

Report No.:

Test Time: 08.06.2020 21:57

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 200W 3000K 120гр. диод 3Т матовое стекло

Number of Lamps: 1

Lumens per Lamp: 24383.6 lm

Luminous Length (mm): 364 mm

Luminous Width (mm): 364 mm

Luminous Height (mm): 138 mm

Voltage: 221.5 V

Current: 0.903 A

Power: 198.22 W

Power Factor: 0.991

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 24383.6 lm

Measurement Flux: 24383.6 lm

Efficiency: 100.00%

Downward Ratio: 99.61%

Upward Ratio: 0.39%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.9, 153.7, 155.5, 155.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 102.1, 102.1, 102.3, 102.3

Luminaire Efficacy Rating (LER): 123.06

Central Intensity: 9622.32 cd

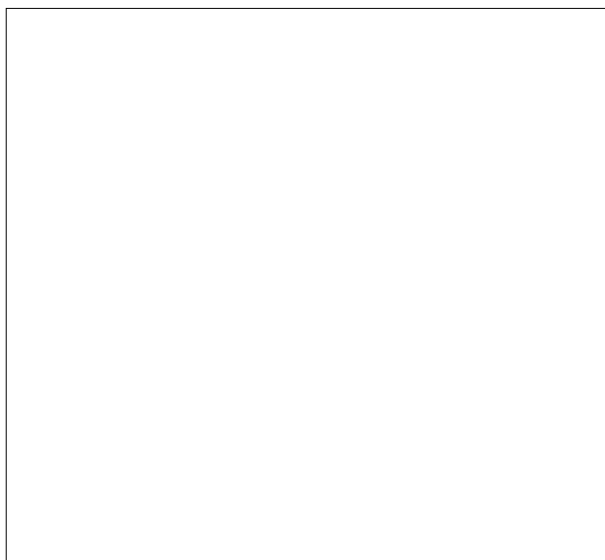
Max. Intensity: 9626.09 cd

Pos of Max. Intensity: H45 V0

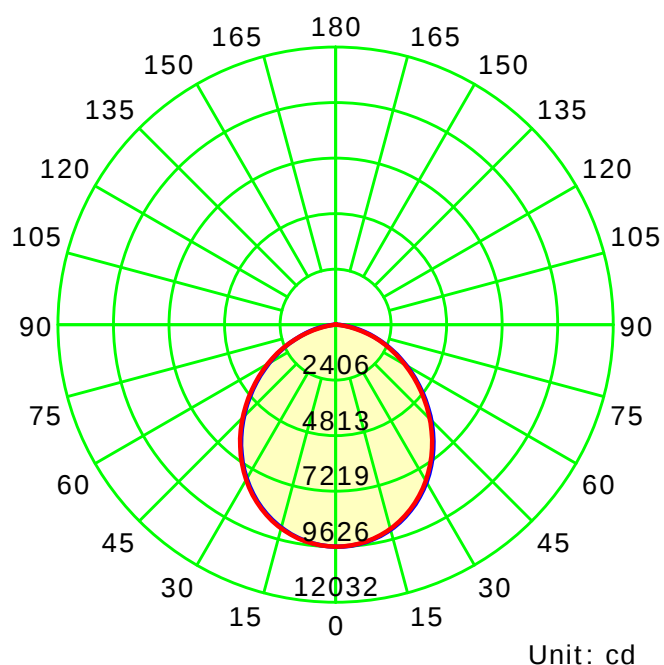
S/MH(C0/C180): 1.21

S/MH(C90/C270): 1.21

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

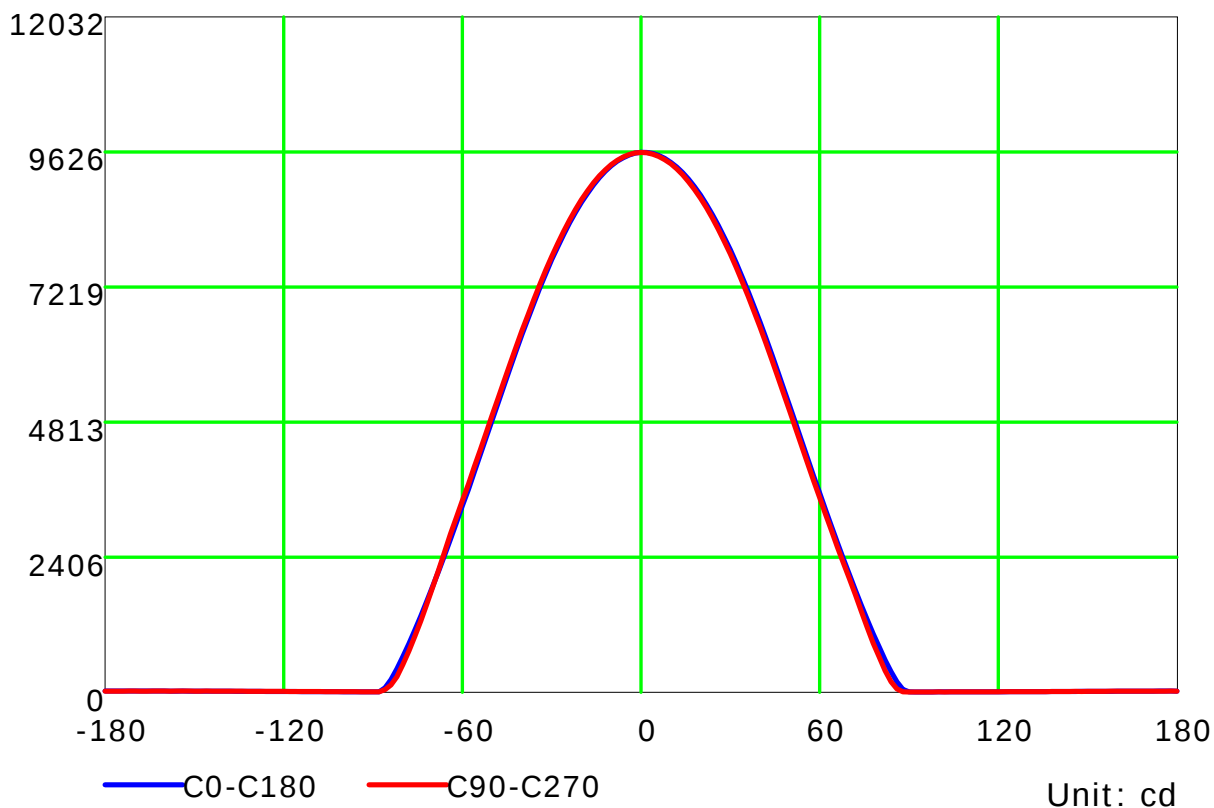
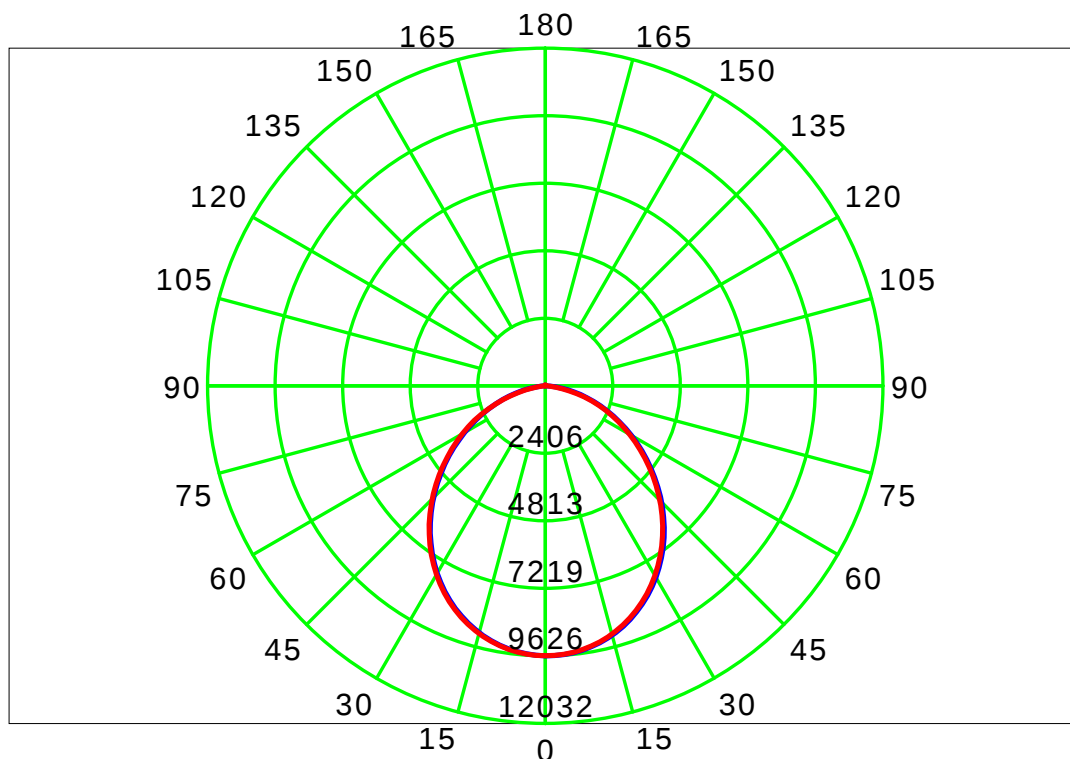
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



