

Report No.:

Test Time: 08.06.2020 21:11

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 200W 4000K 90гр. диод 3Т матовое стекло

Number of Lamps: 1

Luminous Length (mm): 364

Luminous Width (mm): 364

Luminous Height (mm): 138

Voltage: 220.6 V

Current: 0.904 A

Power: 197.72 W

Power Factor: 0.992

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 24529.0 lm

Measurement Flux: 24529 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 145.5, 144.4, 145.5, 145.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 90.5, 90.8, 91.1, 90.1

Luminaire Efficacy Rating (LER): 124.11

Central Intensity: 11201.46 cd

Max. Intensity: 11358.29 cd

Pos of Max. Intensity: H135 V10

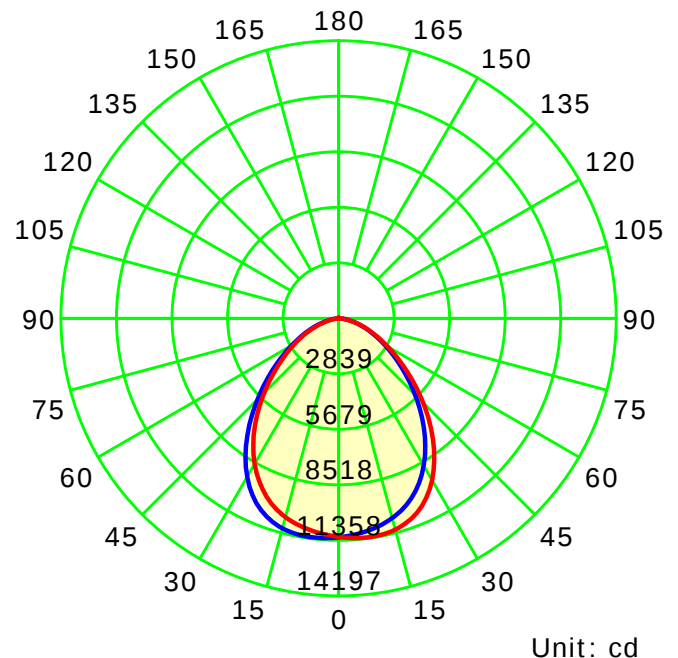
S/MH(C0/C180): 1.20

S/MH(C90/C270): 1.20

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

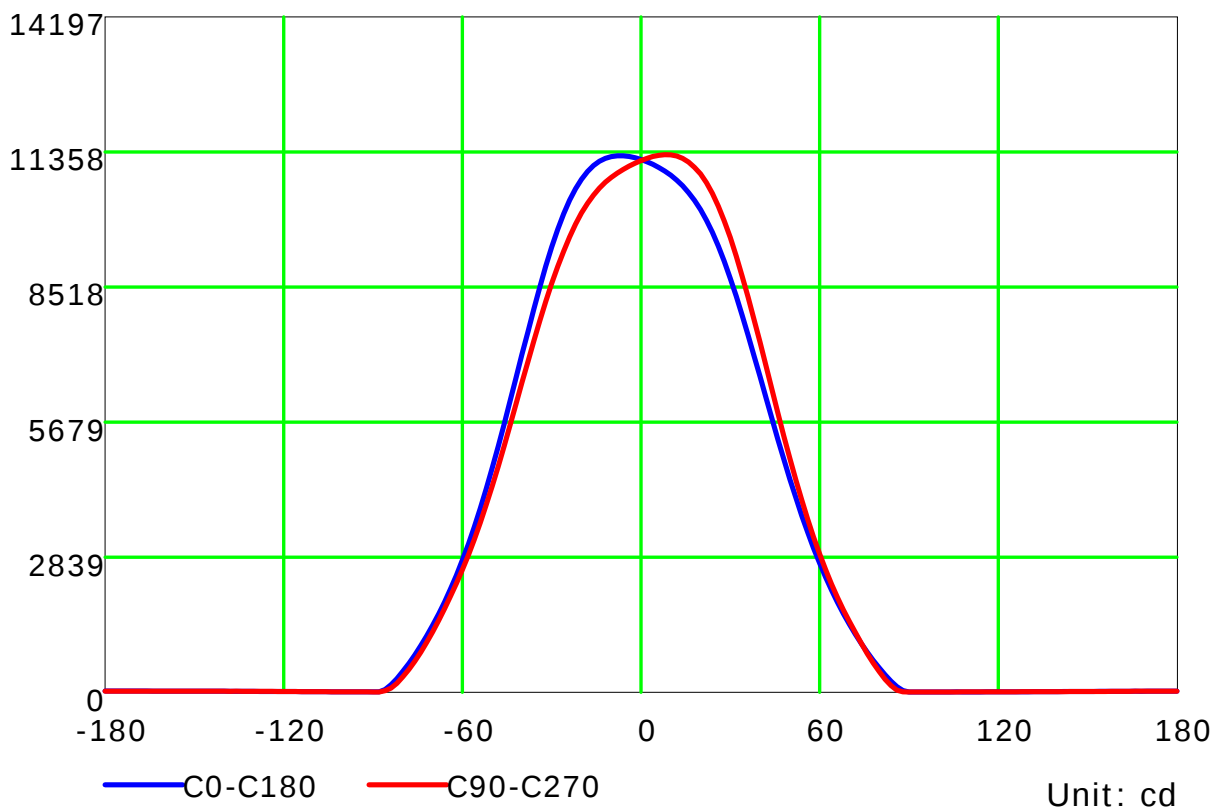
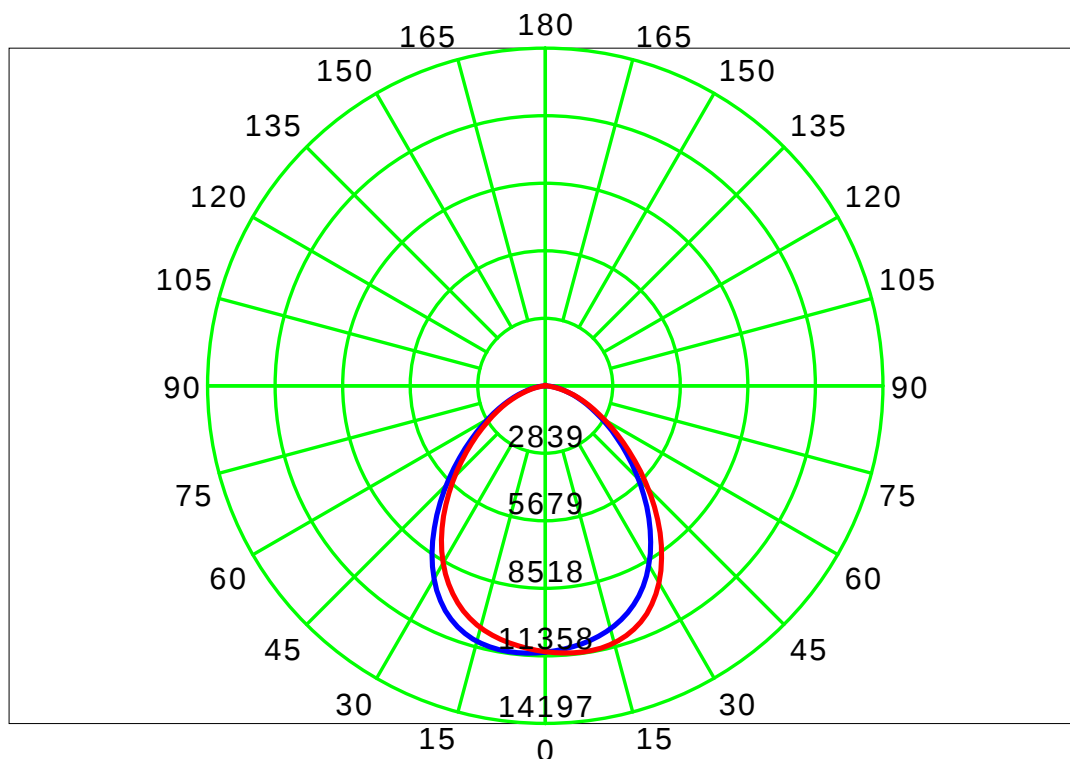
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



