



OOO "FAROS"

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Report No.:

Test Time: 18.12.2019 13:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 180 4x40LED 0,35A 44W 4000K закаленное стекло IP65 N

Number of Lamps: 1

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 76

Voltage: 221.5 V

Current: 0.207 A

Power: 44.68 W

Power Factor: 0.973

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 5880.7 lm

Measurement Flux: 5880.7 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): 131.67

Central Intensity: 2085.03 cd

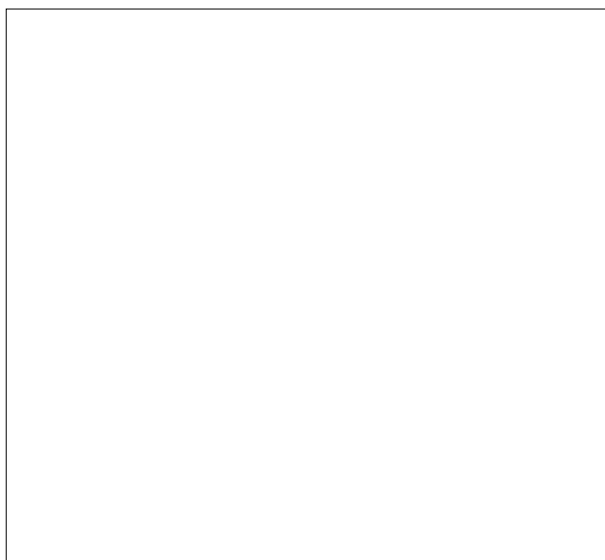
Max. Intensity: 2085.91 cd

Pos of Max. Intensity: H22.5 V0

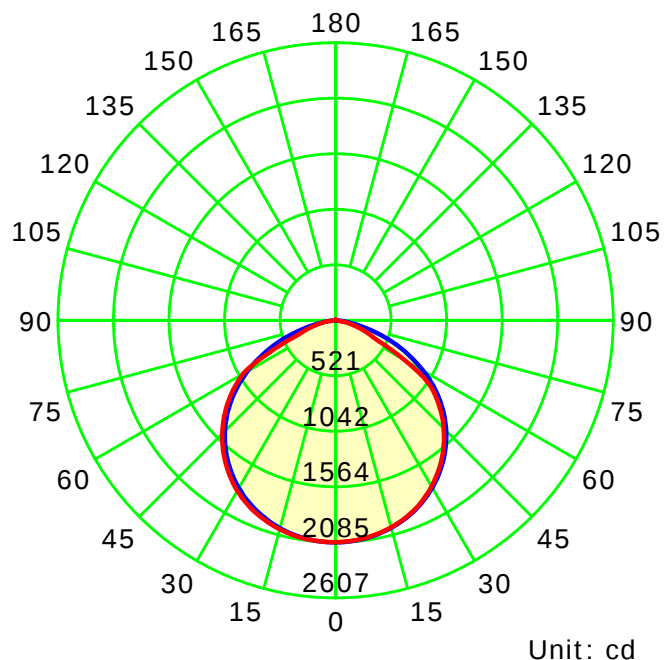
S/MH(C0/C180): 1.29

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

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

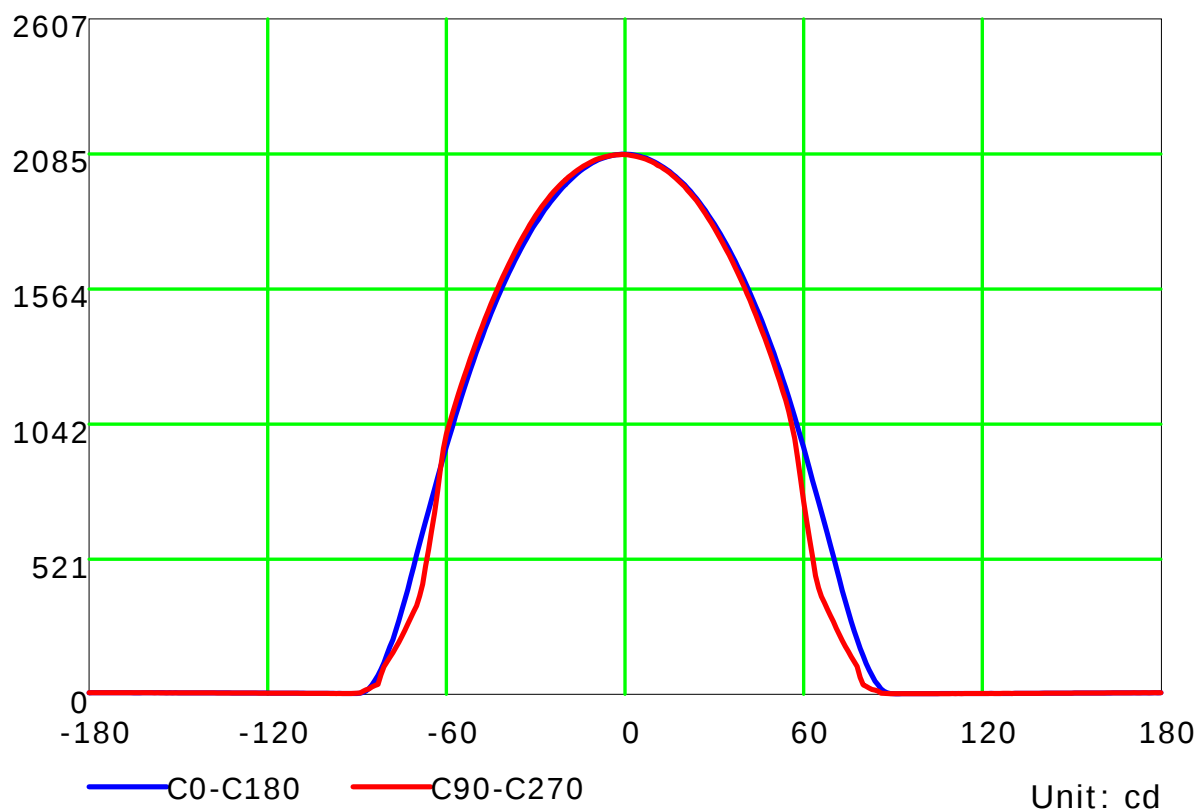
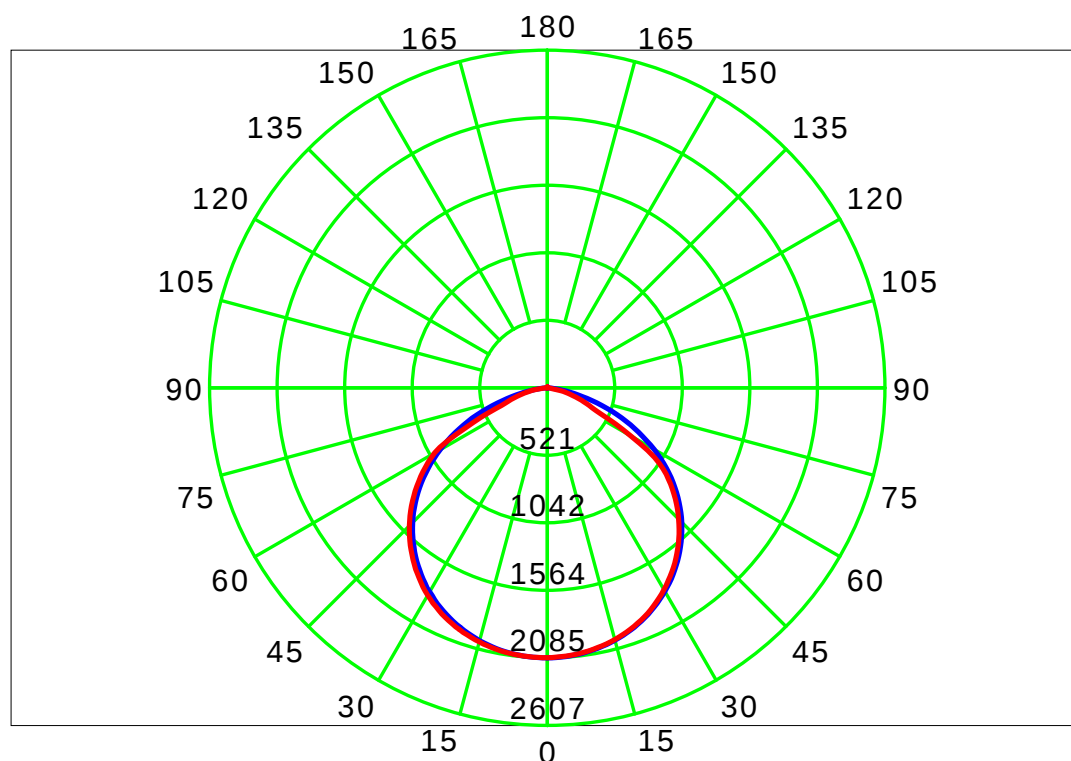
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

