

Report No.:

Test Time: 08.06.2020 23:36

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 100W 4000K 120гр. диод 3Т матовое стекло

Number of Lamps: 1

Lumens per Lamp: 11761.4 lm

Luminous Length (mm): 277 mm

Luminous Width (mm): 277 mm

Luminous Height (mm): 123 mm

Voltage: 222.2 V

Current: 0.448 A

Power: 98.50 W

Power Factor: 0.990

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 11761.4 lm

Measurement Flux: 11761.4 lm

Efficiency: 100.00%

Downward Ratio: 99.74%

Upward Ratio: 0.26%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.1, 153.6, 155.0, 155.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.4, 101.4, 101.2, 101.1

Luminaire Efficacy Rating (LER): 119.46

Central Intensity: 4712.06 cd

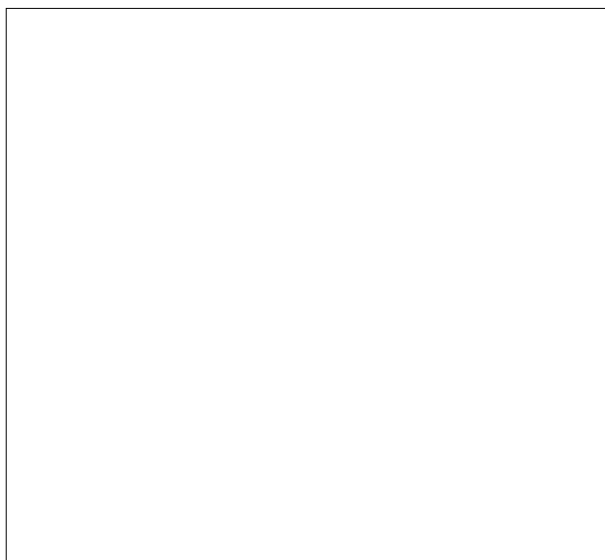
Max. Intensity: 4712.07 cd

Pos of Max. Intensity: H0 V0

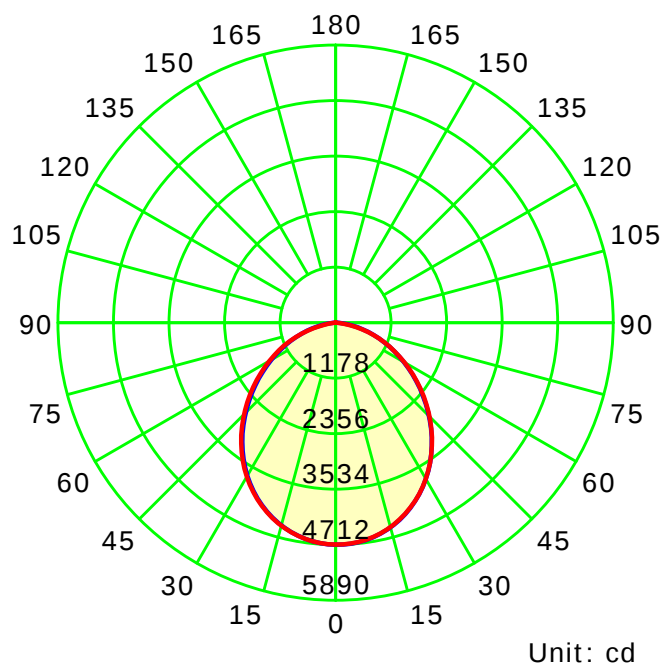
S/MH(C0/C180): 1.20

S/MH(C90/C270): 1.20

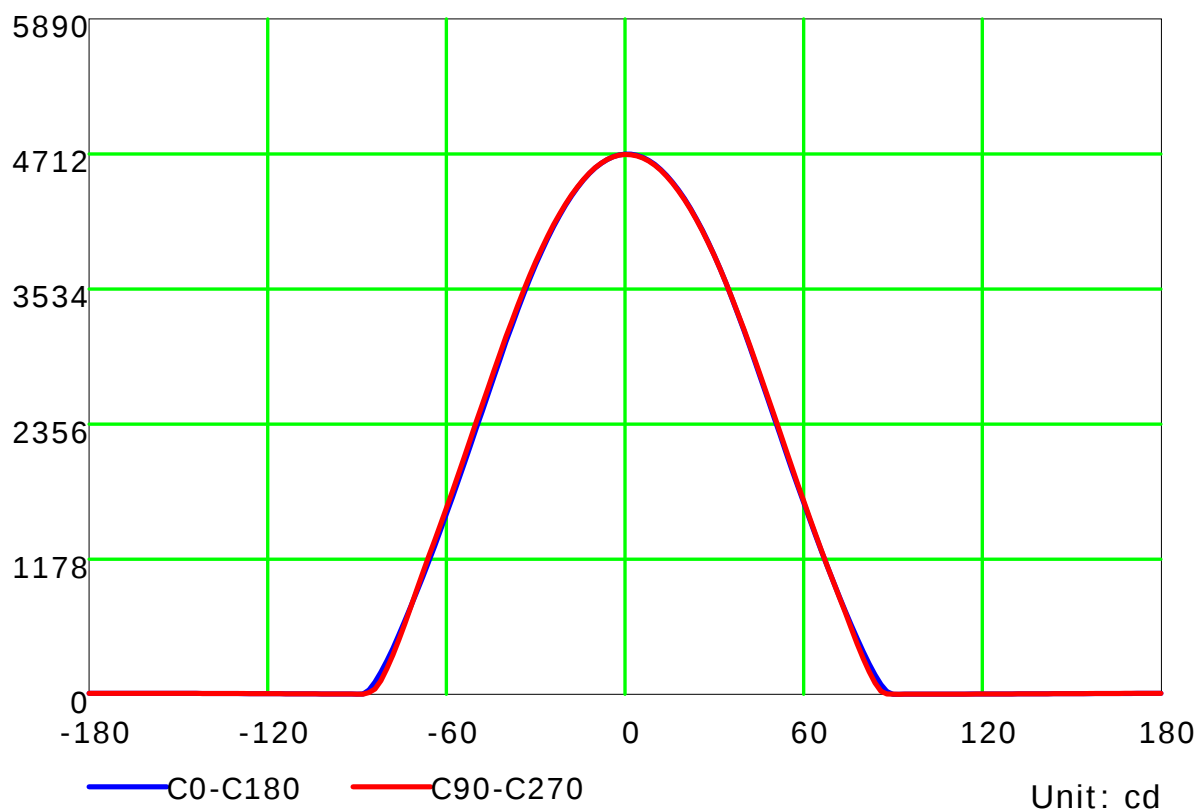
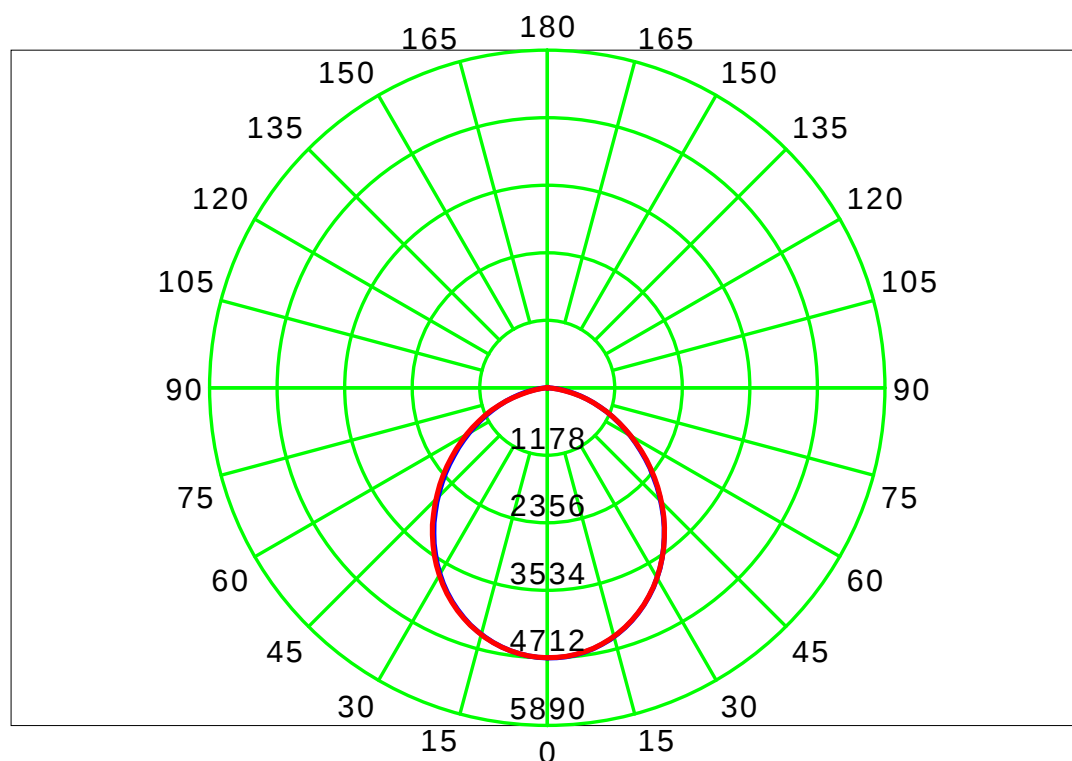
Picture Of Luminaire



