

Report No.:

Test Time: 08.06.2020 20:15

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 200W 3000K 60гр. диод 3Т матовое стекло

Number of Lamps: 1

Lumens per Lamp: 24212.9 lm

Luminous Length (mm): 364 mm

Luminous Width (mm): 364 mm

Luminous Height (mm): 138 mm

Voltage: 220.4 V

Current: 0.905 A

Power: 197.91 W

Power Factor: 0.992

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 24212.9 lm

Measurement Flux: 24212.9 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): 122.39

Central Intensity: 16268.47 cd

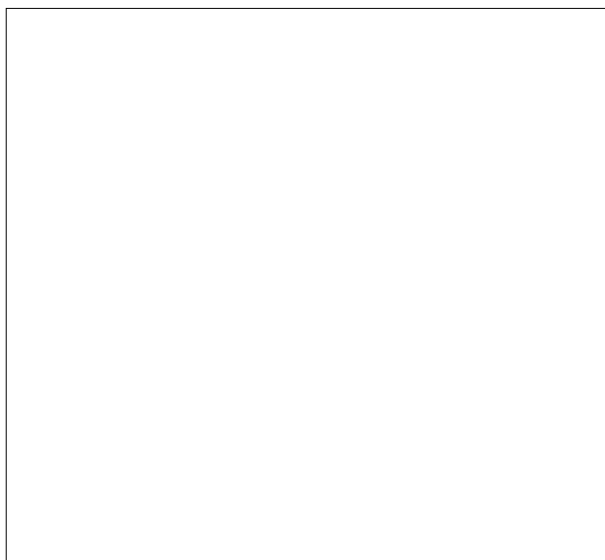
Max. Intensity: 16268.47 cd

Pos of Max. Intensity: H0 V0

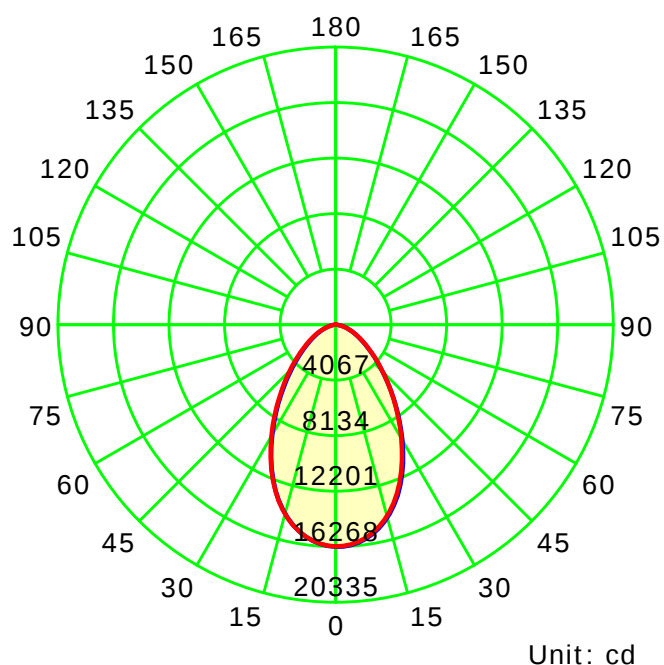
S/MH(C0/C180): 0.96

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

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

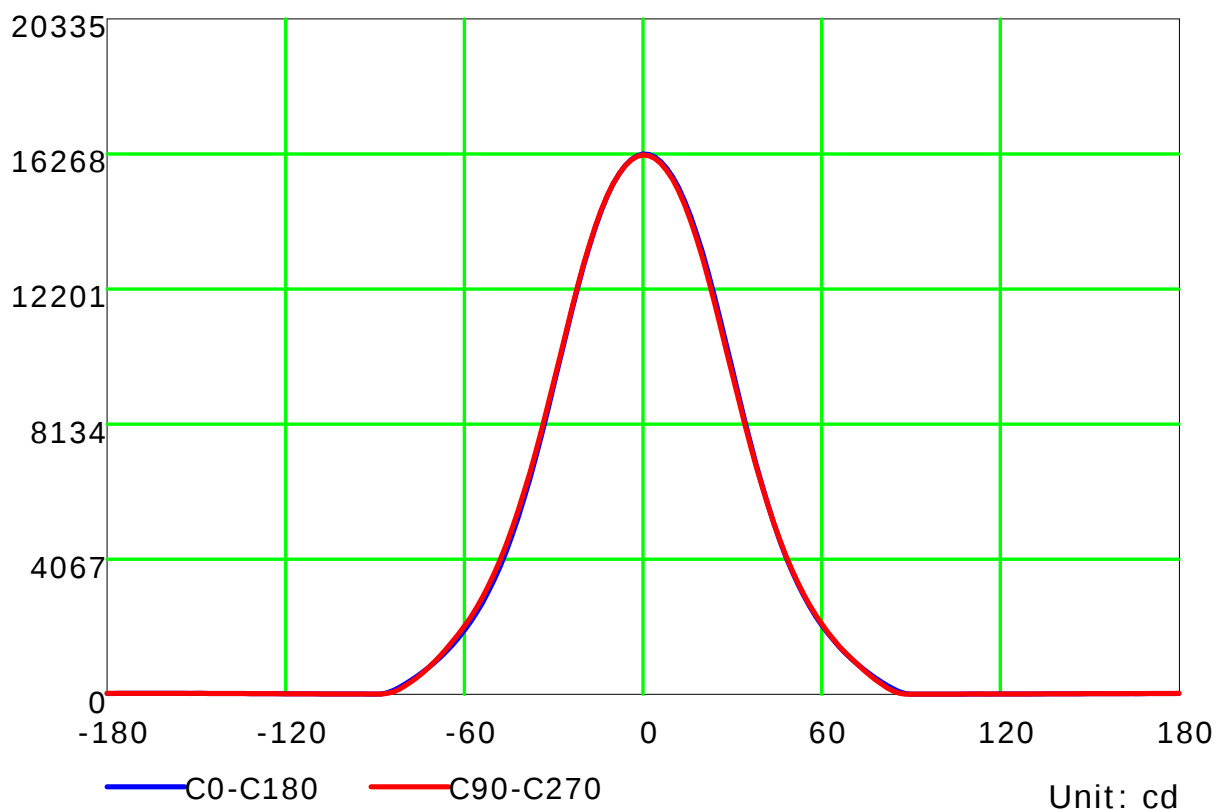
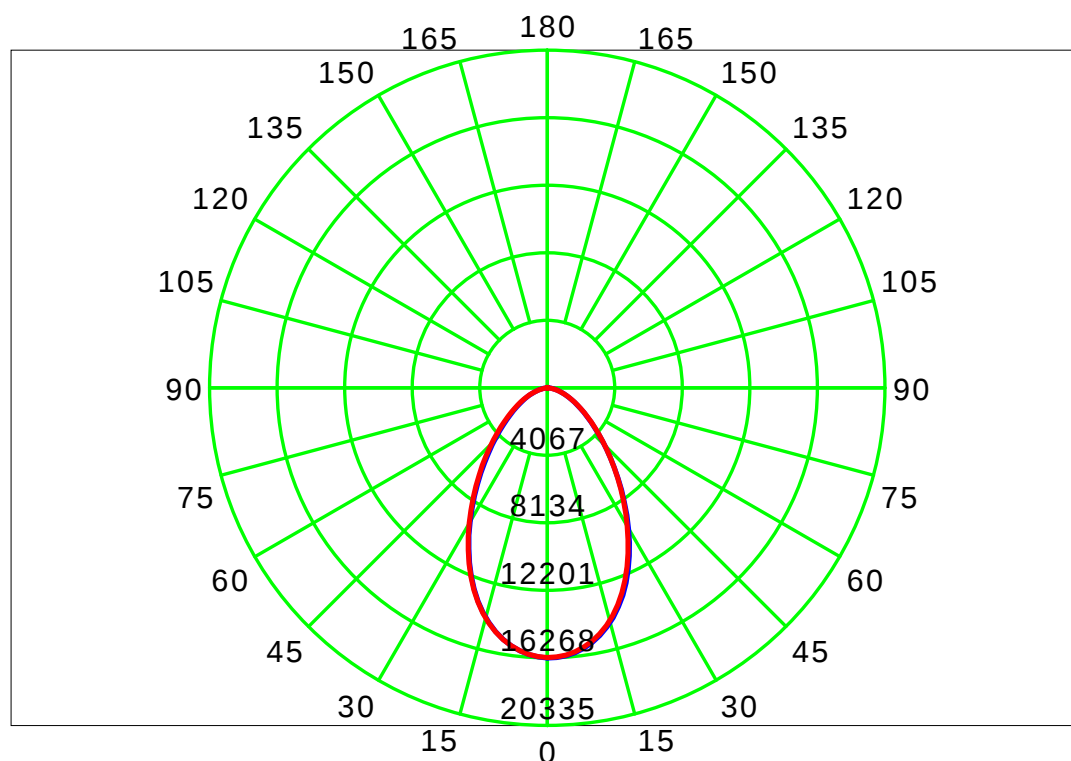
Temperature:

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

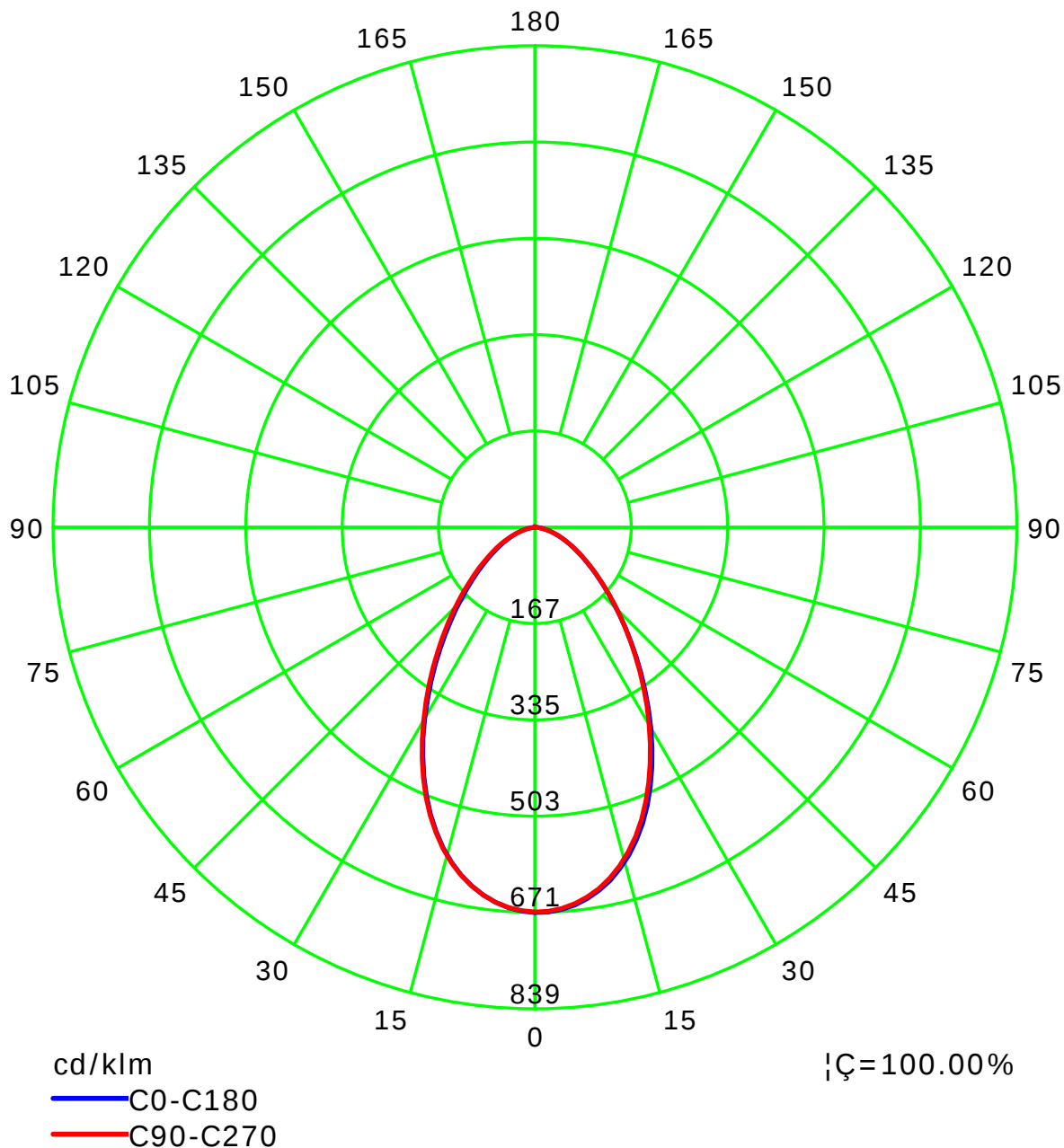
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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

