

Report No.:

Test Time: 12.03.2020 16:03

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 180 4x24LED 0,3A 32W 3000K закаленное стекло матовое IP65 N

Number of Lamps: 1

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 76

Voltage: 230.1 V

Current: 0.146 A

Power: 32.45 W

Power Factor: 0.966

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 3521.1 lm

Measurement Flux: 3521.1 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 151.9, 143.4, 147.0, 147.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.0, 95.1, 98.0, 98.0

Luminaire Efficacy Rating (LER): 108.56

Central Intensity: 1492.96 cd

Max. Intensity: 1493.86 cd

Pos of Max. Intensity: H22.5 V0

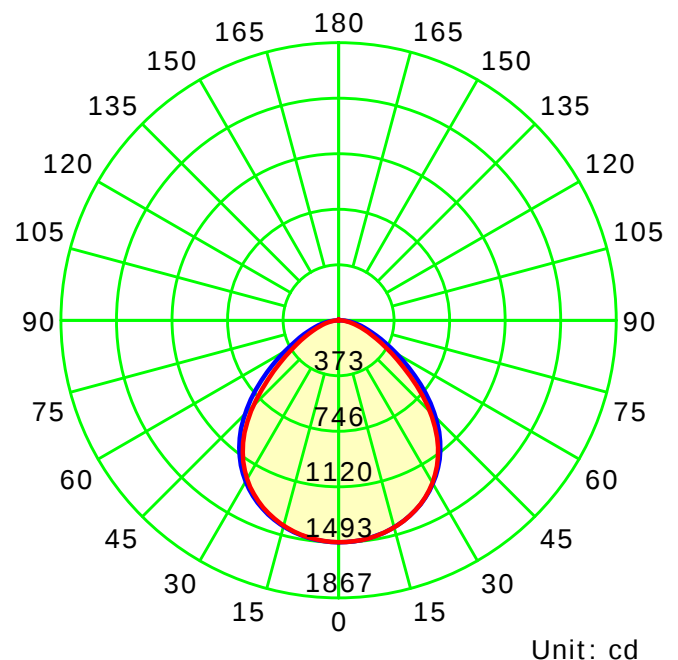
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.24