Luminous Intensity Distribution Curve



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

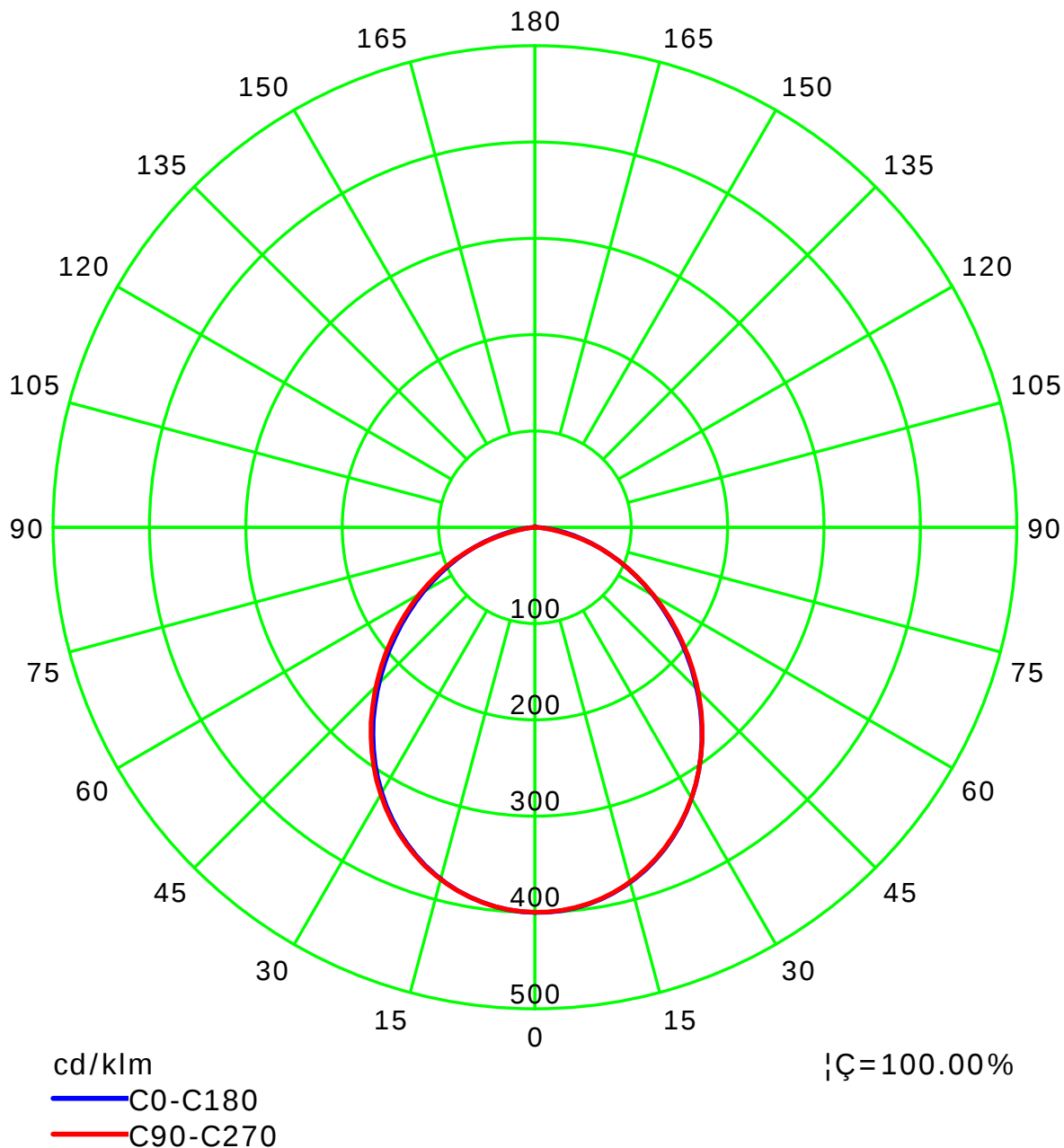
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