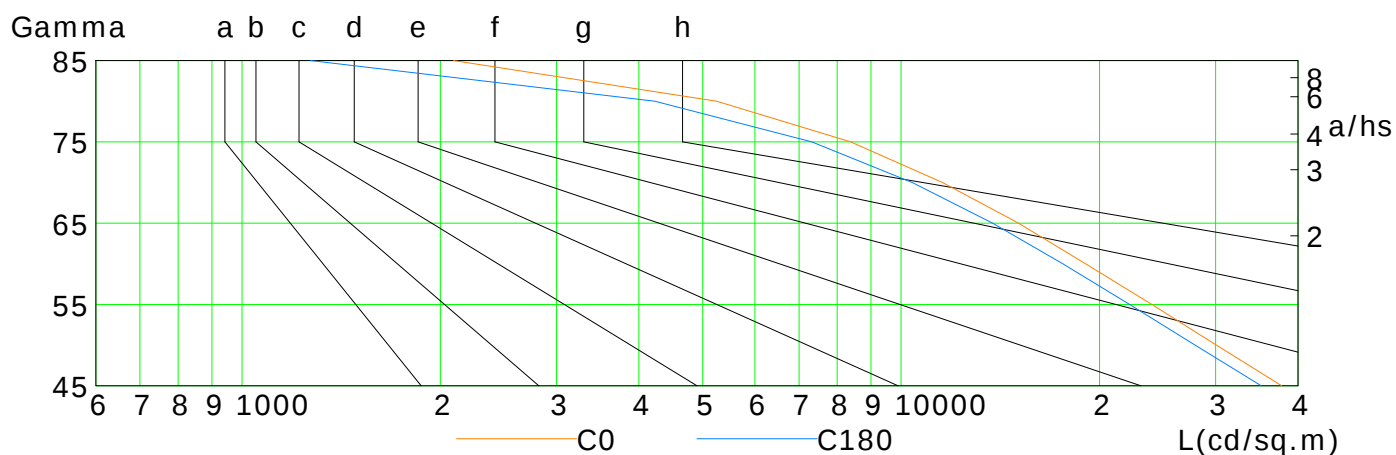
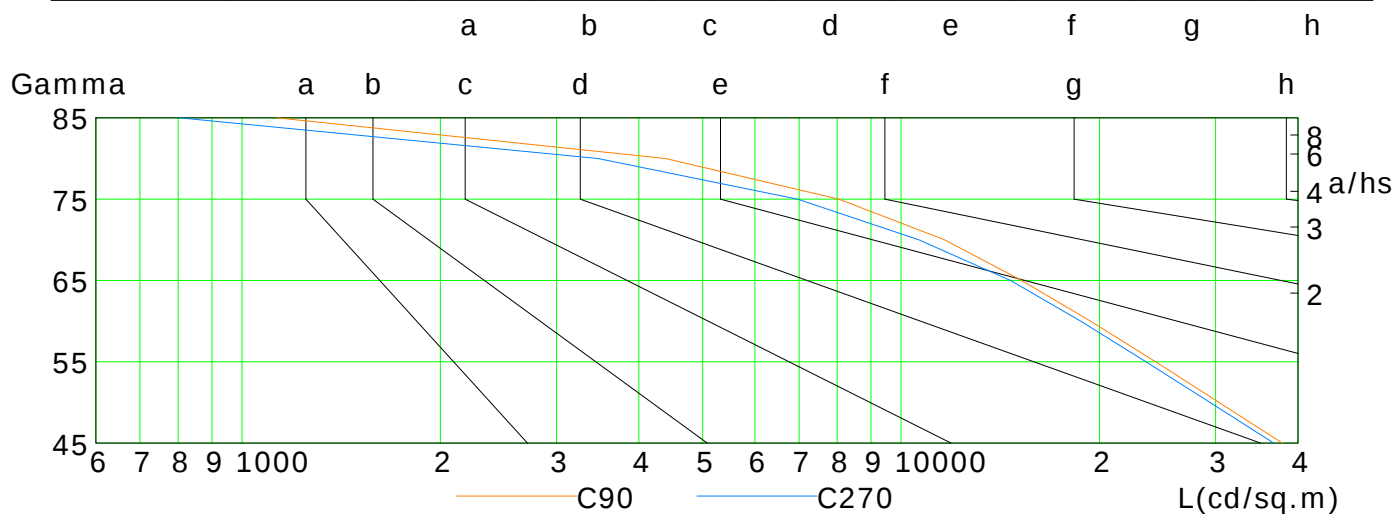
Distance: 12.677 m