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

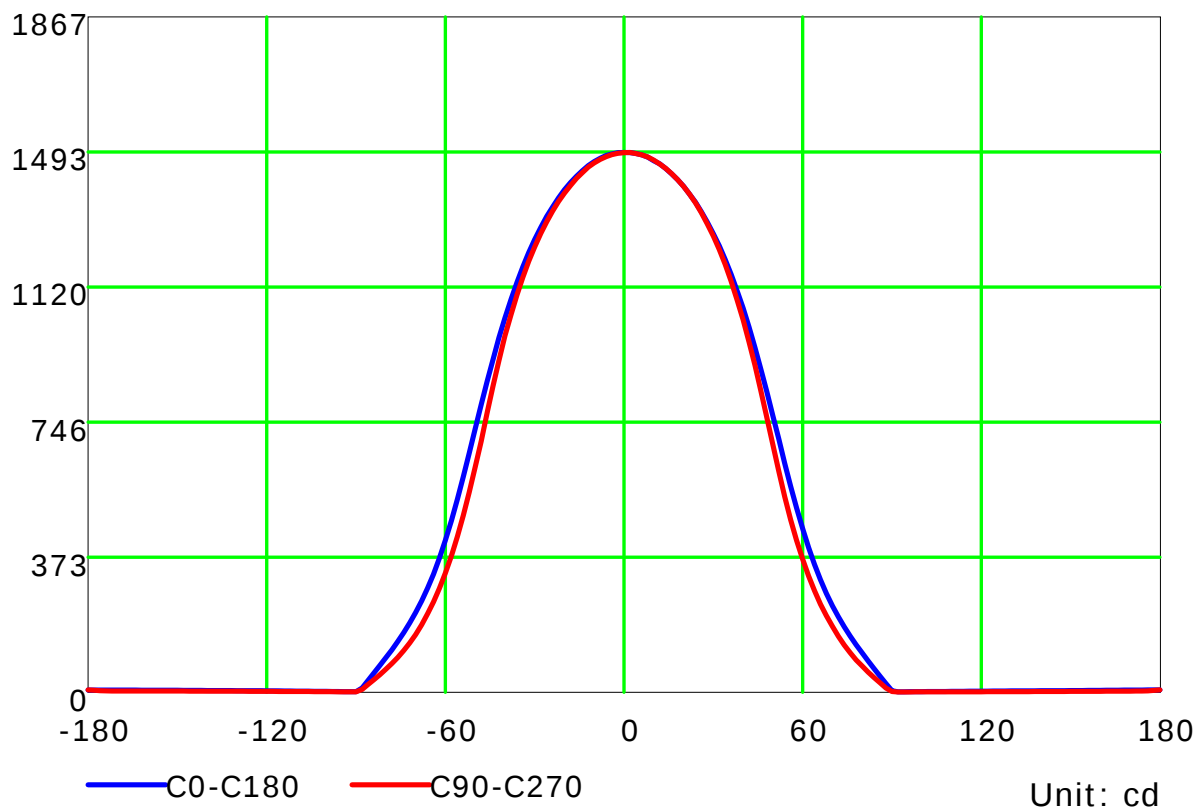
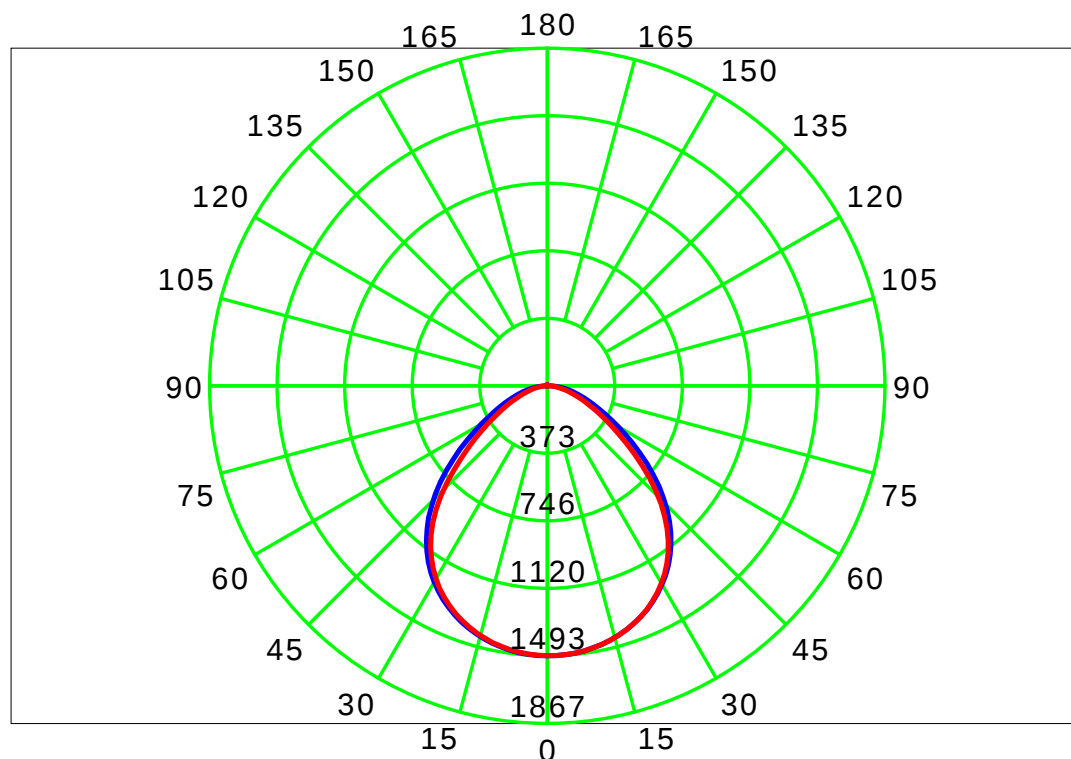
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



