



OOO "FAROS"

www.farosled.ru

Tel: +7 (8422) 583-386, 583-387

E-mail: info@farosled.ru

Page 1 of 9 Pages

Report No.:

Test Time: 08.06.2020 20:15

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 200W 4000K 60гр. диод 3Т матовое стекло

Number of Lamps: 1

Lumens per Lamp: 25078.5 lm

Luminous Length (mm): 364 mm

Luminous Width (mm): 364 mm

Luminous Height (mm): 138 mm

Voltage: 220.5 V

Current: 0.905 A

Power: 197.91 W

Power Factor: 0.992

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 25078.5 lm

Measurement Flux: 25078.5 lm

Efficiency: 100.00%

Downward Ratio: 99.59%

Upward Ratio: 0.41%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 126.8, 128.0, 127.5, 127.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 67.7, 67.9, 68.1, 68.0

Luminaire Efficacy Rating (LER): 126.77

Central Intensity: 16850.06 cd

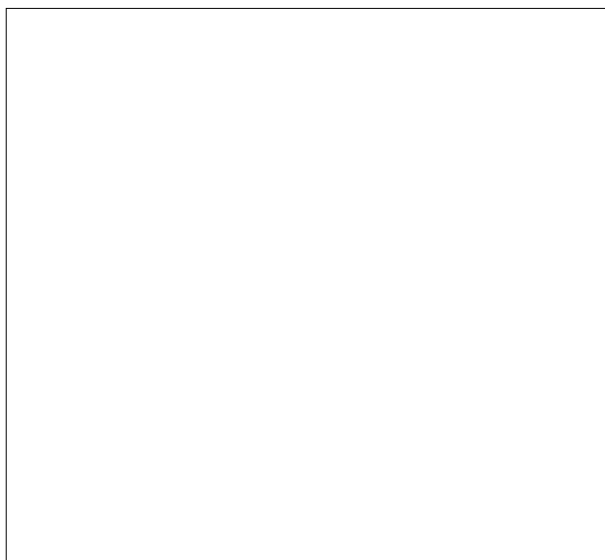
Max. Intensity: 16850.07 cd

Pos of Max. Intensity: H0 V0

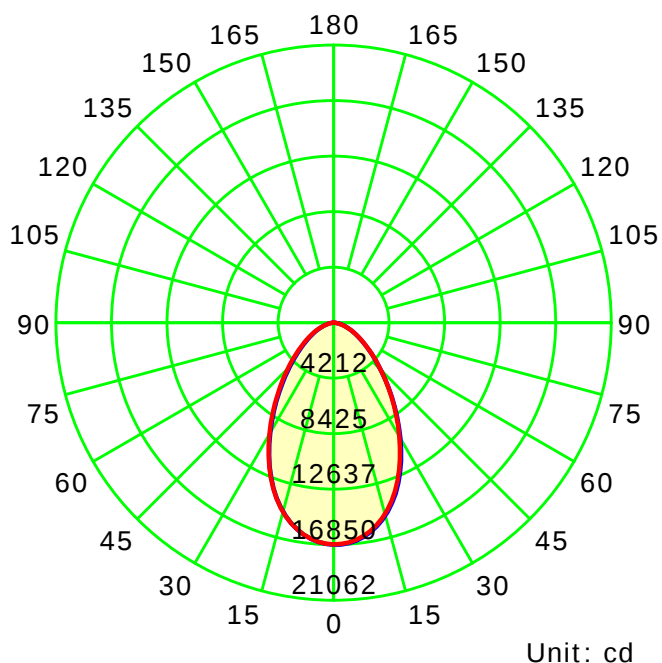
S/MH(C0/C180): 0.96

S/MH(C90/C270): 0.96

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

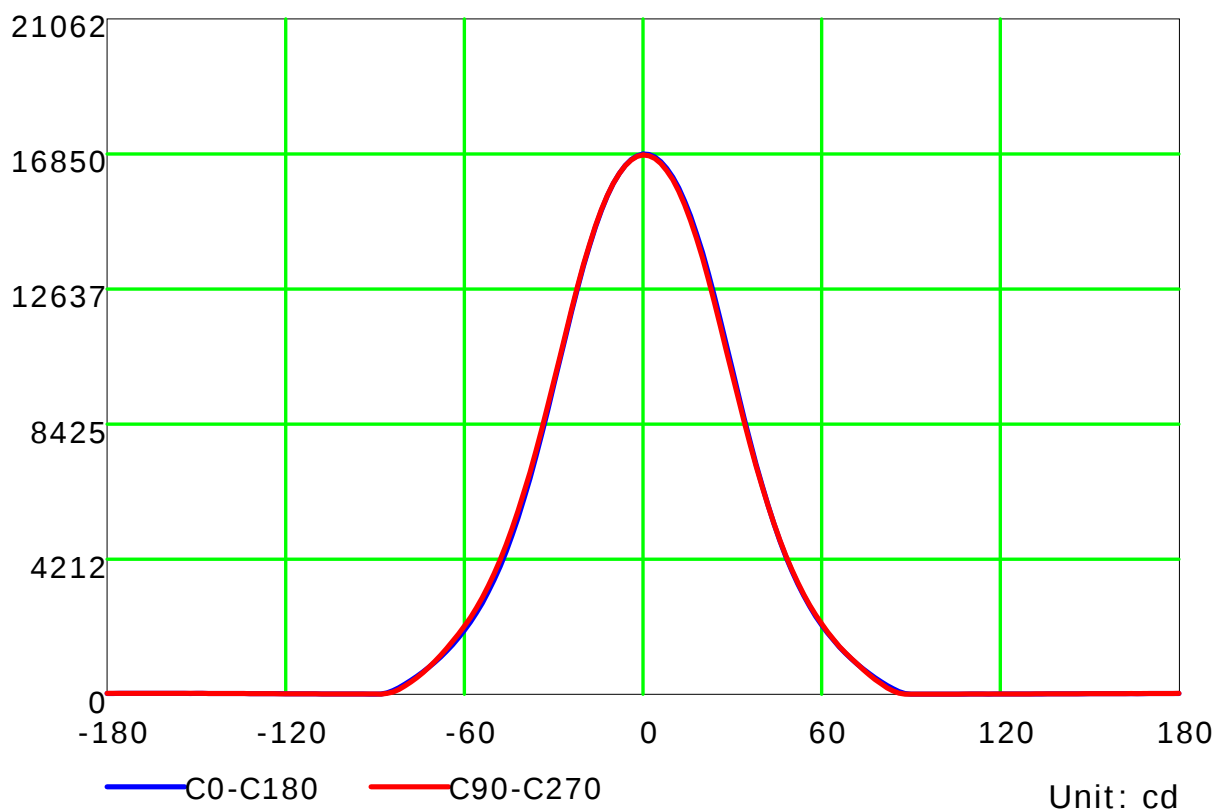
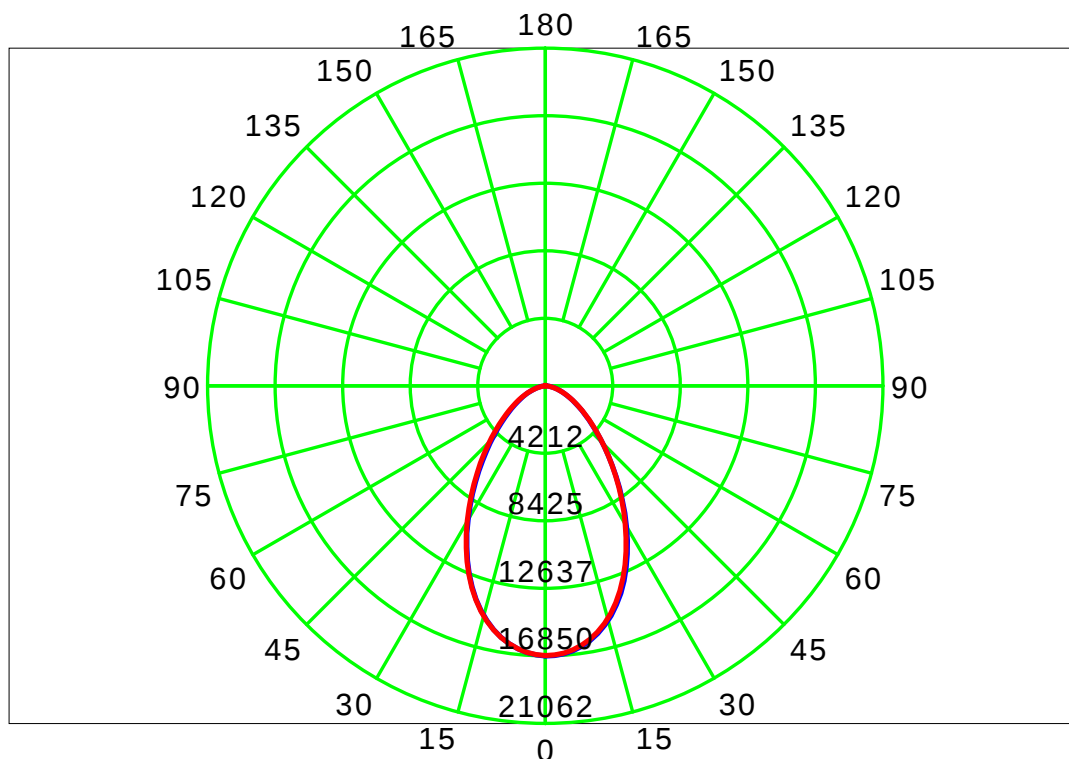
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

