

Report No.: 1

Test Time: 15.11.2019 18:54

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 (50) 4x40LED 0,35A 44W 4000K microprisma

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 50

Voltage: 221.4 V

Current: 0.198 A

Power: 42.88 W

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Measurement Flux: 5419.6 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 5419.6 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.2, 158.9, 151.5, 151.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 82.5, 79.1, 77.1, 77.0

Luminaire Efficacy Rating (LER): 126.44

Central Intensity: 2702.15 cd

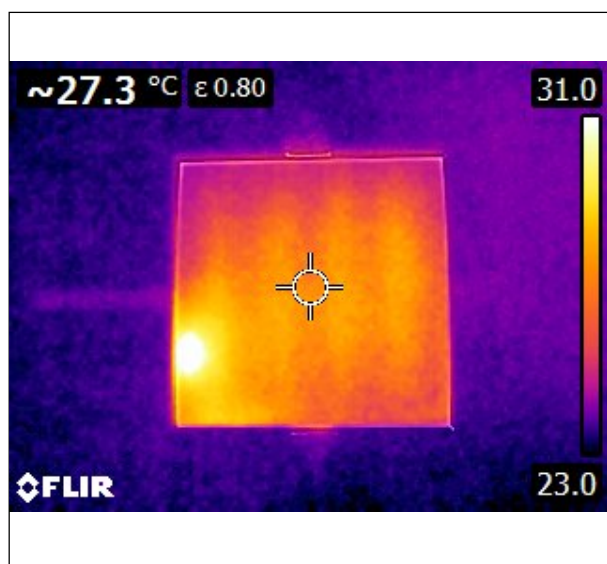
Max. Intensity: 2707.94 cd

Pos of Max. Intensity: H90 V3

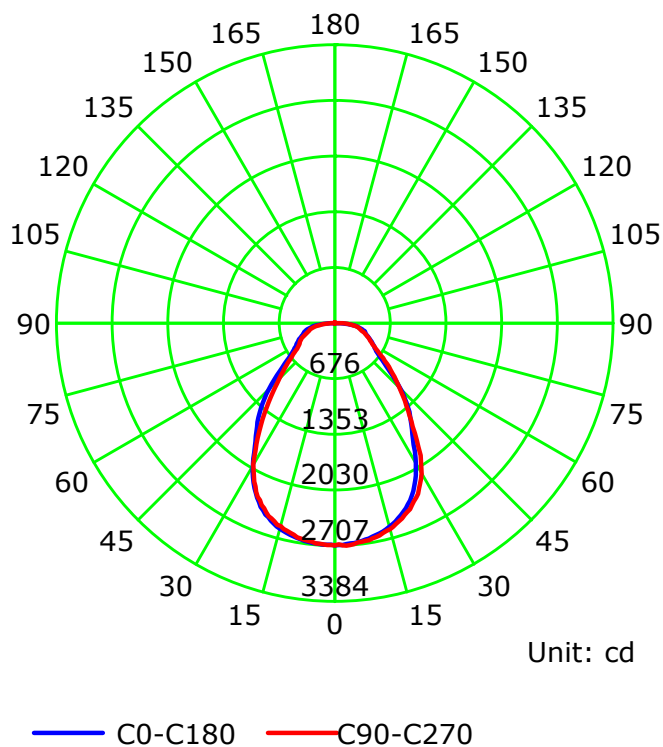
S/MH(C0/C180): 1.12

S/MH(C90/C270): 1.14

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

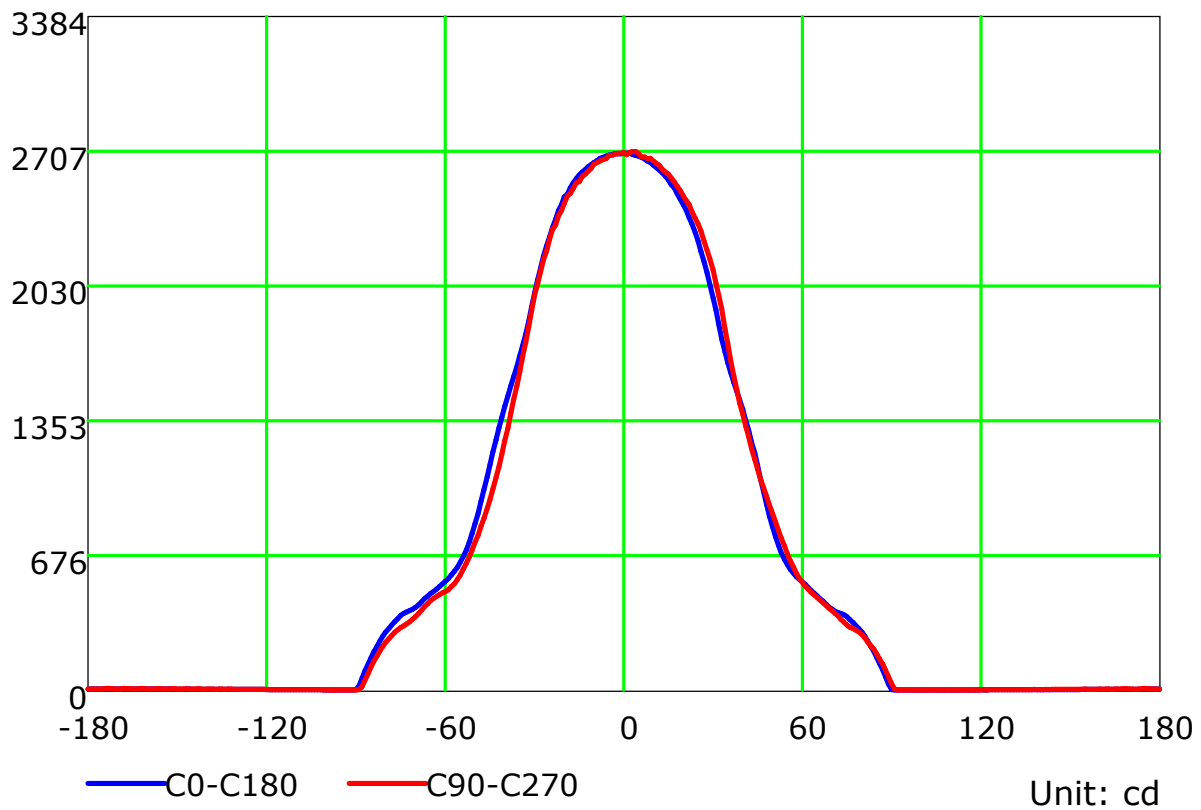
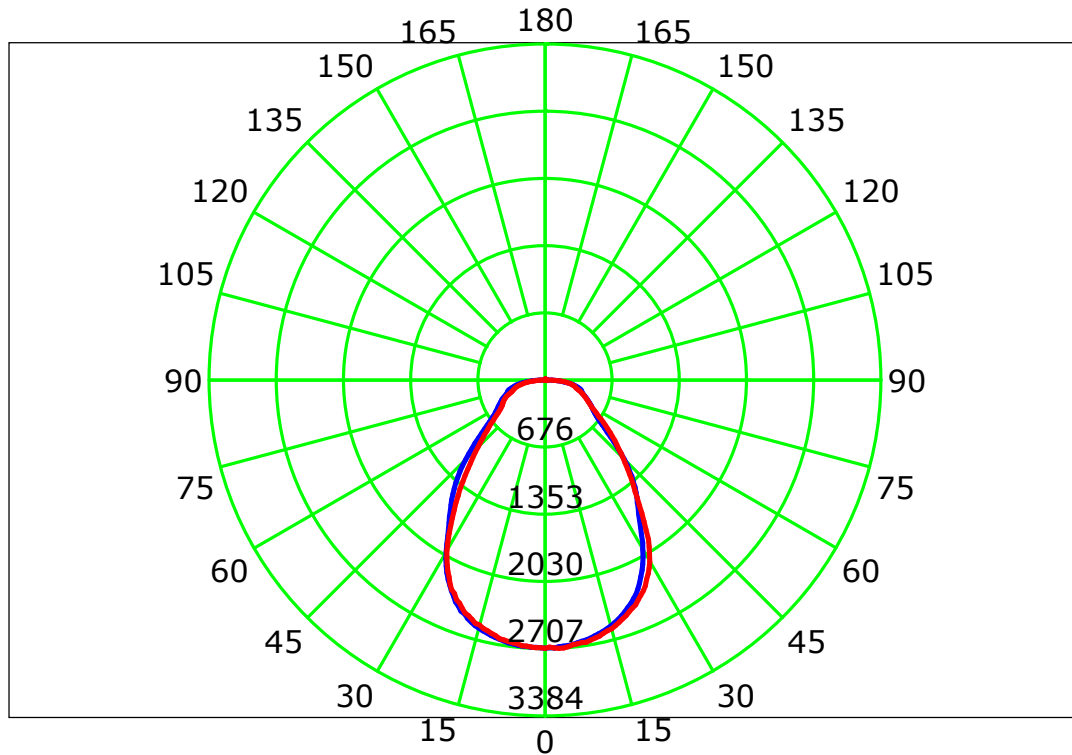
Test Device: LSG-1800B

