

Report No.:

Test Time: 12.03.2020 16:03

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 180 4x18LED 0,3A 36W 3000K закаленное стекло матовое IP65 N

Number of Lamps: 1

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 76

Voltage: 230.0 V

Current: 0.162 A

Power: 35.96 W

Power Factor: 0.965

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 3912.3 lm

Measurement Flux: 3912.3 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): 108.85

Central Intensity: 1658.85 cd

Max. Intensity: 1659.84 cd

Pos of Max. Intensity: H22.5 V0

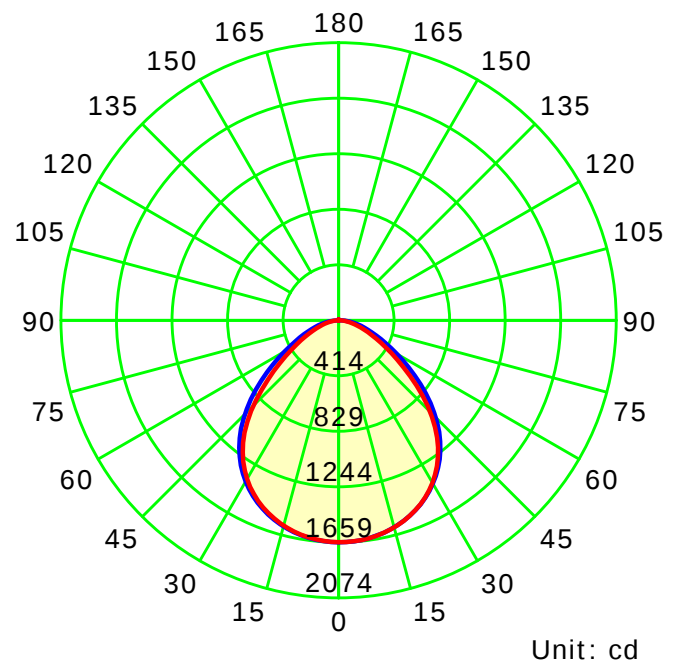
S/MH(C0/C180): 1.25

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

