

Report No.:

Test Time: 04.08.2020 16:16

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 18LED 0.3A 36W 5000K prozrachniy 1-10

Number of Lamps: 1

Luminous Length (mm): 1262

Luminous Width (mm): 124

Luminous Height (mm): 85

Voltage: 220.9 V

Current: 0.169 A

Power: 36.39 W

Power Factor: 0.969

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 4843.4 lm

Measurement Flux: 4843.4 lm

Efficiency: 100%

Downward Ratio: 98%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 154.1, 165.2, 165.3, 165.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 108.6, 91.5, 100.8, 101.6

Luminaire Efficacy Rating (LER): 133.15

Central Intensity: 1868.86 cd

Max. Intensity: 2043.41 cd

Pos of Max. Intensity: H112.5 V18

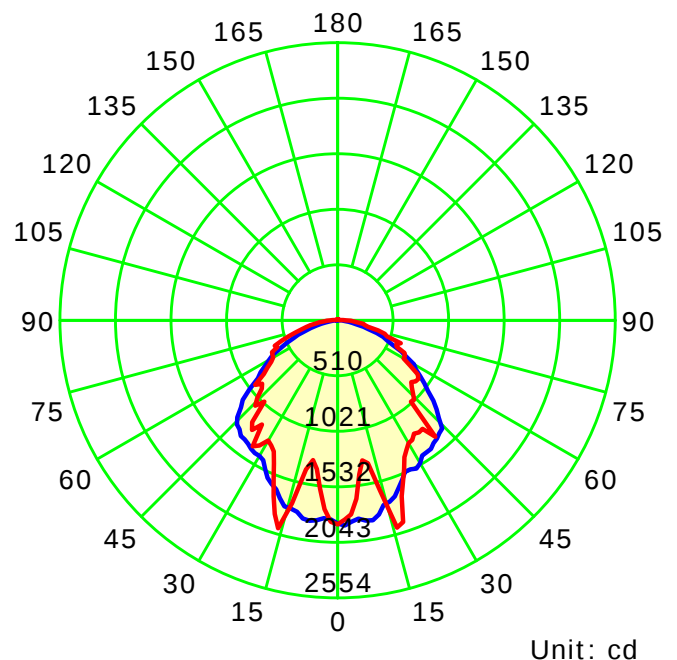
S/MH(C0/C180): 1.19

S/MH(C90/C270): 1.04

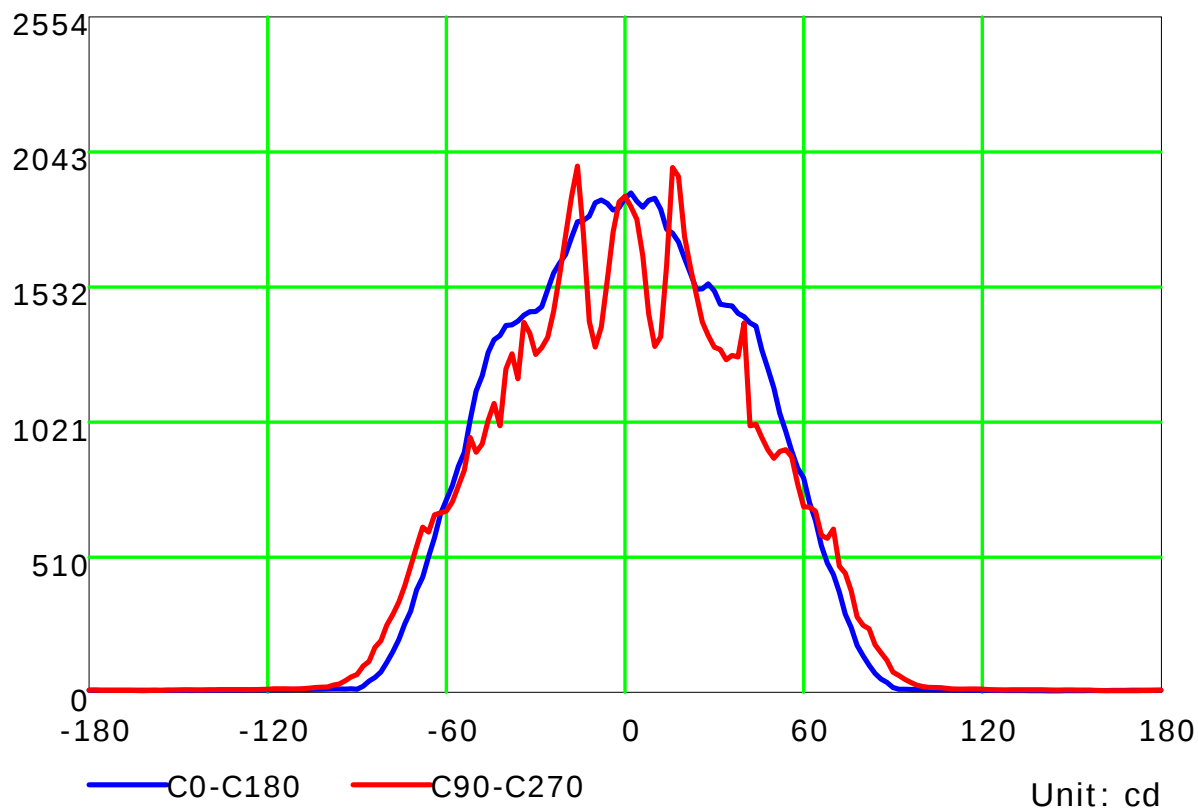
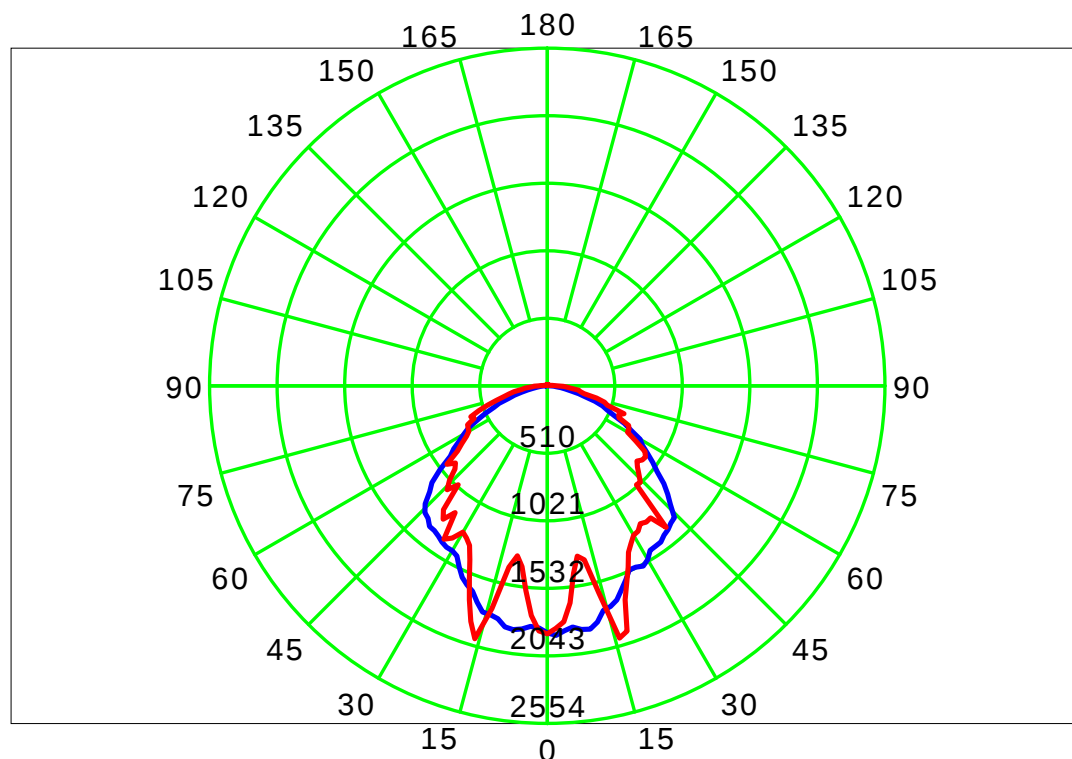
Picture Of Luminaire