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

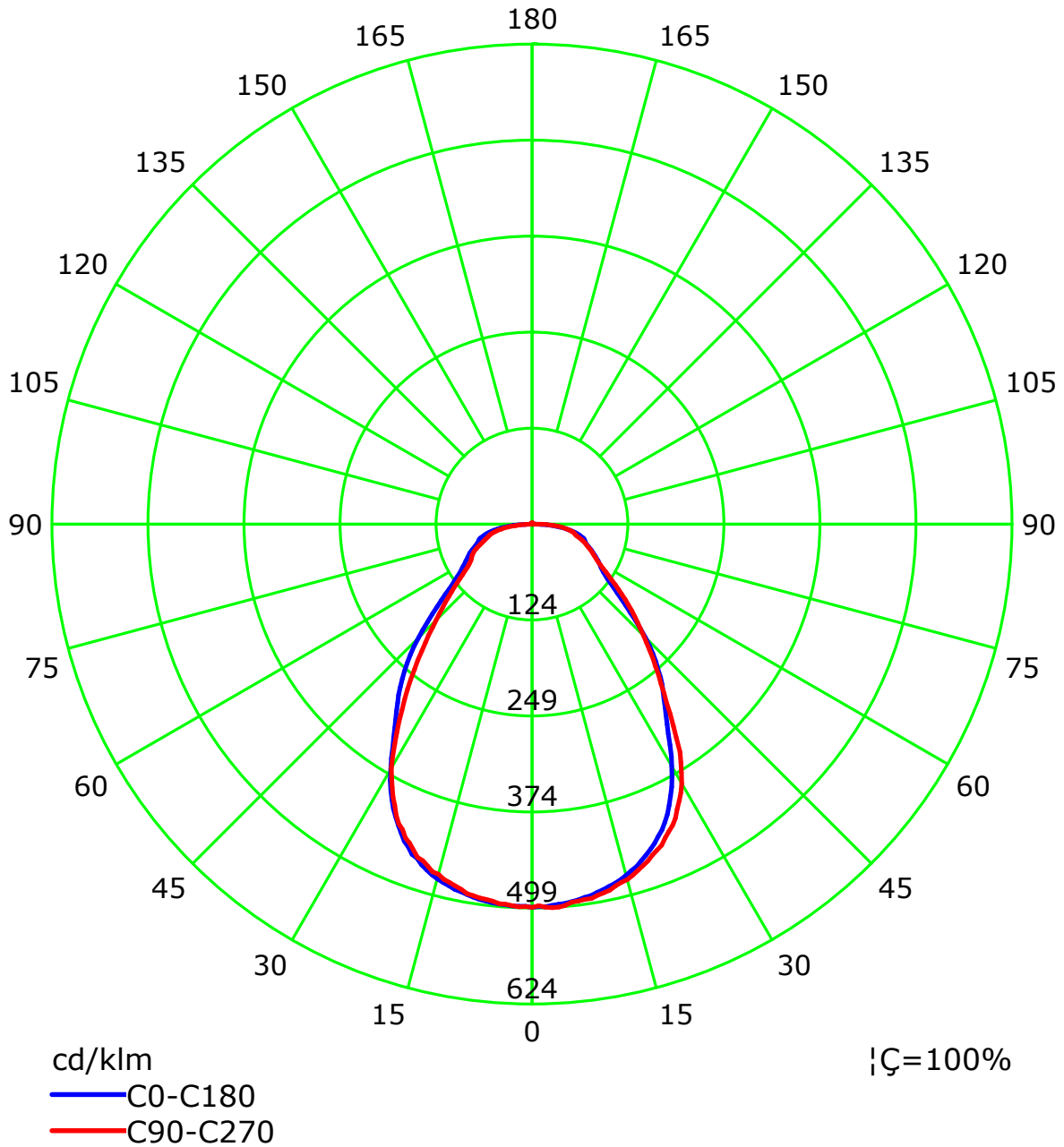
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)