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

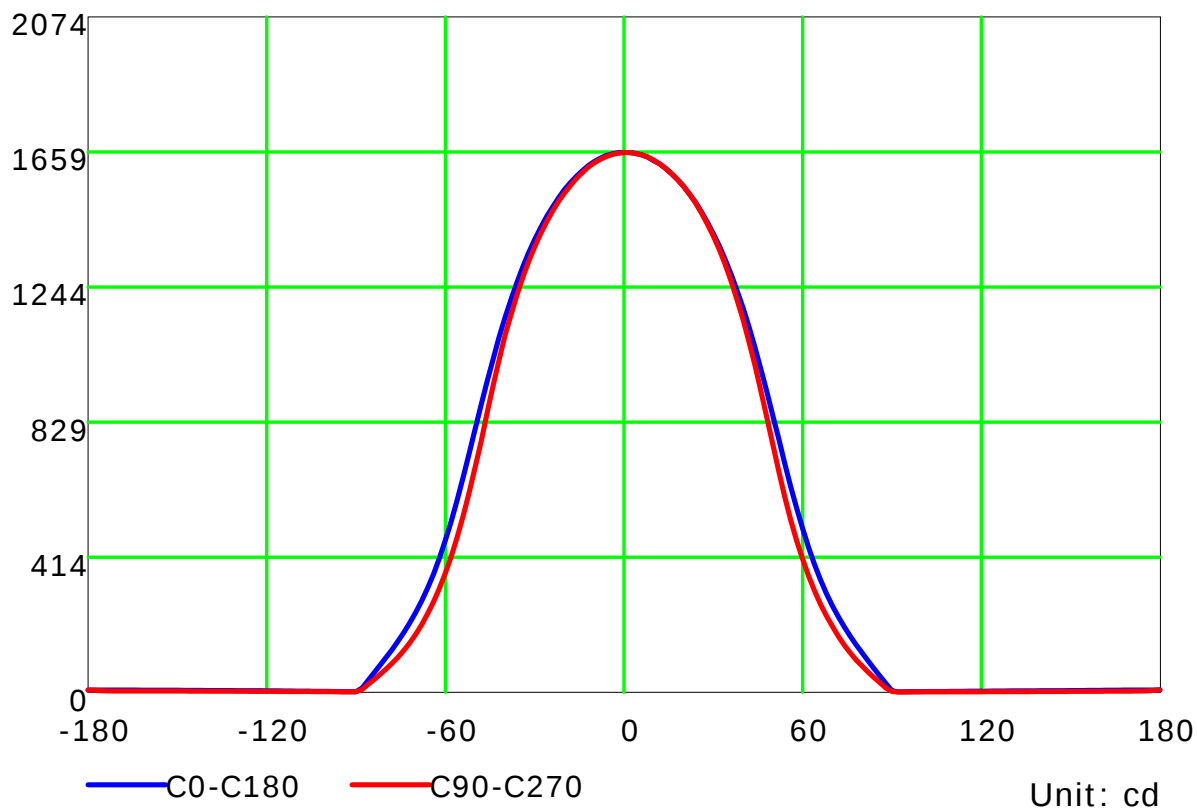
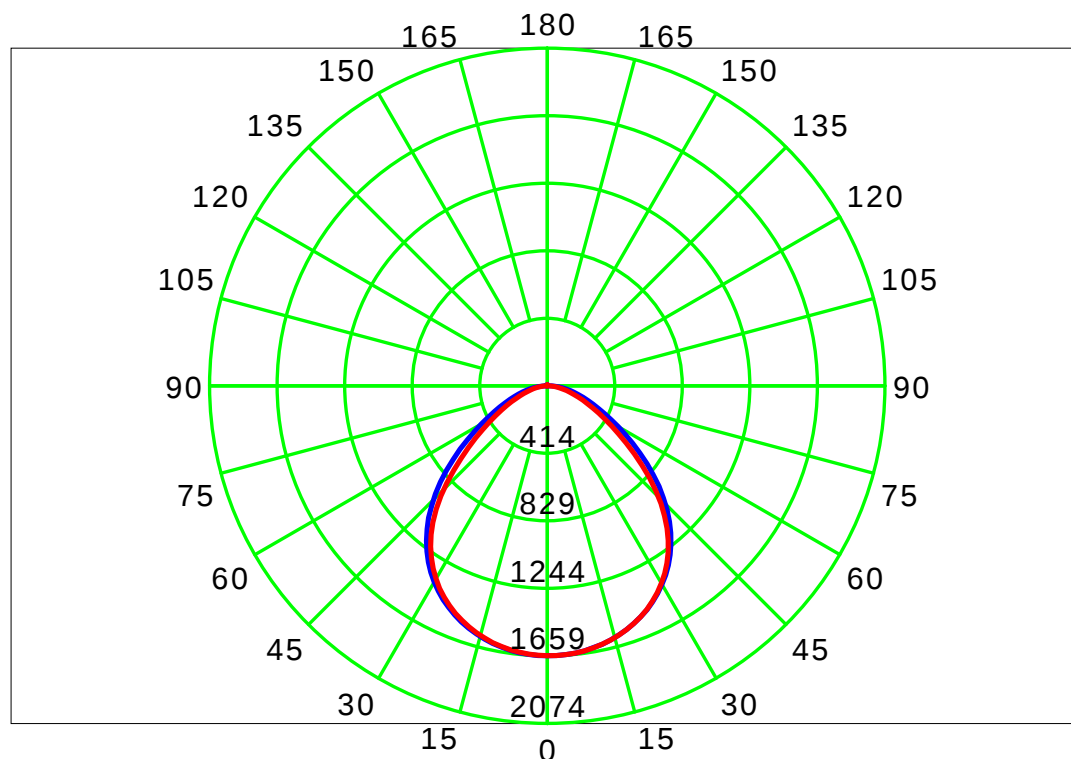
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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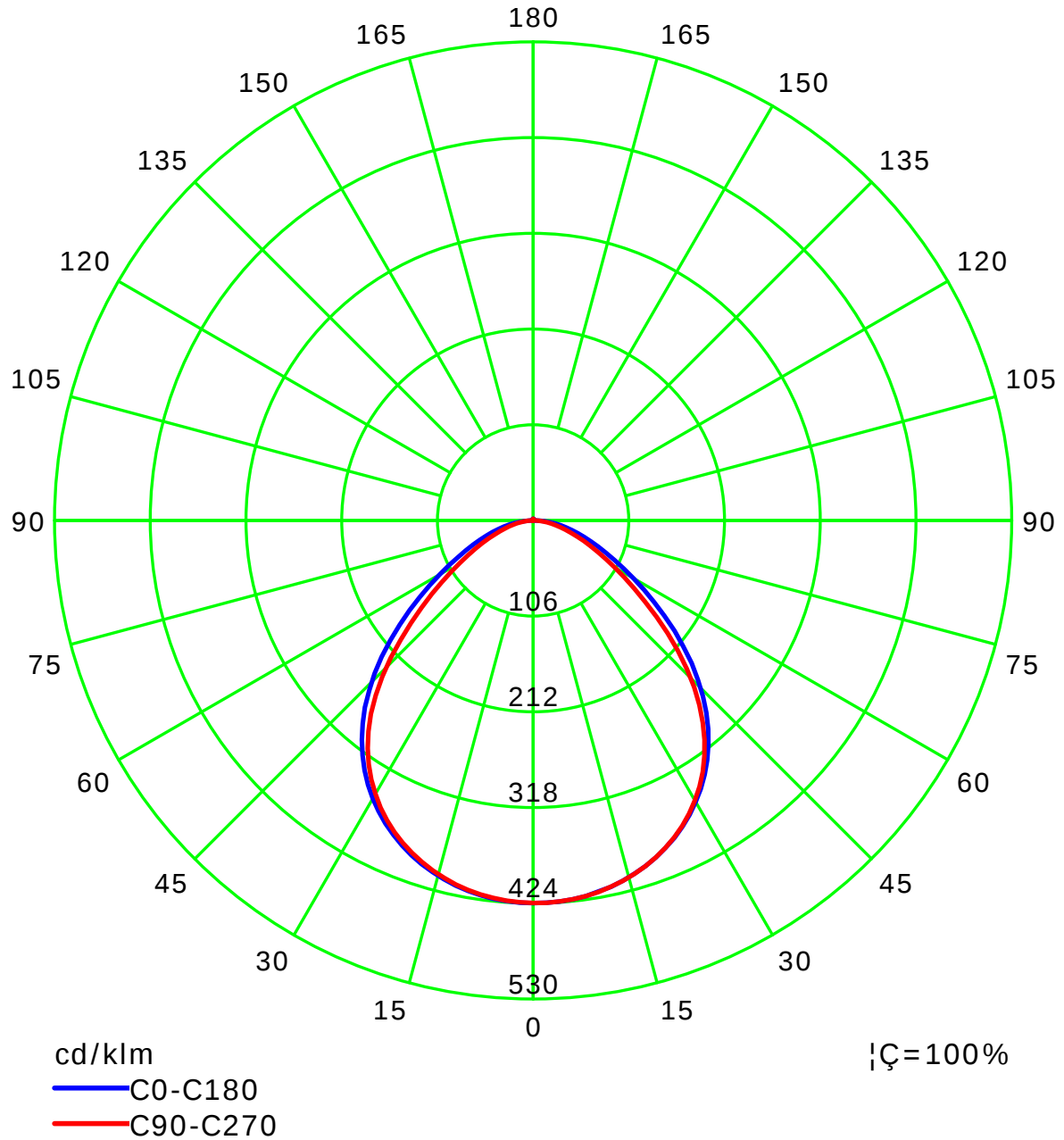
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