Luminous Intensity Distribution Curve



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

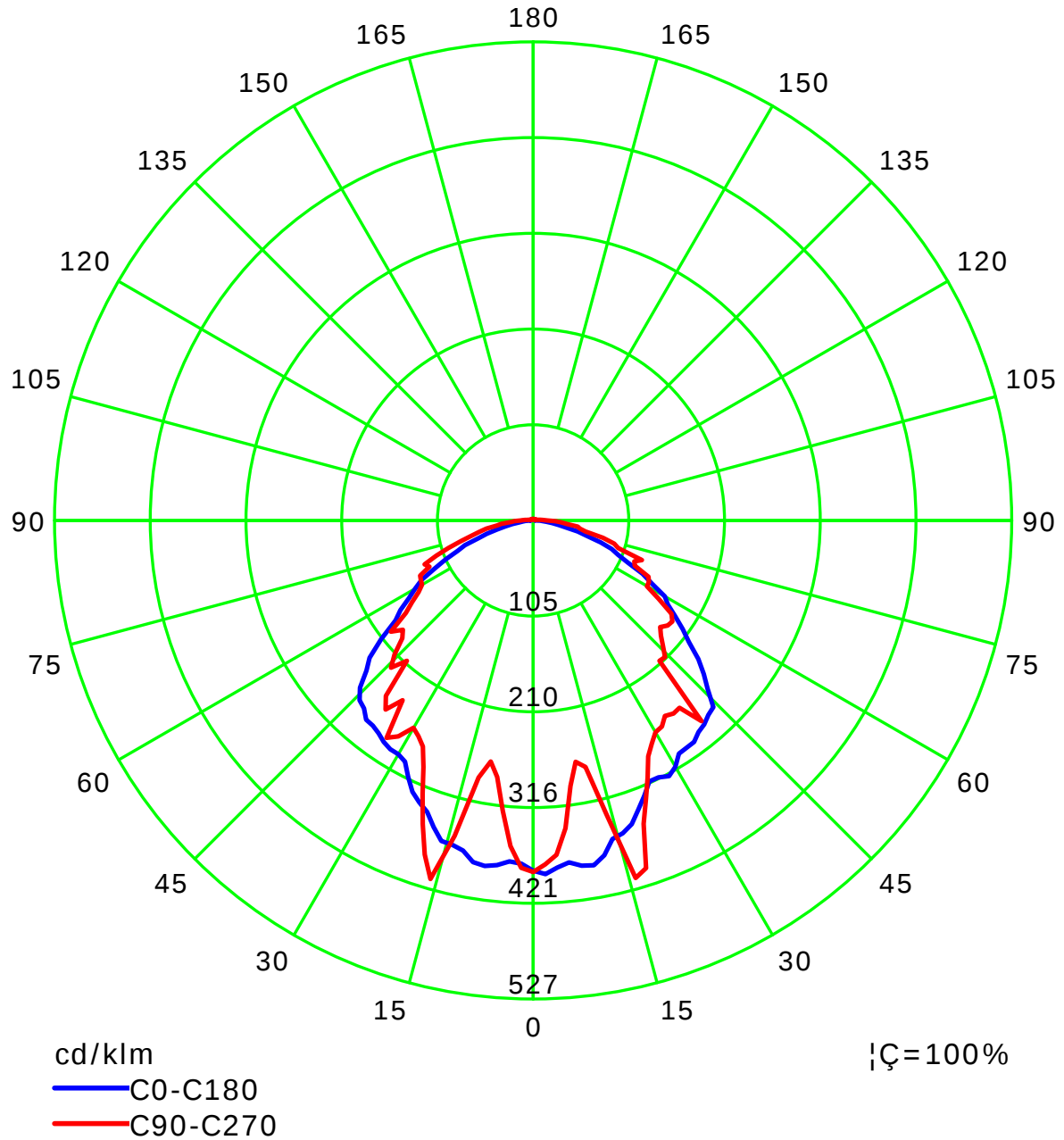
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