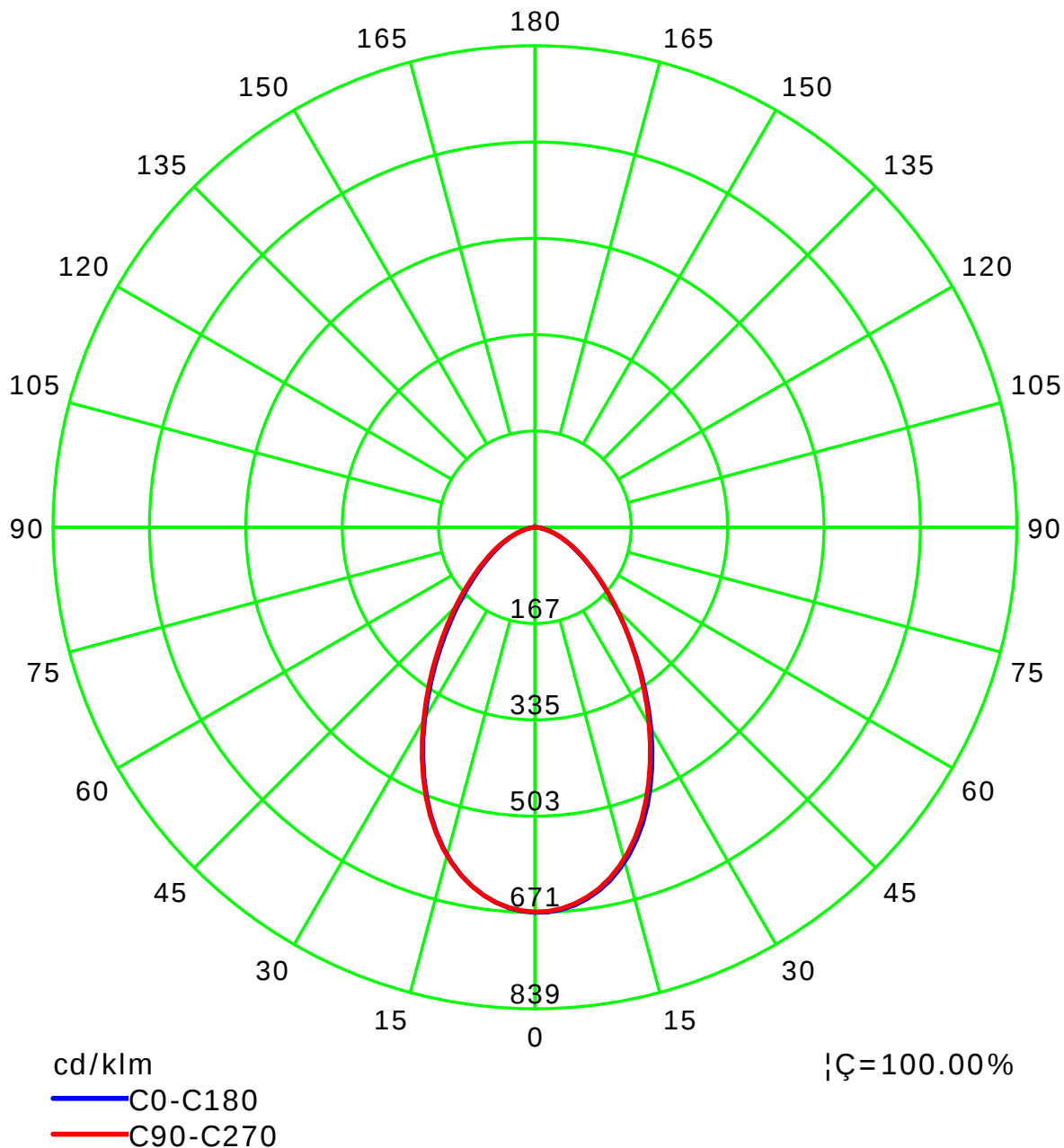
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