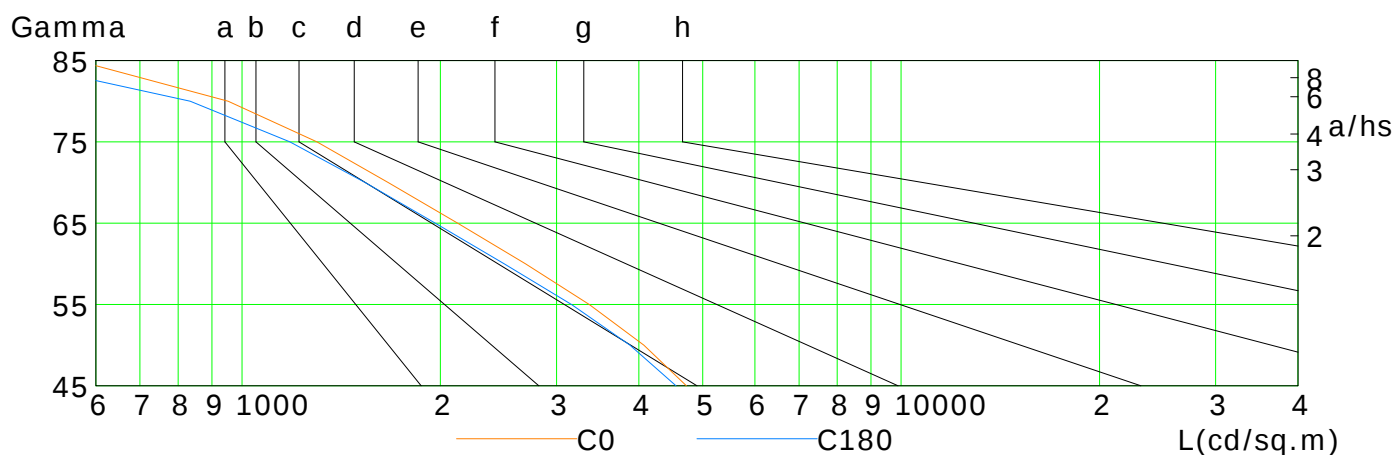
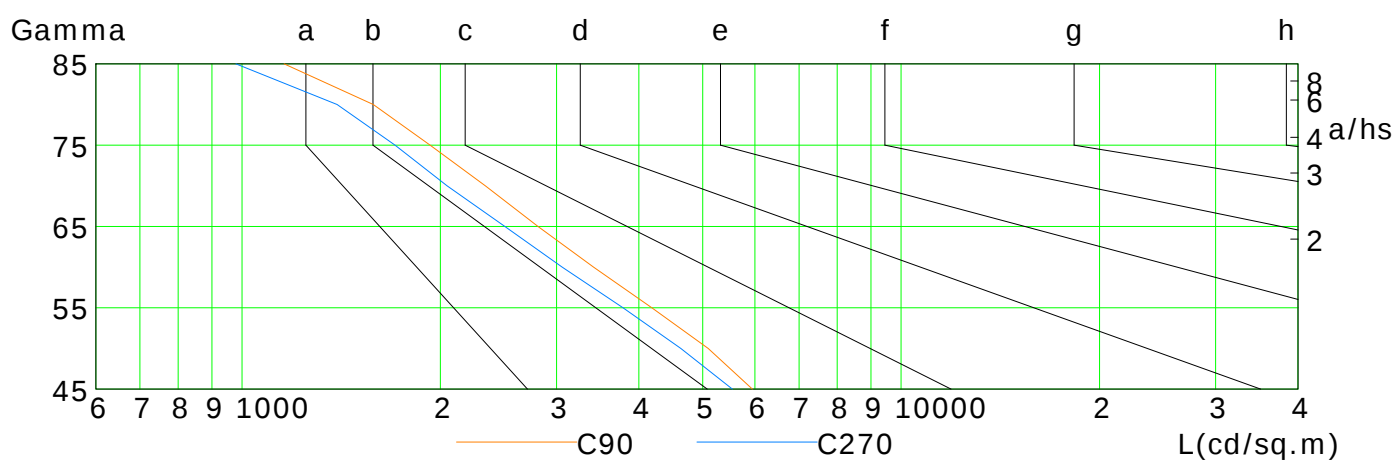
Luminous Intensity Distribution Curve(cd / klm)