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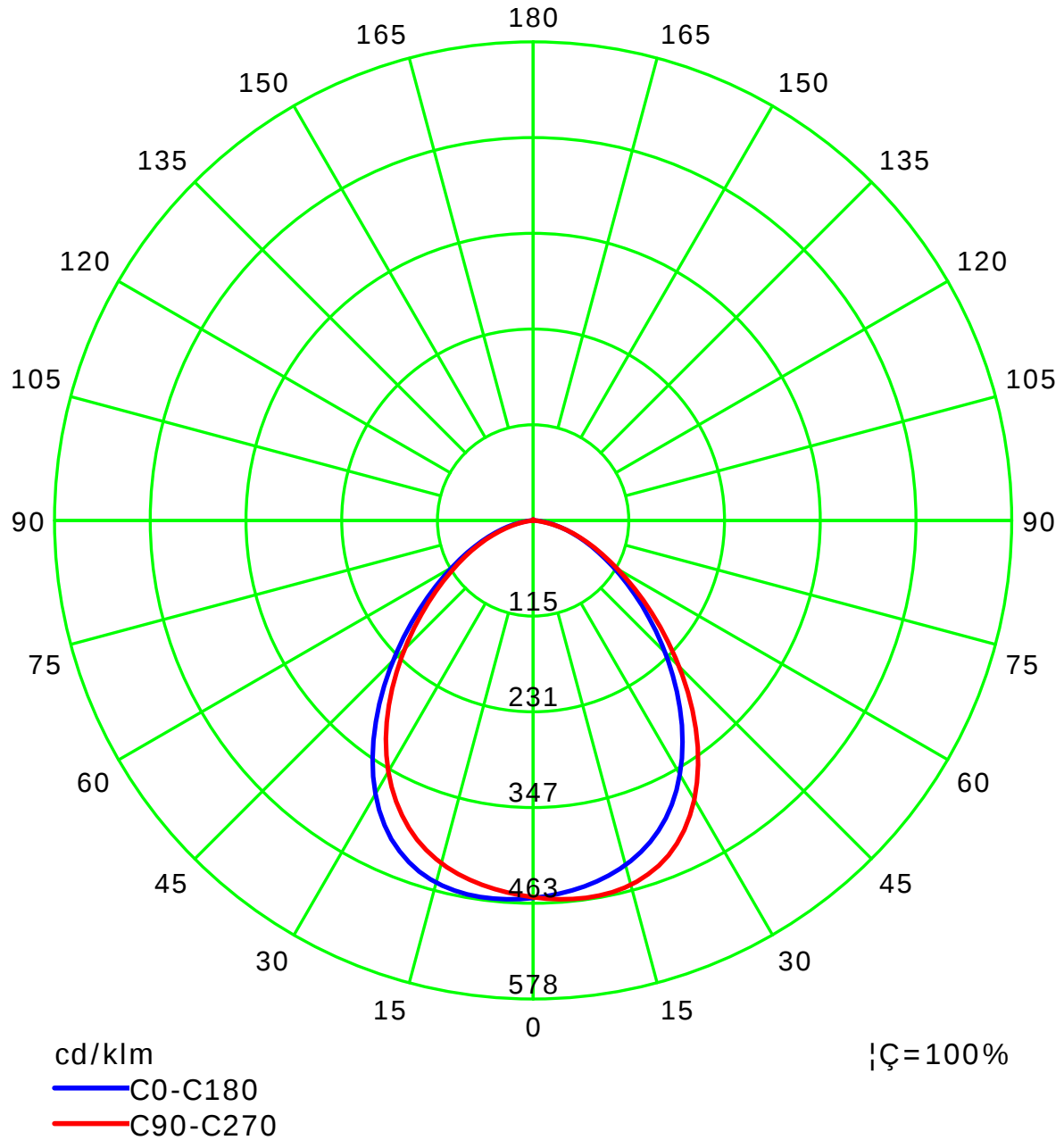
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

