

Report No.:

Test Time: 08.06.2020 18:17

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 150W 3000K 90гр. диод 3Т матовое стекло

Number of Lamps: 1

Lumens per Lamp: 18494.9 lm

Luminous Length (mm): 316 mm

Luminous Width (mm): 316 mm

Luminous Height (mm): 132 mm

Voltage: 222.3 V

Current: 0.699 A

Power: 152.95 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 18494.9 lm

Measurement Flux: 18494.9 lm

Efficiency: 100.00%

Downward Ratio: 99.56%

Upward Ratio: 0.44%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 143.4, 142.3, 142.8, 143.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 89.9, 89.6, 89.0, 89.9

Luminaire Efficacy Rating (LER): 120.97

Central Intensity: 8569.44 cd

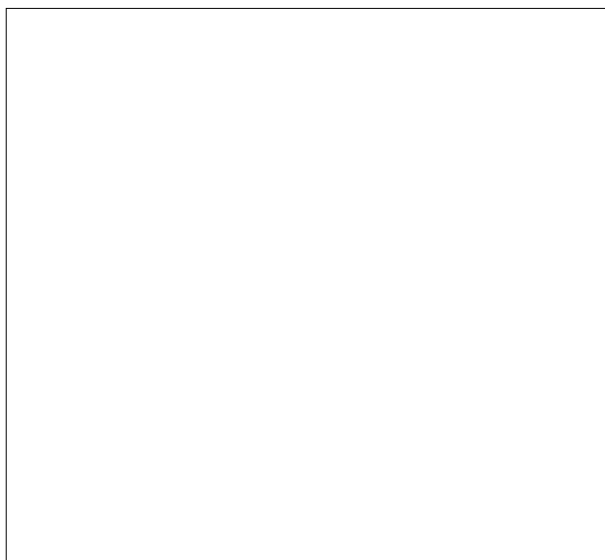
Max. Intensity: 8766.67 cd

Pos of Max. Intensity: H67.5 V12

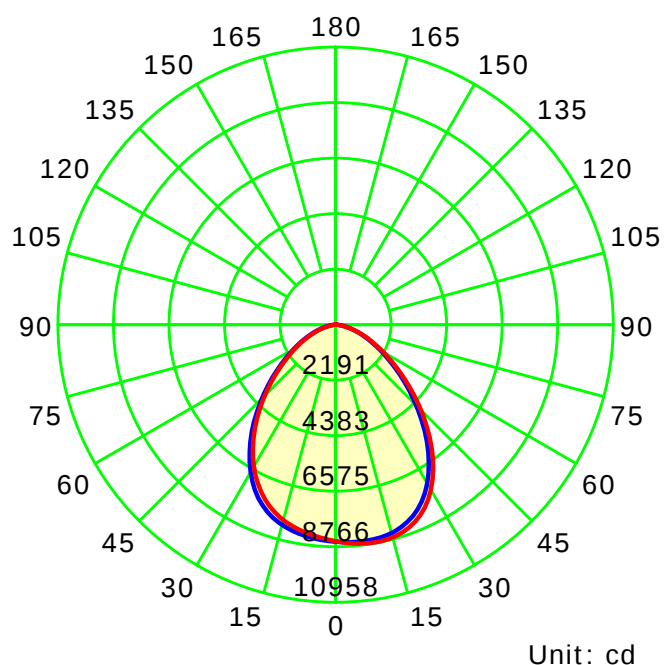
S/MH(C0/C180): 1.20

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

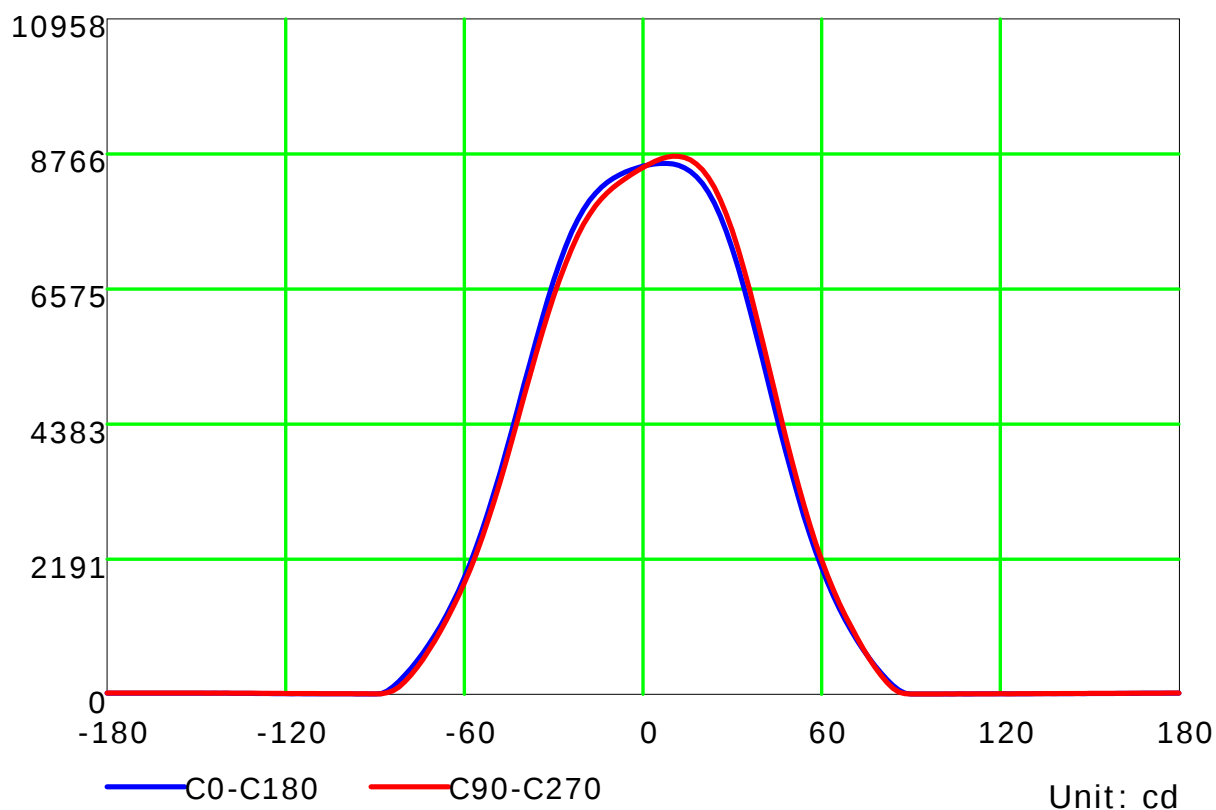
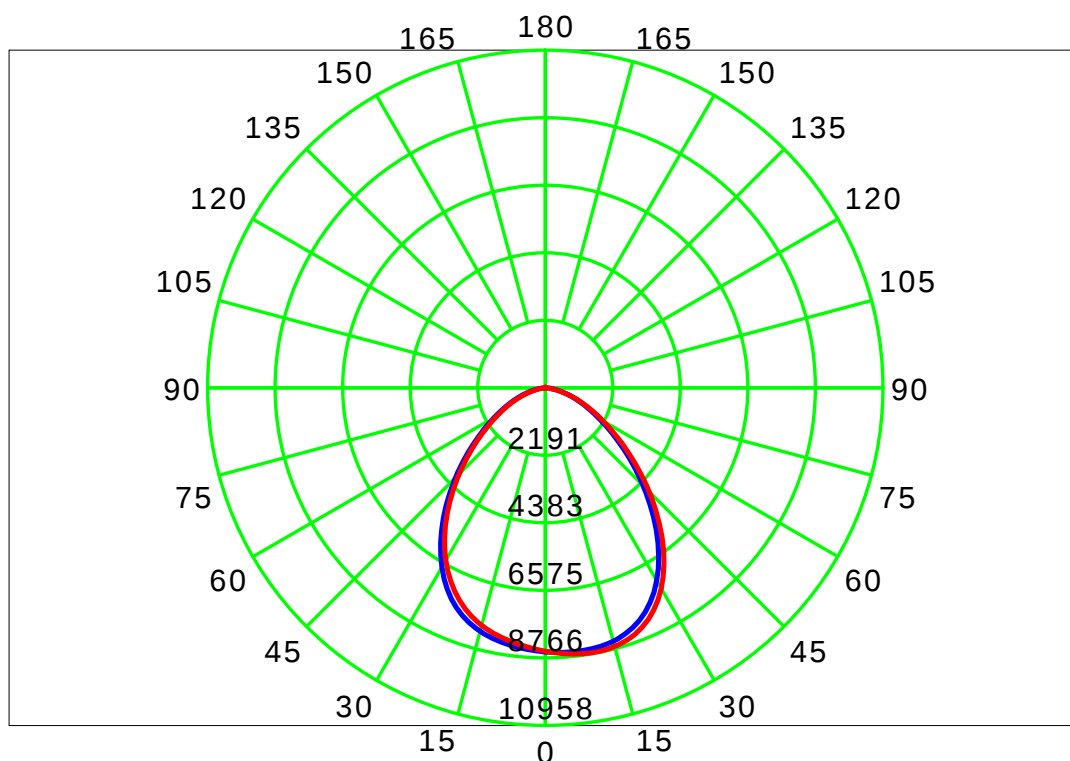
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



