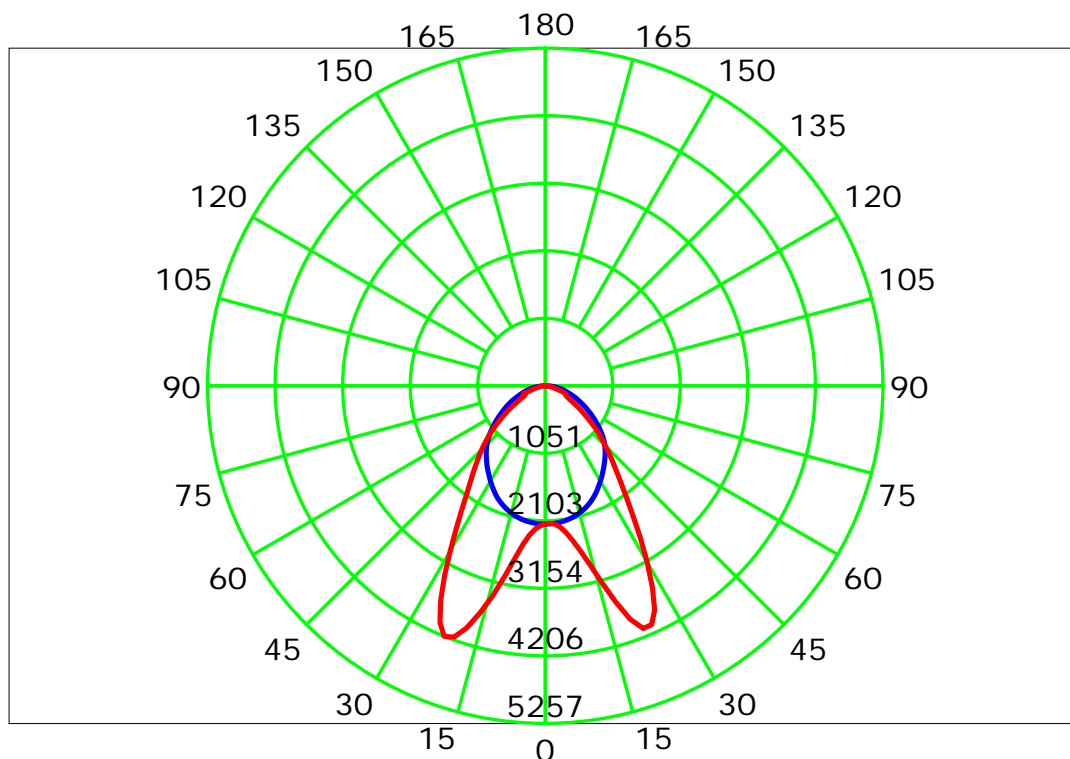
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