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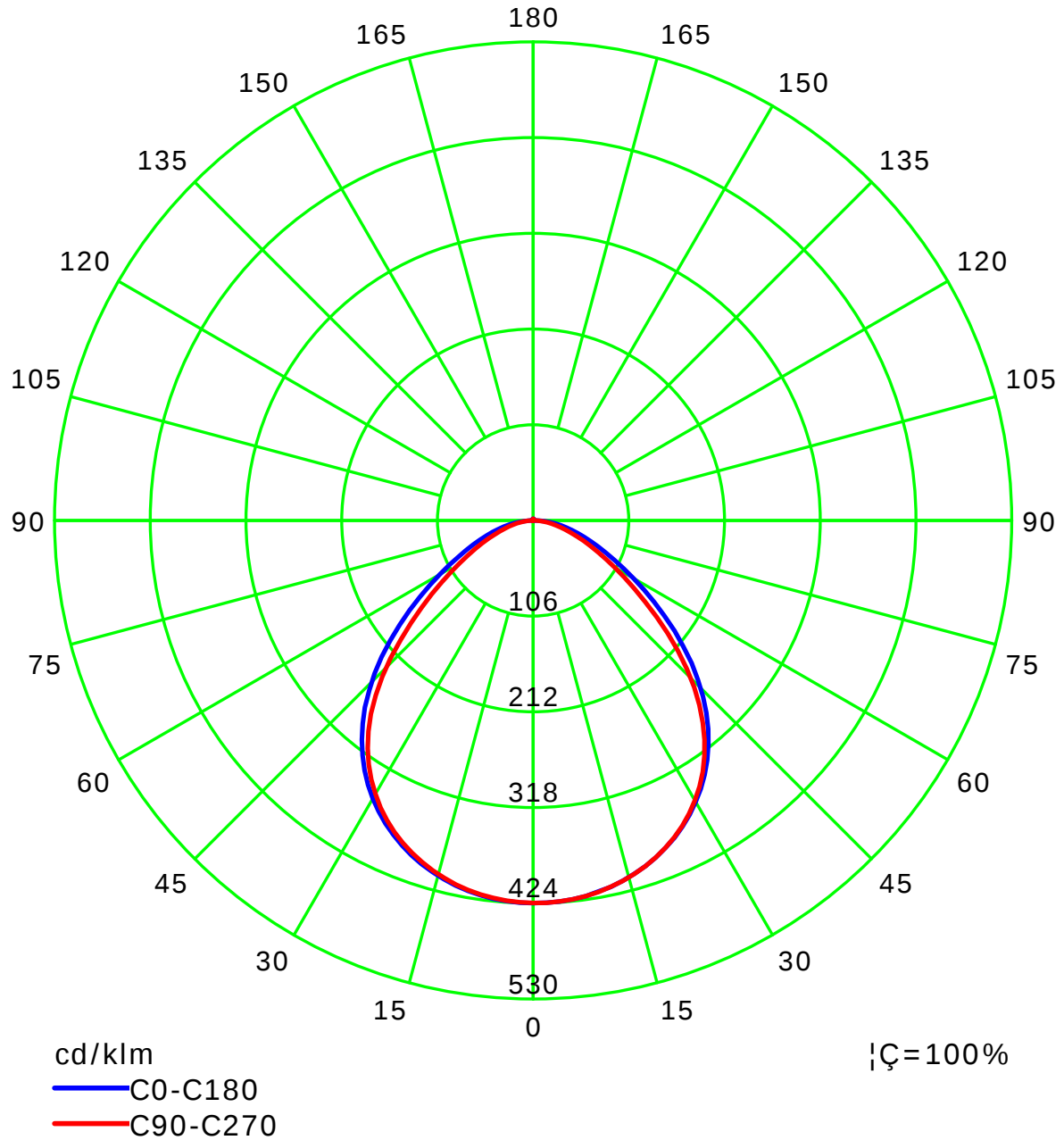
Test Device: LSG-1800B

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Humidity:

Inspector:

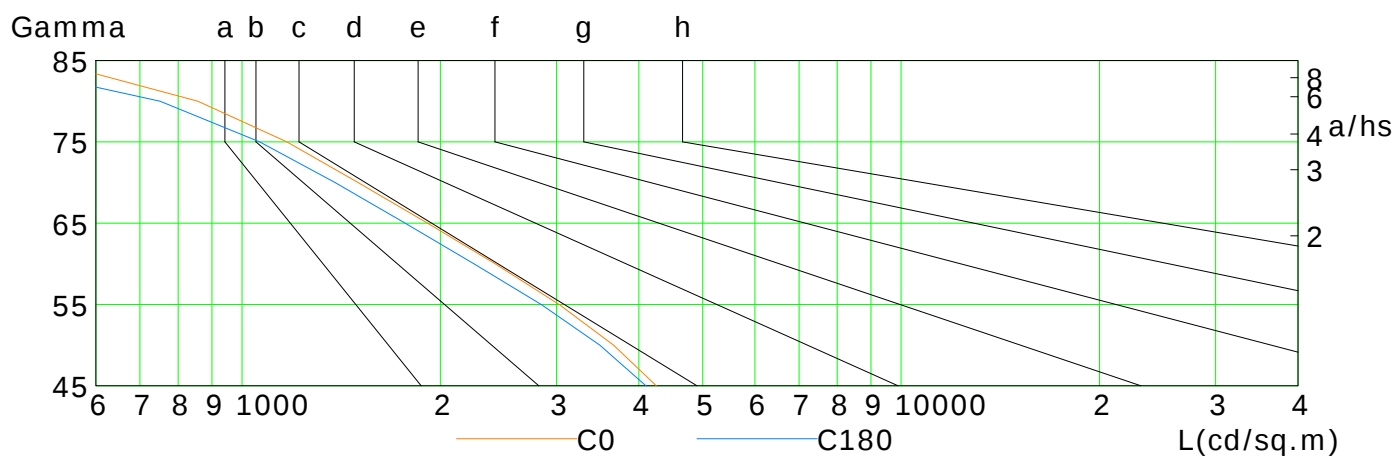
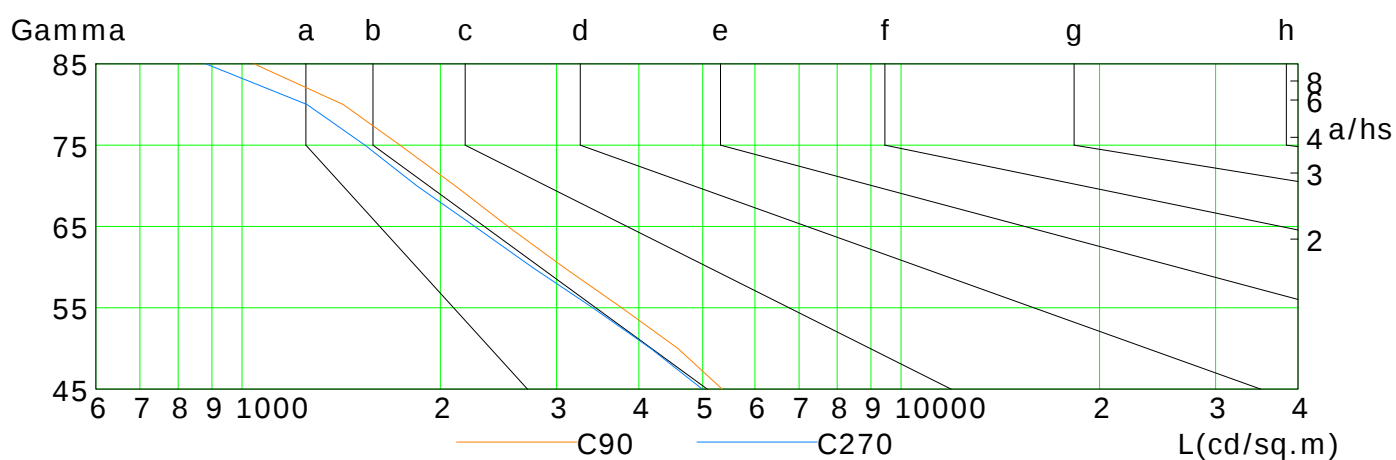
Luminous Intensity Distribution Curve(cd / klm)



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	4251	3663	3027	2423	1912	1500	1170	857	505
C90	5351	4586	3767	3073	2532	2106	1737	1424	1043
C180	4099	3490	2845	2249	1768	1384	1064	751	394
C270	4990	4168	3406	2754	2254	1842	1536	1255	881