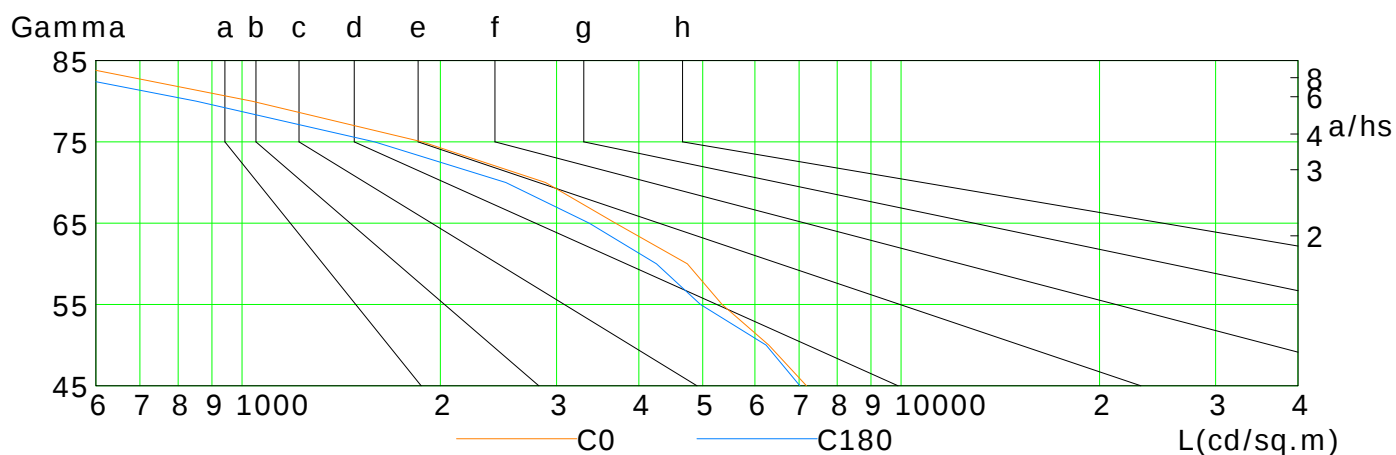
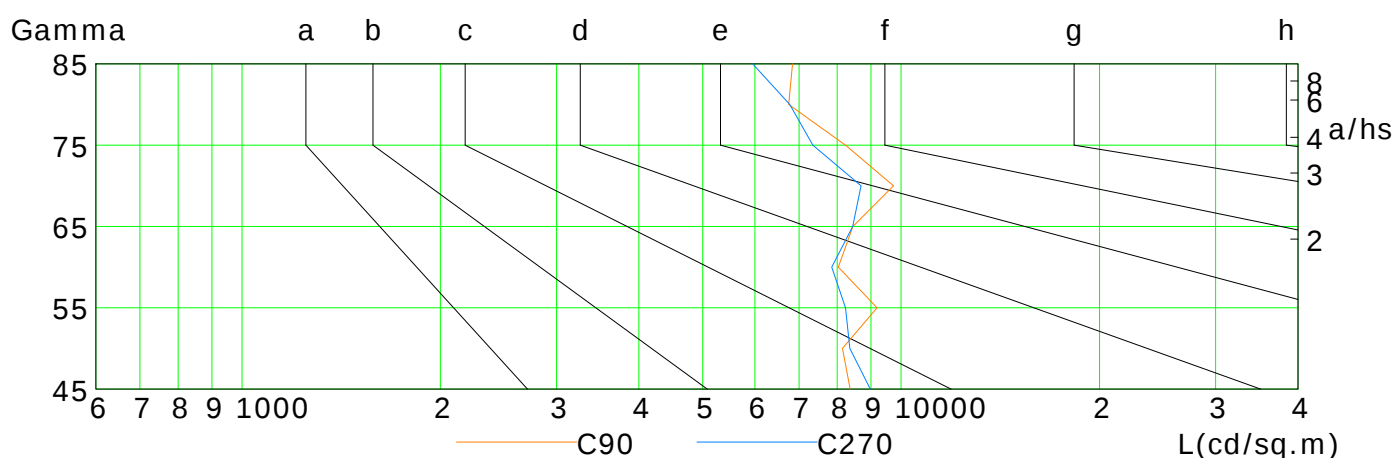
Luminous Intensity Distribution Curve(cd / klm)



