

Report No.:

Test Time: 18.12.2019 13:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 180 4x40LED 0,3A 38W 3000K закаленное стекло IP65 N

Number of Lamps: 1

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 76

Voltage: 221.4 V

Current: 0.179 A

Power: 38.52 W

Power Factor: 0.972

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 4793.9 lm

Measurement Flux: 4793.9 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.2, 148.6, 149.2, 149.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.5, 115.1, 115.4, 115.4

Luminaire Efficacy Rating (LER): 124.50

Central Intensity: 1699.74 cd

Max. Intensity: 1700.44 cd

Pos of Max. Intensity: H22.5 V0

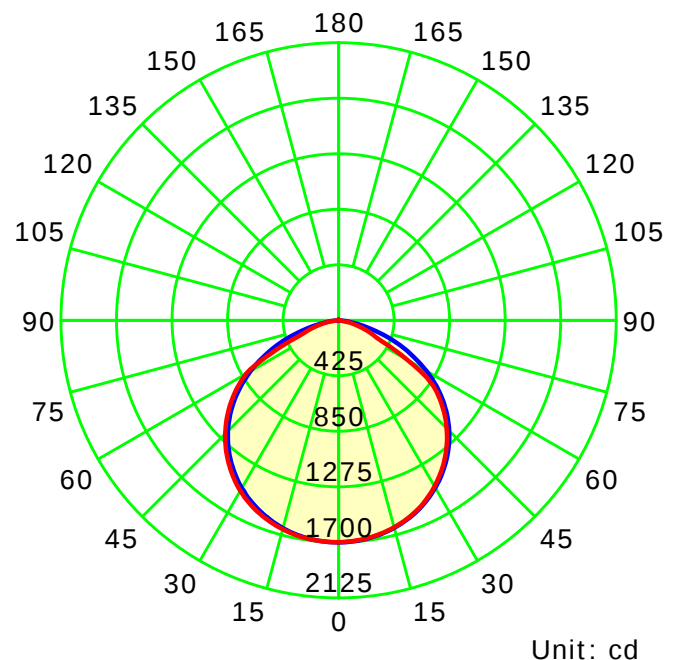
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.30

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:1.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

