

Report No.:

Test Time: 08.06.2020 17:26

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 150W 3000K 60гр. диод 3Т матовое стекло

Number of Lamps: 1

Lumens per Lamp: 18101.8 lm

Luminous Length (mm): 316 mm

Luminous Width (mm): 316 mm

Luminous Height (mm): 132 mm

Voltage: 221.0 V

Current: 0.698 A

Power: 151.97 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 18101.8 lm

Measurement Flux: 18101.8 lm

Efficiency: 100.00%

Downward Ratio: 99.53%

Upward Ratio: 0.47%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 120.0, 122.6, 121.6, 121.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 64.6, 65.3, 65.3, 65.2

Luminaire Efficacy Rating (LER): 119.16

Central Intensity: 13079.52 cd

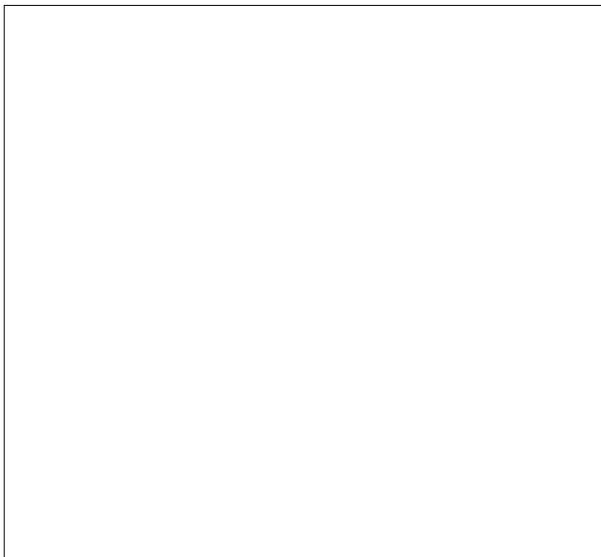
Max. Intensity: 13082.21 cd

Pos of Max. Intensity: H45 V0

