



OOO "FAROS"

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Report No.:

Test Time: 08.06.2020 18:58

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 150W 3000K 120гр. диод 3Т матовое стекло

Number of Lamps: 1

Luminous Length (mm): 316

Luminous Width (mm): 326

Luminous Height (mm): 132

Voltage: 221.6 V

Current: 0.698 A

Power: 152.44 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 18514.7 lm

Measurement Flux: 18514.7 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.1, 152.8, 154.7, 154.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.8, 101.6, 101.5, 101.5

Luminaire Efficacy Rating (LER): 121.51

Central Intensity: 7379.07 cd

Max. Intensity: 7380.69 cd

Pos of Max. Intensity: H67.5 V0

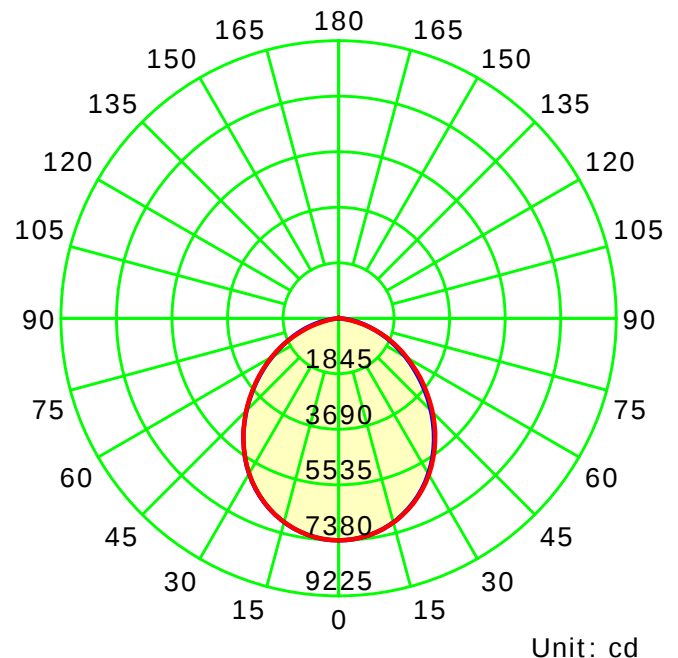
S/MH(C0/C180): 1.20

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

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

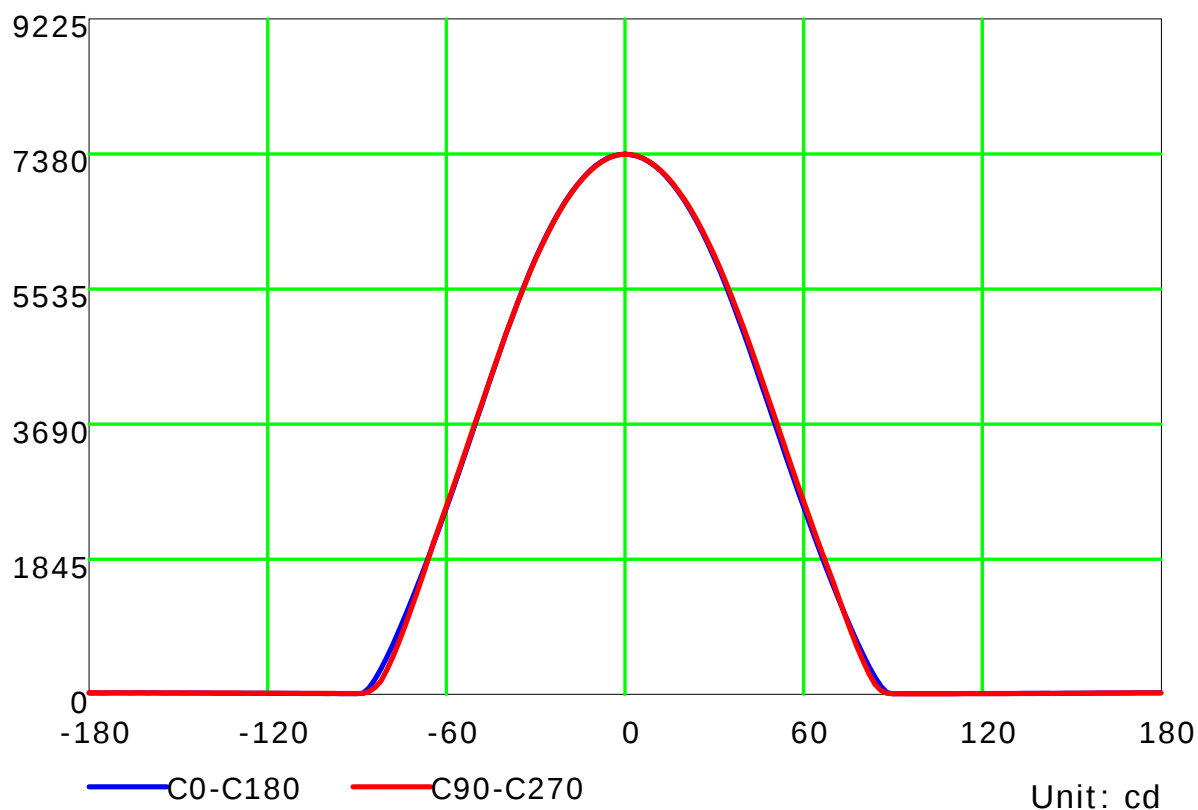
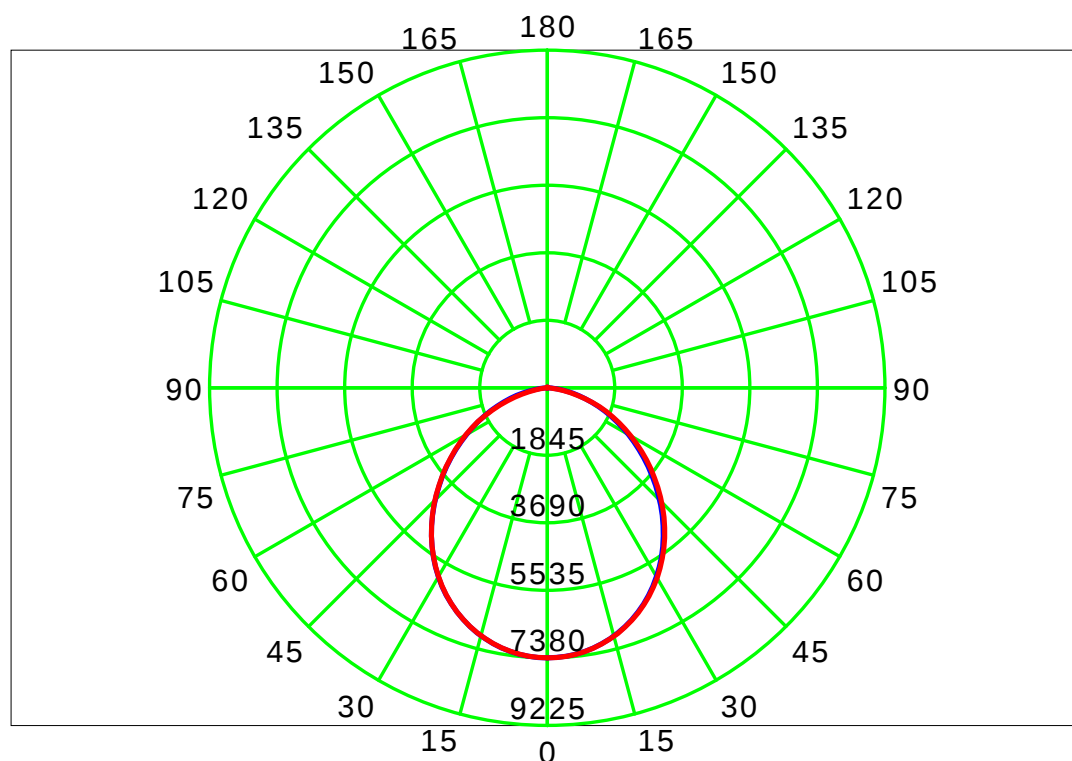
Test Device: LSG-1800B