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Operator:

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Test Device: LSG-1800B

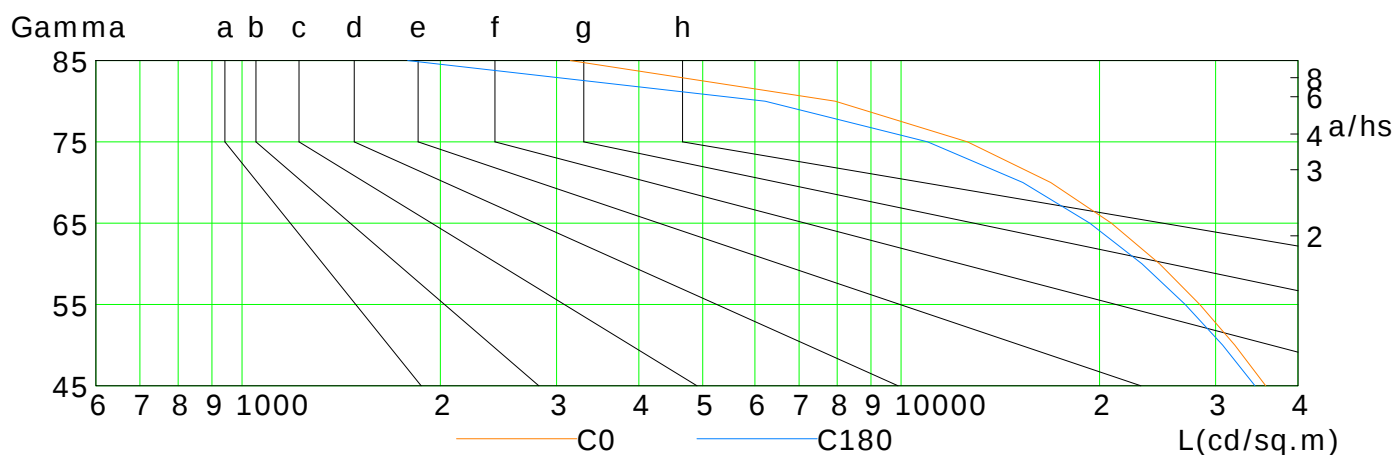
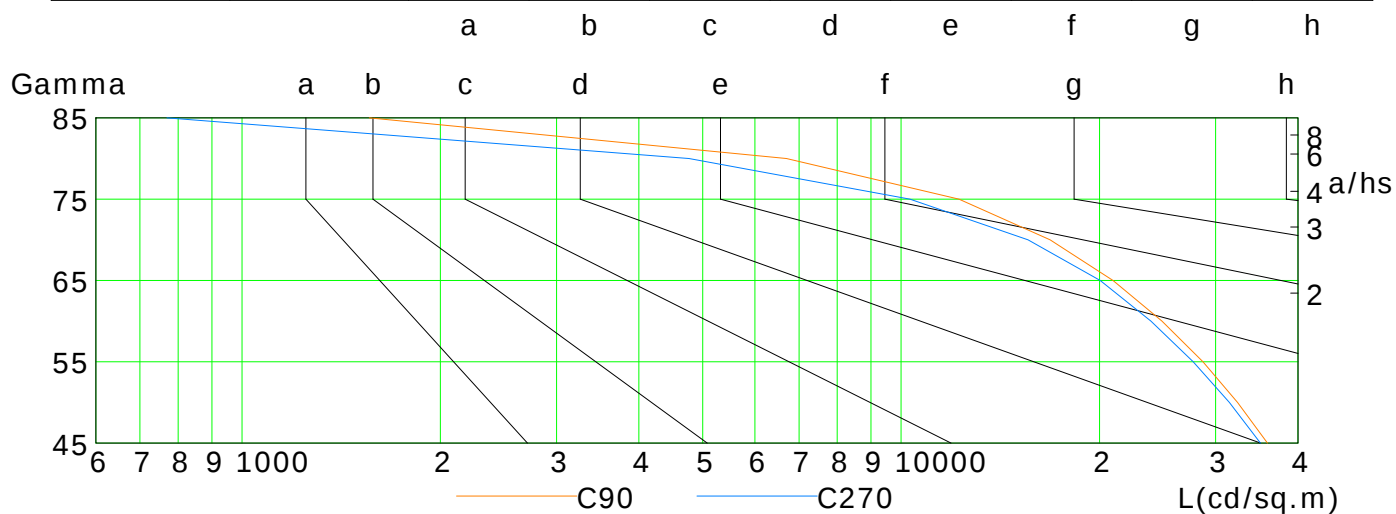
Distance: 12.677 m