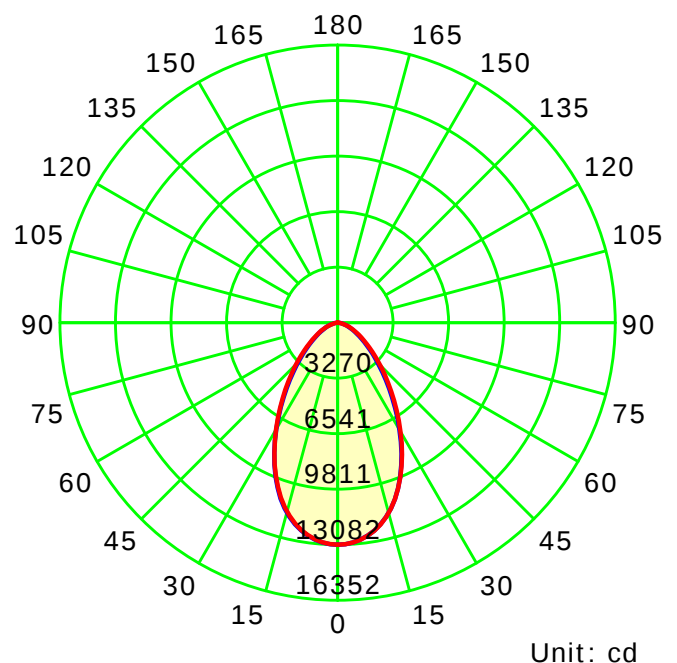
S/MH(C0/C180): 0.94

S/MH(C90/C270): 0.94

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

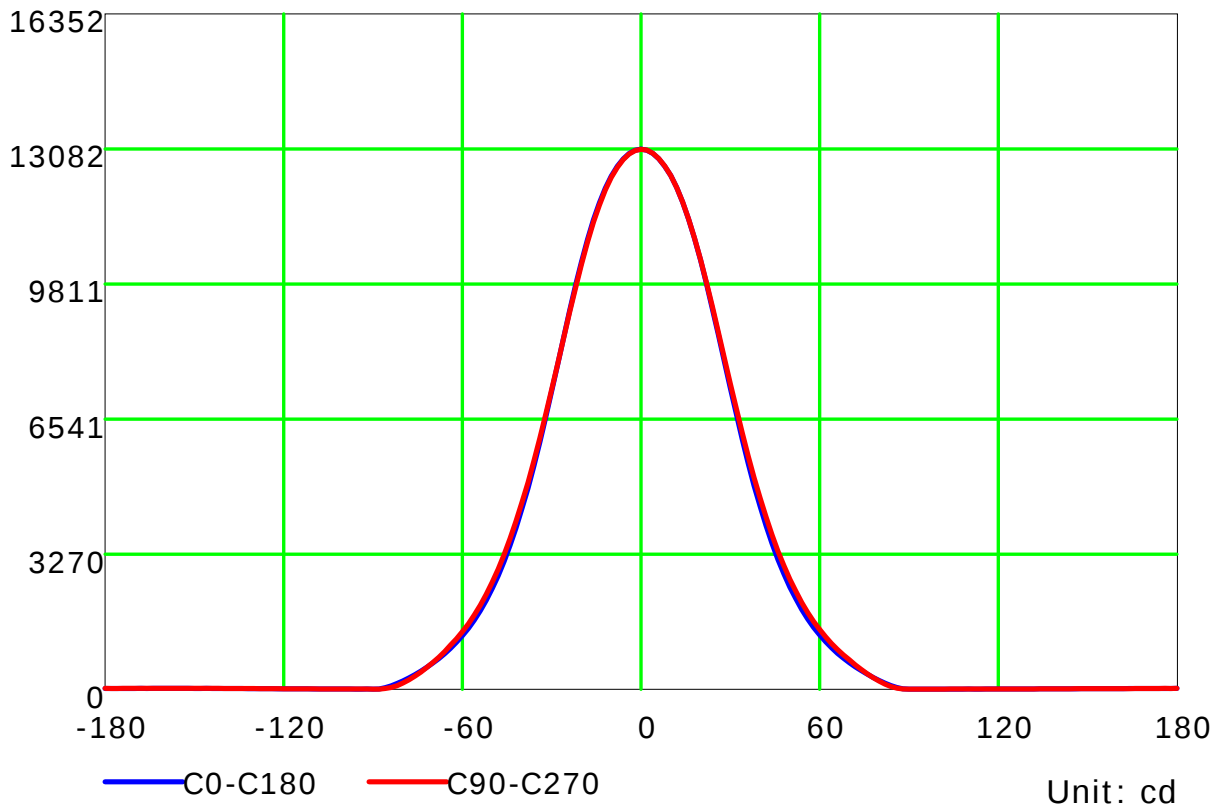
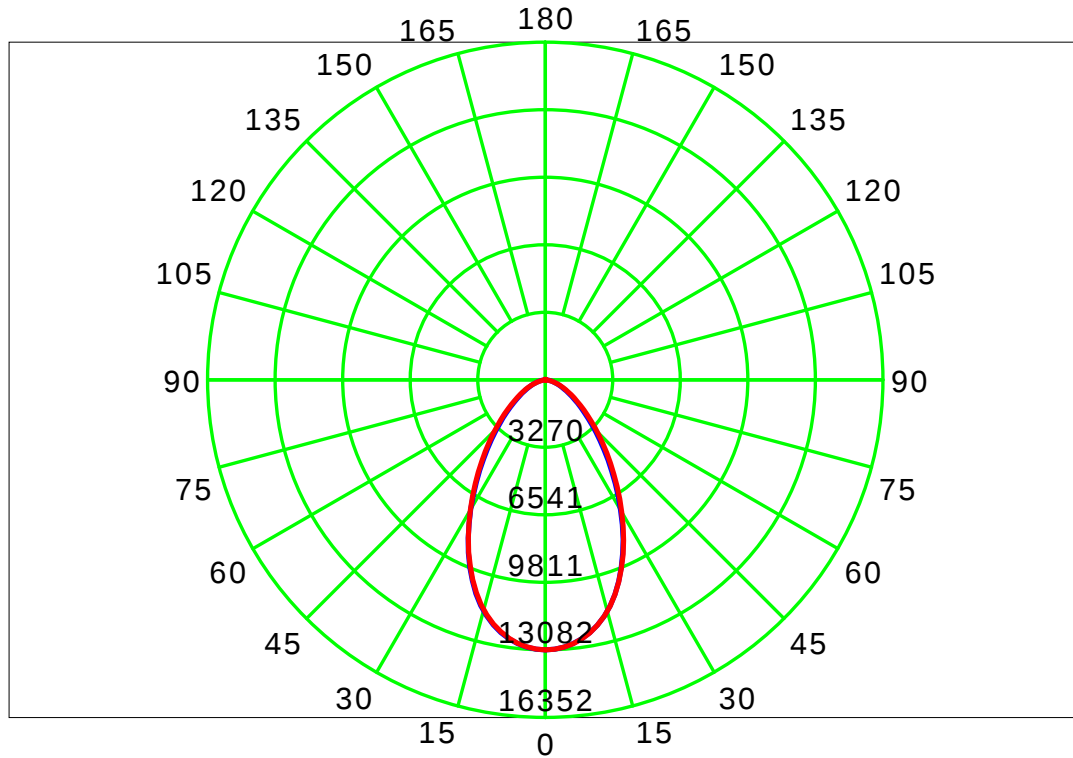
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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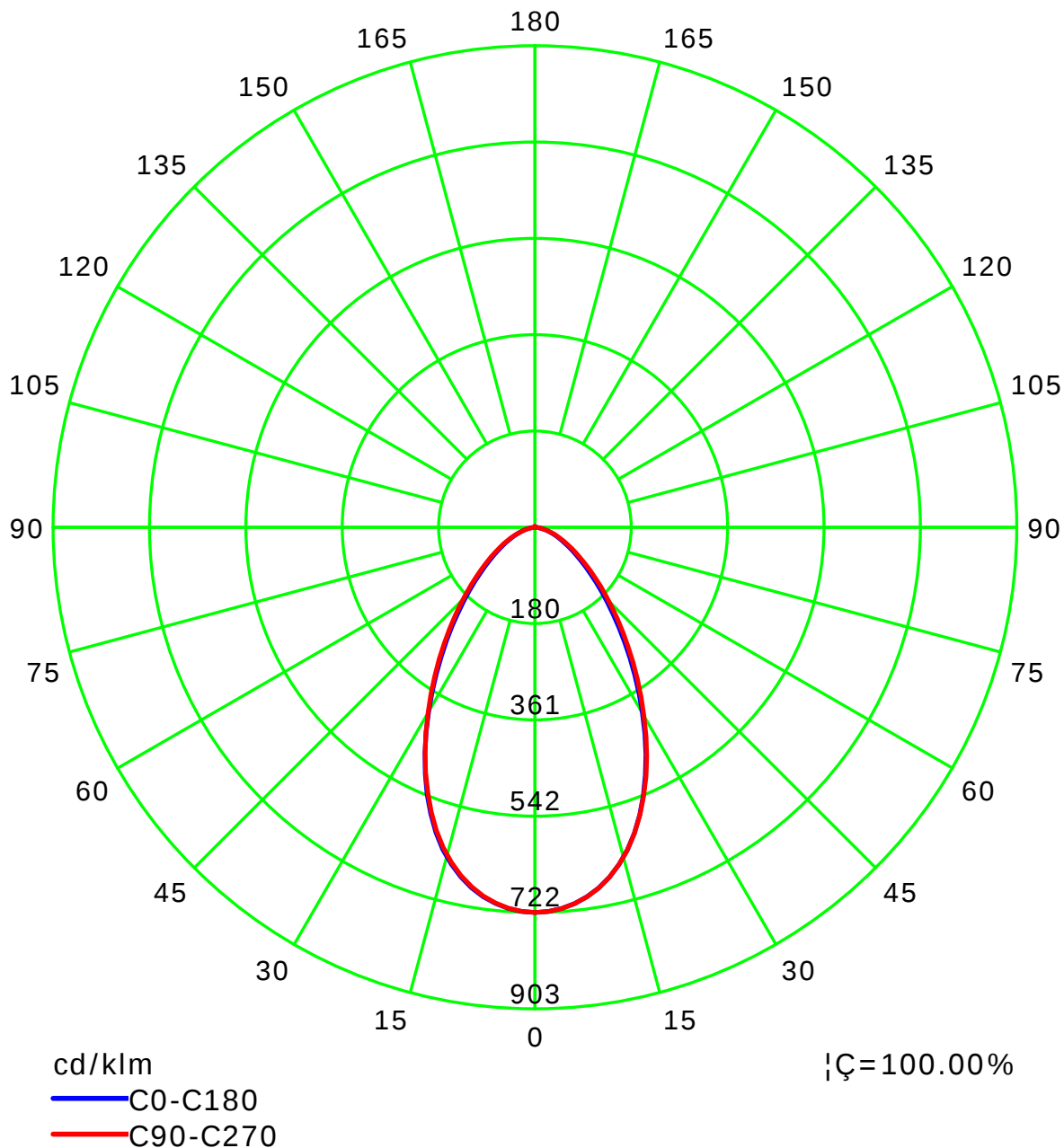
Test Device: LSG-1800B