Unit: cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

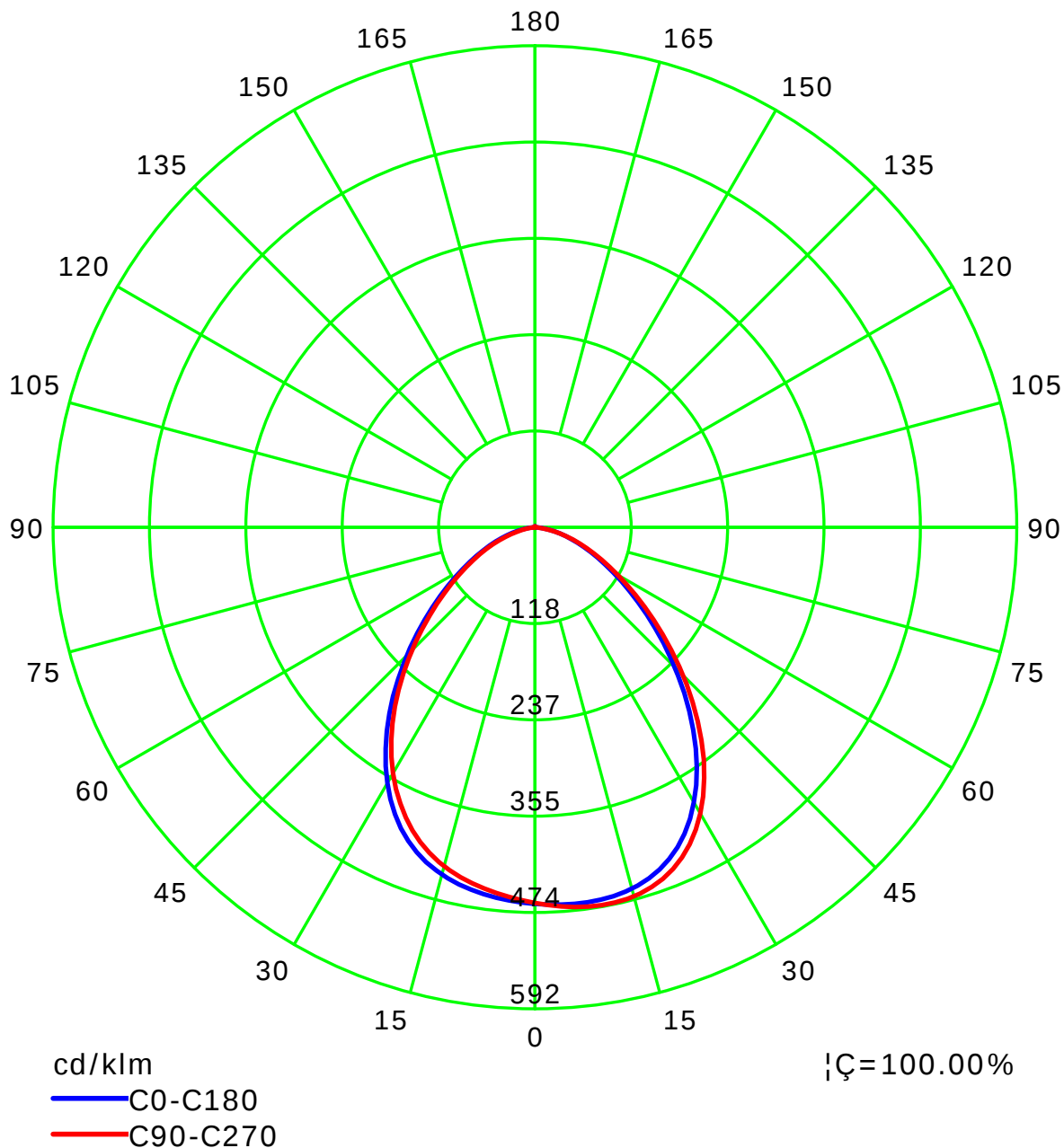
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