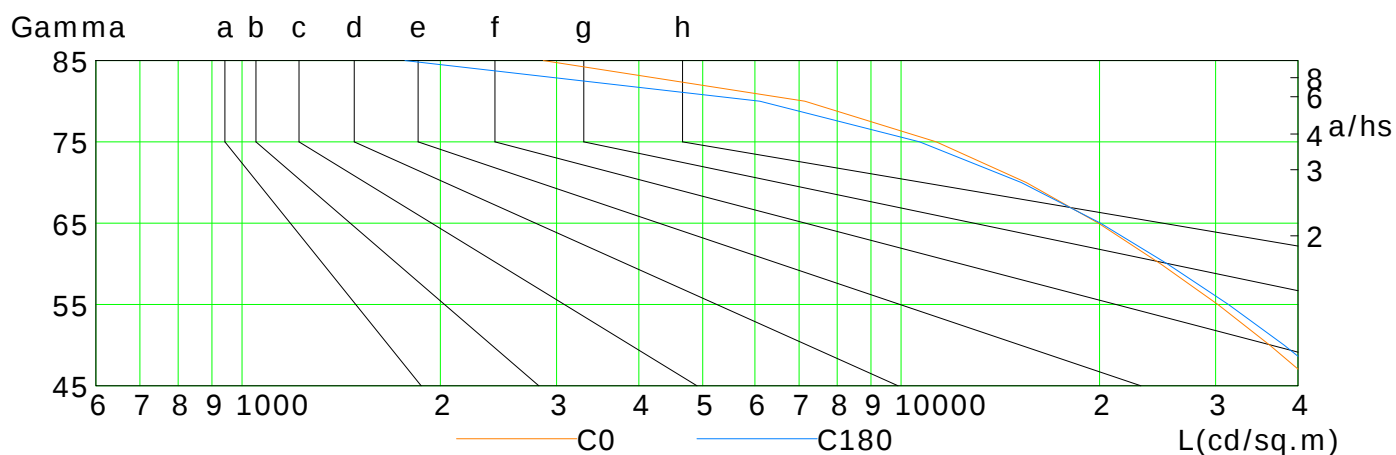
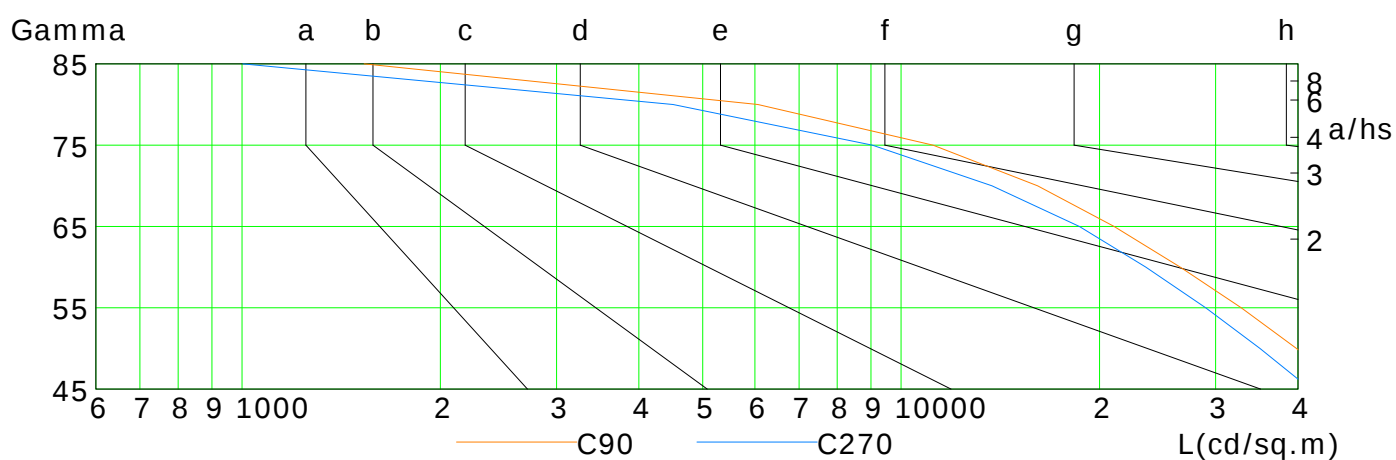
Luminous Intensity Distribution Curve(cd / klm)



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	42850	36242	30232	24754	19921	15477	11308	7142	2864
C90	47359	39780	32805	26512	21049	16104	11179	6062	1532
C180	45512	38112	31366	25336	20066	15213	10667	6104	1767
C270	41766	35032	28976	23505	18639	13737	9043	4508	1003