Unit: cd

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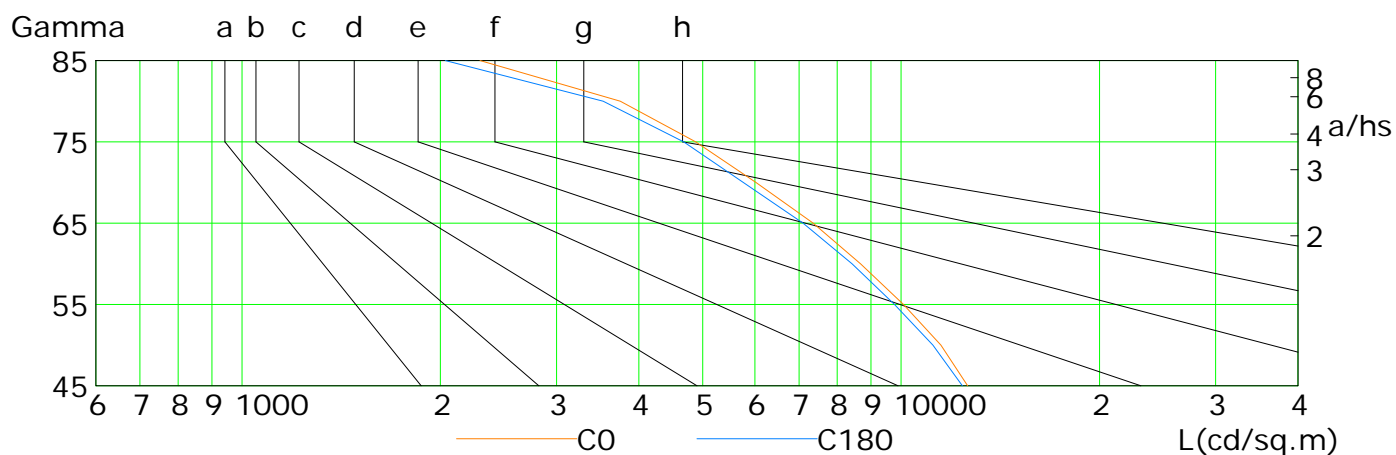
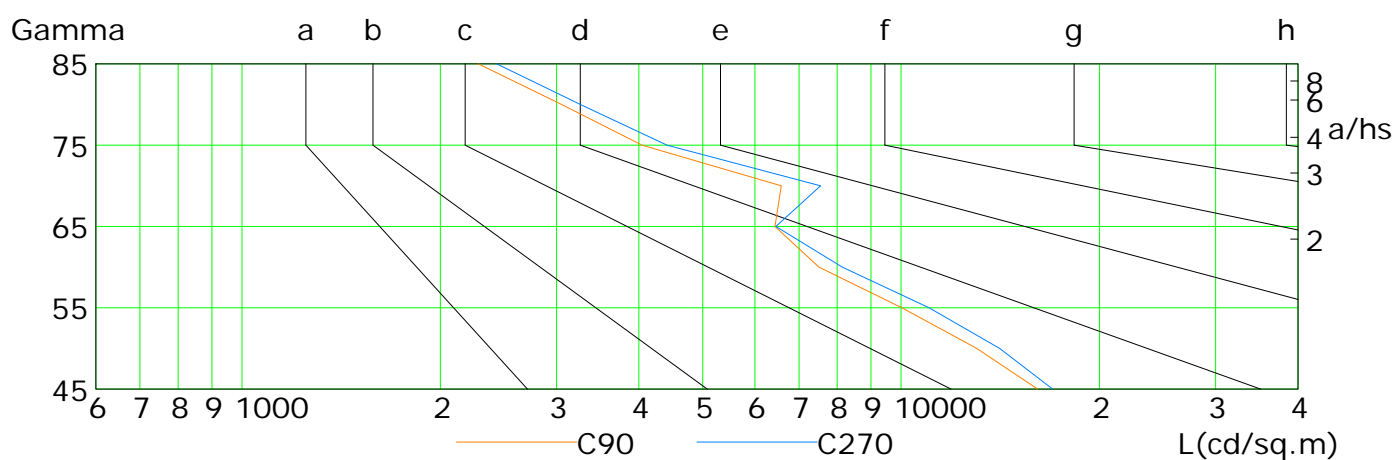
Humidity:

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	12619	11493	10080	8676	7353	6023	4879	3748	2297
C90	16104	13028	10024	7503	6434	6580	4045	3055	2282
C180	12382	11174	9770	8425	7100	5762	4677	3532	2034
C270	16978	14105	11026	8143	6455	7545	4414	3261	2434