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	35744	32079	28379	24661	20842	16861	12606	7945	3148
C90	35956	32386	28695	24874	20956	16823	12243	6699	1560
C180	34423	30745	26982	23191	19326	15304	10971	6217	1784
C270	35083	31480	27739	23936	20046	15573	10314	4766	769

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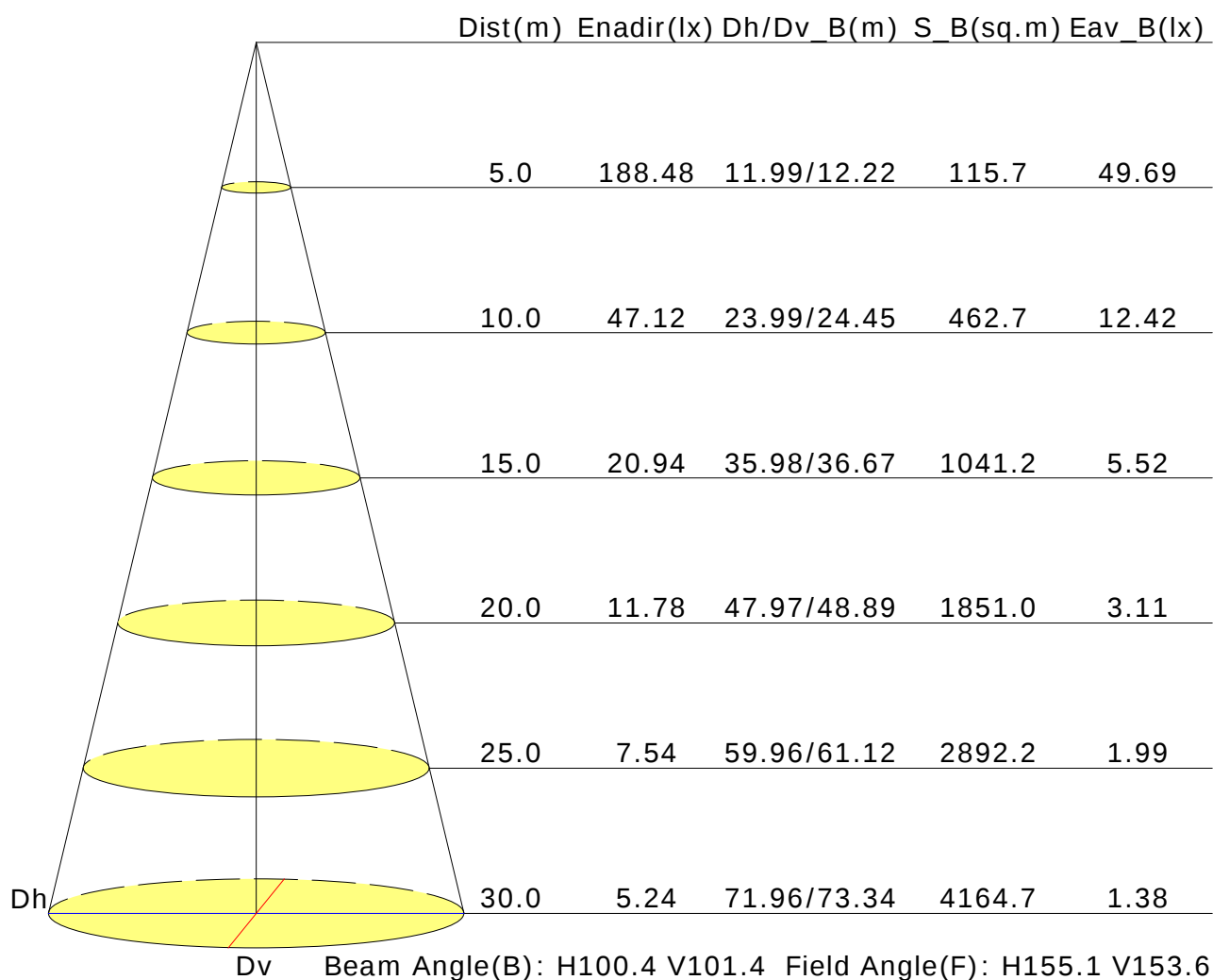
Test Device: LSG-1800B