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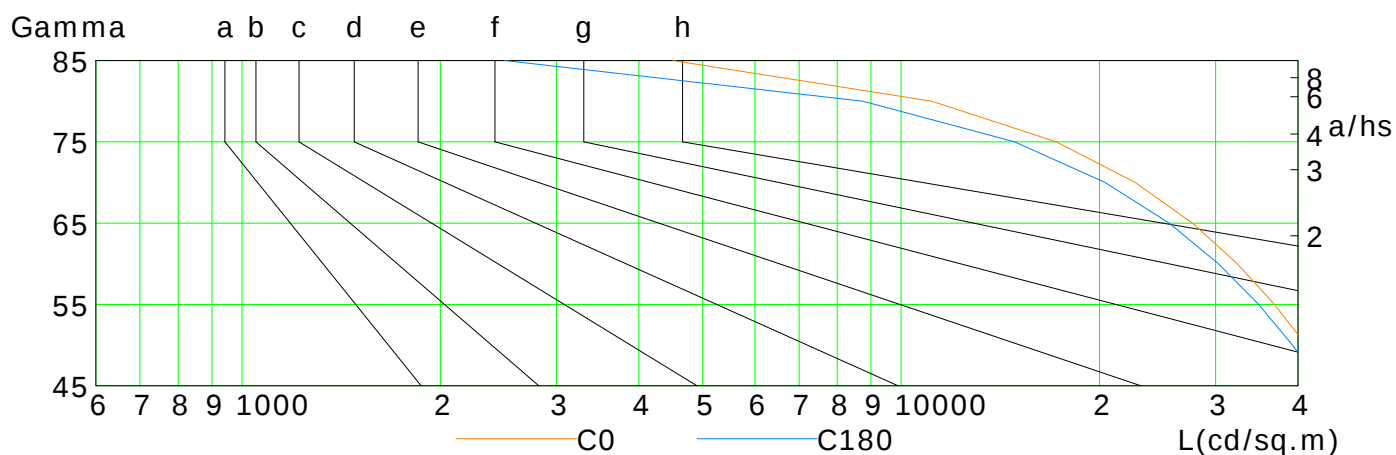
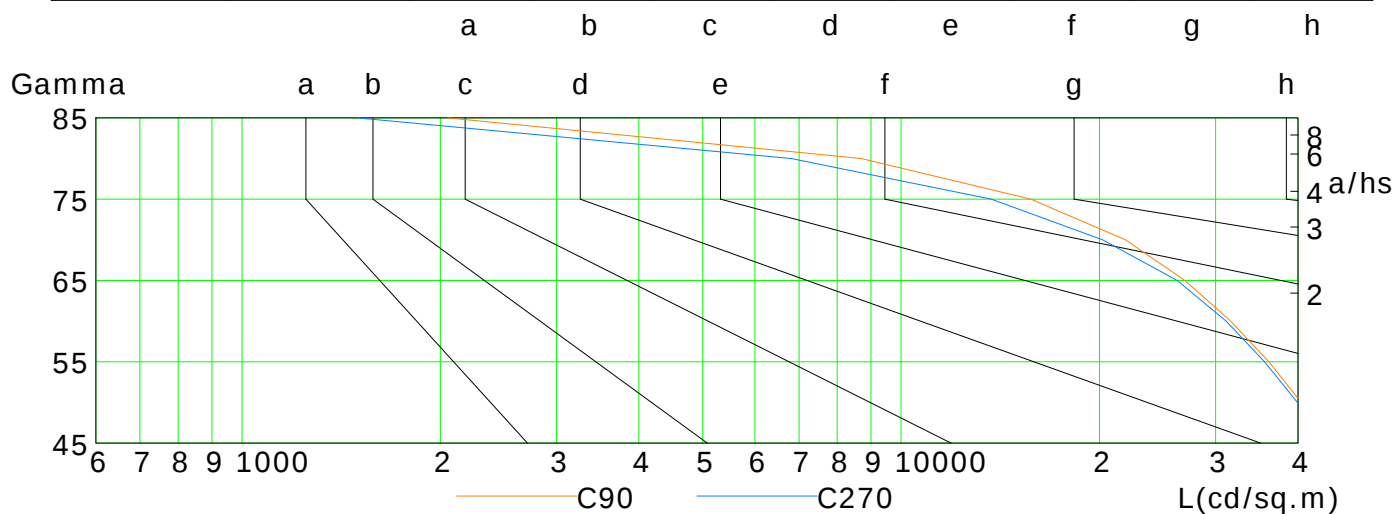
Distance: 12.677 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	45356	41179	36864	32370	27674	22653	17194	11137	4506
C90	44651	40459	36135	31620	26945	21900	15732	8696	2052
C180	43544	39241	34869	30297	25504	20394	14871	8752	2506
C270	44126	39919	35590	31127	26226	20212	13704	6811	1495