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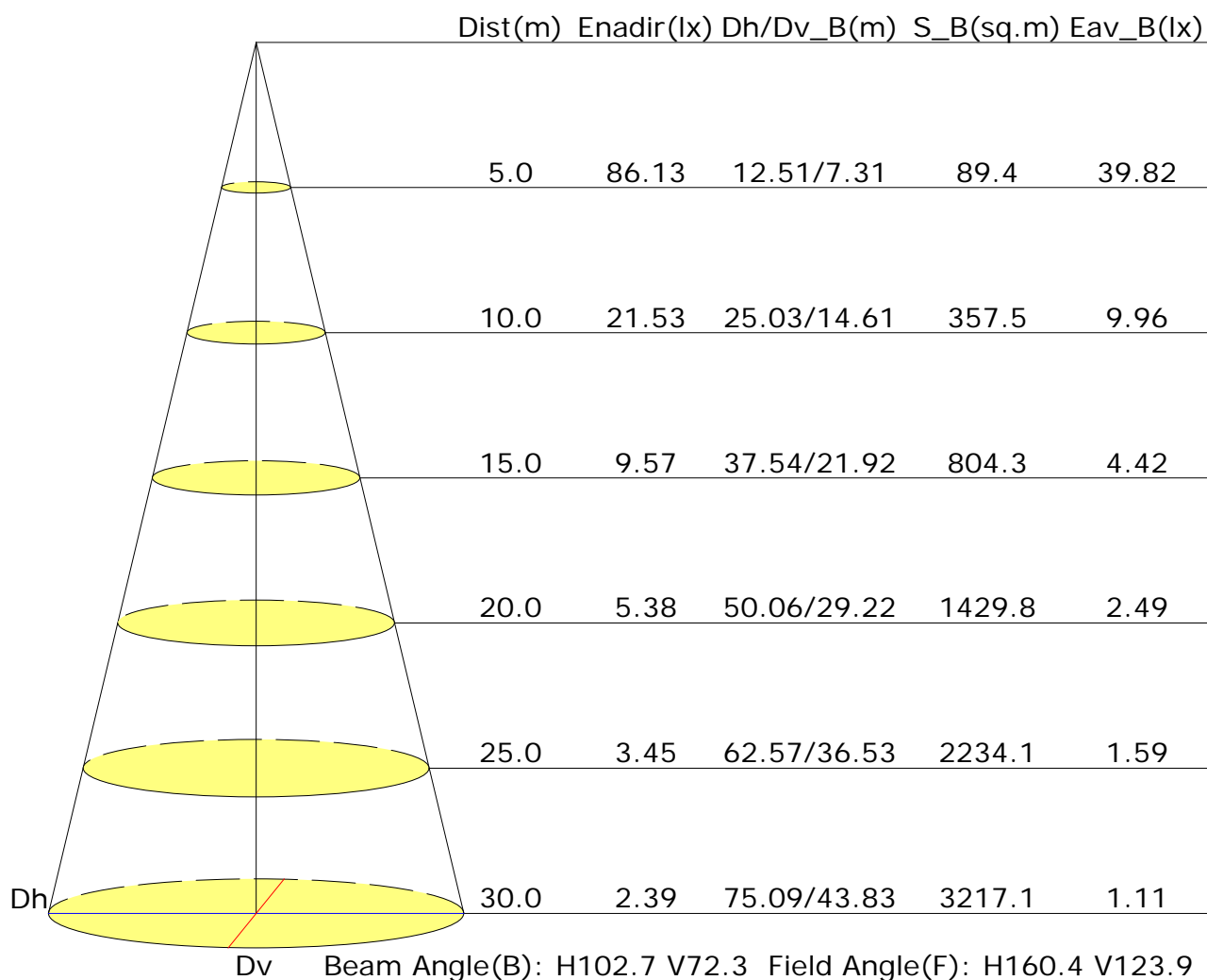
Test Device: LSG-1800B