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	4723	4069	3364	2692	2124	1666	1299	952	561
C90	5946	5095	4185	3415	2813	2340	1930	1582	1159
C180	4555	3877	3161	2499	1964	1537	1182	834	438
C270	5545	4631	3784	3060	2505	2046	1707	1394	979

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Temperature:

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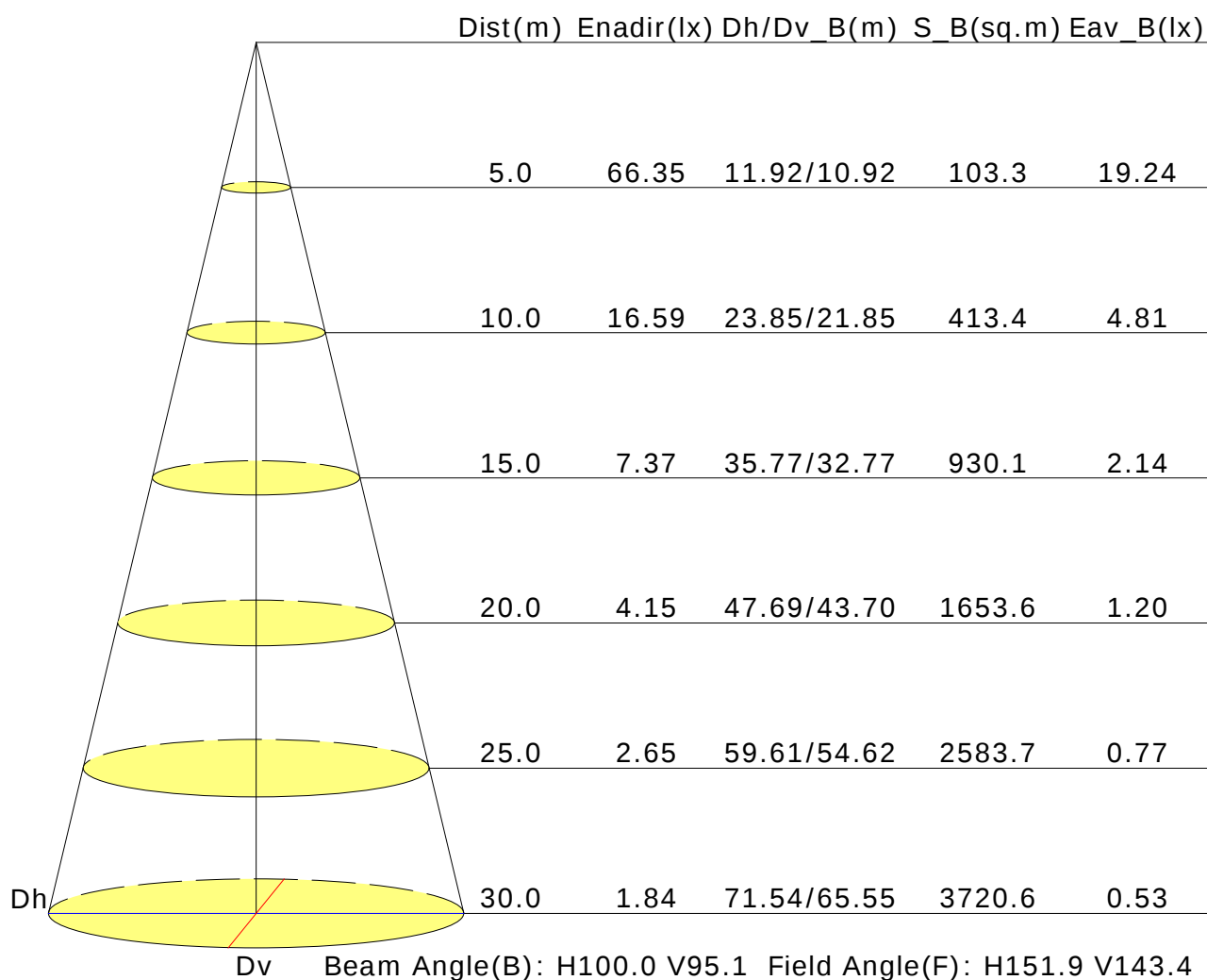
Test Device: LSG-1800B

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	16.6	17.9	16.9	18.1	18.4	16.5	17.8	16.8	18.0	18.3
3H	17.4	18.5	17.7	18.8	19.1	17.2	18.3	17.5	18.6	18.9
4H	17.6	18.7	18.0	19.0	19.3	17.4	18.5	17.7	18.8	19.1
6H	17.8	18.8	18.1	19.1	19.4	17.6	18.6	17.9	18.9	19.2
8H	17.8	18.8	18.2	19.1	19.4	17.6	18.6	18.0	18.9	19.2
12H	17.8	18.8	18.2	19.1	19.4	17.6	18.5	18.0	18.9	19.2
X=4H Y=2H	16.9	18.0	17.3	18.3	18.6	16.8	17.9	17.2	18.2	18.5
3H	17.8	18.7	18.2	19.0	19.4	17.6	18.5	18.0	18.9	19.2
4H	18.1	19.0	18.5	19.3	19.7	17.9	18.7	18.3	19.1	19.5
6H	18.4	19.1	18.8	19.5	19.9	18.1	18.9	18.6	19.3	19.7
8H	18.5	19.1	18.9	19.5	20.0	18.2	18.9	18.7	19.3	19.7
12H	18.5	19.1	19.0	19.5	20.0	18.3	18.9	18.7	19.3	19.7
X=8H Y=4H	18.2	18.9	18.6	19.3	19.7	18.0	18.7	18.4	19.1	19.5
6H	18.5	19.1	19.0	19.5	20.0	18.3	18.8	18.8	19.3	19.8
8H	18.7	19.1	19.1	19.6	20.1	18.4	18.9	18.9	19.3	19.8
12H	18.7	19.1	19.2	19.6	20.1	18.5	18.9	19.0	19.4	19.9
X=12H Y=4H	18.2	18.8	18.6	19.2	19.7	18.0	18.6	18.4	19.0	19.5
6H	18.5	19.0	19.0	19.5	20.0	18.3	18.8	18.8	19.2	19.7
8H	18.7	19.1	19.2	19.6	20.1	18.4	18.8	18.9	19.3	19.8
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 3912lm ($8\log(F/F_0) = 4.7$).

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Temperature:

Operator:

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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:36W 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:36W 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:36W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												