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

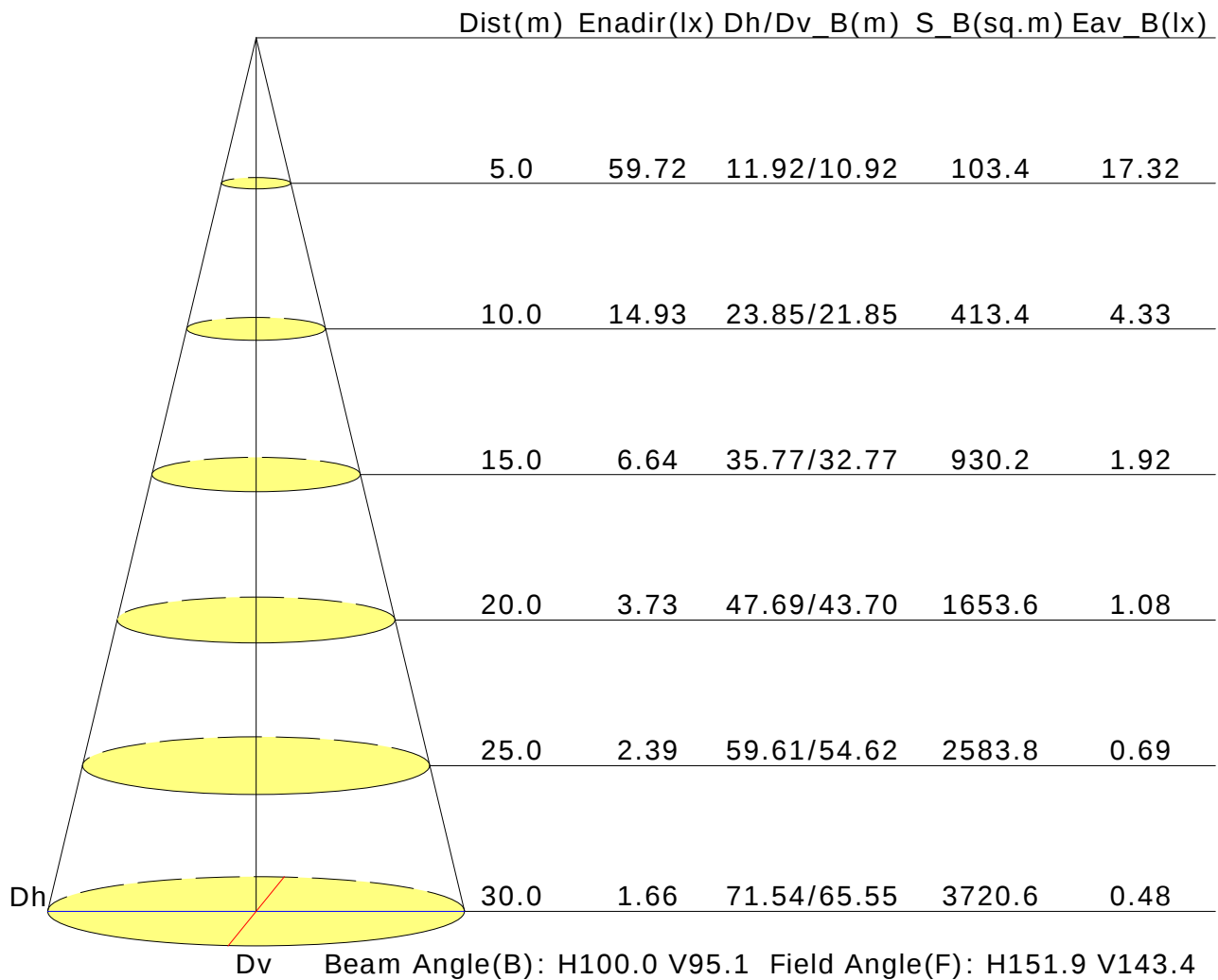
Test Device: LSG-1800B

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	16.3	17.5	16.6	17.8	18.0	16.2	17.4	16.5	17.7	17.9
3H	17.0	18.1	17.3	18.4	18.7	16.8	18.0	17.1	18.2	18.5
4H	17.2	18.3	17.6	18.6	18.9	17.0	18.1	17.4	18.4	18.7
6H	17.4	18.4	17.8	18.7	19.1	17.2	18.2	17.6	18.5	18.8
8H	17.5	18.4	17.8	18.7	19.1	17.2	18.2	17.6	18.5	18.9
12H	17.5	18.4	17.9	18.7	19.1	17.3	18.2	17.6	18.5	18.9
X=4H Y=2H	16.5	17.6	16.9	17.9	18.2	16.4	17.5	16.8	17.8	18.1
3H	17.4	18.3	17.8	18.7	19.0	17.2	18.2	17.6	18.5	18.8
4H	17.8	18.6	18.2	19.0	19.3	17.5	18.4	18.0	18.7	19.1
6H	18.0	18.8	18.5	19.1	19.6	17.8	18.5	18.2	18.9	19.3
8H	18.1	18.8	18.5	19.2	19.6	17.9	18.5	18.3	18.9	19.4
12H	18.1	18.7	18.6	19.2	19.6	17.9	18.5	18.4	18.9	19.4
X=8H Y=4H	17.8	18.5	18.3	18.9	19.3	17.6	18.3	18.1	18.7	19.1
6H	18.2	18.7	18.6	19.2	19.6	17.9	18.5	18.4	18.9	19.4
8H	18.3	18.8	18.8	19.2	19.7	18.0	18.5	18.5	19.0	19.5
12H	18.4	18.8	18.9	19.3	19.8	18.1	18.5	18.6	19.0	19.5
X=12H Y=4H	17.8	18.4	18.3	18.9	19.3	17.6	18.2	18.1	18.6	19.1
6H	18.2	18.6	18.7	19.1	19.6	17.9	18.4	18.4	18.9	19.4
8H	18.3	18.7	18.8	19.2	19.7	18.1	18.5	18.6	19.0	19.5
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.4/-0.6				
S=1.5H	+0.6/-1.2					+0.7/-1.3				
S=2.0H	+1.4/-1.9					+1.7/-2.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3521lm ($8\log(F/F_0) = 4.4$).

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	0.63	0.73	0.80	0.85	0.91	0.96	0.99	1.03	1.05	