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

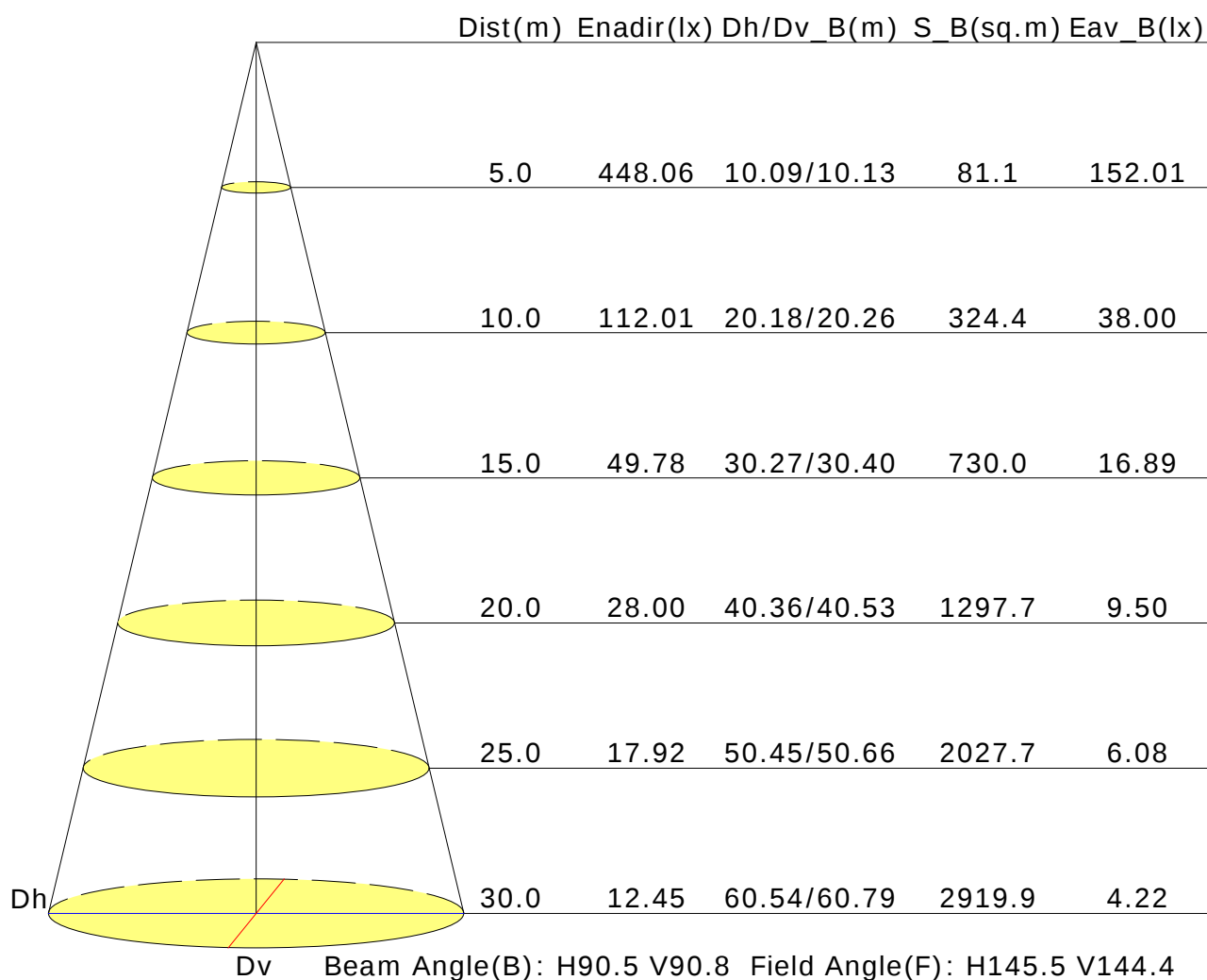
Test Device: LSG-1800B

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	23.7	24.9	24.0	25.1	25.4	23.8	25.1	24.1	25.3	25.5
3H	24.4	25.5	24.7	25.8	26.1	24.5	25.6	24.8	25.9	26.2
4H	24.6	25.7	25.0	26.0	26.3	24.7	25.8	25.0	26.0	26.3
6H	24.7	25.7	25.1	26.0	26.3	24.7	25.7	25.1	26.0	26.4
8H	24.7	25.7	25.1	26.0	26.3	24.7	25.7	25.1	26.0	26.3
12H	24.7	25.6	25.1	26.0	26.3	24.7	25.6	25.1	25.9	26.3
X=4H Y=2H	24.0	25.0	24.3	25.3	25.6	24.1	25.2	24.5	25.5	25.8
3H	24.8	25.8	25.2	26.1	26.4	24.9	25.9	25.3	26.2	26.5
4H	25.1	26.0	25.6	26.3	26.7	25.2	26.0	25.6	26.4	26.7
6H	25.3	26.0	25.7	26.4	26.8	25.3	26.0	25.7	26.4	26.8
8H	25.4	26.0	25.8	26.4	26.8	25.3	26.0	25.7	26.4	26.8
12H	25.3	25.9	25.8	26.4	26.8	25.3	25.9	25.7	26.3	26.7
X=8H Y=4H	25.2	25.9	25.7	26.3	26.7	25.3	25.9	25.7	26.3	26.7
6H	25.4	26.0	25.9	26.4	26.9	25.4	25.9	25.9	26.4	26.8
8H	25.5	26.0	26.0	26.4	26.9	25.4	25.9	25.9	26.3	26.8
12H	25.5	25.9	26.0	26.4	26.9	25.4	25.8	25.9	26.3	26.8
X=12H Y=4H	25.2	25.8	25.6	26.2	26.6	25.2	25.8	25.7	26.2	26.7
6H	25.4	25.9	25.9	26.3	26.8	25.4	25.9	25.9	26.3	26.8
8H	25.5	25.9	26.0	26.4	26.9	25.4	25.8	25.9	26.3	26.8
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.5					+0.4/-0.5				
S=1.5H	+0.6/-1.1					+0.6/-1.3				
S=2.0H	+1.5/-2.0					+1.5/-2.0				

Calculate in accordance with CIE Pub.117. The table is revised with 24529lm ($8\log(F/F_0) = 11.1$).

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 = 1.25									
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	0.64	0.74	0.81	0.86	0.92	0.97	1.00	1.03	1.06	
