

Report No.: 1

Test Time: 14.11.2019 19:45

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 (50) 4x24LED 0,3A 32W 4000K microprisma

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 50

Voltage: 221.4 V

Current: 0.151 A

Power: 32.88 W

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Measurement Flux: 4069.2 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 4069.2 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.1, 158.8, 151.4, 152.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 82.9, 79.0, 77.1, 77.0

Luminaire Efficacy Rating (LER): 123.81

Central Intensity: 2024.9 cd

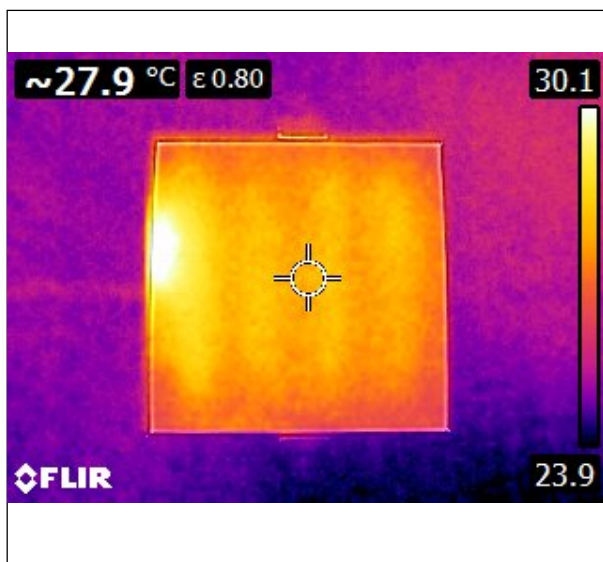
Max. Intensity: 2026.9 cd

Pos of Max. Intensity: H315 V1

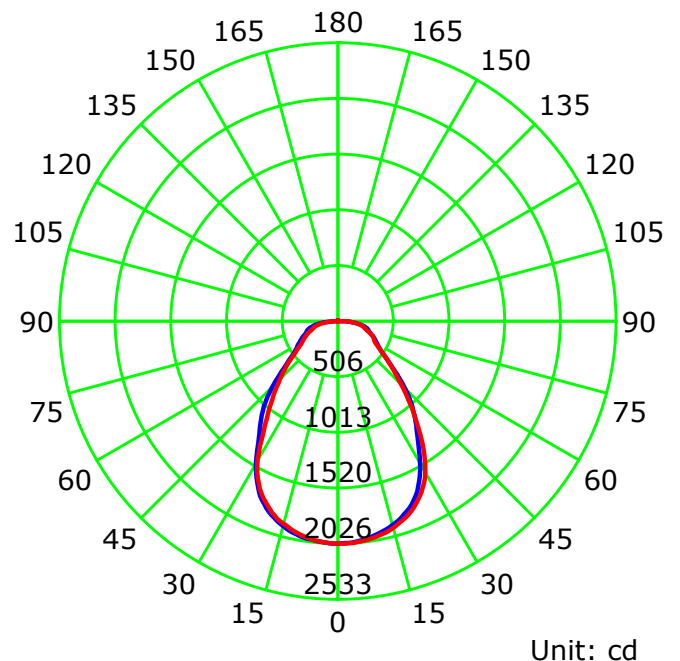
S/MH(C0/C180): 1.12

S/MH(C90/C270): 1.14

Termogramma



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

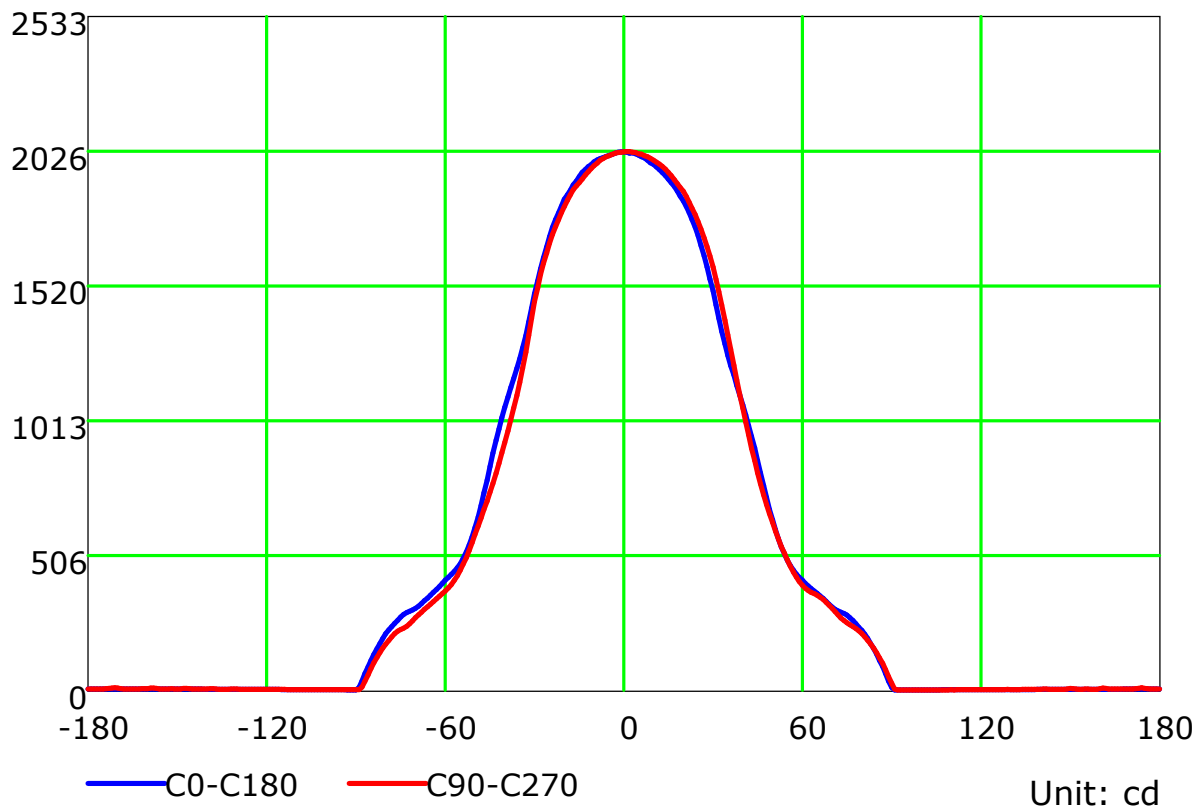
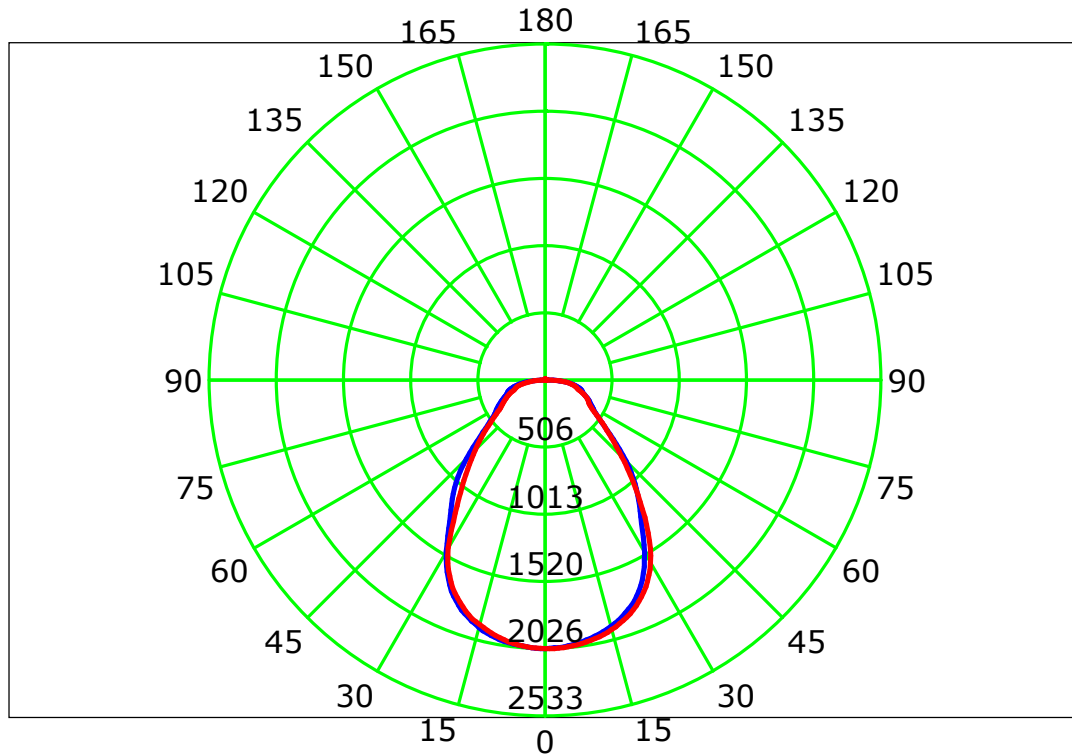
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