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

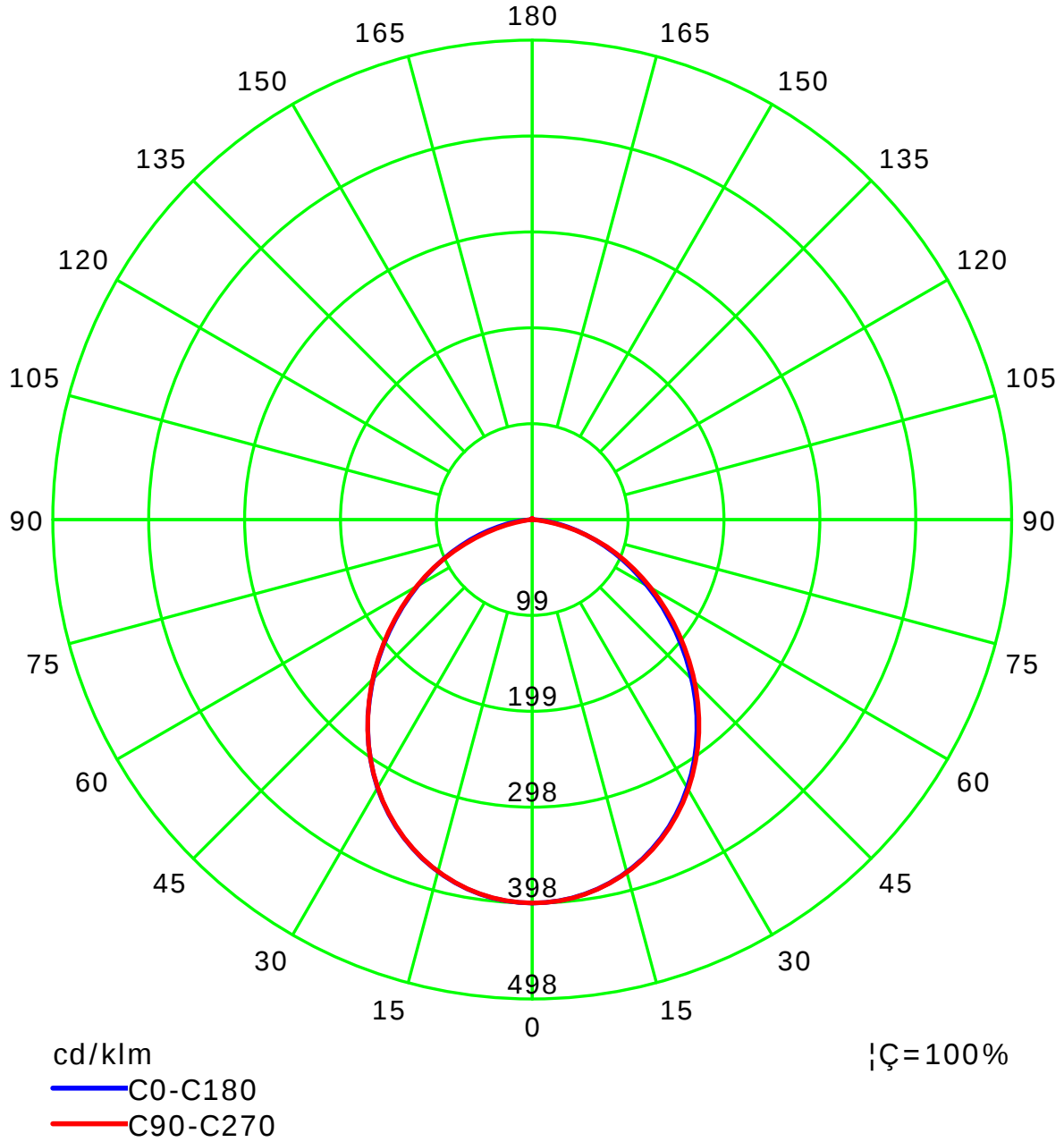
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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