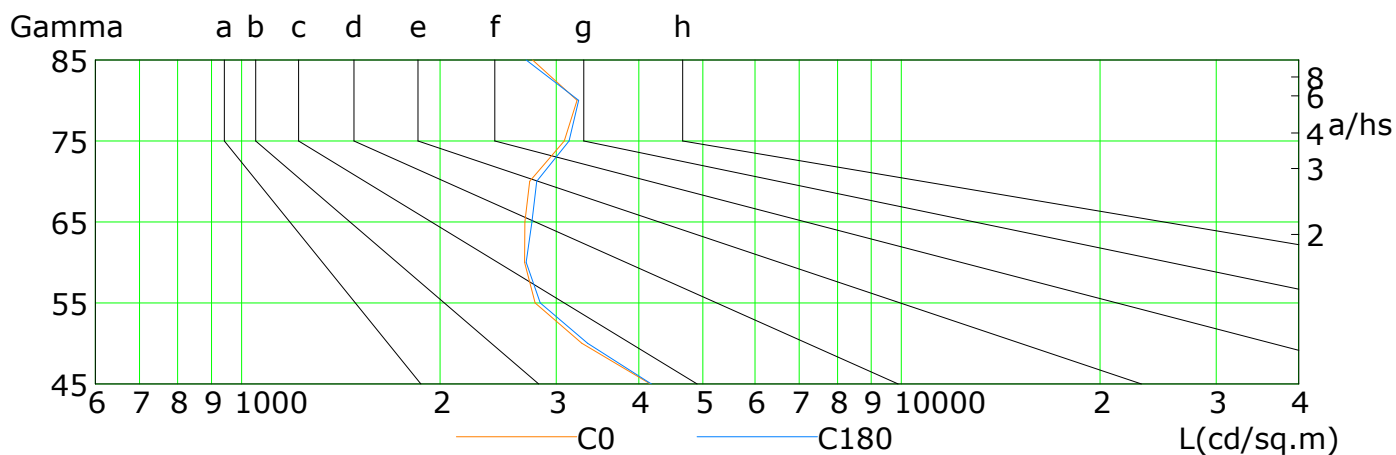
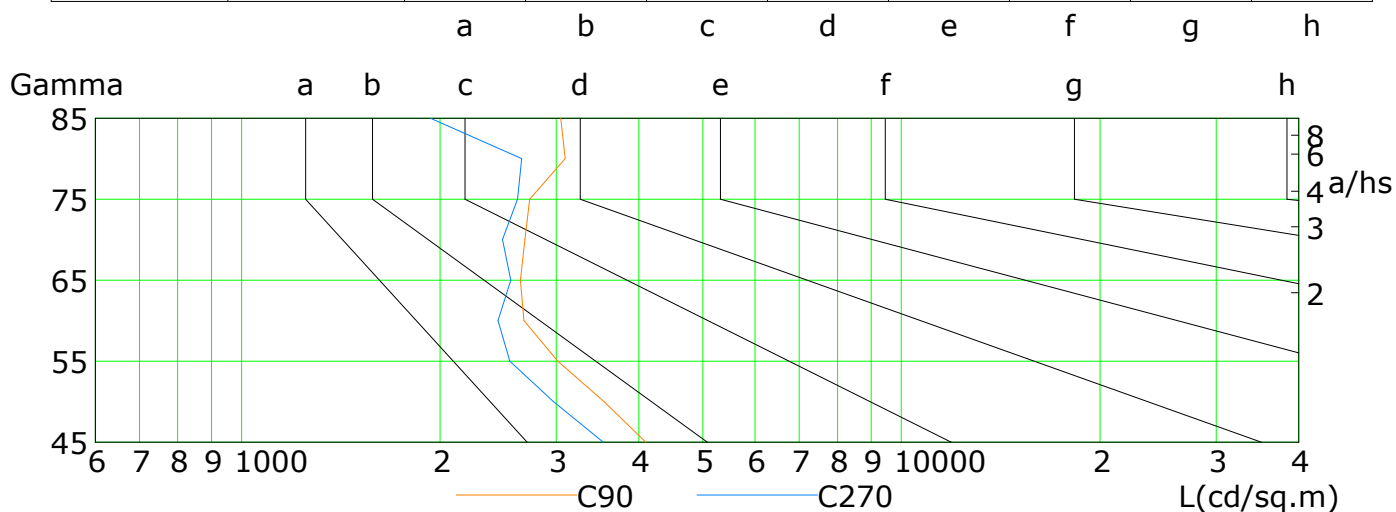