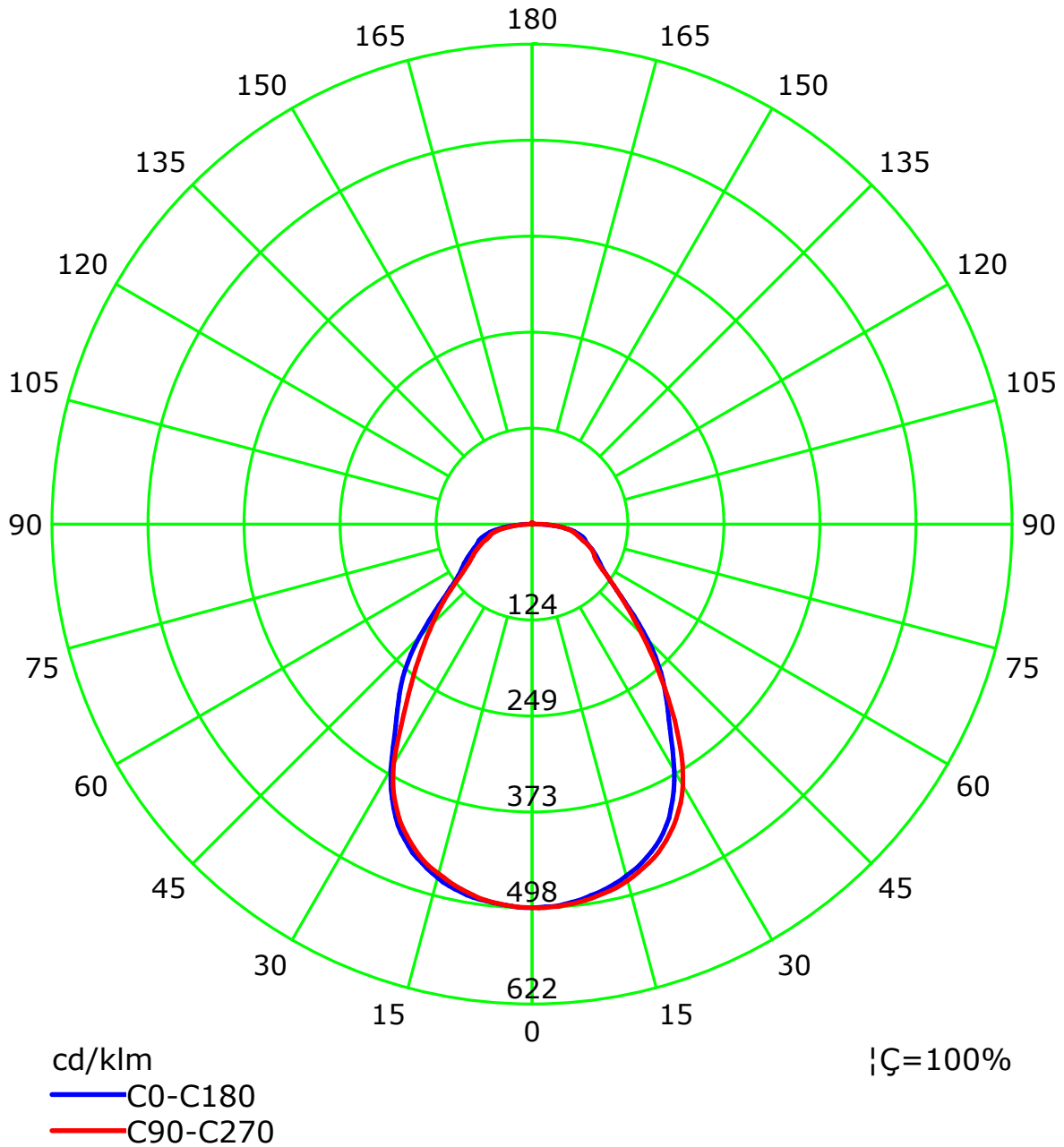
Luminous Intensity Distribution Curve



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