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	21.4	22.6	21.7	22.9	23.1	19.6	20.9	19.9	21.1	21.4
3H	22.0	23.1	22.3	23.4	23.7	20.2	21.4	20.6	21.6	21.9
4H	22.2	23.3	22.6	23.6	23.9	20.4	21.5	20.8	21.8	22.1
6H	22.4	23.4	22.8	23.7	24.0	20.5	21.5	20.9	21.8	22.1
8H	22.4	23.4	22.8	23.7	24.1	20.5	21.5	20.9	21.8	22.1
12H	22.5	23.4	22.9	23.7	24.1	20.5	21.4	20.9	21.8	22.1
X=4H Y=2H	21.4	22.5	21.8	22.8	23.1	19.9	21.0	20.3	21.3	21.6
3H	22.2	23.1	22.6	23.5	23.8	20.7	21.6	21.1	21.9	22.3
4H	22.6	23.4	23.0	23.7	24.1	20.9	21.8	21.4	22.1	22.5
6H	22.8	23.5	23.3	23.9	24.3	21.1	21.8	21.5	22.2	22.6
8H	22.9	23.6	23.4	24.0	24.4	21.1	21.8	21.6	22.2	22.6
12H	23.0	23.6	23.4	24.0	24.5	21.2	21.8	21.6	22.2	22.6
X=8H Y=4H	22.6	23.2	23.0	23.6	24.1	21.1	21.7	21.5	22.1	22.6
6H	22.9	23.5	23.4	23.9	24.4	21.3	21.8	21.8	22.3	22.7
8H	23.1	23.5	23.6	24.0	24.5	21.4	21.8	21.9	22.3	22.8
12H	23.2	23.6	23.7	24.1	24.6	21.4	21.8	21.9	22.3	22.8
X=12H Y=4H	22.6	23.2	23.0	23.6	24.0	21.1	21.7	21.5	22.1	22.5
6H	22.9	23.4	23.4	23.9	24.4	21.3	21.8	21.8	22.2	22.7
8H	23.1	23.5	23.6	24.0	24.5	21.4	21.8	21.9	22.3	22.8
Variations with the observer position at spacings:										
S=1.0H	+0.9/-0.8					+0.7/-0.8				
S=1.5H	+1.6/-1.6					+1.0/-2.0				
S=2.0H	+2.7/-2.2					+2.2/-2.3				

Calculate in accordance with CIE Pub.117. The table is revised with 7132lm ($8\log(F/F_0) = 6.8$).

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Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
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	0.70	0.77	0.84	0.88	0.94	0.98	1.00	1.04	1.06	
	0.30		0.63	0.71	0.78	0.82	0.89	0.93	0.96	1.01	1.03	
	0.20		0.59	0.66	0.73	0.78	0.85	0.90	0.93	0.98	1.01	
0.50	0.50	0.20	0.68	0.75	0.81	0.85	0.91	0.94	0.97	1.00	1.02	
	0.30		0.62	0.70	0.76	0.81	0.87	0.91	0.93	0.97	1.00	
	0.20		0.58	0.66	0.72	0.77	0.83	0.87	0.91	0.95	0.98	
0.30	0.50	0.20	0.67	0.74	0.79	0.83	0.88	0.91	0.93	0.96	0.98	
	0.30		0.62	0.69	0.75	0.79	0.84	0.88	0.91	0.94	0.96	
	0.20		0.58	0.65	0.71	0.76	0.82	0.85	0.88	0.92	0.94	
0.00	0.00	0.00	0.56	0.63	0.69	0.73	0.78	0.82	0.84	0.88	0.90	
Rating: 50W 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 = 1.50									
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	0.80	0.66	0.56	0.48	0.38	0.32	0.27	0.21	0.17	
	0.30		0.66	0.57	0.49	0.43	0.35	0.29	0.25	0.20	0.16	
	0.20		0.57	0.50	0.43	0.38	0.31	0.27	0.23	0.19	0.16	
0.50	0.50	0.20	0.76	0.63	0.53	0.46	0.36	0.34	0.26	0.20	0.16	
	0.30		0.65	0.55	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
	0.20		0.56	0.49	0.42	0.37	0.30	0.26	0.22	0.18	0.15	
0.30	0.50	0.20	0.74	0.60	0.50	0.43	0.34	0.28	0.24	0.19	0.15	
	0.30		0.63	0.53	0.45	0.39	0.32	0.26	0.23	0.18	0.15	
	0.20		0.55	0.48	0.41	0.36	0.29	0.25	0.21	0.17	0.14	
0.00	0.00	0.00	0.43	0.37	0.31	0.27	0.21	0.18	0.15	0.12	0.10	
Rating: 50W 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 = 1.50									
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	0.15	0.17	0.18	0.18	0.20	0.20	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		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	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		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.14	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	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: 50W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												