Humidity:

Inspector:

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	37784	30078	24011	19045	15070	11557	8384	5250	2093
C90	37871	30347	24320	19373	15236	11638	8048	4393	1131
C180	35183	27923	22215	17595	13766	10398	7316	4230	1271
C270	36743	29415	23521	18728	14653	10636	6967	3468	805

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

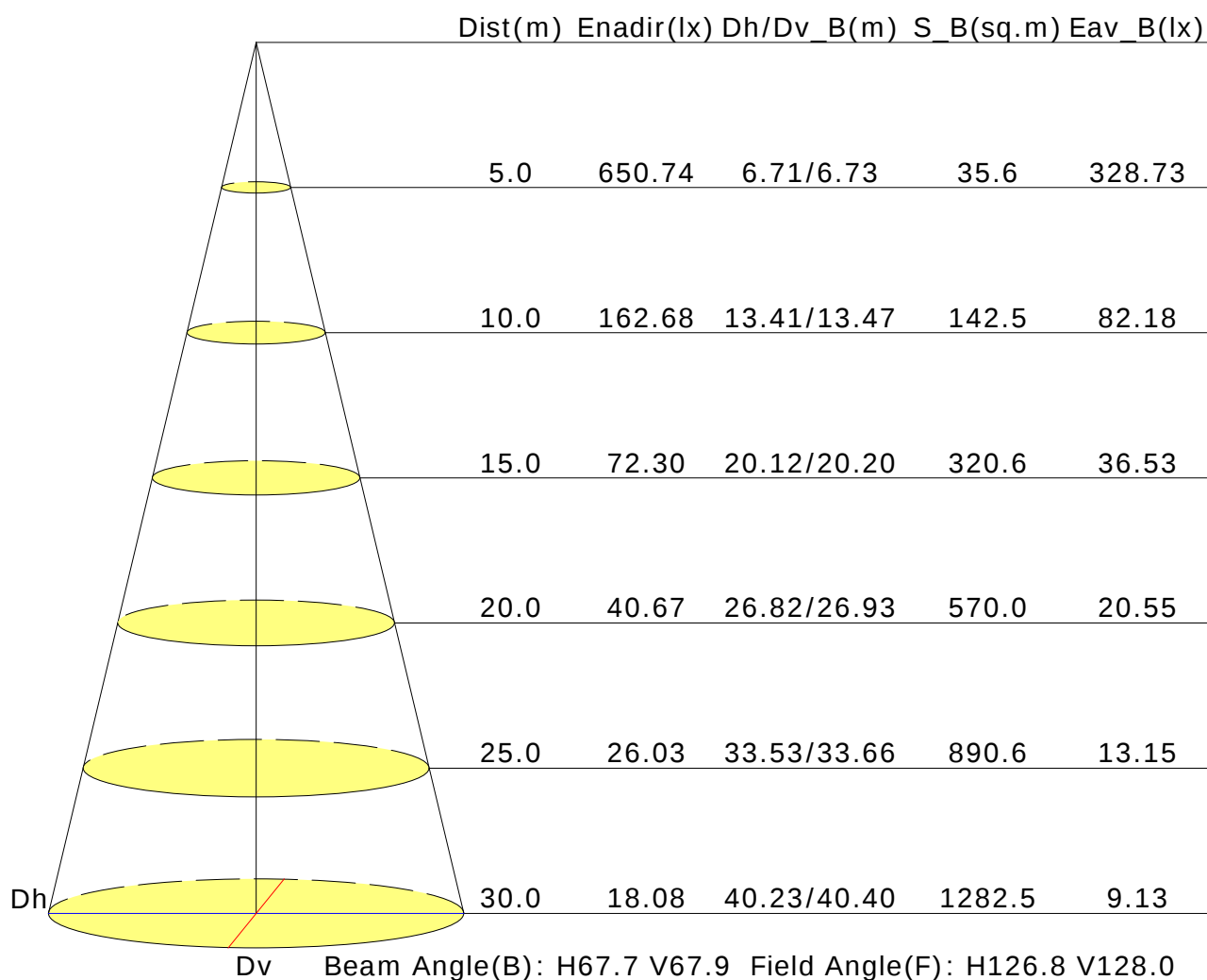
Test Device: LSG-1800B

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	22.6	23.7	22.9	24.0	24.2	22.5	23.7	22.8	23.9	24.2
3H	23.1	24.2	23.5	24.5	24.7	23.1	24.1	23.4	24.4	24.7
4H	23.3	24.3	23.7	24.6	24.9	23.3	24.2	23.6	24.5	24.8
6H	23.4	24.3	23.8	24.6	24.9	23.3	24.2	23.6	24.5	24.8
8H	23.4	24.3	23.8	24.6	24.9	23.3	24.1	23.6	24.5	24.8
12H	23.4	24.2	23.8	24.5	24.9	23.2	24.1	23.6	24.4	24.7
X=4H Y=2H	22.8	23.8	23.1	24.1	24.4	22.8	23.8	23.1	24.0	24.3