)

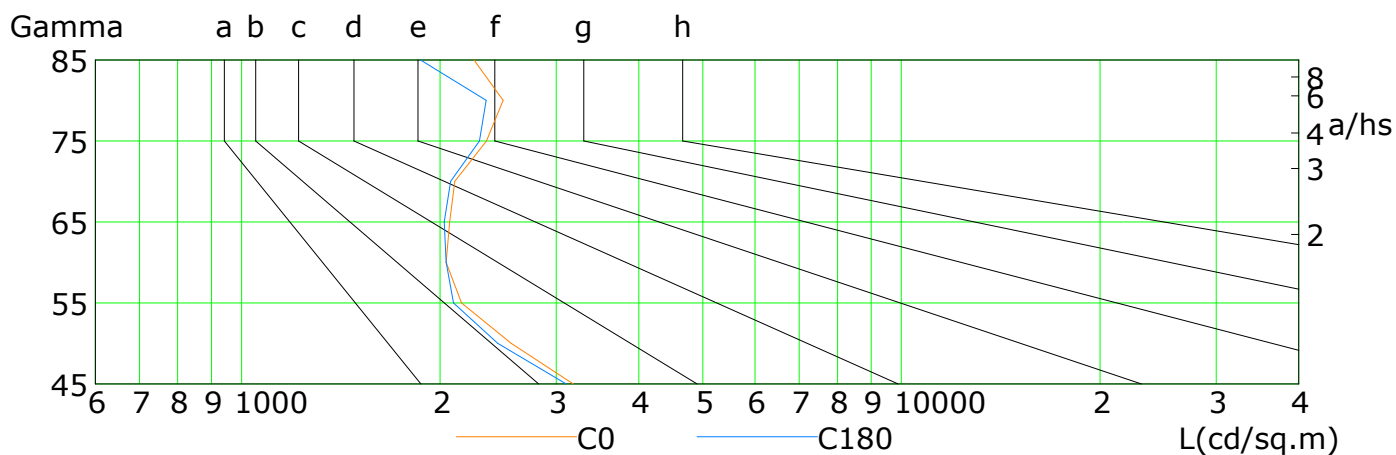
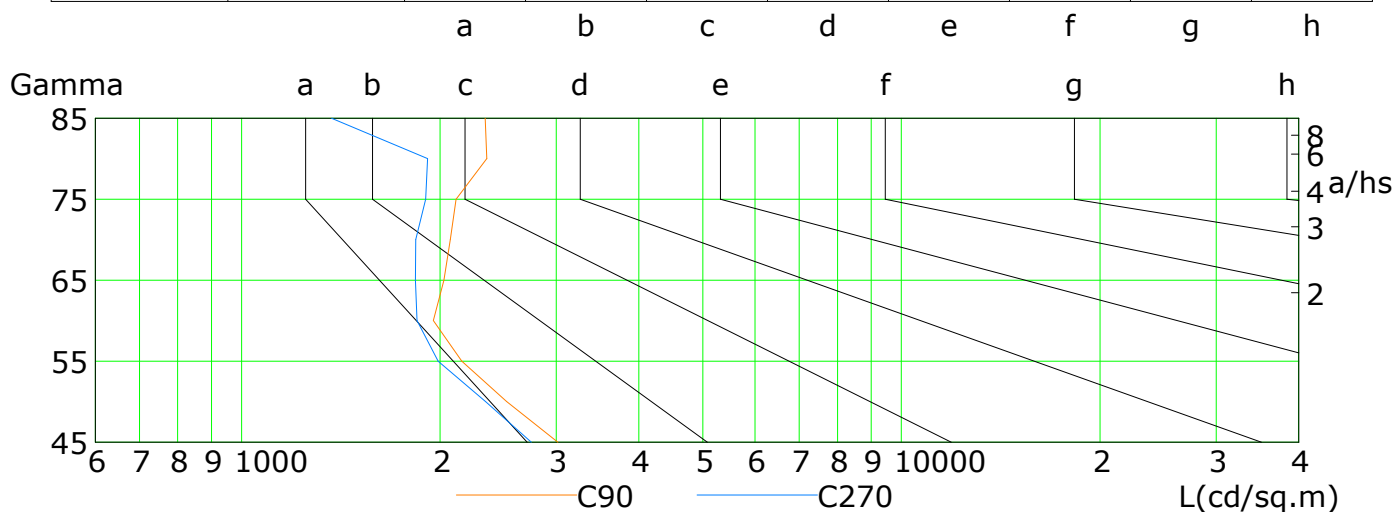