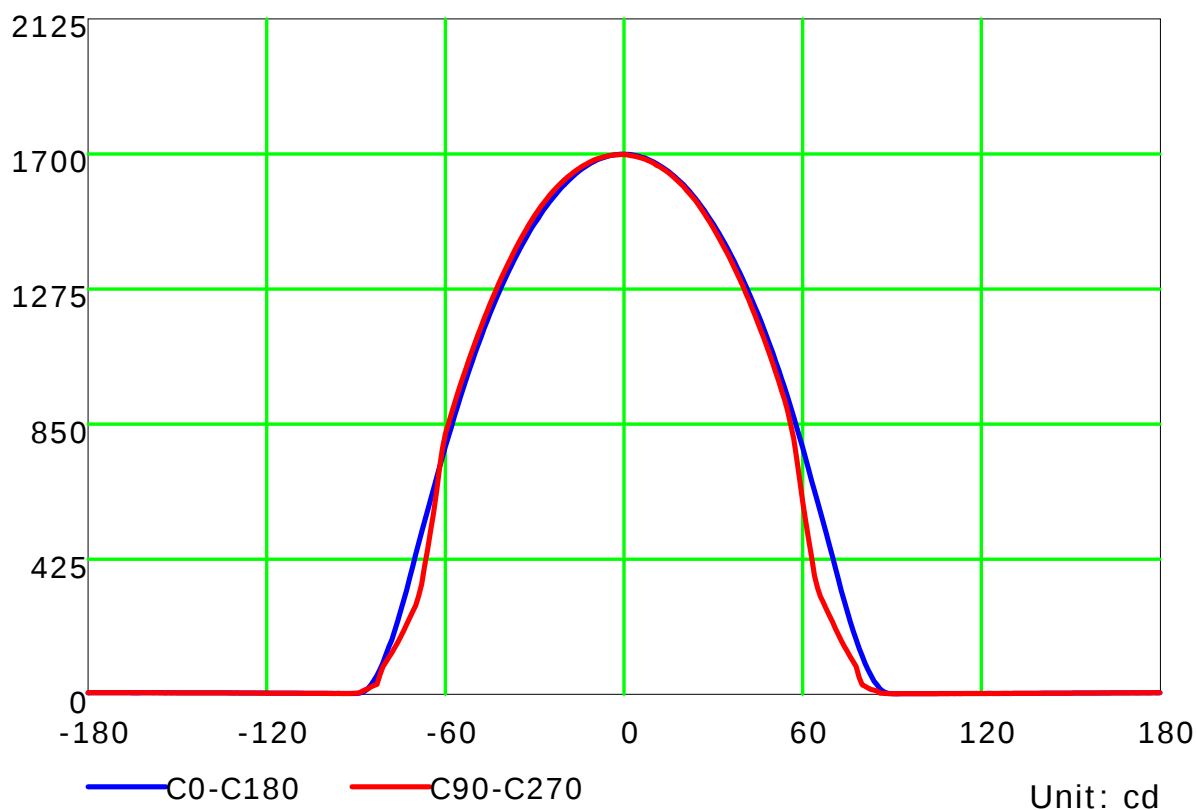
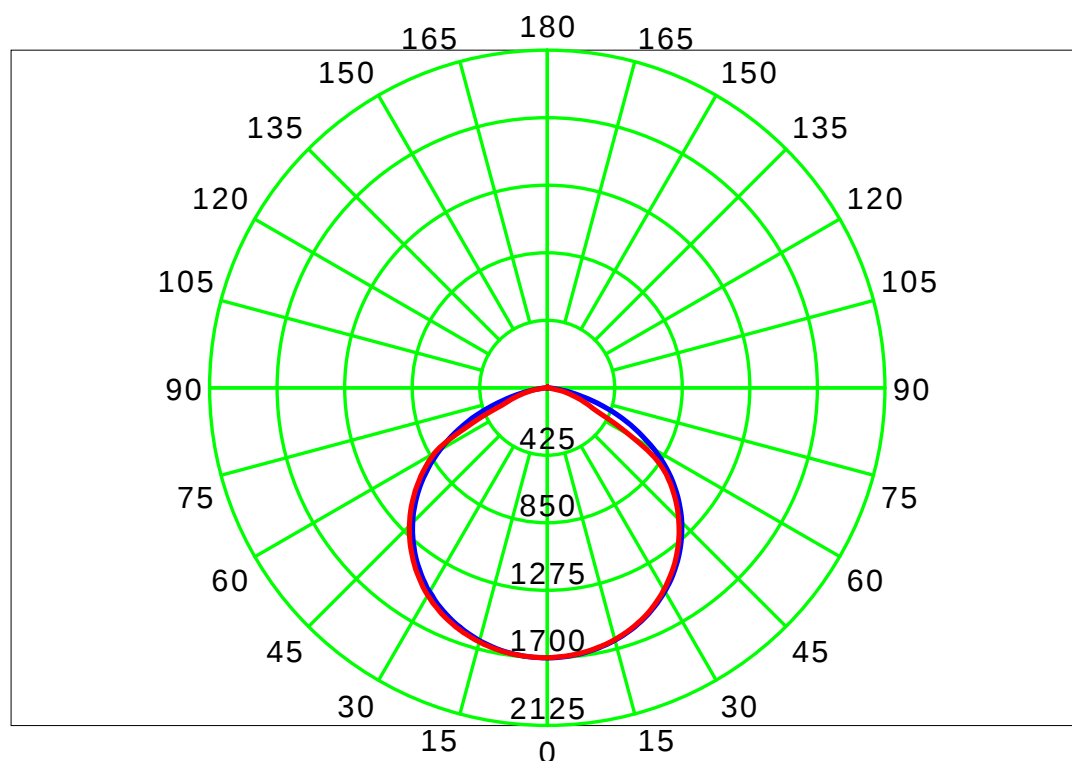
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