3H	23.5	24.4	23.9	24.7	25.0	23.5	24.3	23.9	24.6	25.0
4H	23.8	24.5	24.2	24.9	25.2	23.7	24.4	24.1	24.8	25.2
6H	23.9	24.6	24.3	24.9	25.3	23.8	24.4	24.2	24.8	25.2
8H	23.9	24.5	24.4	24.9	25.3	23.8	24.4	24.2	24.8	25.2
12H	23.9	24.4	24.4	24.9	25.3	23.7	24.3	24.2	24.7	25.1
X=8H Y=4H	23.8	24.4	24.2	24.8	25.2	23.7	24.3	24.2	24.7	25.2
6H	24.0	24.5	24.5	24.9	25.4	23.8	24.3	24.3	24.8	25.2
8H	24.0	24.4	24.5	24.9	25.4	23.9	24.3	24.3	24.7	25.2
12H	24.0	24.4	24.5	24.9	25.4	23.8	24.2	24.3	24.7	25.2
X=12H Y=4H	23.8	24.3	24.2	24.7	25.2	23.7	24.2	24.2	24.7	25.1
6H	24.0	24.4	24.5	24.9	25.3	23.8	24.3	24.3	24.7	25.2
8H	24.0	24.4	24.5	24.9	25.4	23.8	24.2	24.3	24.7	25.2
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 24213lm ($8\log(F/F_0) = 11.1$).

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 = 1.00									
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												