

Report No.:

Test Time: 08.06.2020 21:57

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 200W 4000K 120гр. диод 3Т матовое стекло

Number of Lamps: 1

Lumens per Lamp: 25255.3 lm

Luminous Length (mm): 364 mm

Luminous Width (mm): 364 mm

Luminous Height (mm): 138 mm

Voltage: 221.6 V

Current: 0.902 A

Power: 198.22 W

Power Factor: 0.992

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 25255.3 lm

Measurement Flux: 25255.3 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): 127.46

Central Intensity: 9966.32 cd

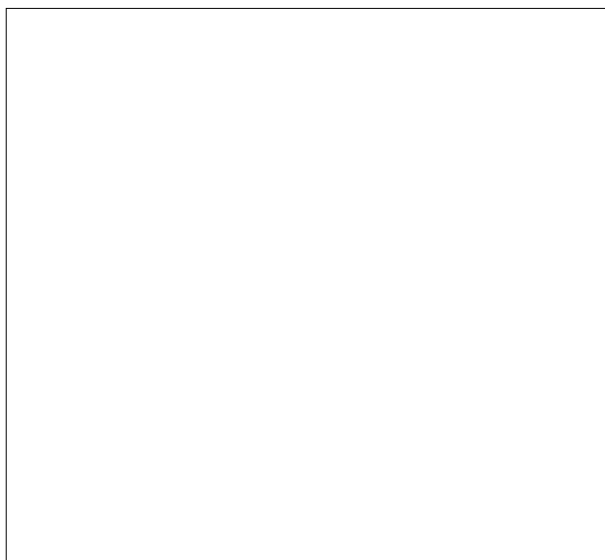
Max. Intensity: 9970.21 cd

Pos of Max. Intensity: H45 V0

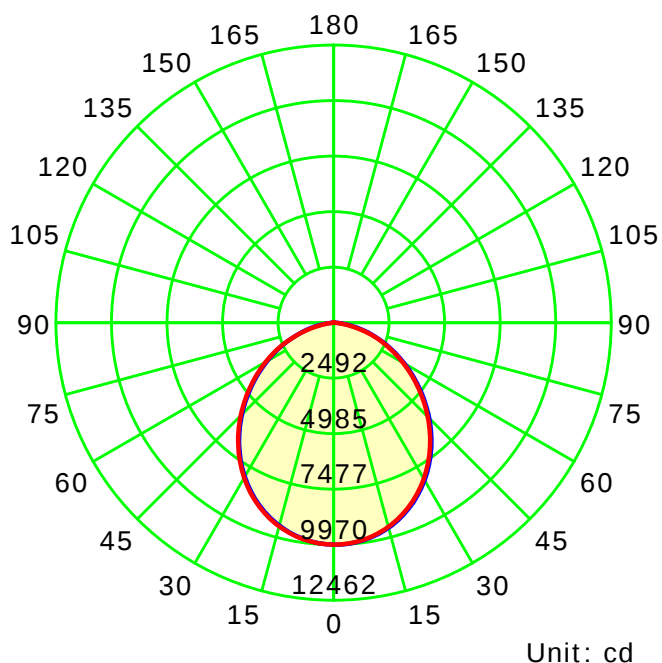
S/MH(C0/C180): 1.21

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

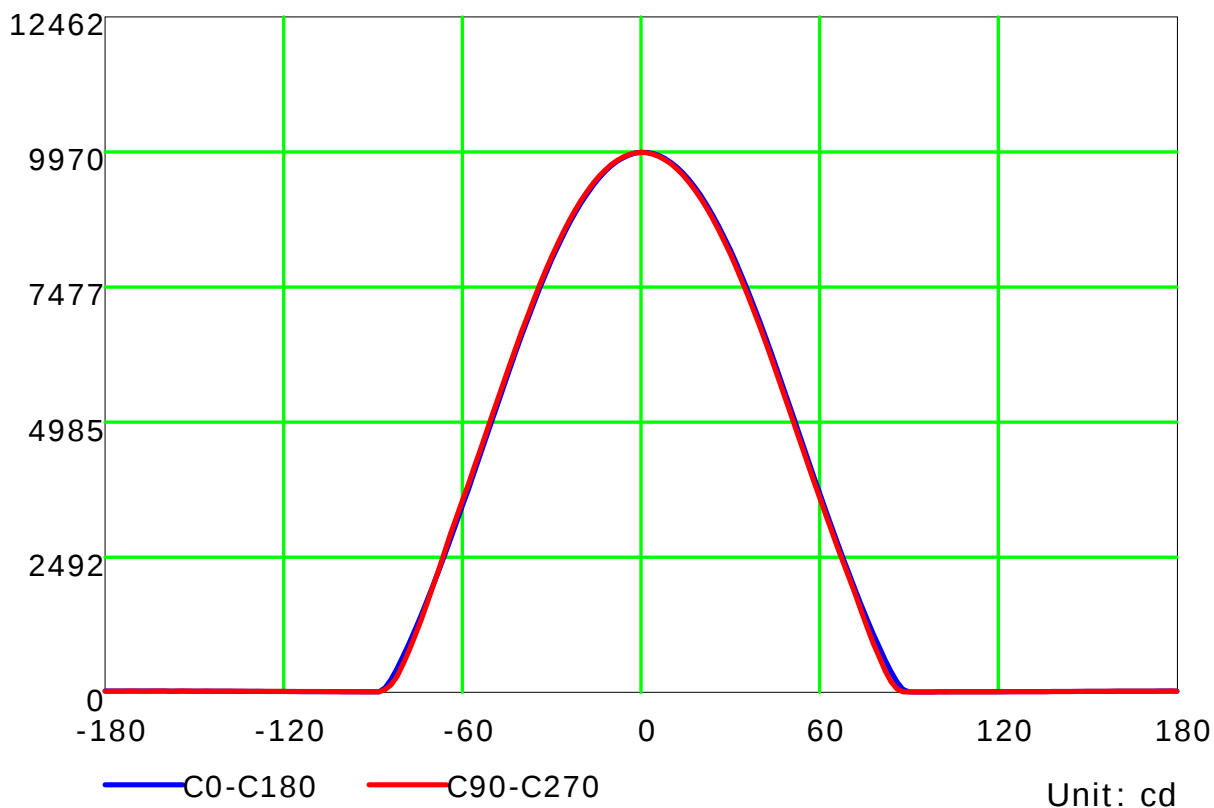
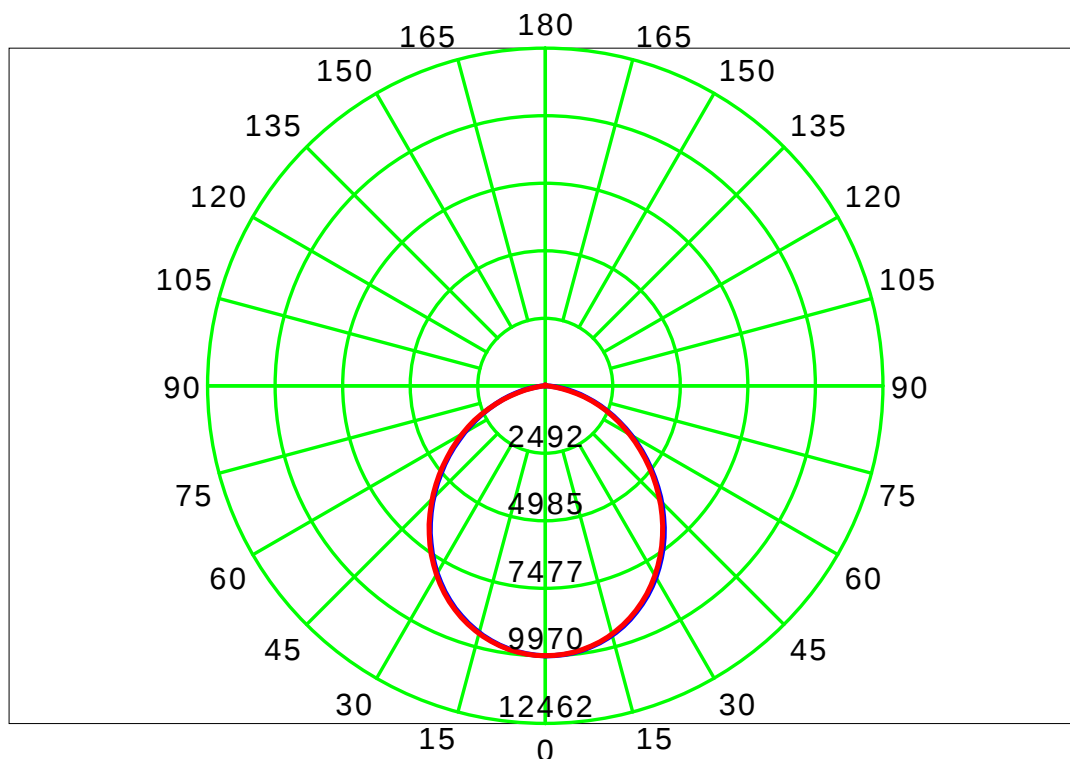
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



