

Report No.:

Test Time: 22.04.2020 21:52

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 Clip-in 4x18LED 0,3A 36W 4000K microprisma IP54

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 43

Voltage: 228.8 V

Current: 0.163 A

Power: 35.96 W

Power Factor: 0.962

Photometric Results

CIE Class: Direct

Measurement Flux: 4468.8 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 4468.8 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.6, 158.9, 151.9, 152.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 84.1, 80.6, 78.4, 78.5

Luminaire Efficacy Rating (LER): 124.32

Central Intensity: 2191.94 cd

Max. Intensity: 2193.07 cd

Pos of Max. Intensity: H0 V2

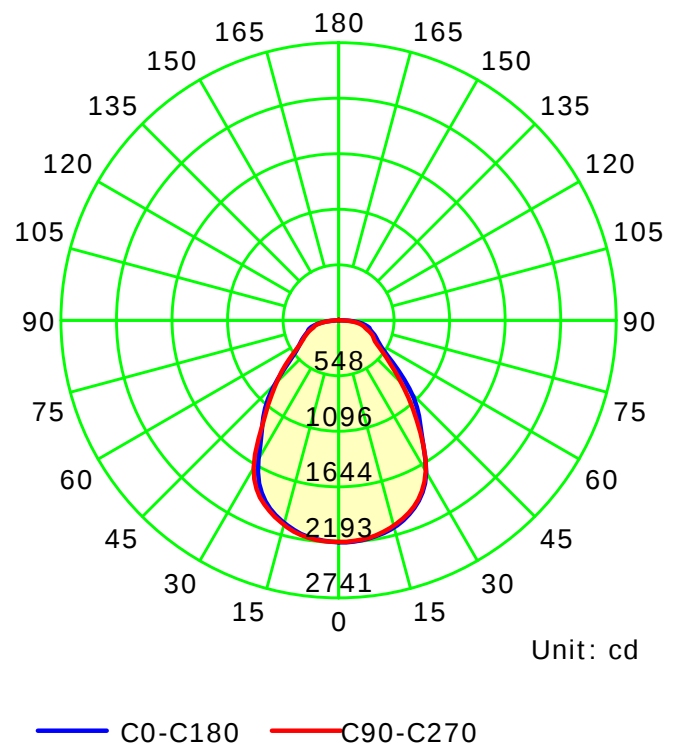
S/MH(C0/C180): 1.14