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

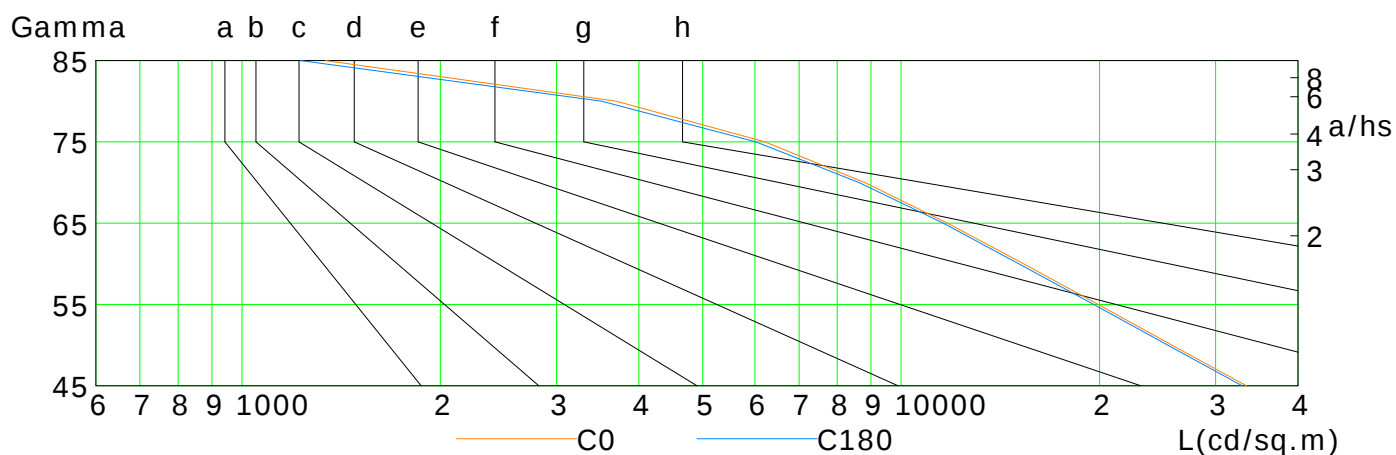
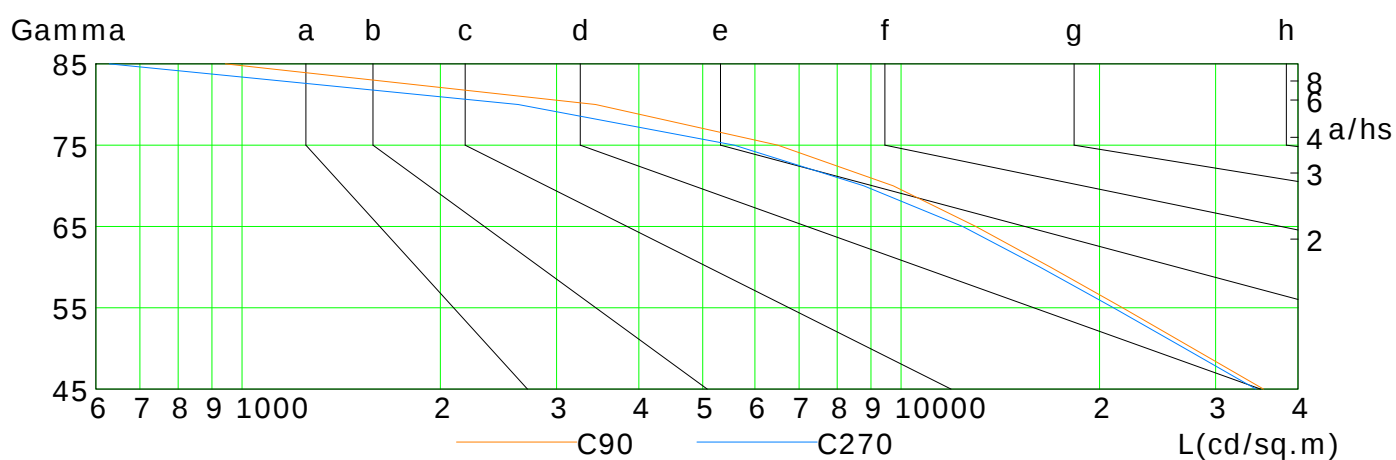
Humidity:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	33415	25756	19907	15340	11757	8805	6216	3697	1338
C90	35449	27729	21671	16848	12979	9726	6499	3440	944
C180	32925	25376	19599	15091	11589	8630	6021	3514	1226
C270	34533	26949	20991	16243	12400	8776	5584	2624	629