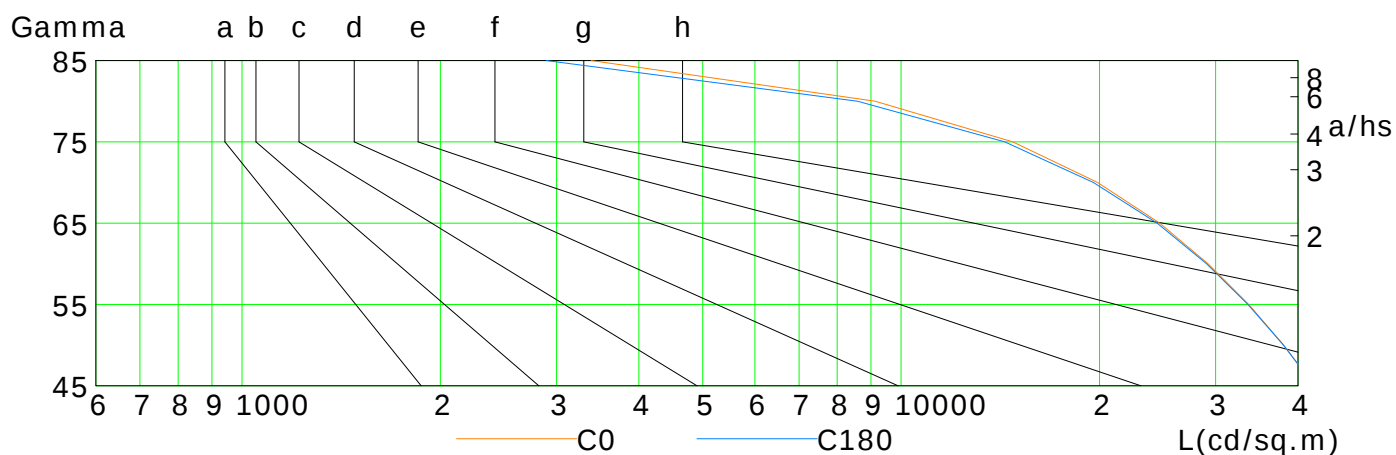
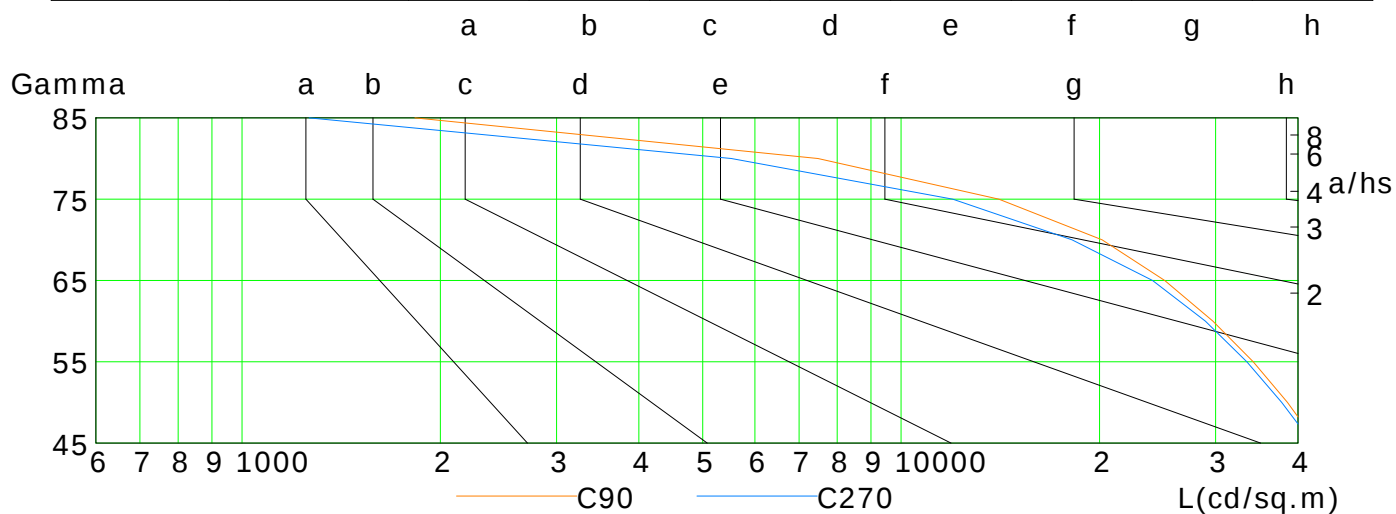
Distance: 12.677 m