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	25.2	24.1	25.4	25.7	23.8	25.2	24.1	25.4	25.6
3H	24.9	26.1	25.2	26.4	26.7	24.8	26.1	25.2	26.3	26.6
4H	25.2	26.4	25.6	26.7	27.0	25.1	26.3	25.5	26.6	26.9
6H	25.4	26.5	25.8	26.8	27.1	25.3	26.3	25.6	26.6	26.9
8H	25.4	26.5	25.8	26.8	27.1	25.2	26.3	25.6	26.6	26.9
12H	25.4	26.4	25.8	26.7	27.1	25.2	26.2	25.6	26.5	26.9
X=4H Y=2H	24.3	25.4	24.6	25.7	26.0	24.3	25.4	24.6	25.7	26.0
3H	25.5	26.5	25.9	26.8	27.1	25.4	26.4	25.8	26.8	27.1
4H	25.9	26.8	26.3	27.2	27.5	25.8	26.7	26.2	27.1	27.4
6H	26.2	27.0	26.6	27.3	27.7	26.0	26.8	26.4	27.2	27.6
8H	26.2	26.9	26.7	27.3	27.8	26.0	26.7	26.4	27.1	27.5
12H	26.2	26.9	26.7	27.3	27.7	26.0	26.6	26.4	27.0	27.5
X=8H Y=4H	26.0	26.7	26.5	27.1	27.6	25.9	26.7	26.4	27.1	27.5
6H	26.4	26.9	26.8	27.4	27.8	26.2	26.7	26.6	27.2	27.7
8H	26.5	27.0	26.9	27.4	27.9	26.2	26.7	26.7	27.2	27.7
12H	26.5	26.9	27.0	27.4	27.9	26.2	26.6	26.7	27.1	27.6
X=12H Y=4H	26.0	26.7	26.5	27.1	27.5	25.9	26.6	26.4	27.0	27.4
6H	26.4	26.9	26.9	27.3	27.8	26.2	26.7	26.7	27.1	27.6
8H	26.5	26.9	27.0	27.4	27.9	26.2	26.7	26.7	27.1	27.6
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.3				
S=1.5H	+0.4/-0.7					+0.4/-0.8				
S=2.0H	+0.9/-1.3					+0.9/-1.4				

Calculate in accordance with CIE Pub.117. The table is revised with 11761Im ($8\log(F/F_0) = 8.6$).

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	0.60	0.70	0.77	0.82	0.89	0.94	0.97	1.02	1.04	
	0.30		0.52	0.63	0.70	0.76	0.83	0.89	0.93	0.98	1.01	
	0.20		0.47	0.57	0.65	0.70	0.79	0.85	0.89	0.95	0.98	
0.50	0.50	0.20	0.58	0.68	0.75	0.79	0.86	0.91	0.94	0.98	1.00	
	0.30		0.51	0.61	0.69	0.74	0.81	0.86	0.90	0.95	0.98	
	0.20		0.46	0.56	0.64	0.69	0.77	0.83	0.86	0.92	0.95	
0.30	0.50	0.20	0.57	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	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.44	0.53	0.60	0.65	0.72	0.77	0.80	0.85	0.87	
Rating:99W 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	0.95	0.78	0.66	0.57	0.45	0.37	0.32	0.25	0.20	
	0.30		0.79	0.67	0.58	0.51	0.41	0.34	0.30	0.23	0.19	
	0.20		0.68	0.58	0.51	0.45	0.37	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		0.67	0.57	0.50	0.44	0.36	0.31	0.27	0.21	0.17	
0.30	0.50	0.20	0.89	0.72	0.61	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.76	0.63	0.54	0.47	0.38	0.32	0.27	0.21	0.17	
	0.20		0.67	0.56	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.56	0.46	0.40	0.35	0.28	0.23	0.20	0.15	0.12	
Rating:99W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

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(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	0.15	0.17	0.17	0.19	0.19	
	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		0.09	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	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.14	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:99W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												