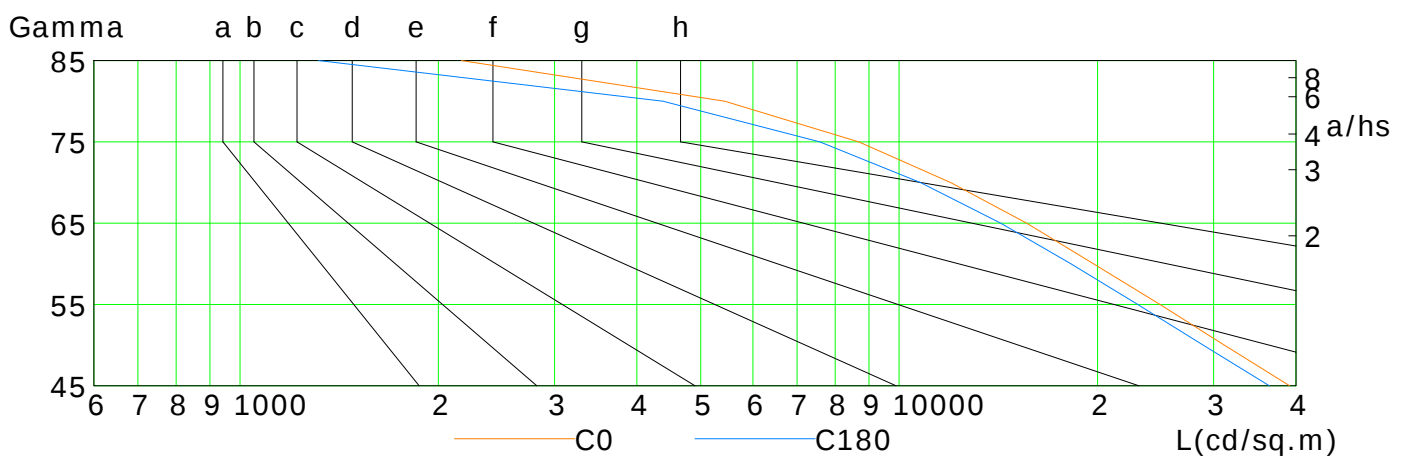
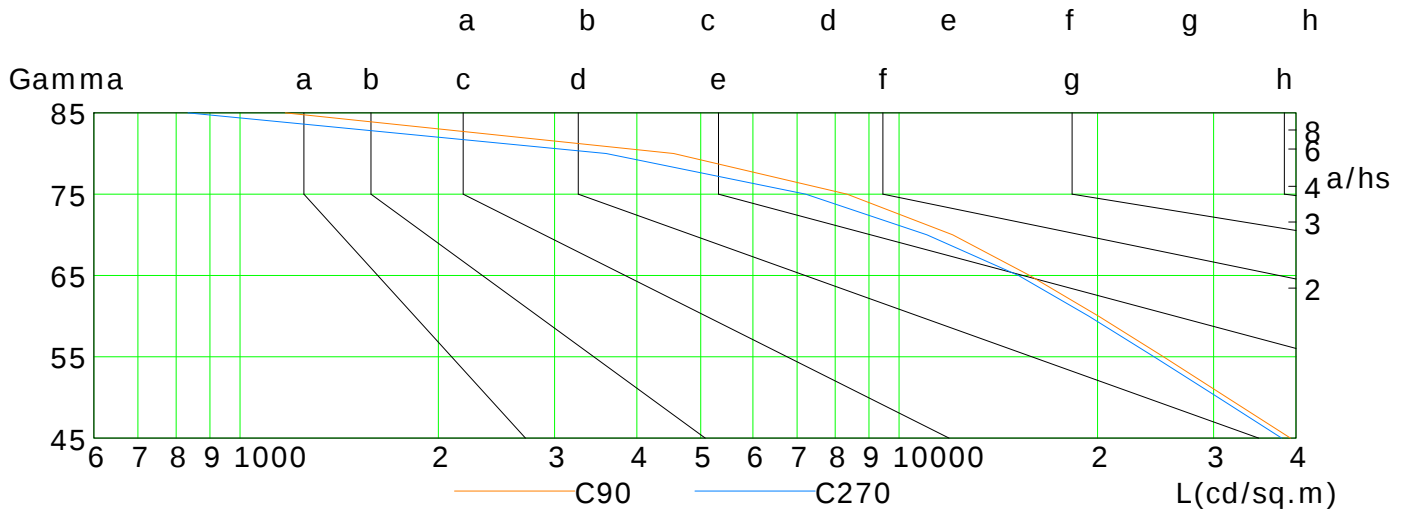
Inspector:

Luminous Intensity Distribution Curve(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	39135	31153	24869	19726	15608	11970	8684	5438	2168
C90	39225	31431	25189	20065	15781	12054	8336	4550	1172
C180	36441	28922	23009	18224	14258	10770	7578	4381	1316
C270	38057	30466	24362	19398	15176	11016	7216	3592	834

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

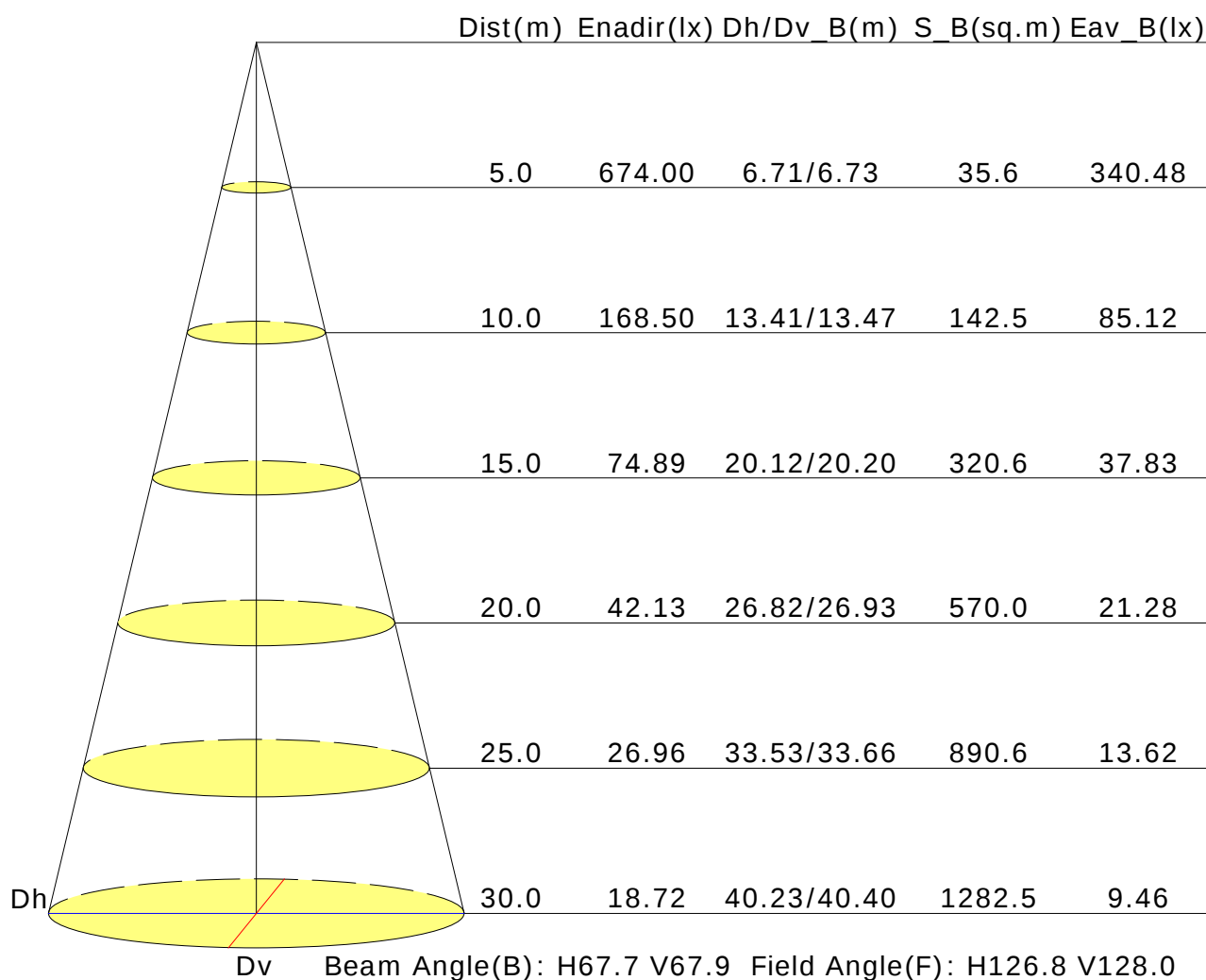
Test Device: LSG-1800B

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	22.7	23.8	23.0	24.1	24.3	22.7	23.8	23.0	24.0	24.3
3H	23.3	24.3	23.6	24.6	24.8	23.2	24.3	23.6	24.5	24.8
4H	23.4	24.4	23.8	24.7	25.0	23.4	24.4	23.7	24.6	24.9
6H	23.5	24.4	23.9	24.7	25.1	23.4	24.3	23.8	24.6	24.9
8H	23.5	24.4	23.9	24.7	25.0	23.4	24.3	23.8	24.6	24.9
12H	23.5	24.3	23.9	24.7	25.0	23.4	24.2	23.7	24.5	24.9
X=4H Y=2H	22.9	23.9	23.3	24.2	24.5	22.9	23.9	23.2	24.2	24.5
3H	23.6	24.5	24.0	24.8	25.1	23.6	24.4	24.0	24.8	25.1
4H	23.9	24.6	24.3	25.0	25.4	23.8	24.6	24.2	24.9	25.3
6H	24.0	24.7	24.4	25.1	25.5	23.9	24.5	24.3	24.9	25.3
8H	24.0	24.6	24.5	25.0	25.5	23.9	24.5	24.3	24.9	25.3
12H	24.0	24.6	24.5	25.0	25.4	23.9	24.4	24.3	24.8	25.3
X=8H Y=4H	23.9	24.5	24.4	24.9	25.4	23.9	24.5	24.3	24.9	25.3
6H	24.1	24.6	24.6	25.0	25.5	24.0	24.4	24.4	24.9	25.4
8H	24.1	24.6	24.6	25.0	25.5	24.0	24.4	24.5	24.9	25.3
12H	24.2	24.5	24.6	25.0	25.5	23.9	24.3	24.4	24.8	25.3
X=12H Y=4H	23.9	24.4	24.4	24.9	25.3	23.8	24.4	24.3	24.8	25.2
6H	24.1	24.5	24.6	25.0	25.5	24.0	24.4	24.4	24.8	25.3
8H	24.1	24.5	24.6	25.0	25.5	24.0	24.3	24.5	24.8	25.3
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.7					+0.5/-0.8				
S=1.5H	+1.1/-1.5					+1.1/-1.6				
S=2.0H	+2.1/-2.4					+2.1/-2.4				

Calculate in accordance with CIE Pub.117. The table is revised with 25079lm ($8\log(F/F_0) = 11.2$).