	0.30		0.56	0.66	0.73	0.78	0.86	0.91	0.94	0.99	1.02	
	0.20		0.50	0.61	0.68	0.74	0.81	0.87	0.91	0.96	0.99	
0.50	0.50	0.20	0.61	0.71	0.77	0.82	0.88	0.92	0.95	0.99	1.01	
	0.30		0.55	0.65	0.72	0.77	0.84	0.88	0.91	0.96	0.98	
	0.20		0.50	0.60	0.67	0.72	0.80	0.85	0.88	0.93	0.96	
0.30	0.50	0.20	0.60	0.69	0.75	0.79	0.85	0.89	0.92	0.95	0.97	
	0.30		0.54	0.64	0.70	0.75	0.81	0.86	0.89	0.93	0.95	
	0.20		0.50	0.59	0.66	0.71	0.78	0.83	0.86	0.90	0.93	
0.00	0.00	0.00	0.48	0.57	0.64	0.68	0.75	0.79	0.82	0.86	0.88	
Rating:32W 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	0.91	0.74	0.62	0.54	0.42	0.35	0.30	0.23	0.19	
	0.30		0.76	0.63	0.54	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.65	0.55	0.48	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.87	0.70	0.59	0.51	0.40	0.37	0.28	0.22	0.18	
	0.30		0.74	0.61	0.52	0.46	0.37	0.31	0.26	0.21	0.17	
	0.20		0.64	0.54	0.47	0.41	0.34	0.29	0.25	0.20	0.16	
0.30	0.50	0.20	0.84	0.67	0.57	0.49	0.38	0.32	0.27	0.21	0.17	
	0.30		0.72	0.59	0.51	0.44	0.35	0.30	0.25	0.20	0.16	
	0.20		0.63	0.53	0.46	0.40	0.33	0.28	0.24	0.19	0.16	
0.00	0.00	0.00	0.52	0.43	0.36	0.31	0.25	0.21	0.18	0.14	0.11	
Rating:32W 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	0.22	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	0.09	0.10	0.12	0.14	0.15	0.16	0.18	
0.50	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.12	0.14	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	0.17	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:32W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												