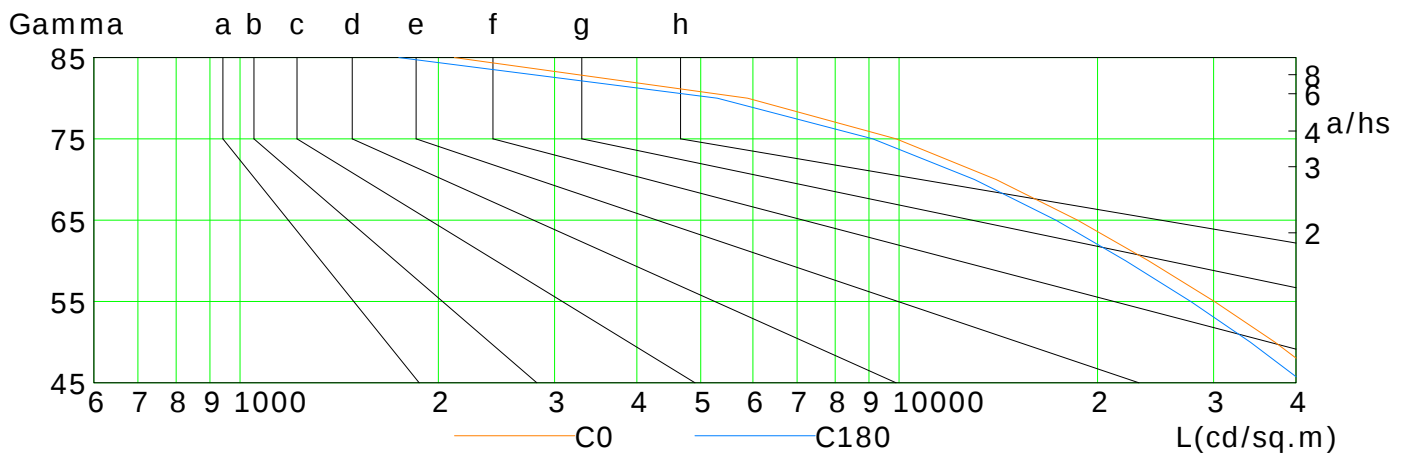
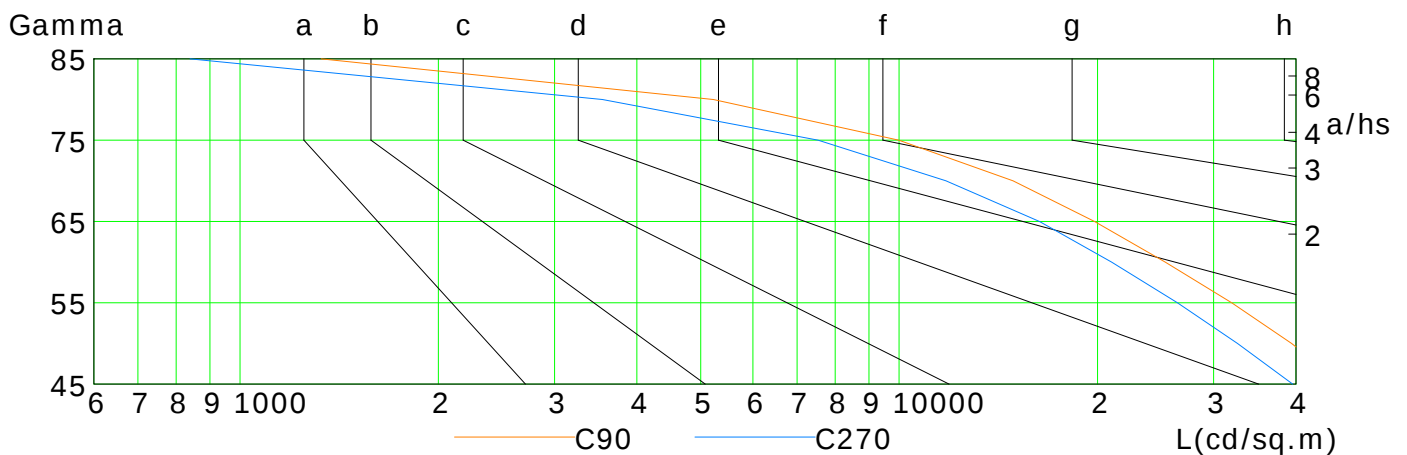
Luminous Intensity Distribution Curve(cd / klm)