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

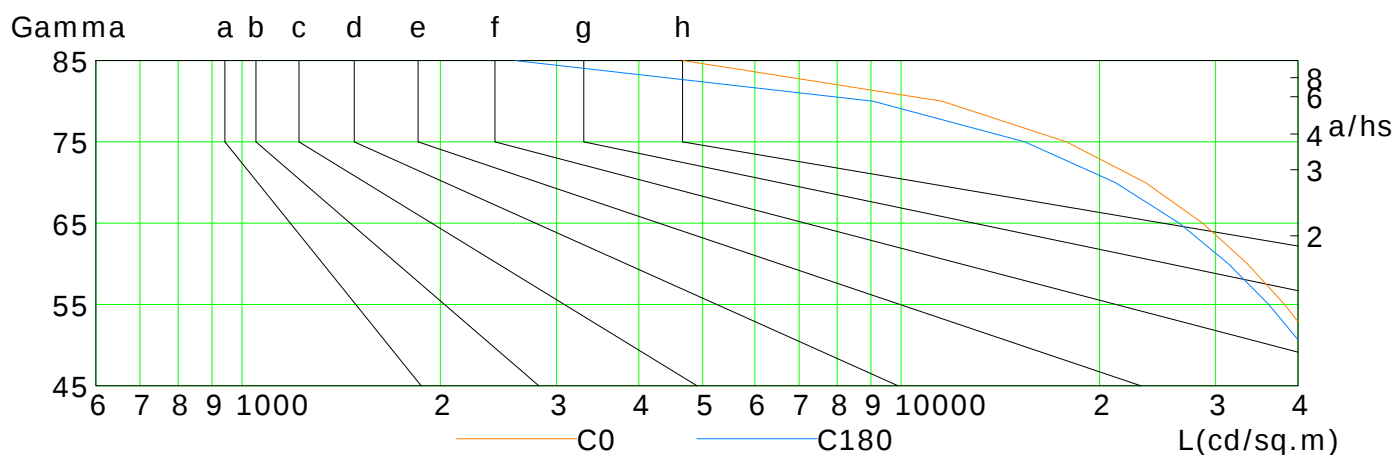
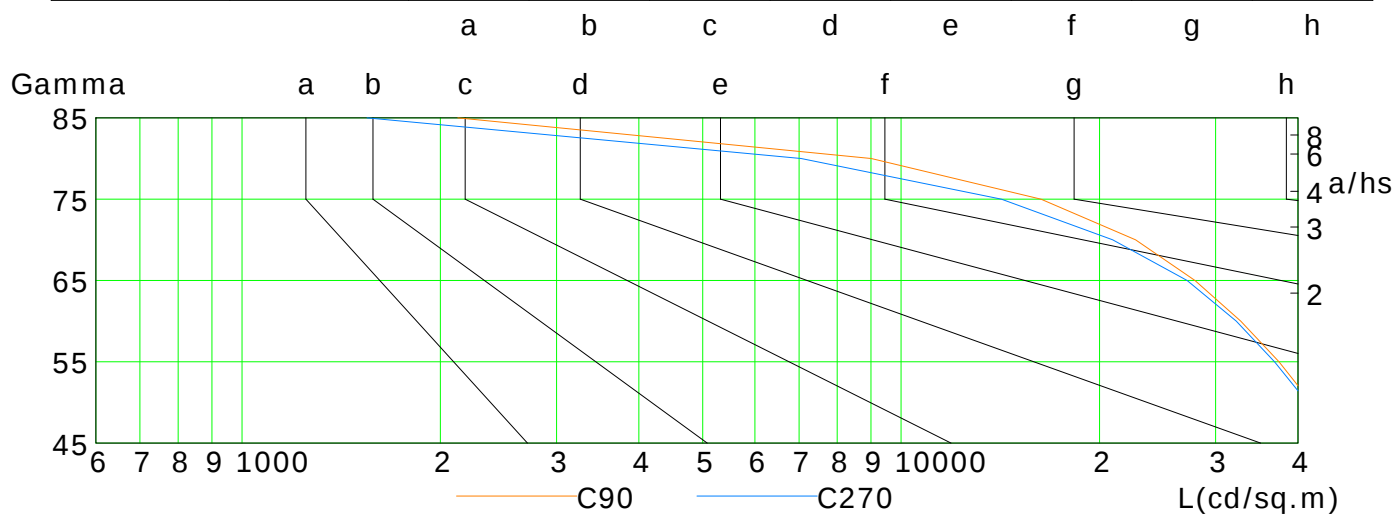
Humidity:

Inspector:

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

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	46977	42651	38181	33527	28663	23463	17809	11535	4667
C90	46248	41905	37427	32751	27909	22683	16294	9007	2125
C180	45101	40644	36115	31380	26416	21123	15402	9065	2596
C270	45703	41347	36863	32240	27164	20934	14194	7054	1548

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

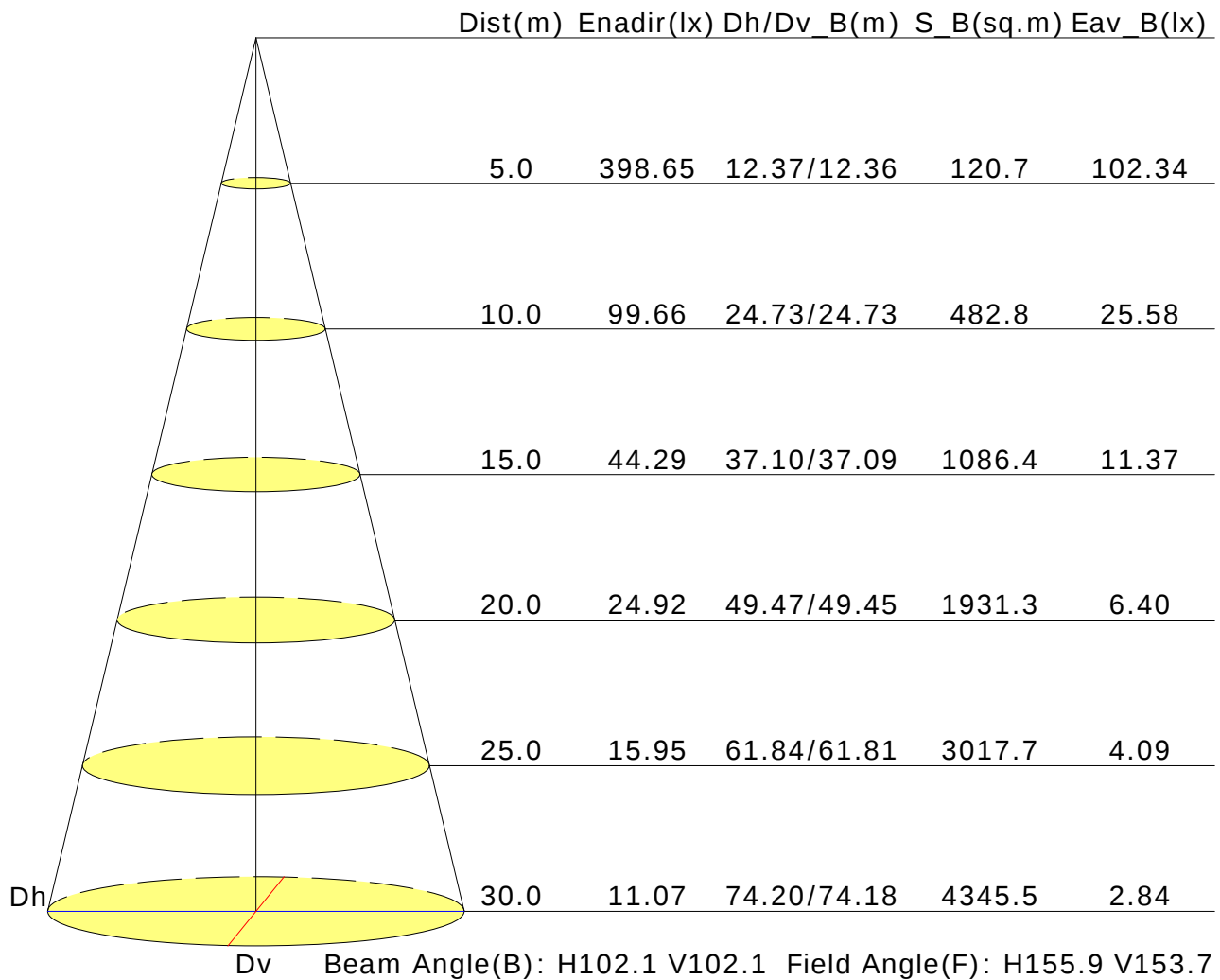
Test Device: LSG-1800B

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	24.9	26.3	25.2	26.5	26.7	24.8	26.2	25.1	26.4	26.6
3H	26.0	27.2	26.4	27.5	27.8	25.9	27.1	26.2	27.3	27.6
4H	26.4	27.5	26.7	27.8	28.1	26.2	27.3	26.5	27.6	27.9
6H	26.6	27.7	27.0	28.0	28.3	26.3	27.3	26.6	27.6	28.0
8H	26.6	27.6	27.0	28.0	28.3	26.3	27.3	26.6	27.6	27.9
12H	26.6	27.6	27.0	27.9	28.3	26.2	27.2	26.6	27.5	27.9