S/MH(C90/C270): 1.16

Termogramma



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

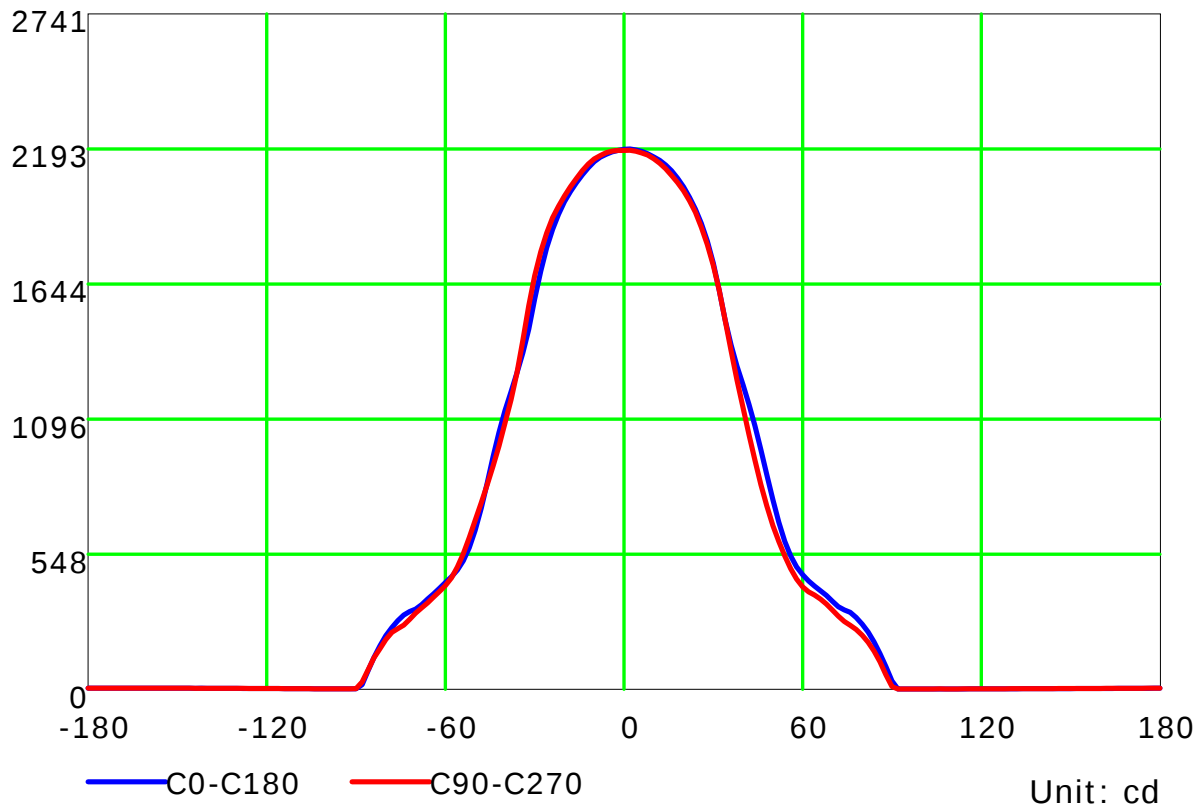
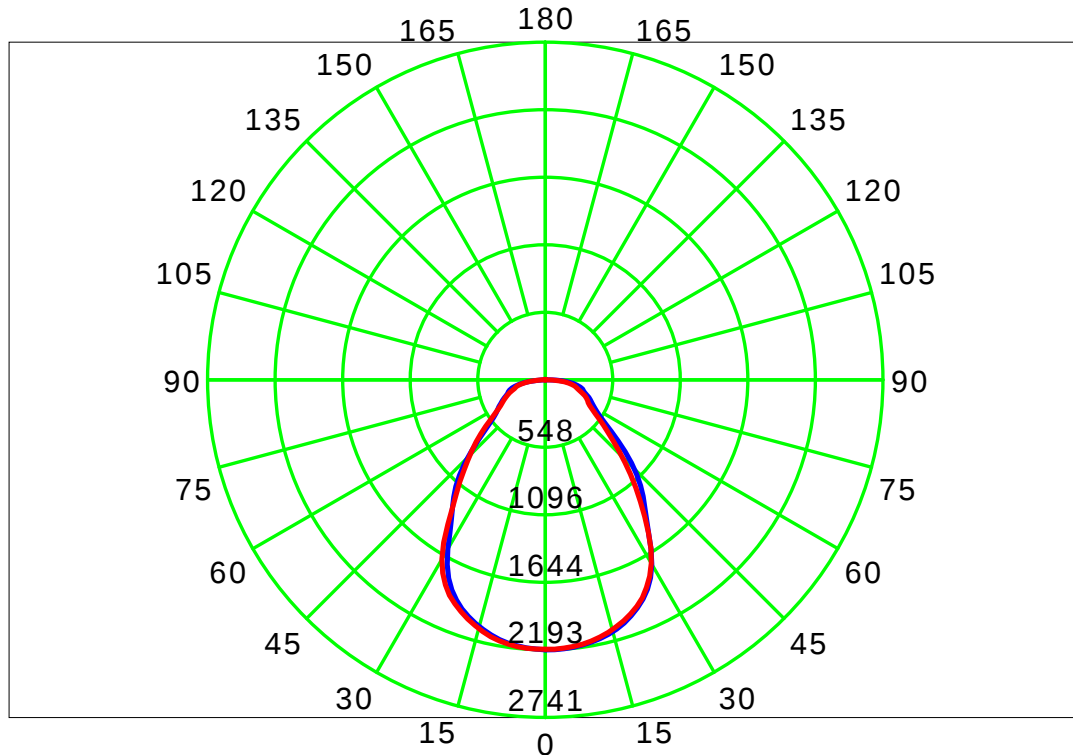
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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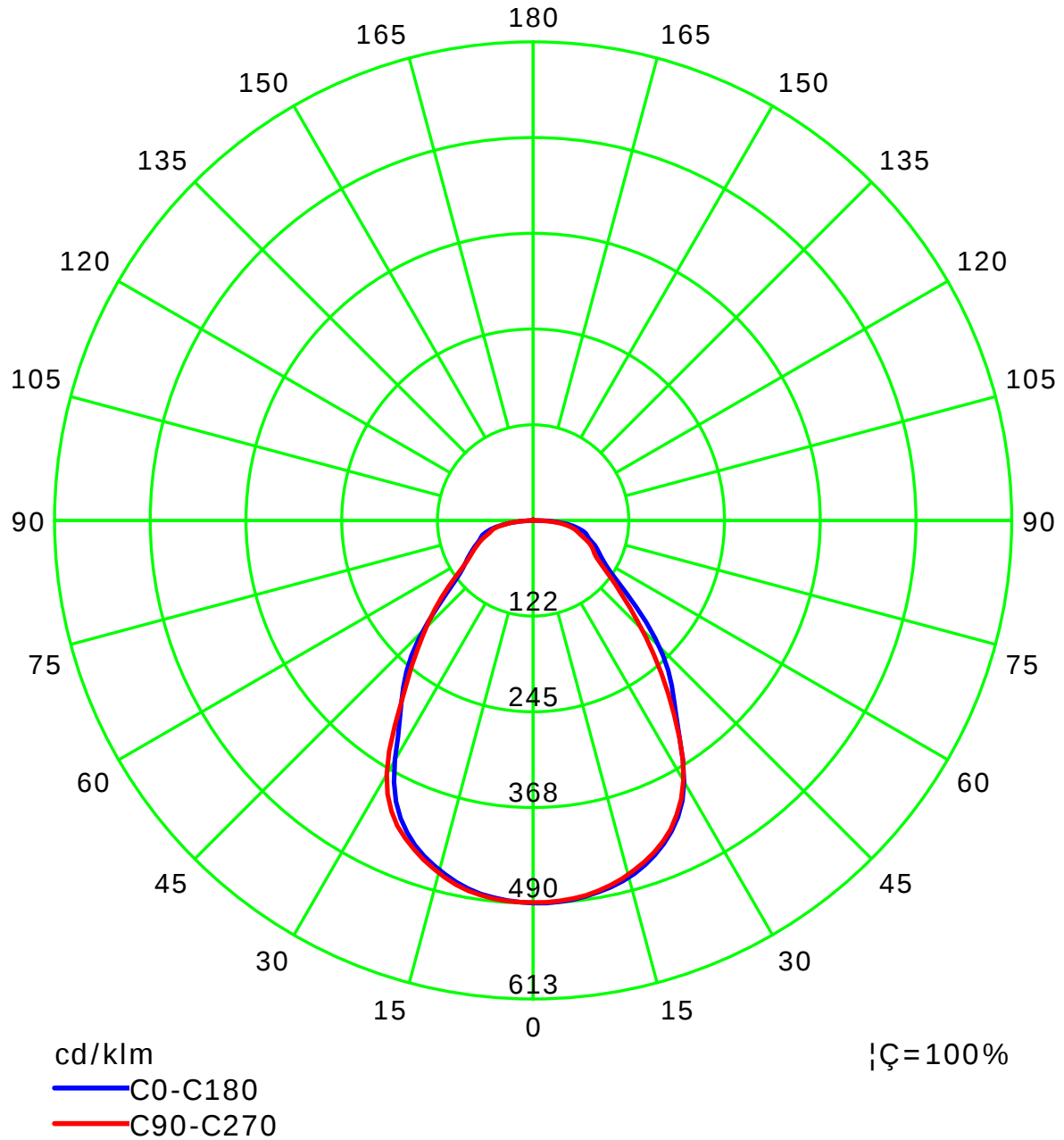
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