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

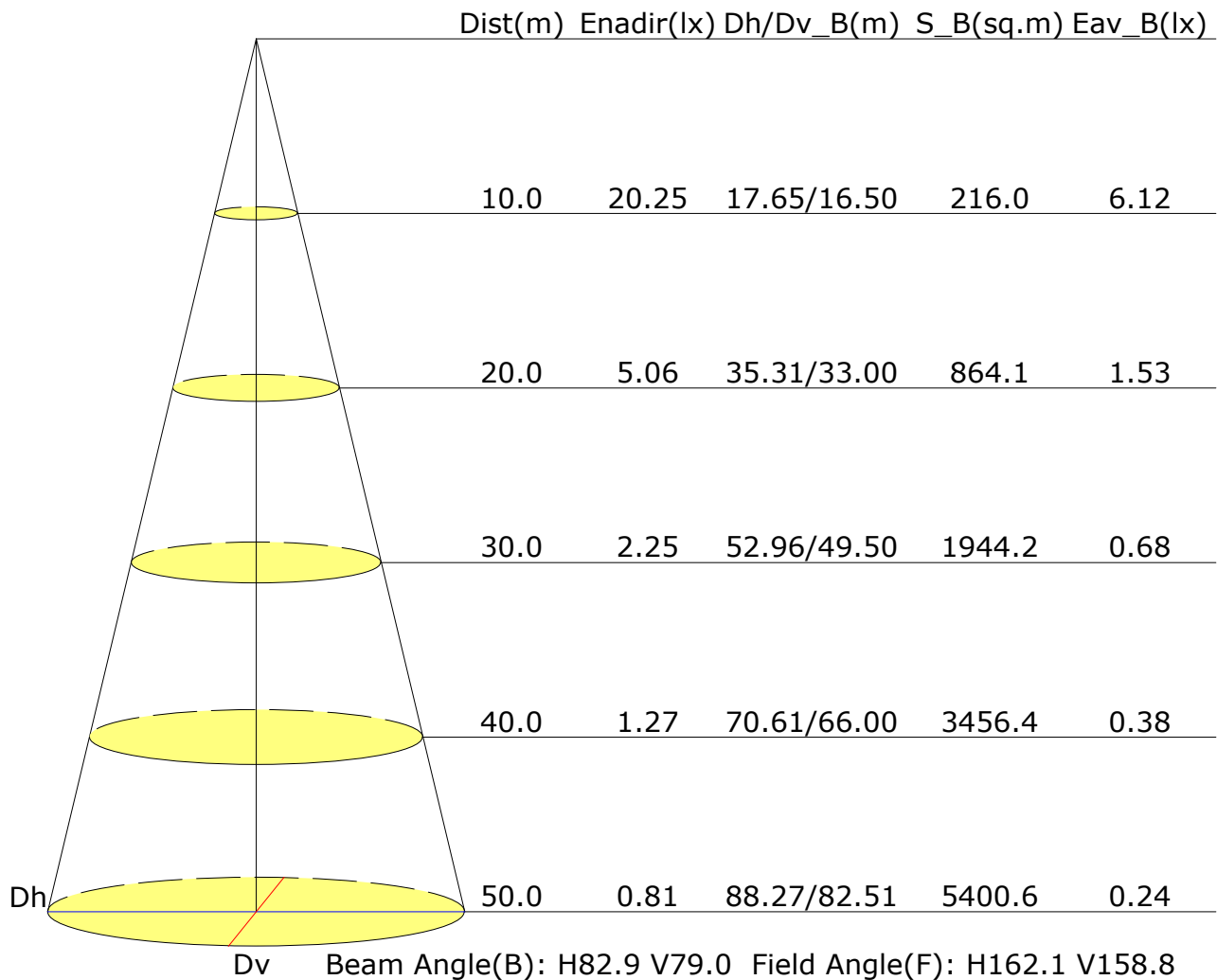


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3182	2562	2153	2042	2068	2104	2350	2490	2250
C90	3016	2521	2156	1953	2026	2071	2113	2353	2340
C180	3104	2443	2095	2043	2028	2074	2293	2348	1867
C270	2747	2343	1987	1844	1835	1837	1902	1913	1369

C Plane (°):0.0-360.0: 22.5
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 Temperature:
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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	14.5	15.8	14.8	16.0	16.3	14.3	15.6	14.6	15.8	16.0
3H	16.1	17.2	16.4	17.5	17.8	15.8	16.9	16.1	17.2	17.5
4H	17.0	18.0	17.3	18.3	18.6	16.5	17.6	16.9	17.9	18.2
6H	17.9	18.9	18.2	19.2	19.5	17.3	18.3	17.7	18.6	19.0
8H	18.3	19.3	18.6	19.6	19.9	17.7	18.6	18.0	19.0	19.3
12H	18.6	19.5	19.0	19.9	20.2	17.9	18.9	18.3	19.2	19.6
X=4H Y=2H	15.0	16.1	15.3	16.4	16.7	14.8	15.9	15.1	16.2	16.5
3H	16.8	17.7	17.2	18.0	18.4	16.5	17.4	16.9	17.8	18.1
4H	17.8	18.7	18.2	19.0	19.4	17.4	18.3	17.8	18.6	19.0
6H	18.9	19.7	19.4	20.1	20.5	18.4	19.1	18.8	19.5	19.9
8H	19.4	20.1	19.9	20.5	21.0	18.8	19.5	19.3	19.9	20.3
12H	19.8	20.4	20.3	20.9	21.3	19.1	19.8	19.6	20.2	20.6
X=8H Y=4H	18.1	18.8	18.6	19.2	19.7	17.8	18.4	18.2	18.9	19.3
6H	19.4	20.0	19.9	20.4	20.9	18.9	19.4	19.4	19.9	20.4
8H	20.0	20.5	20.5	21.0	21.4	19.4	19.9	19.9	20.4	20.9
12H	20.5	20.9	21.0	21.4	21.9	19.8	20.3	20.3	20.8	21.3
X=12H Y=4H	18.2	18.8	18.6	19.2	19.7	17.8	18.4	18.3	18.9	19.3
6H	19.5	20.0	20.0	20.4	20.9	19.0	19.5	19.5	19.9	20.4
8H	20.1	20.5	20.6	21.0	21.5	19.5	20.0	20.0	20.5	21.0
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.4/-0.6					+0.4/-0.7				
S=2.0H	+0.6/-0.9					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4069lm ($8\log(F/F_0) = 4.9$).

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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	0.89	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	0.90	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		0.50	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	0.93	0.96	
	0.30		0.54	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	0.61	0.66	0.72	0.77	0.80	0.84	0.87	
Rating:33W 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	0.26	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	0.40	0.31	0.24	0.20	
	0.30		0.74	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:33W 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	0.18	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	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	0.13	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	0.12	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		0.10	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	0.11	0.13	0.14	0.15	0.16	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:33W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												