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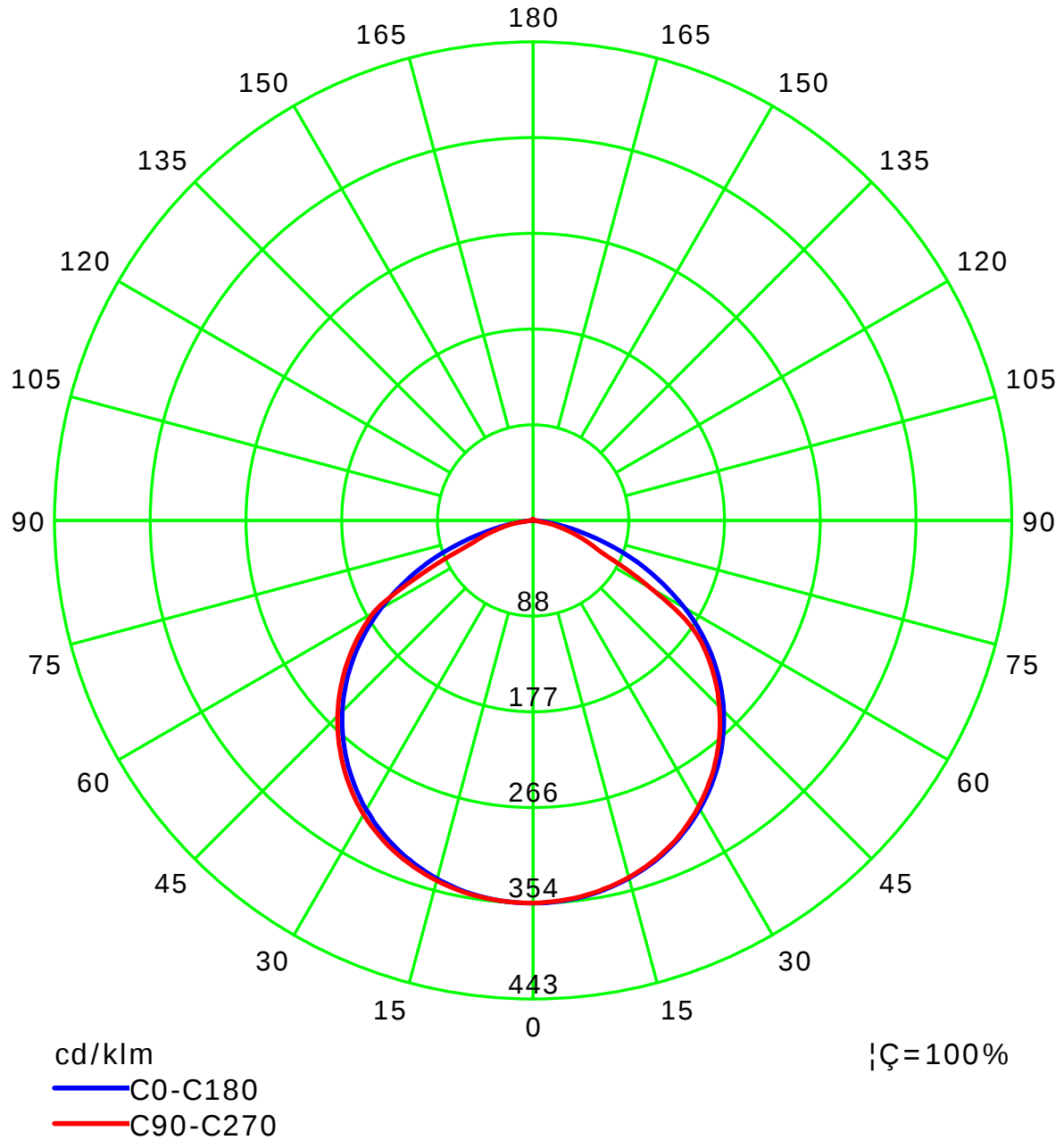
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