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

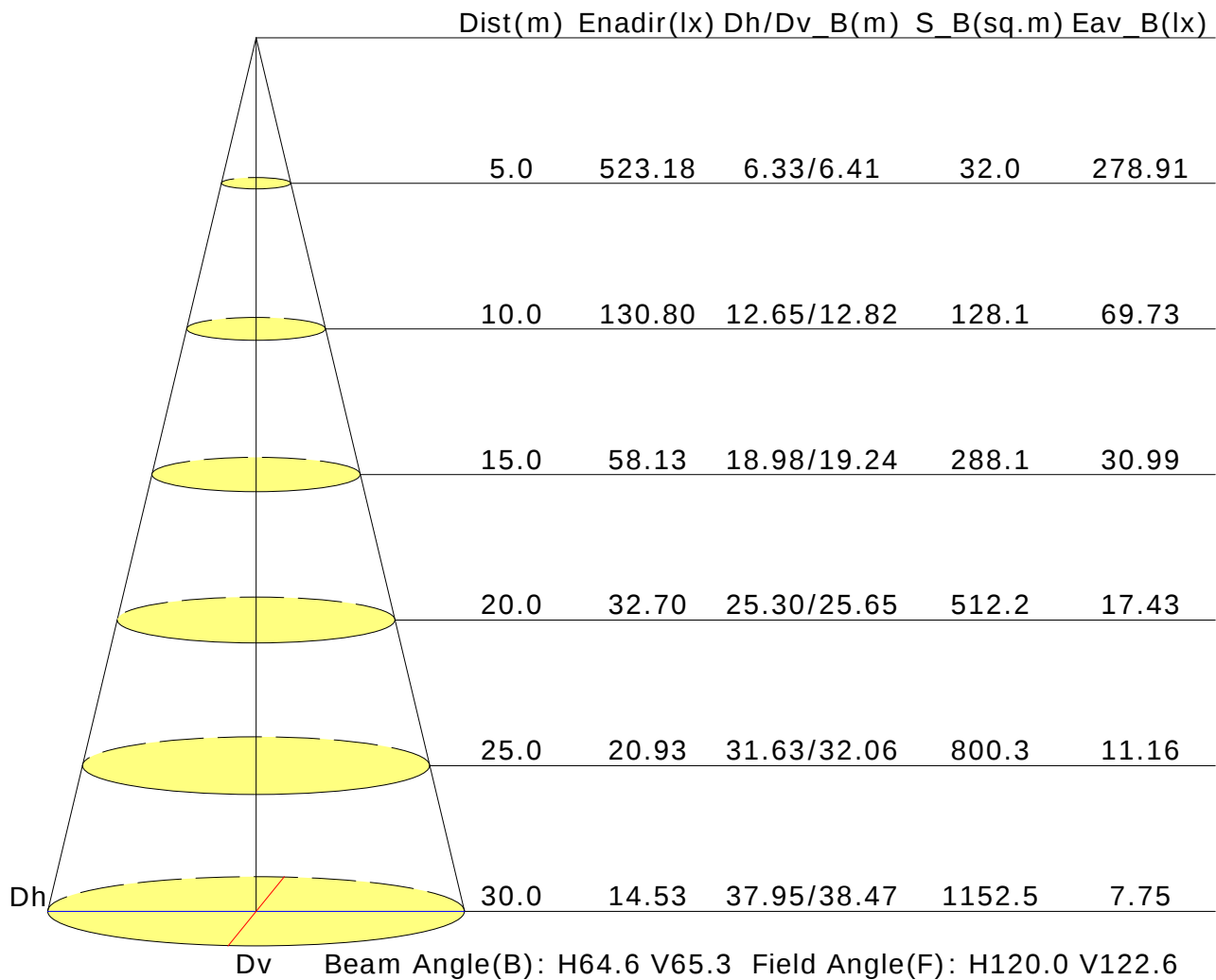
Test Device: LSG-1800B

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	21.7	22.8	22.0	23.1	23.3	22.0	23.1	22.3	23.3	23.5
3H	22.2	23.2	22.5	23.4	23.7	22.4	23.5	22.8	23.7	24.0
4H	22.3	23.2	22.6	23.5	23.8	22.6	23.5	22.9	23.8	24.1
6H	22.3	23.2	22.7	23.5	23.8	22.6	23.4	22.9	23.8	24.1
8H	22.3	23.2	22.7	23.5	23.8	22.5	23.4	22.9	23.7	24.0
12H	22.3	23.1	22.7	23.4	23.8	22.5	23.3	22.9	23.6	24.0
X=4H Y=2H	21.9	22.9	22.3	23.2	23.4	22.1	23.1	22.5	23.4	23.7
3H	22.5	23.3	22.9	23.6	24.0	22.7	23.5	23.1	23.9	24.2
4H	22.7	23.4	23.1	23.8	24.1	22.9	23.6	23.3	24.0	24.4
6H	22.8	23.4	23.2	23.8	24.2	22.9	23.6	23.4	24.0	24.4
8H	22.8	23.3	23.2	23.7	24.2	22.9	23.5	23.4	23.9	24.3
12H	22.7	23.3	23.2	23.7	24.1	22.9	23.4	23.4	23.8	24.3
X=8H Y=4H	22.7	23.3	23.1	23.7	24.1	22.9	23.5	23.3	23.9	24.3
6H	22.8	23.3	23.3	23.7	24.2	23.0	23.4	23.5	23.9	24.4
8H	22.8	23.2	23.3	23.7	24.2	23.0	23.4	23.5	23.8	24.3
12H	22.8	23.2	23.3	23.7	24.2	23.0	23.3	23.5	23.8	24.3
X=12H Y=4H	22.7	23.2	23.1	23.6	24.1	22.9	23.4	23.3	23.8	24.3
6H	22.8	23.2	23.3	23.7	24.2	23.0	23.4	23.4	23.8	24.3
8H	22.8	23.2	23.3	23.6	24.2	23.0	23.3	23.5	23.8	24.3
Variations with the observer position at spacings:										
S=1.0H	+0.6/-1.0					+0.5/-0.9				
S=1.5H	+1.6/-1.9					+1.5/-1.8				
S=2.0H	+2.8/-2.9					+2.7/-2.8				

Calculate in accordance with CIE Pub.117. The table is revised with 18102lm ($8\log(F/F_0) = 10.1$).

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 = 1.00									
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	0.70	0.79	0.85	0.89	0.95	0.99	1.02	1.05	1.07	