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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	44886	37167	30091	23901	18652	14033	9899	5890	2114
C90	47595	39400	31950	25343	19784	14888	9986	5225	1328
C180	41177	34101	27694	22067	17292	13010	9119	5298	1741
C270	39537	32601	26435	21008	16326	11779	7533	3546	840

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

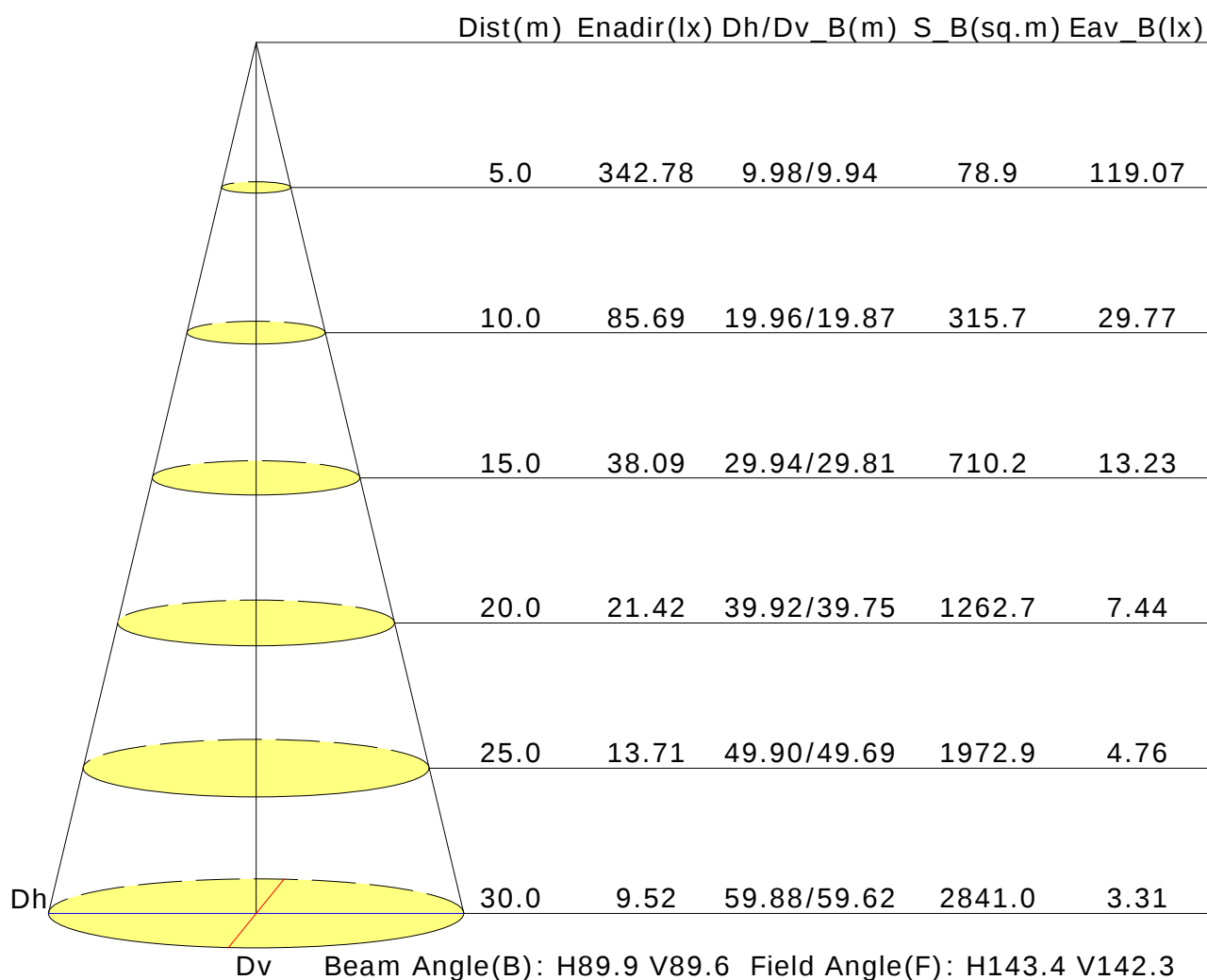
Test Device: LSG-1800B

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	23.8	25.0	24.1	25.2	25.5	23.7	25.0	24.0	25.2	25.4
3H	24.4	25.5	24.7	25.8	26.0	24.3	25.5	24.7	25.7	26.0
4H	24.6	25.6	24.9	25.9	26.2	24.5	25.5	24.8	25.8	26.1
6H	24.6	25.6	25.0	25.9	26.2	24.5	25.5	24.9	25.8	26.1
8H	24.6	25.6	25.0	25.9	26.2	24.5	25.4	24.9	25.8	26.1
12H	24.6	25.5	25.0	25.8	26.2	24.5	25.4	24.8	25.7	26.0
X=4H Y=2H	24.0	25.1	24.4	25.4	25.7	24.0	25.0	24.3	25.3	25.6
3H	24.8	25.7	25.1	26.0	26.3	24.7	25.6	25.1	26.0	26.3
4H	25.0	25.8	25.4	26.2	26.6	24.9	25.7	25.4	26.1	26.5
6H	25.1	25.8	25.6	26.2	26.6	25.0	25.7	25.4	26.1	26.5
8H	25.2	25.8	25.6	26.2	26.6	25.0	25.7	25.5	26.1	26.5
12H	25.1	25.7	25.6	26.1	26.6	25.0	25.6	25.4	26.0	26.4
X=8H Y=4H	25.1	25.7	25.5	26.1	26.5	25.0	25.6	25.4	26.0	26.5
6H	25.2	25.7	25.7	26.2	26.6	25.1	25.6	25.6	26.1	26.5
8H	25.3	25.7	25.7	26.2	26.7	25.1	25.6	25.6	26.0	26.5
12H	25.2	25.6	25.7	26.1	26.6	25.1	25.5	25.6	25.9	26.5
X=12H Y=4H	25.0	25.6	25.5	26.0	26.5	25.0	25.5	25.4	26.0	26.4
6H	25.2	25.7	25.7	26.1	26.6	25.1	25.5	25.6	26.0	26.5
8H	25.2	25.6	25.7	26.1	26.6	25.1	25.5	25.6	26.0	26.5
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.6					+0.4/-0.7				
S=1.5H	+0.9/-1.4					+0.7/-1.5				
S=2.0H	+1.9/-2.4					+1.6/-2.4				