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Test Device: LSG-1800B

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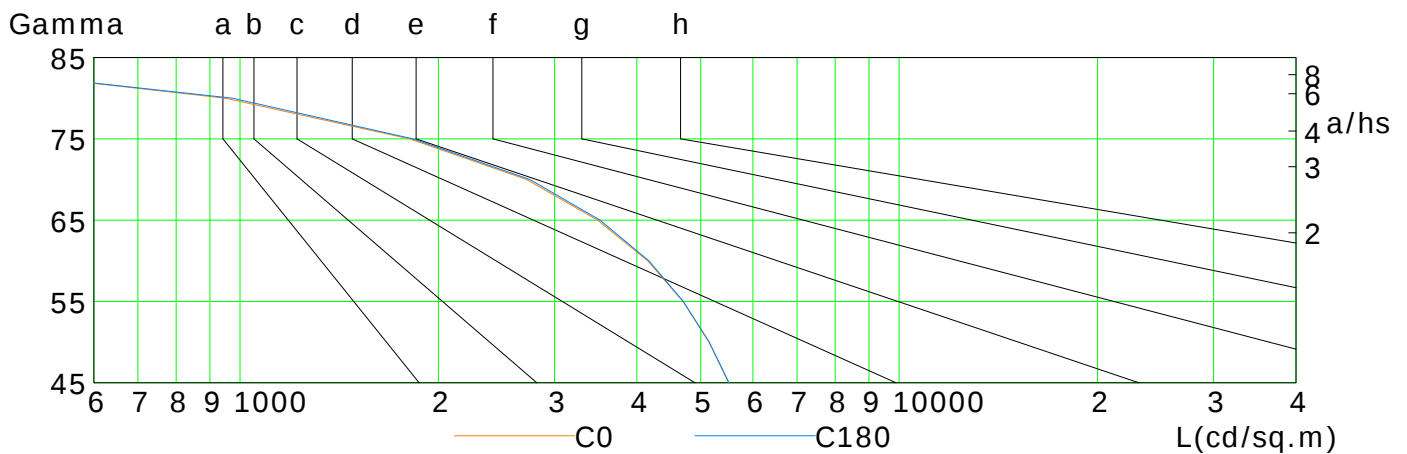
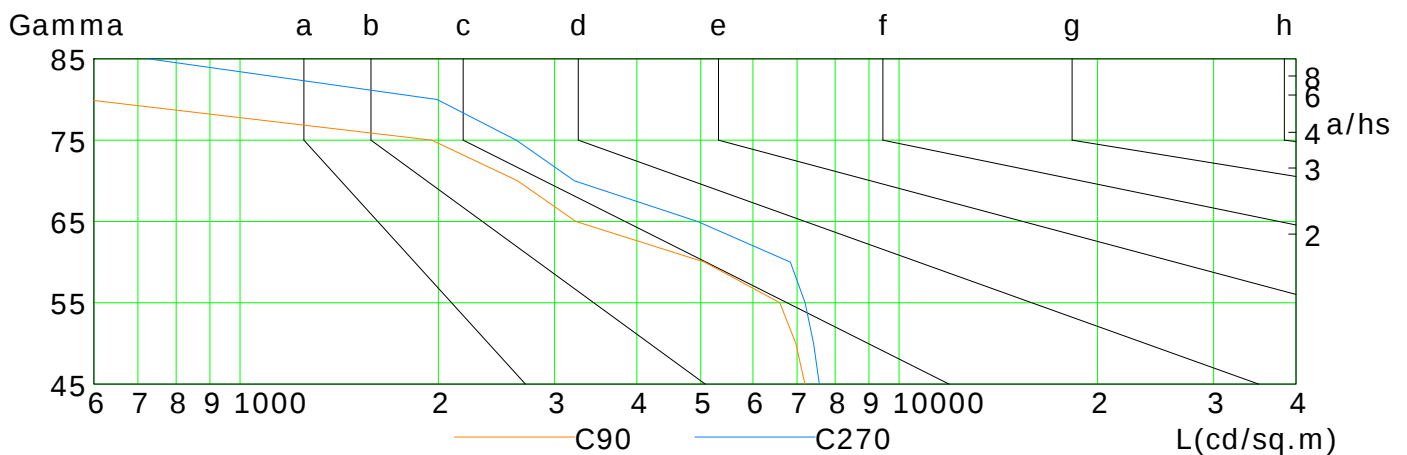
Humidity:

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	5510	5146	4702	4156	3487	2723	1809	950	271
C90	7194	6971	6590	5067	3232	2637	1954	585	317
C180	5520	5152	4705	4172	3518	2754	1829	975	268
C270	7566	7417	7200	6837	4945	3216	2626	1991	727