	0.30		0.64	0.73	0.79	0.84	0.91	0.95	0.98	1.02	1.05	
	0.20		0.59	0.69	0.75	0.80	0.87	0.91	0.95	0.99	1.02	
0.50	0.50	0.20	0.69	0.77	0.83	0.87	0.92	0.96	0.98	1.01	1.03	
	0.30		0.63	0.72	0.78	0.82	0.88	0.92	0.95	0.99	1.01	
	0.20		0.59	0.68	0.74	0.79	0.85	0.89	0.92	0.97	0.99	
0.30	0.50	0.20	0.67	0.76	0.81	0.84	0.89	0.93	0.95	0.98	0.99	
	0.30		0.62	0.71	0.77	0.81	0.86	0.90	0.92	0.96	0.98	
	0.20		0.59	0.67	0.73	0.77	0.83	0.87	0.90	0.94	0.96	
0.00	0.00	0.00	0.57	0.65	0.71	0.75	0.80	0.84	0.86	0.89	0.91	
Rating:152W 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	0.79	0.64	0.54	0.47	0.37	0.30	0.26	0.20	0.16	
	0.30		0.66	0.55	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
	0.20		0.57	0.48	0.42	0.37	0.30	0.26	0.22	0.17	0.15	
0.50	0.50	0.20	0.76	0.61	0.51	0.44	0.35	0.32	0.24	0.18	0.15	
	0.30		0.64	0.53	0.45	0.40	0.32	0.26	0.23	0.17	0.14	
	0.20		0.56	0.47	0.41	0.36	0.29	0.24	0.21	0.17	0.14	
0.30	0.50	0.20	0.74	0.58	0.49	0.42	0.33	0.27	0.23	0.17	0.14	
	0.30		0.63	0.51	0.44	0.38	0.30	0.25	0.21	0.17	0.13	
	0.20		0.55	0.46	0.40	0.35	0.28	0.23	0.20	0.16	0.13	
0.00	0.00	0.00	0.43	0.35	0.29	0.25	0.20	0.16	0.14	0.11	0.09	
Rating:152W 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	0.16	0.17	0.18	0.19	0.20	0.20	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	0.08	0.09	0.10	0.13	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	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	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	0.18	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		0.06	0.07	0.09	0.10	0.12	0.13	0.15	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:152W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												