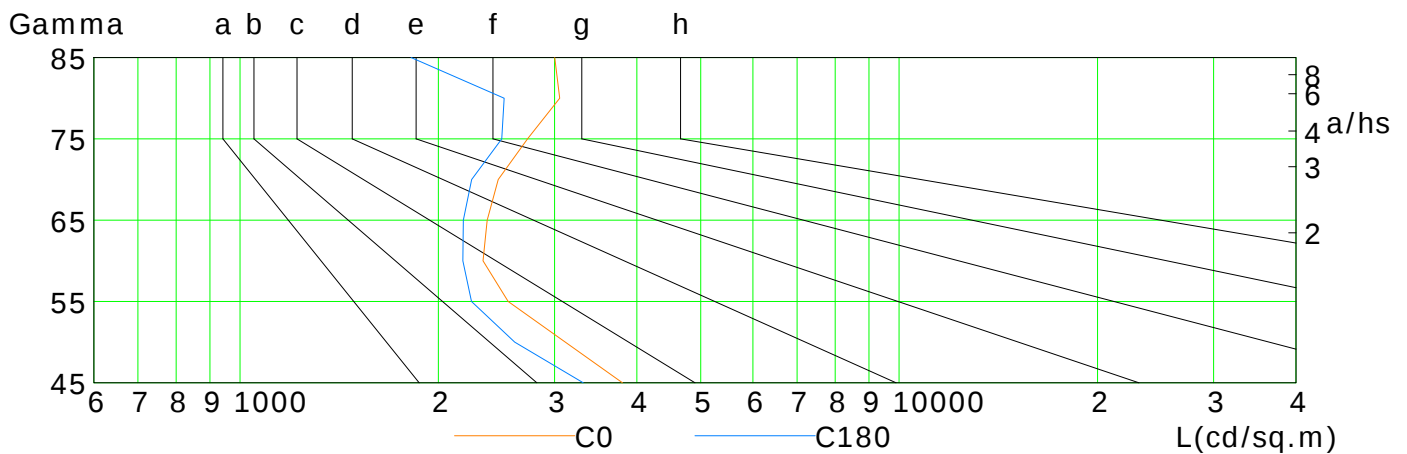
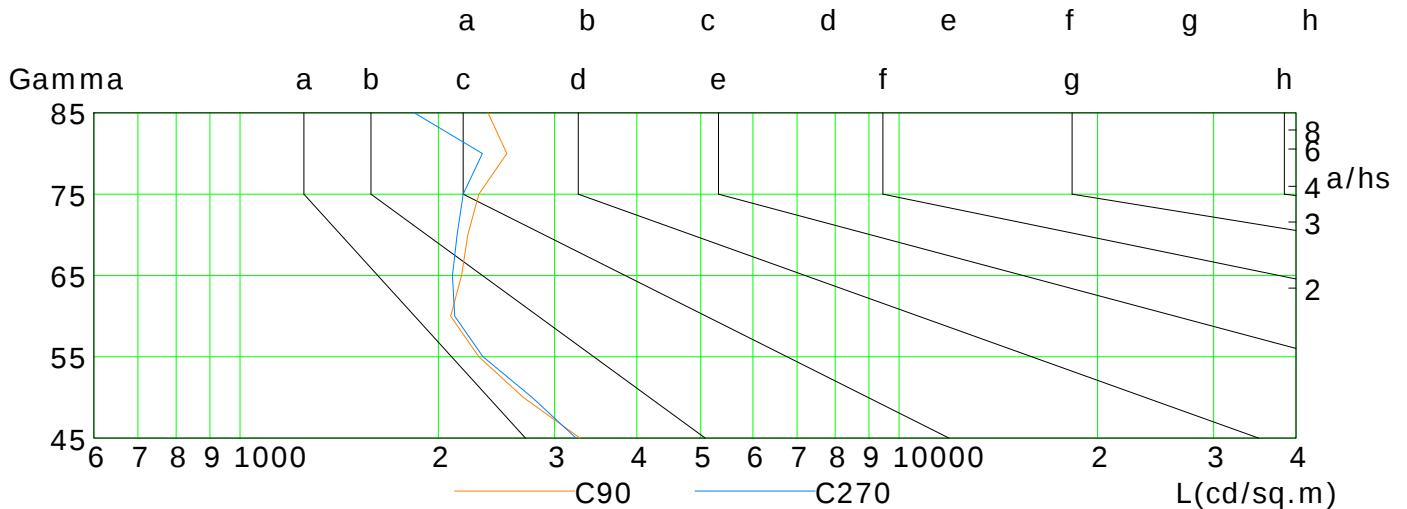
Inspector:

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3804	3116	2552	2337	2372	2465	2731	3054	3003
C90	3281	2691	2304	2088	2169	2217	2303	2540	2378
C180	3316	2611	2245	2178	2182	2246	2495	2515	1819
C270	3235	2774	2337	2116	2101	2135	2180	2332	1838

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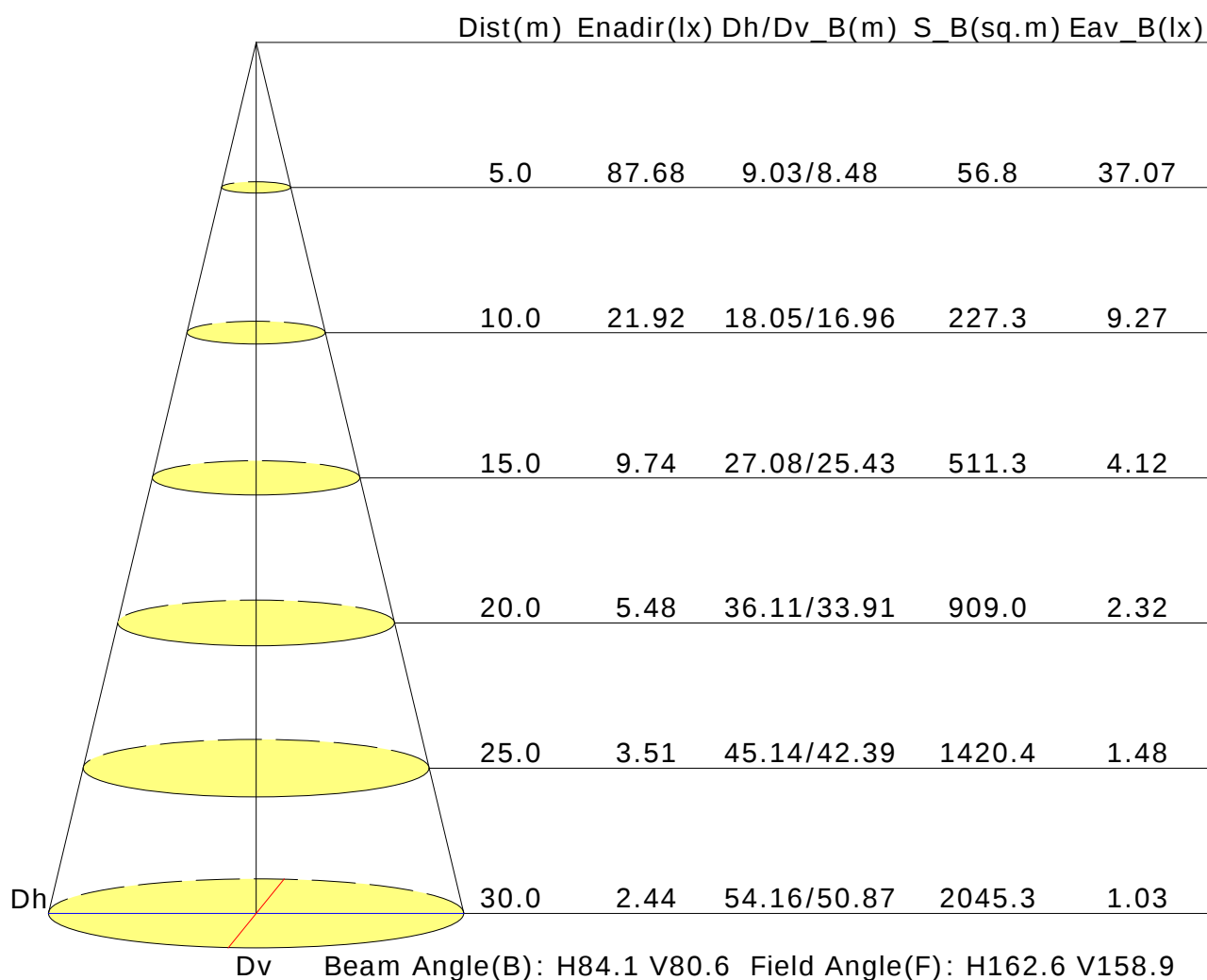
Test Device: LSG-1800B