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

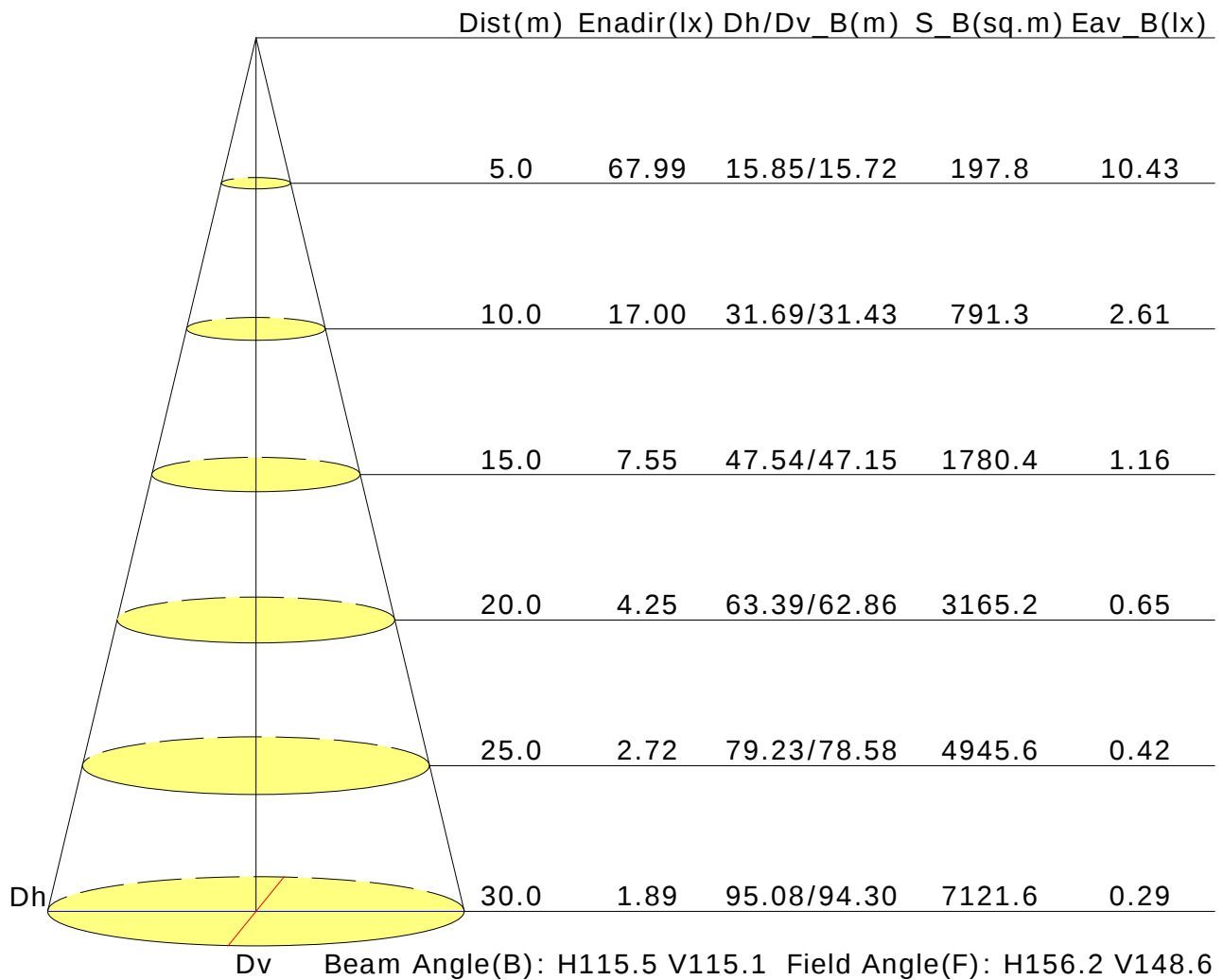
Test Device: LSG-1800B

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	18.2	19.5	18.5	19.8	20.0	18.7	20.1	19.1	20.3	20.6
3H	19.2	20.4	19.5	20.7	21.0	19.3	20.5	19.7	20.8	21.1
4H	19.5	20.6	19.8	20.9	21.2	19.5	20.6	19.8	20.9	21.2
6H	19.6	20.6	19.9	20.9	21.3	19.5	20.6	19.9	20.9	21.2
8H	19.5	20.6	19.9	20.9	21.2	19.5	20.5	19.9	20.9	21.2
12H	19.5	20.5	19.9	20.8	21.2	19.5	20.5	19.9	20.8	21.1
X=4H Y=2H	18.7	19.9	19.1	20.2	20.5	19.2	20.3	19.5	20.6	20.9
3H	19.9	20.8	20.2	21.2	21.5	19.8	20.8	20.2	21.1	21.5
4H	20.2	21.1	20.6	21.4	21.8	20.0	20.9	20.4	21.3	21.6
6H	20.3	21.1	20.7	21.5	21.9	20.1	20.9	20.5	21.3	21.7
8H	20.3	21.0	20.8	21.4	21.9	20.1	20.8	20.6	21.2	21.7
12H	20.3	20.9	20.7	21.3	21.8	20.1	20.7	20.6	21.2	21.6
X=8H Y=4H	20.2	20.9	20.7	21.3	21.8	20.1	20.8	20.5	21.2	21.6
6H	20.4	20.9	20.8	21.4	21.8	20.2	20.7	20.7	21.2	21.7
8H	20.4	20.9	20.9	21.3	21.8	20.2	20.7	20.7	21.2	21.6
12H	20.4	20.8	20.9	21.3	21.8	20.2	20.6	20.7	21.1	21.6
X=12H Y=4H	20.2	20.8	20.6	21.2	21.7	20.0	20.7	20.5	21.1	21.5
6H	20.3	20.8	20.8	21.3	21.8	20.2	20.7	20.7	21.1	21.6
8H	20.4	20.8	20.9	21.3	21.8	20.2	20.6	20.7	21.1	21.6
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.1/-0.2				
S=1.5H	+0.4/-0.7					+0.5/-0.8				
S=2.0H	+0.9/-1.6					+1.5/-2.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4794lm ($8\log(F/F_0) = 5.4$).

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

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	0.58	0.69	0.76	0.82	0.89	0.94	0.97	1.02	1.04	