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

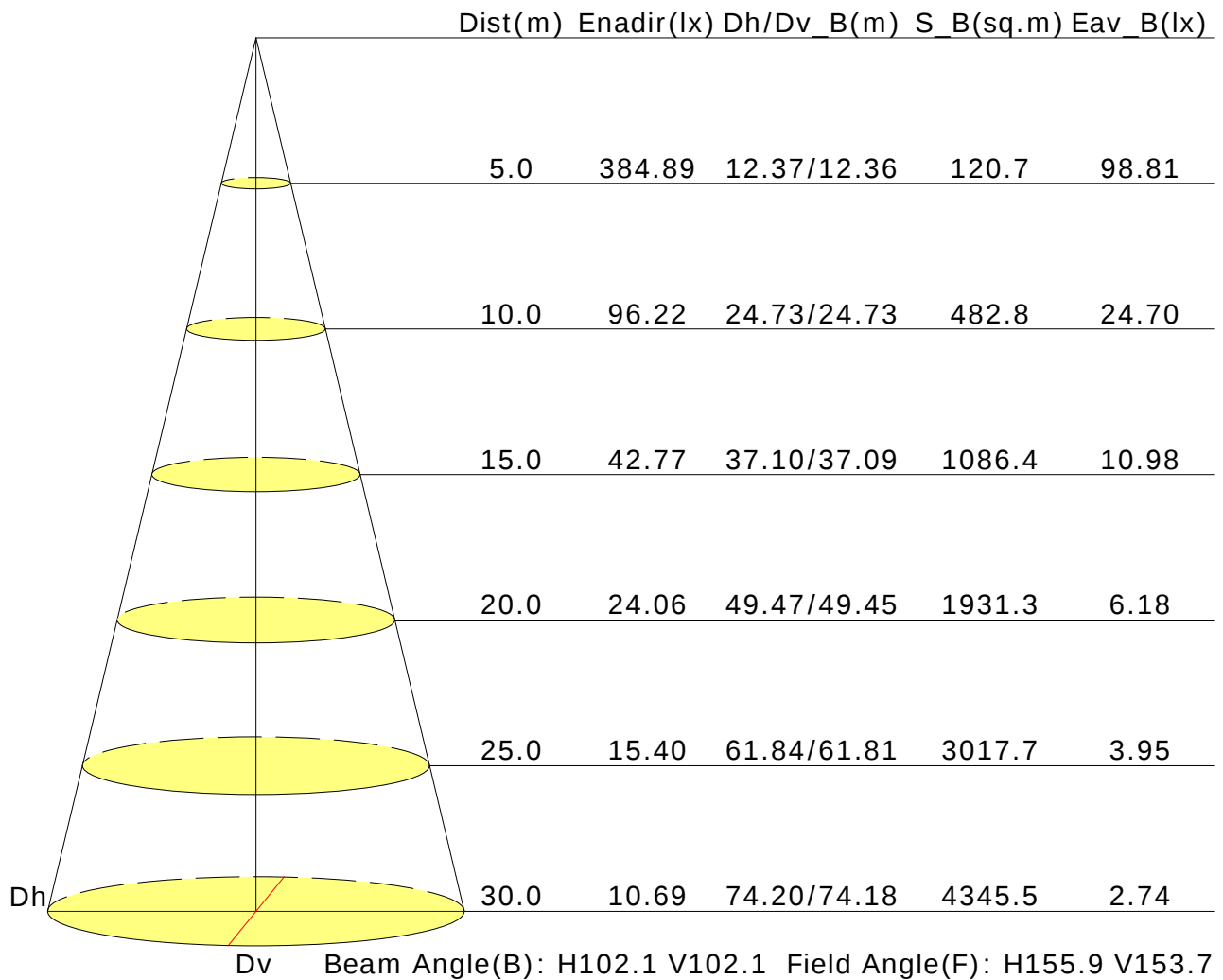
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