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	42375	38050	33688	29228	24681	19871	14769	9130	3389
C90	42781	38553	34210	29716	25117	20179	14073	7479	1830
C180	42355	38036	33585	29073	24457	19583	14365	8585	2896
C270	42074	37789	33460	28949	24070	18171	11979	5527	1264

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

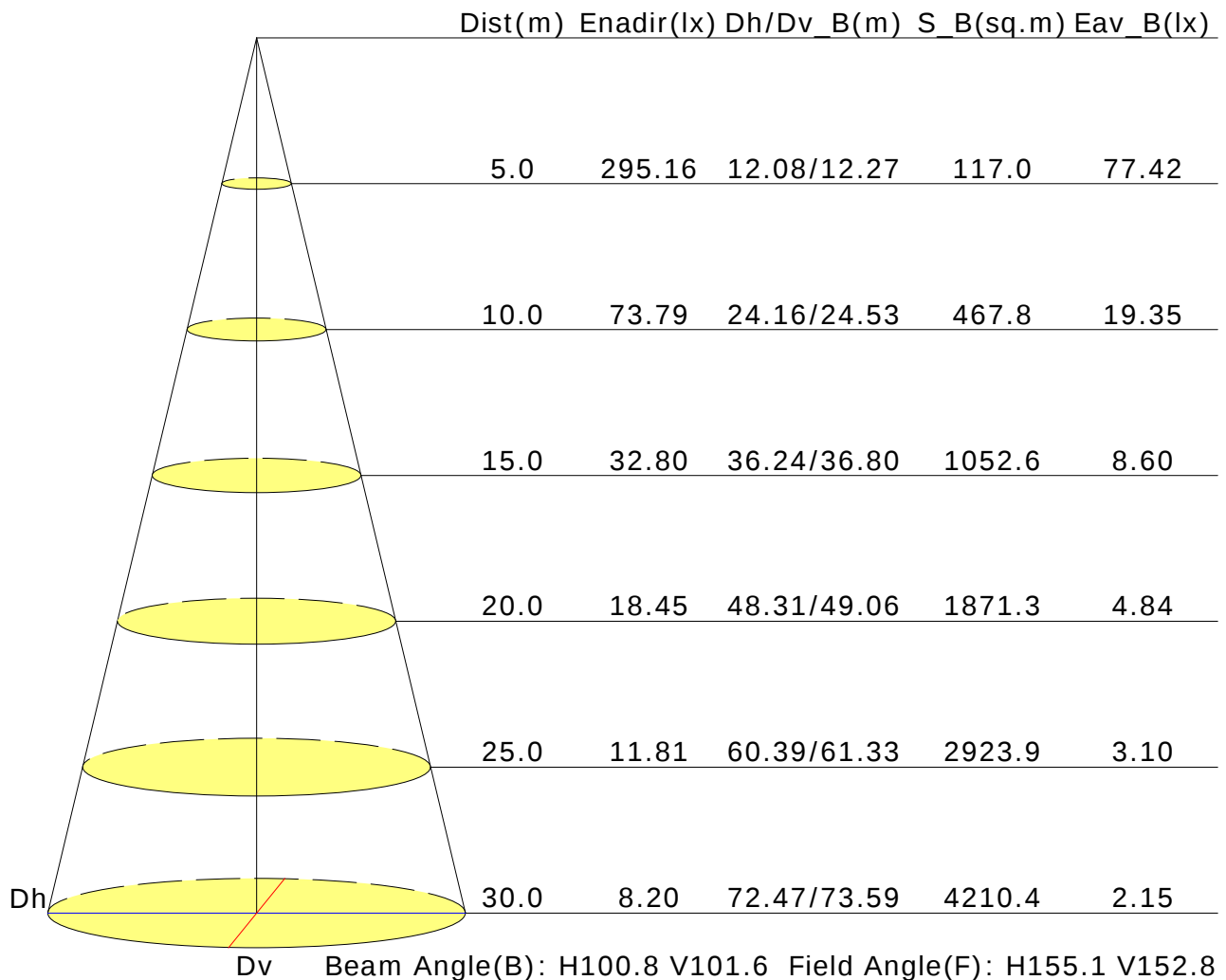
Test Device: LSG-1800B

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	24.4	25.7	24.7	25.9	26.2	24.4	25.8	24.7	26.0	26.2
3H	25.4	26.6	25.7	26.9	27.2	25.4	26.6	25.8	26.9	27.2
4H	25.7	26.9	26.1	27.2	27.5	25.7	26.8	26.1	27.1	27.4
6H	25.9	27.0	26.3	27.3	27.6	25.8	26.8	26.2	27.2	27.5
8H	25.9	26.9	26.3	27.3	27.6	25.8	26.8	26.1	27.1	27.5
12H	25.9	26.9	26.3	27.2	27.6	25.7	26.7	26.1	27.1	27.4
X=4H Y=2H	24.8	25.9	25.2	26.2	26.5	24.9	26.0	25.2	26.3	26.6
3H	26.0	27.0	26.4	27.3	27.6	26.0	27.0	26.4	27.3	27.7
4H	26.4	27.3	26.8	27.6	28.0	26.4	27.2	26.8	27.6	28.0
6H	26.6	27.4	27.1	27.8	28.2	26.5	27.3	26.9	27.7	28.1
8H	26.7	27.4	27.1	27.8	28.2	26.5	27.2	26.9	27.6	28.0
12H	26.7	27.3	27.1	27.7	28.2	26.5	27.1	26.9	27.5	28.0
X=8H Y=4H	26.5	27.2	27.0	27.6	28.1	26.5	27.2	26.9	27.6	28.0
6H	26.8	27.4	27.3	27.8	28.3	26.7	27.2	27.1	27.7	28.1
8H	26.9	27.4	27.4	27.8	28.3	26.7	27.2	27.2	27.6	28.1
12H	26.9	27.3	27.4	27.8	28.3	26.7	27.1	27.2	27.6	28.1
X=12H Y=4H	26.5	27.1	27.0	27.6	28.0	26.5	27.1	26.9	27.5	28.0
6H	26.8	27.3	27.3	27.8	28.3	26.7	27.2	27.2	27.6	28.1
8H	26.9	27.3	27.4	27.8	28.3	26.7	27.1	27.2	27.6	28.1
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/-1.4					+0.9/-1.4				

Calculate in accordance with CIE Pub.117. The table is revised with 18515lm ($8\log(F/F_0) = 10.1$).

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	0.60	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	0.97	
	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	0.56	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: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 = 1.25									
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	0.24	0.20	
	0.30		0.79	0.67	0.57	0.51	0.41	0.34	0.29	0.23	0.19	
	0.20		0.68	0.58	0.51	0.45	0.37	0.32	0.27	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	0.39	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	0.60	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		0.66	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	0.34	0.28	0.23	0.19	0.15	0.12	
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 = 1.25									
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	0.18	0.19	0.19	0.20	0.21	0.21	0.22	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	0.08	0.10	0.12	0.13	0.15	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		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	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	0.08	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:152W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												