	0.30		0.50	0.61	0.69	0.75	0.83	0.89	0.93	0.98	1.01	
	0.20		0.44	0.55	0.64	0.70	0.78	0.84	0.89	0.94	0.98	
0.50	0.50	0.20	0.56	0.66	0.74	0.79	0.86	0.90	0.93	0.98	1.00	
	0.30		0.49	0.60	0.67	0.73	0.81	0.86	0.90	0.94	0.97	
	0.20		0.44	0.55	0.63	0.68	0.77	0.82	0.86	0.92	0.95	
0.30	0.50	0.20	0.55	0.65	0.71	0.76	0.83	0.87	0.90	0.94	0.96	
	0.30		0.48	0.59	0.66	0.71	0.79	0.84	0.87	0.91	0.94	
	0.20		0.44	0.54	0.62	0.67	0.75	0.80	0.84	0.89	0.92	
0.00	0.00	0.00	0.41	0.52	0.59	0.64	0.72	0.77	0.80	0.85	0.87	
Rating:39W 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	0.98	0.80	0.67	0.58	0.46	0.38	0.32	0.25	0.20	
	0.30		0.82	0.68	0.59	0.51	0.41	0.35	0.30	0.23	0.19	
	0.20		0.70	0.60	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.50	0.50	0.20	0.94	0.77	0.64	0.56	0.44	0.39	0.30	0.23	0.19	
	0.30		0.80	0.66	0.57	0.50	0.40	0.33	0.28	0.22	0.18	
	0.20		0.69	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.17	
0.30	0.50	0.20	0.92	0.74	0.62	0.53	0.42	0.34	0.29	0.22	0.18	
	0.30		0.78	0.65	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.20		0.69	0.58	0.50	0.44	0.36	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.58	0.48	0.41	0.35	0.28	0.23	0.20	0.15	0.12	
Rating:39W 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	0.17	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	0.19	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	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.17	0.18	0.19	0.19	0.19	0.20	0.20	
	0.30		0.10	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:39W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												