	0.30		0.58	0.68	0.75	0.80	0.87	0.92	0.95	1.00	1.03	
	0.20		0.53	0.63	0.70	0.75	0.83	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.63	0.72	0.79	0.83	0.89	0.93	0.96	0.99	1.02	
	0.30		0.57	0.66	0.73	0.78	0.85	0.89	0.92	0.97	0.99	
	0.20		0.52	0.62	0.69	0.74	0.81	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.62	0.70	0.76	0.81	0.86	0.90	0.92	0.96	0.98	
	0.30		0.56	0.65	0.72	0.76	0.83	0.87	0.90	0.93	0.96	
	0.20		0.52	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
0.00	0.00	0.00	0.50	0.59	0.65	0.70	0.76	0.80	0.83	0.87	0.89	
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 = 1.25									
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	0.88	0.71	0.60	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.73	0.61	0.52	0.46	0.37	0.31	0.27	0.21	0.17	
	0.20		0.63	0.53	0.46	0.41	0.34	0.29	0.25	0.20	0.16	
0.50	0.50	0.20	0.84	0.68	0.57	0.49	0.39	0.35	0.27	0.21	0.17	
	0.30		0.71	0.59	0.51	0.44	0.35	0.30	0.25	0.20	0.16	
	0.20		0.62	0.52	0.45	0.40	0.33	0.27	0.24	0.19	0.15	
0.30	0.50	0.20	0.82	0.65	0.55	0.47	0.37	0.30	0.26	0.20	0.16	
	0.30		0.70	0.58	0.49	0.43	0.34	0.28	0.24	0.19	0.15	
	0.20		0.61	0.51	0.44	0.39	0.32	0.26	0.23	0.18	0.15	
0.00	0.00	0.00	0.50	0.41	0.34	0.30	0.24	0.20	0.17	0.13	0.10	
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 = 1.25									
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	0.18	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		0.09	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	0.13	0.14	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	0.08	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												