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

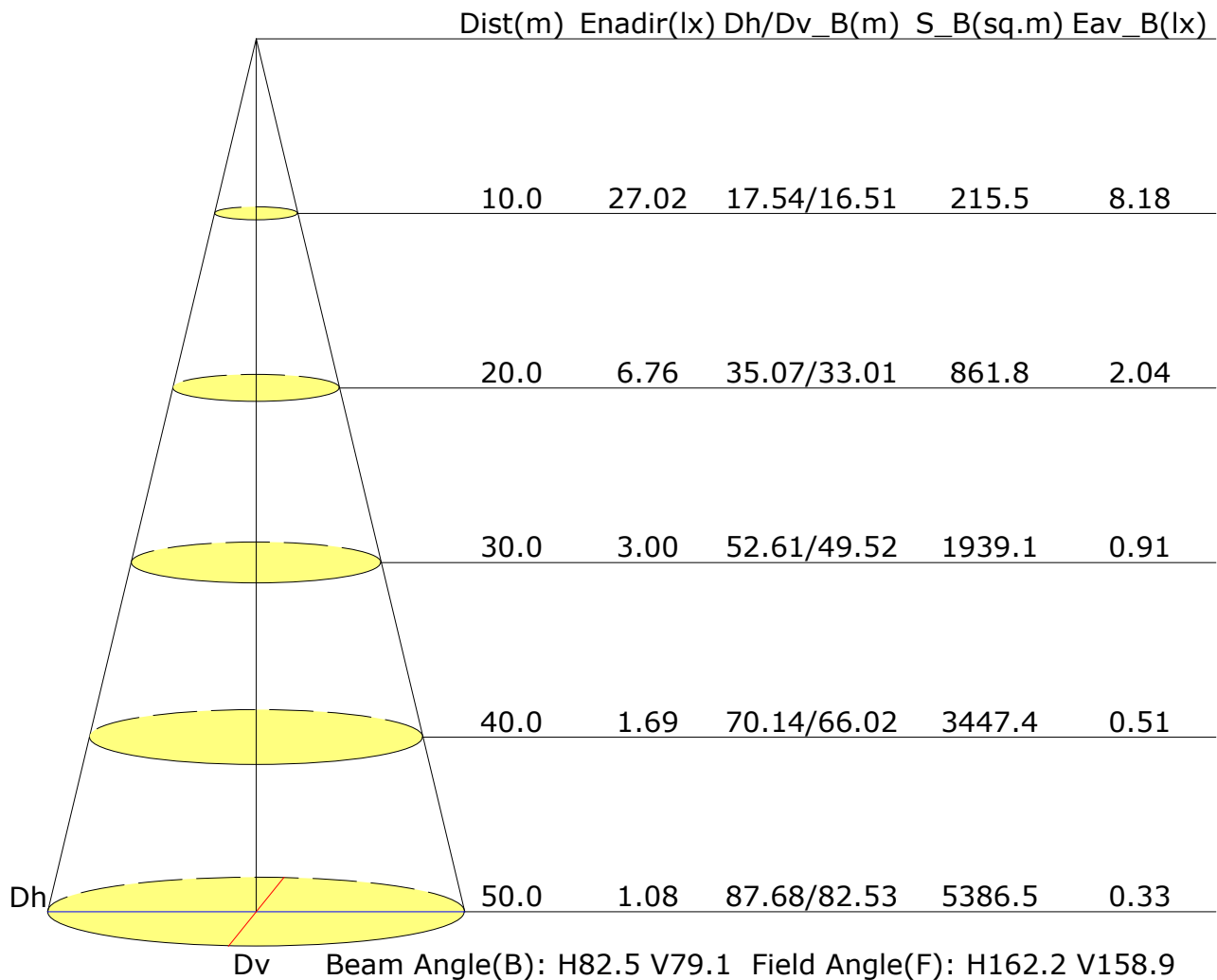


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4166	3277	2785	2684	2689	2733	3085	3225	2760
C90	4100	3541	3014	2680	2645	2689	2734	3094	3045
C180	4180	3345	2835	2699	2754	2800	3135	3241	2701
C270	3535	2968	2551	2447	2558	2485	2620	2659	1934

C Plane (°):0.0-360.0: 22.5
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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	15.4	16.7	15.7	16.9	17.1	15.3	16.5	15.6	16.8	17.0
3H	16.9	18.1	17.2	18.3	18.6	16.7	17.9	17.1	18.2	18.4
4H	17.8	18.9	18.2	19.2	19.5	17.5	18.6	17.8	18.9	19.2
6H	18.7	19.7	19.1	20.1	20.4	18.3	19.3	18.7	19.6	19.9
8H	19.1	20.1	19.5	20.4	20.8	18.6	19.6	19.0	19.9	20.3
12H	19.4	20.3	19.8	20.7	21.0	18.9	19.8	19.3	20.2	20.5
X=4H Y=2H	15.9	16.9	16.2	17.2	17.5	15.8	16.8	16.1	17.1	17.4
3H	17.6	18.6	18.0	18.9	19.3	17.5	18.4	17.8	18.7	19.1
4H	18.7	19.5	19.1	19.9	20.3	18.4	19.2	18.8	19.6	20.0
6H	19.8	20.5	20.2	20.9	21.4	19.3	20.1	19.8	20.5	20.9
8H	20.3	21.0	20.7	21.4	21.8	19.8	20.5	20.2	20.9	21.3
12H	20.6	21.2	21.1	21.7	22.1	20.1	20.7	20.6	21.1	21.6
X=8H Y=4H	19.0	19.7	19.4	20.1	20.5	18.7	19.4	19.1	19.8	20.2
6H	20.3	20.8	20.7	21.3	21.7	19.8	20.4	20.3	20.8	21.3
8H	20.8	21.3	21.3	21.8	22.3	20.3	20.8	20.8	21.3	21.8
12H	21.3	21.7	21.8	22.2	22.7	20.8	21.2	21.3	21.7	22.2
X=12H Y=4H	19.0	19.6	19.5	20.1	20.5	18.7	19.4	19.2	19.8	20.2
6H	20.3	20.8	20.8	21.3	21.8	19.9	20.4	20.4	20.9	21.4
8H	20.9	21.4	21.4	21.8	22.4	20.5	20.9	21.0	21.4	21.9
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					+0.3/-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 5420lm ($8\log(F/F_0) = 5.9$).

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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	0.90	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		0.50	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	0.94	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	0.62	0.66	0.72	0.77	0.80	0.84	0.87	
Rating:43W 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	0.57	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	0.70	0.59	0.52	0.41	0.34	0.30	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:43W 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	0.11	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	0.13	0.15	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.18	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		0.09	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	0.11	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:43W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												