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	7183	6298	5351	4739	3685	2887	1877	1036	505
C90	8368	8147	9194	8030	8449	9740	8235	6752	6844
C180	7022	6239	4962	4254	3363	2513	1589	853	411
C270	8981	8358	8235	7846	8441	8694	7345	6778	5953

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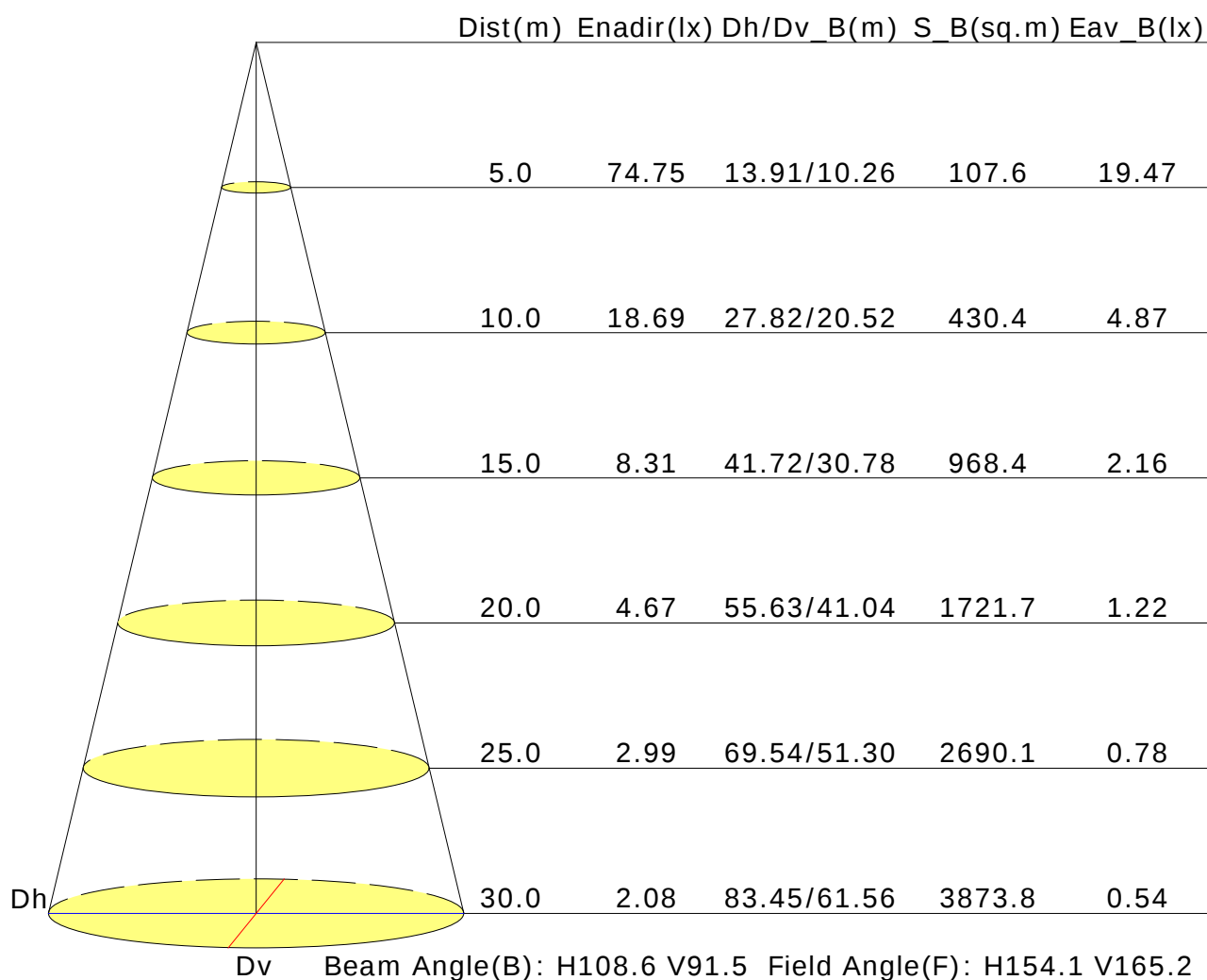
Test Device: LSG-1800B