Calculate in accordance with CIE Pub.117. The table is revised with 18495lm ($8\log(F/F_0) = 10.1$).

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	0.65	0.75	0.82	0.86	0.93	0.97	1.00	1.04	1.06	
	0.30		0.58	0.68	0.75	0.80	0.88	0.92	0.96	1.00	1.03	
	0.20		0.53	0.63	0.71	0.76	0.83	0.89	0.92	0.97	1.01	
0.50	0.50	0.20	0.64	0.73	0.79	0.84	0.90	0.94	0.96	1.00	1.02	
	0.30		0.58	0.67	0.74	0.79	0.85	0.90	0.93	0.97	0.99	
	0.20		0.53	0.63	0.70	0.75	0.82	0.86	0.90	0.95	0.97	
0.30	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.90	0.93	0.96	0.98	
	0.30		0.57	0.66	0.73	0.77	0.83	0.87	0.90	0.94	0.96	
	0.20		0.53	0.62	0.69	0.74	0.80	0.84	0.88	0.92	0.94	
0.00	0.00	0.00	0.51	0.60	0.66	0.71	0.77	0.81	0.84	0.87	0.90	
Rating:153W 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	0.87	0.70	0.59	0.51	0.40	0.33	0.28	0.22	0.18	
	0.30		0.72	0.60	0.51	0.45	0.36	0.30	0.26	0.20	0.17	
	0.20		0.62	0.52	0.46	0.40	0.33	0.28	0.24	0.19	0.16	
0.50	0.50	0.20	0.83	0.67	0.56	0.48	0.38	0.35	0.27	0.20	0.16	
	0.30		0.70	0.58	0.50	0.43	0.35	0.29	0.25	0.19	0.16	
	0.20		0.61	0.51	0.45	0.39	0.32	0.27	0.23	0.18	0.15	
0.30	0.50	0.20	0.81	0.64	0.54	0.46	0.36	0.30	0.25	0.19	0.16	
	0.30		0.69	0.57	0.48	0.42	0.33	0.28	0.24	0.18	0.15	
	0.20		0.60	0.51	0.44	0.38	0.31	0.26	0.22	0.17	0.14	
0.00	0.00	0.00	0.49	0.40	0.34	0.29	0.23	0.19	0.16	0.12	0.10	
Rating:153W 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	0.17	0.18	0.19	0.20	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		0.05	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		0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	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	0.16	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:153W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												