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: 1.0

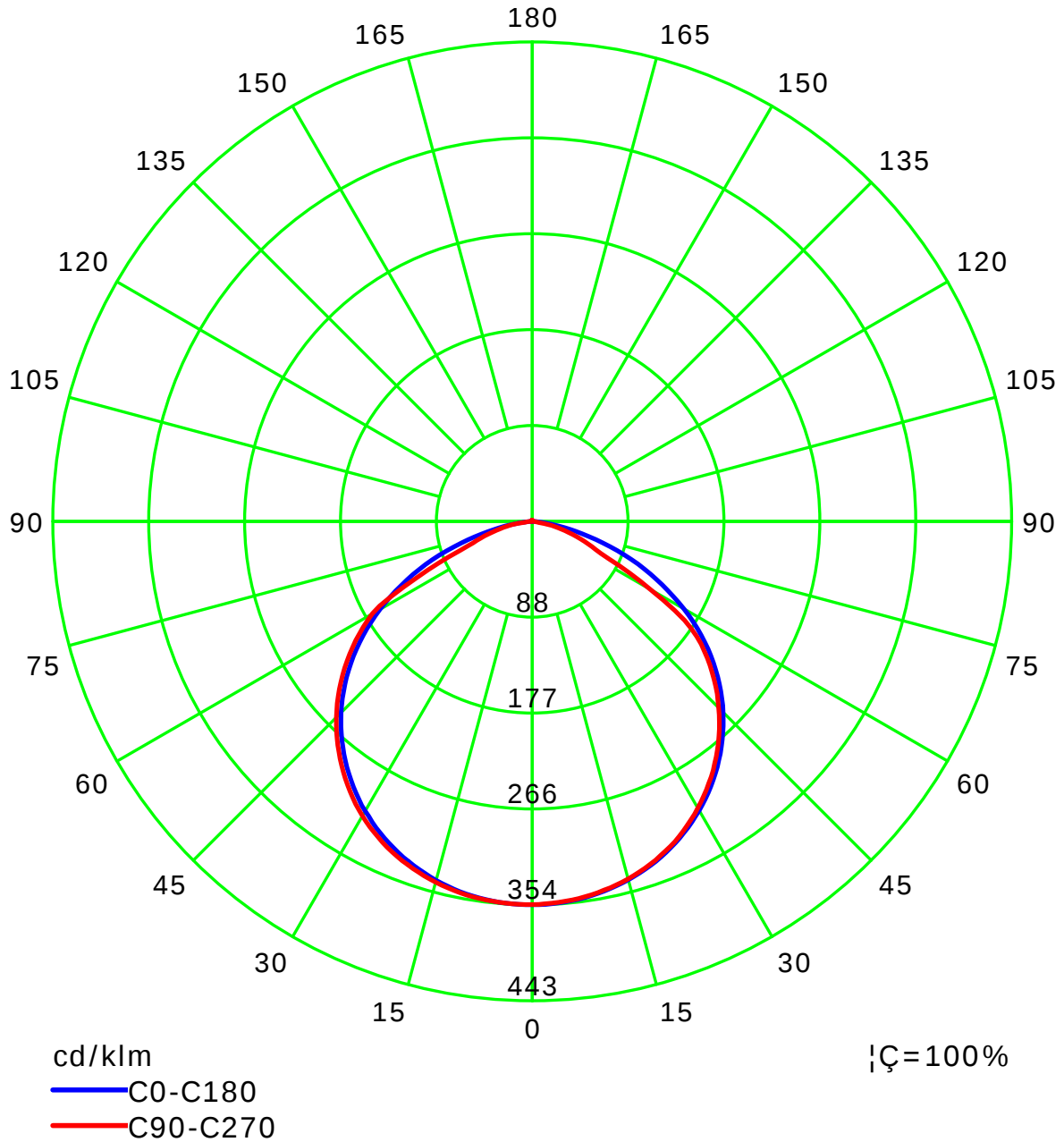
Test Device: LSG-1800B

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 (°):0.0-180.0:1.0

Test Device: LSG-1800B

Distance: 12.677 m

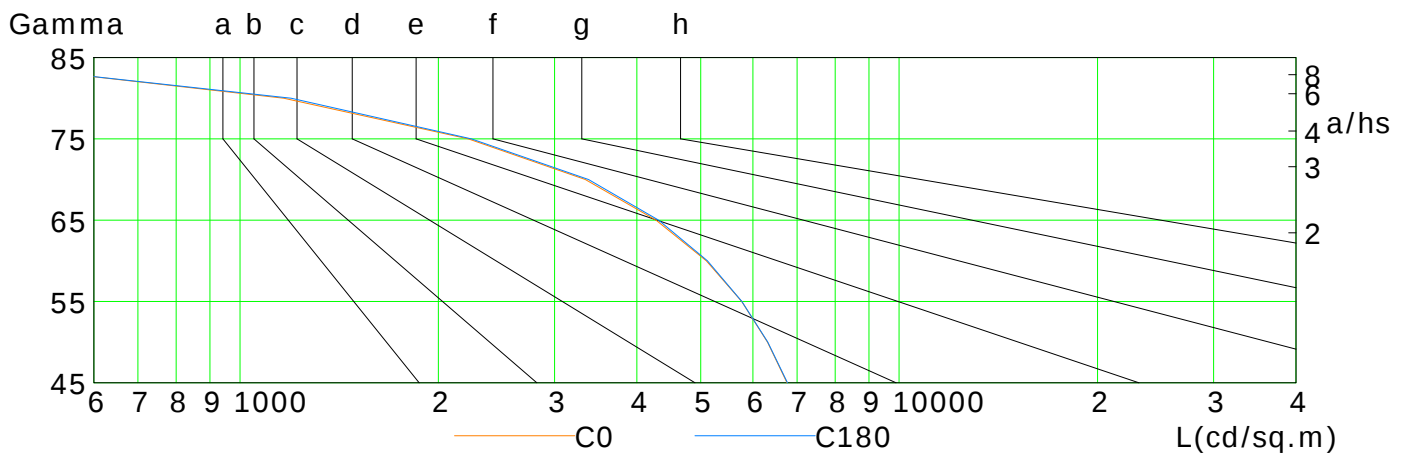
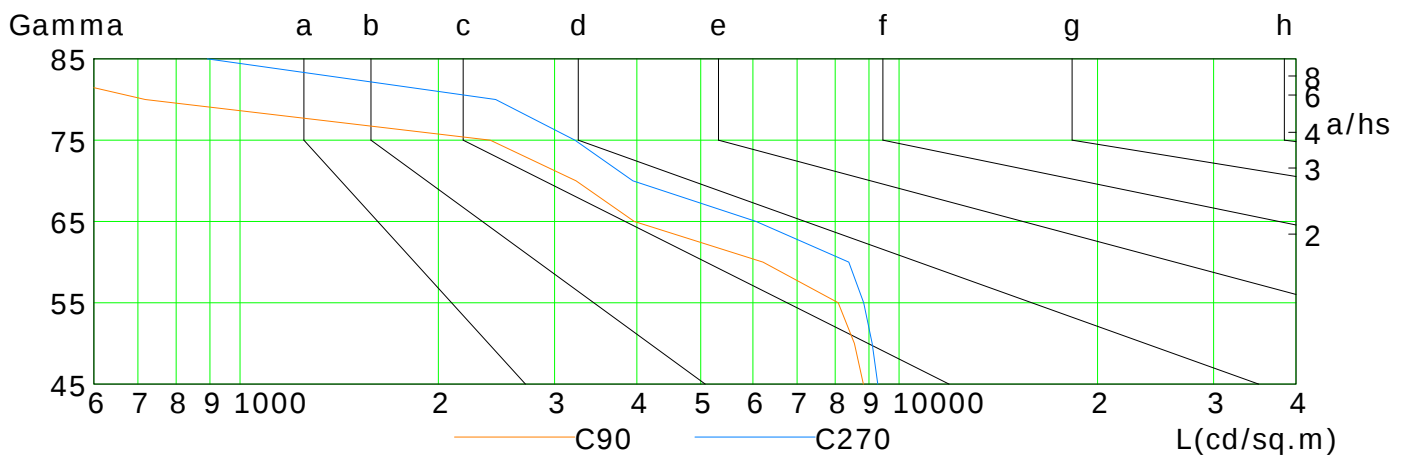
Humidity:

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	6759	6313	5768	5098	4278	3341	2220	1165	333
C90	8825	8551	8084	6216	3964	3235	2397	718	389
C180	6771	6320	5772	5118	4316	3378	2244	1196	329
C270	9282	9099	8833	8387	6066	3945	3221	2442	892

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

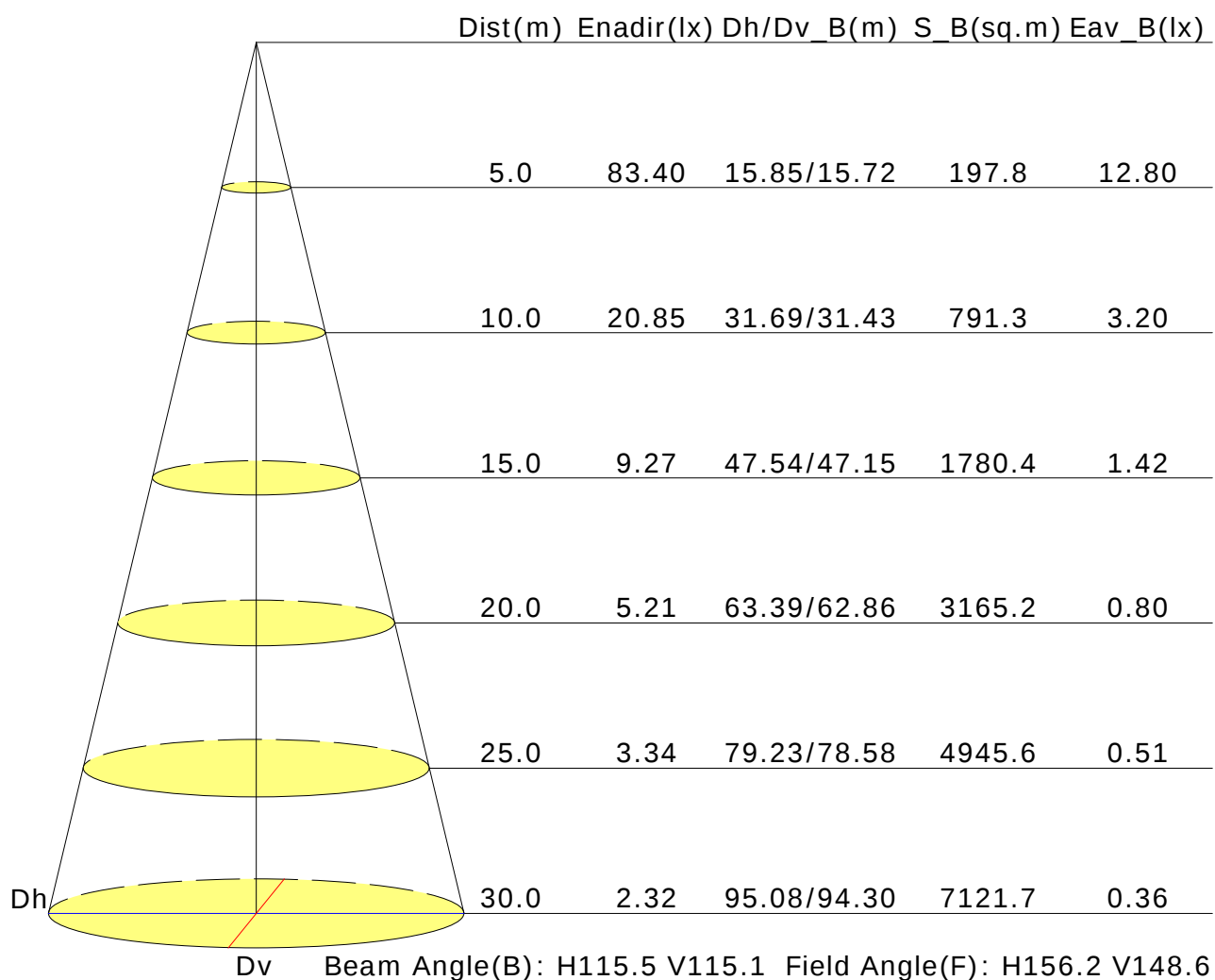
Test Device: LSG-1800B

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	18.9	20.2	19.2	20.5	20.7	19.5	20.8	19.8	21.0	21.3
3H	19.9	21.1	20.3	21.4	21.7	20.0	21.3	20.4	21.5	21.8
4H	20.2	21.3	20.5	21.6	21.9	20.2	21.3	20.5	21.6	21.9
6H	20.3	21.3	20.6	21.6	22.0	20.2	21.3	20.6	21.6	21.9
8H	20.2	21.3	20.6	21.6	21.9	20.2	21.2	20.6	21.6	21.9
12H	20.2	21.2	20.6	21.5	21.9	20.2	21.2	20.6	21.5	21.8
X=4H Y=2H	19.4	20.6	19.8	20.9	21.2	19.9	21.0	20.2	21.3	21.6
3H	20.6	21.6	21.0	21.9	22.2	20.5	21.5	20.9	21.9	22.2
4H	20.9	21.8	21.3	22.1	22.5	20.7	21.6	21.1	22.0	22.3
6H	21.0	21.8	21.5	22.2	22.6	20.8	21.6	21.3	22.0	22.4
8H	21.0	21.7	21.5	22.1	22.6	20.8	21.5	21.3	21.9	22.4
12H	21.0	21.6	21.5	22.1	22.5	20.8	21.4	21.3	21.9	22.3
X=8H Y=4H	20.9	21.6	21.4	22.0	22.5	20.8	21.5	21.2	21.9	22.3
6H	21.1	21.6	21.5	22.1	22.6	20.9	21.5	21.4	21.9	22.4
8H	21.1	21.6	21.6	22.0	22.5	20.9	21.4	21.4	21.9	22.4
12H	21.1	21.5	21.6	22.0	22.5	20.9	21.3	21.4	21.8	22.3
X=12H Y=4H	20.9	21.5	21.4	22.0	22.4	20.7	21.4	21.2	21.8	22.2
6H	21.1	21.6	21.5	22.0	22.5	20.9	21.4	21.4	21.8	22.3
8H	21.1	21.5	21.6	22.0	22.5	20.9	21.3	21.4	21.8	22.3
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 5881lm ($8\log(F/F_0) = 6.2$).

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:45W 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:45W 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:45W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												