X=4H Y=2H	25.4	26.5	25.7	26.8	27.1	25.3	26.4	25.6	26.7	27.0
3H	26.6	27.6	27.0	27.9	28.3	26.5	27.5	26.9	27.8	28.1
4H	27.1	28.0	27.5	28.3	28.7	26.9	27.7	27.3	28.1	28.5
6H	27.4	28.1	27.8	28.5	28.9	27.0	27.8	27.5	28.2	28.6
8H	27.4	28.1	27.9	28.5	29.0	27.0	27.7	27.5	28.2	28.6
12H	27.4	28.1	27.9	28.5	28.9	27.0	27.7	27.5	28.1	28.5
X=8H Y=4H	27.2	27.9	27.6	28.3	28.8	27.0	27.7	27.4	28.1	28.5
6H	27.6	28.1	28.0	28.6	29.0	27.2	27.8	27.7	28.2	28.7
8H	27.6	28.1	28.1	28.6	29.1	27.3	27.8	27.7	28.2	28.7
12H	27.7	28.1	28.2	28.6	29.1	27.2	27.7	27.7	28.2	28.7
X=12H Y=4H	27.2	27.8	27.6	28.3	28.7	27.0	27.6	27.4	28.1	28.5
6H	27.6	28.1	28.0	28.5	29.0	27.2	27.7	27.7	28.2	28.7
8H	27.7	28.1	28.2	28.6	29.1	27.3	27.7	27.8	28.2	28.7
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 25255lm ($8\log(F/F_0) = 11.2$).

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											