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 = 1.00									
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	0.68	0.78	0.84	0.88	0.94	0.98	1.01	1.05	1.07	
	0.30		0.62	0.71	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
	0.20		0.57	0.67	0.73	0.78	0.85	0.90	0.94	0.99	1.02	
0.50	0.50	0.20	0.67	0.76	0.81	0.86	0.91	0.95	0.97	1.01	1.03	
	0.30		0.61	0.70	0.76	0.81	0.87	0.91	0.94	0.98	1.00	
	0.20		0.57	0.66	0.72	0.77	0.84	0.88	0.91	0.96	0.98	
0.30	0.50	0.20	0.65	0.74	0.79	0.83	0.88	0.92	0.94	0.97	0.99	
	0.30		0.60	0.69	0.75	0.79	0.85	0.89	0.91	0.95	0.97	
	0.20		0.56	0.65	0.71	0.76	0.82	0.86	0.89	0.93	0.95	
0.00	0.00	0.00	0.54	0.63	0.69	0.73	0.79	0.82	0.85	0.89	0.91	
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 = 1.00									
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	0.82	0.67	0.56	0.48	0.38	0.31	0.27	0.21	0.17	
	0.30		0.69	0.57	0.49	0.43	0.35	0.29	0.25	0.19	0.16	
	0.20		0.59	0.50	0.43	0.38	0.31	0.27	0.23	0.18	0.15	
0.50	0.50	0.20	0.79	0.64	0.53	0.46	0.36	0.33	0.25	0.19	0.16	
	0.30		0.67	0.55	0.47	0.41	0.33	0.27	0.24	0.18	0.15	
	0.20		0.58	0.49	0.42	0.37	0.30	0.26	0.22	0.17	0.14	
0.30	0.50	0.20	0.76	0.61	0.51	0.44	0.34	0.28	0.24	0.18	0.15	
	0.30		0.65	0.54	0.46	0.40	0.32	0.26	0.22	0.17	0.14	
	0.20		0.57	0.48	0.41	0.36	0.29	0.25	0.21	0.16	0.14	
0.00	0.00	0.00	0.46	0.37	0.31	0.27	0.21	0.17	0.15	0.11	0.09	
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 = 1.00									
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	0.19	0.20	0.21	0.21	0.22	
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	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	0.20	0.21	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.19	0.19	0.19	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
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												