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	18.1	19.5	18.4	19.7	20.0	18.8	20.2	19.2	20.5	20.8
3H	19.1	20.3	19.4	20.6	20.9	20.9	22.1	21.2	22.4	22.7
4H	19.3	20.5	19.7	20.8	21.2	21.7	22.9	22.1	23.2	23.5
6H	19.5	20.6	19.9	20.9	21.3	22.2	23.3	22.6	23.7	24.1
8H	19.5	20.5	19.9	20.9	21.3	22.5	23.5	22.9	23.9	24.3
12H	19.5	20.5	19.9	20.8	21.2	22.7	23.7	23.1	24.1	24.4
X=4H Y=2H	18.6	19.8	19.0	20.1	20.4	19.2	20.4	19.6	20.7	21.1
3H	19.7	20.7	20.1	21.1	21.5	21.4	22.4	21.8	22.8	23.2
4H	20.1	21.0	20.6	21.4	21.8	22.3	23.2	22.8	23.6	24.1
6H	20.3	21.1	20.8	21.5	22.0	23.0	23.8	23.5	24.2	24.7
8H	20.4	21.1	20.8	21.5	22.0	23.3	24.1	23.8	24.5	25.0
12H	20.4	21.0	20.9	21.5	22.0	23.6	24.2	24.1	24.7	25.2
X=8H Y=4H	20.5	21.2	21.0	21.7	22.1	22.5	23.2	22.9	23.7	24.1
6H	20.8	21.4	21.3	21.9	22.4	23.3	23.9	23.8	24.3	24.9
8H	20.9	21.4	21.4	21.9	22.5	23.6	24.2	24.2	24.7	25.2
12H	20.9	21.4	21.5	21.9	22.5	24.0	24.5	24.5	25.0	25.5
X=12H Y=4H	20.5	21.2	21.0	21.7	22.1	22.5	23.1	22.9	23.6	24.1
6H	20.9	21.4	21.4	21.9	22.5	23.3	23.8	23.8	24.3	24.8
8H	21.0	21.5	21.6	22.0	22.6	23.7	24.2	24.2	24.7	25.2
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.4					+0.1/-0.2				
S=1.5H	+0.8/-0.6					+0.4/-0.5				
S=2.0H	+1.5/-1.5					+0.6/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 4843lm ($8\log(F/F_0) = 5.5$).

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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	0.56	0.66	0.73	0.79	0.86	0.91	0.94	0.99	1.02	
	0.30		0.48	0.58	0.66	0.71	0.79	0.85	0.89	0.95	0.98	
	0.20		0.42	0.52	0.60	0.66	0.74	0.80	0.85	0.91	0.95	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.82	0.87	0.90	0.95	0.97	
	0.30		0.47	0.57	0.64	0.69	0.77	0.82	0.86	0.91	0.94	
	0.20		0.42	0.52	0.59	0.64	0.72	0.78	0.82	0.88	0.92	
0.30	0.50	0.20	0.52	0.62	0.68	0.73	0.79	0.83	0.87	0.91	0.93	
	0.30		0.46	0.56	0.62	0.68	0.75	0.79	0.83	0.88	0.91	
	0.20		0.41	0.51	0.58	0.63	0.71	0.76	0.80	0.85	0.88	
0.00	0.00	0.00	0.39	0.48	0.55	0.60	0.67	0.72	0.75	0.80	0.83	
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	1.00	0.83	0.71	0.62	0.50	0.42	0.36	0.28	0.23	
	0.30		0.83	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.96	0.79	0.68	0.59	0.47	0.43	0.34	0.26	0.22	
	0.30		0.81	0.69	0.60	0.53	0.43	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.93	0.76	0.65	0.57	0.45	0.38	0.32	0.25	0.21	
	0.30		0.79	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.20	
	0.20		0.69	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.59	0.50	0.43	0.38	0.31	0.26	0.23	0.18	0.15	
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	0.18	0.20	0.21	0.21	0.22	0.23	0.23	0.24	0.24	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.19	
0.50	0.50	0.20	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.18	0.20	0.20	
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	
	0.30		0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.08	0.09	0.11	0.12	0.14	0.15	0.16	0.18	
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Rating:36W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												