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	15.2	16.5	15.5	16.7	16.9	14.8	16.0	15.1	16.3	16.5
3H	16.7	17.9	17.0	18.1	18.4	16.2	17.4	16.5	17.6	17.9
4H	17.6	18.7	17.9	19.0	19.3	17.0	18.1	17.3	18.3	18.6
6H	18.6	19.6	18.9	19.9	20.2	17.8	18.8	18.1	19.1	19.4
8H	19.0	20.0	19.4	20.3	20.7	18.1	19.1	18.5	19.4	19.7
12H	19.4	20.3	19.8	20.7	21.0	18.3	19.3	18.7	19.6	20.0
X=4H Y=2H	15.6	16.7	16.0	17.0	17.3	15.3	16.4	15.6	16.6	16.9
3H	17.4	18.3	17.8	18.7	19.0	17.0	17.9	17.4	18.2	18.6
4H	18.5	19.3	18.9	19.7	20.0	17.9	18.7	18.3	19.1	19.5
6H	19.6	20.4	20.1	20.8	21.2	18.8	19.6	19.3	20.0	20.4
8H	20.2	20.9	20.6	21.3	21.7	19.3	20.0	19.7	20.4	20.8
12H	20.6	21.2	21.1	21.7	22.1	19.6	20.2	20.0	20.6	21.1
X=8H Y=4H	18.7	19.4	19.2	19.8	20.3	18.2	18.9	18.7	19.3	19.8
6H	20.1	20.7	20.6	21.1	21.6	19.4	19.9	19.8	20.4	20.8
8H	20.8	21.3	21.3	21.7	22.2	19.9	20.4	20.4	20.9	21.3
12H	21.3	21.8	21.8	22.3	22.8	20.3	20.8	20.8	21.2	21.7
X=12H Y=4H	18.8	19.4	19.2	19.8	20.3	18.3	18.9	18.8	19.4	19.8
6H	20.2	20.7	20.7	21.1	21.6	19.5	20.0	20.0	20.4	20.9
8H	20.9	21.3	21.4	21.8	22.3	20.1	20.5	20.6	21.0	21.5
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.4/-0.7					+0.4/-0.7				
S=2.0H	+0.6/-0.9					+0.5/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 4469lm ($8\log(F/F_0) = 5.2$).

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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 = 1.00									
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	0.62	0.72	0.78	0.83	0.90	0.94	0.97	1.01	1.04	
	0.30		0.55	0.65	0.71	0.76	0.84	0.89	0.92	0.97	1.01	
	0.20		0.50	0.59	0.66	0.71	0.79	0.84	0.88	0.94	0.98	
0.50	0.50	0.20	0.61	0.70	0.76	0.80	0.86	0.91	0.93	0.97	1.00	
	0.30		0.54	0.63	0.70	0.75	0.81	0.86	0.89	0.94	0.97	
	0.20		0.49	0.59	0.65	0.70	0.77	0.82	0.86	0.91	0.94	
0.30	0.50	0.20	0.59	0.68	0.73	0.78	0.83	0.87	0.90	0.94	0.96	
	0.30		0.53	0.62	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
	0.20		0.49	0.58	0.64	0.69	0.76	0.80	0.84	0.88	0.91	
0.00	0.00	0.00	0.47	0.56	0.62	0.66	0.72	0.77	0.80	0.84	0.87	
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 = 1.00									
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	0.76	0.65	0.57	0.45	0.38	0.33	0.25	0.21	
	0.30		0.76	0.65	0.56	0.50	0.41	0.35	0.30	0.24	0.20	
	0.20		0.65	0.56	0.50	0.45	0.37	0.32	0.28	0.23	0.19	
0.50	0.50	0.20	0.88	0.72	0.62	0.54	0.43	0.39	0.31	0.24	0.20	
	0.30		0.75	0.63	0.55	0.48	0.40	0.33	0.29	0.23	0.19	
	0.20		0.65	0.56	0.49	0.44	0.36	0.31	0.27	0.22	0.18	
0.30	0.50	0.20	0.85	0.69	0.59	0.52	0.41	0.34	0.29	0.23	0.19	
	0.30		0.73	0.61	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.64	0.55	0.48	0.43	0.35	0.30	0.26	0.21	0.18	
0.00	0.00	0.00	0.53	0.44	0.38	0.34	0.28	0.23	0.20	0.16	0.13	
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 = 1.00									
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	0.21	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	0.14	0.16	0.17	
0.50	0.50	0.20	0.15	0.17	0.18	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	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.20	
	0.30		0.09	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:36W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												