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	24.8	26.1	25.1	26.4	26.6	24.7	26.0	25.0	26.3	26.5
3H	25.9	27.1	26.2	27.4	27.7	25.7	26.9	26.1	27.2	27.5
4H	26.3	27.4	26.6	27.7	28.0	26.0	27.2	26.4	27.5	27.8
6H	26.5	27.5	26.8	27.8	28.2	26.1	27.2	26.5	27.5	27.8
8H	26.5	27.5	26.9	27.8	28.2	26.1	27.2	26.5	27.5	27.8
12H	26.5	27.5	26.9	27.8	28.2	26.1	27.1	26.5	27.4	27.8
X=4H Y=2H	25.2	26.4	25.6	26.7	27.0	25.2	26.3	25.5	26.6	26.9
3H	26.5	27.5	26.9	27.8	28.2	26.4	27.3	26.7	27.7	28.0
4H	27.0	27.8	27.4	28.2	28.6	26.7	27.6	27.1	28.0	28.4
6H	27.2	28.0	27.7	28.4	28.8	26.9	27.7	27.3	28.1	28.5
8H	27.3	28.0	27.7	28.4	28.8	26.9	27.6	27.4	28.0	28.5
12H	27.3	27.9	27.8	28.4	28.8	26.9	27.5	27.4	28.0	28.4
X=8H Y=4H	27.1	27.8	27.5	28.2	28.6	26.9	27.6	27.3	28.0	28.4
6H	27.4	28.0	27.9	28.4	28.9	27.1	27.7	27.6	28.1	28.6
8H	27.5	28.0	28.0	28.5	29.0	27.1	27.6	27.6	28.1	28.6
12H	27.6	28.0	28.1	28.5	29.0	27.1	27.6	27.6	28.0	28.5
X=12H Y=4H	27.1	27.7	27.5	28.1	28.6	26.9	27.5	27.3	27.9	28.4
6H	27.4	27.9	27.9	28.4	28.9	27.1	27.6	27.6	28.1	28.6
8H	27.5	28.0	28.0	28.4	29.0	27.1	27.6	27.6	28.1	28.6
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.3				
S=1.5H	+0.4/-0.7					+0.4/-0.7				
S=2.0H	+0.8/-1.3					+0.8/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 24384lm ($8\log(F/F_0) = 11.1$).

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:

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	0.59	0.70	0.77	0.82	0.89	0.94	0.97	1.02	1.04	
	0.30		0.52	0.62	0.70	0.75	0.83	0.89	0.93	0.98	1.01	
	0.20		0.46	0.57	0.64	0.70	0.78	0.84	0.89	0.94	0.98	
0.50	0.50	0.20	0.58	0.67	0.74	0.79	0.86	0.90	0.93	0.98	1.00	
	0.30		0.51	0.61	0.68	0.74	0.81	0.86	0.90	0.94	0.97	
	0.20		0.46	0.56	0.63	0.69	0.77	0.82	0.86	0.92	0.95	
0.30	0.50	0.20	0.56	0.66	0.72	0.77	0.83	0.87	0.90	0.94	0.96	
	0.30		0.50	0.60	0.67	0.72	0.79	0.84	0.87	0.91	0.94	
	0.20		0.46	0.55	0.63	0.68	0.75	0.80	0.84	0.89	0.92	
0.00	0.00	0.00	0.43	0.53	0.60	0.65	0.72	0.77	0.80	0.84	0.87	
Rating:198W 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	0.96	0.78	0.66	0.58	0.46	0.38	0.32	0.25	0.20	
	0.30		0.80	0.67	0.58	0.51	0.41	0.35	0.30	0.23	0.19	
	0.20		0.68	0.59	0.51	0.46	0.38	0.32	0.28	0.22	0.18	
0.50	0.50	0.20	0.92	0.75	0.63	0.55	0.43	0.39	0.30	0.23	0.19	
	0.30		0.78	0.65	0.56	0.49	0.40	0.33	0.28	0.22	0.18	
	0.20		0.68	0.58	0.50	0.45	0.37	0.31	0.27	0.21	0.17	
0.30	0.50	0.20	0.89	0.72	0.61	0.53	0.41	0.34	0.29	0.22	0.18	
	0.30		0.76	0.64	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.20		0.67	0.57	0.49	0.44	0.36	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.56	0.47	0.40	0.35	0.28	0.23	0.20	0.15	0.12	
Rating:198W 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	0.16	0.18	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.11	0.13	0.14	0.15	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	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.12	0.13	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	0.15	0.16	0.17	0.18	0.19	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.17	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rating:198W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												