

Report No.: 1

Test Time: 18.11.2019 18:40

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 40LED 0.3A 40W 5000K Griliyto(40) Black microprisma s ottrag.

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 40

Voltage: 221.3 V

Current: 0.178 A

Power: 38.80 W

Power Factor: 0.980

Photometric Results

CIE Class: Direct

Measurement Flux: 4844.9 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 4844.9 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 161.4, 157.4, 150.8, 151.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 82.4, 78.8, 77.8, 77.0

Luminaire Efficacy Rating (LER): 124.92

Central Intensity: 2425.48 cd

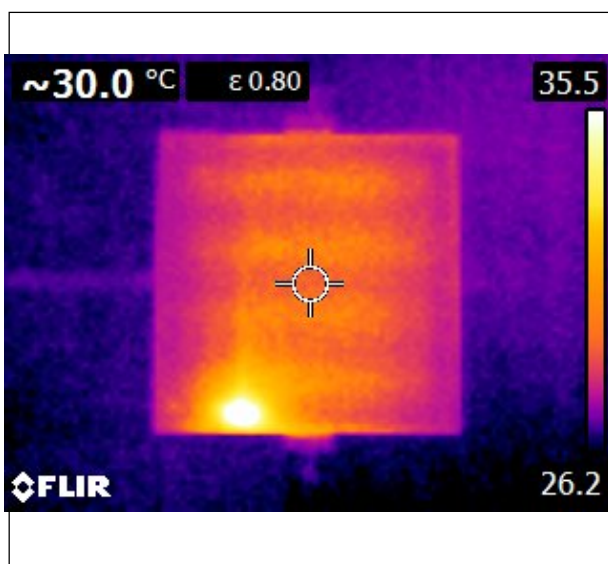
Max. Intensity: 2426.07 cd

Pos of Max. Intensity: H202.5 V1

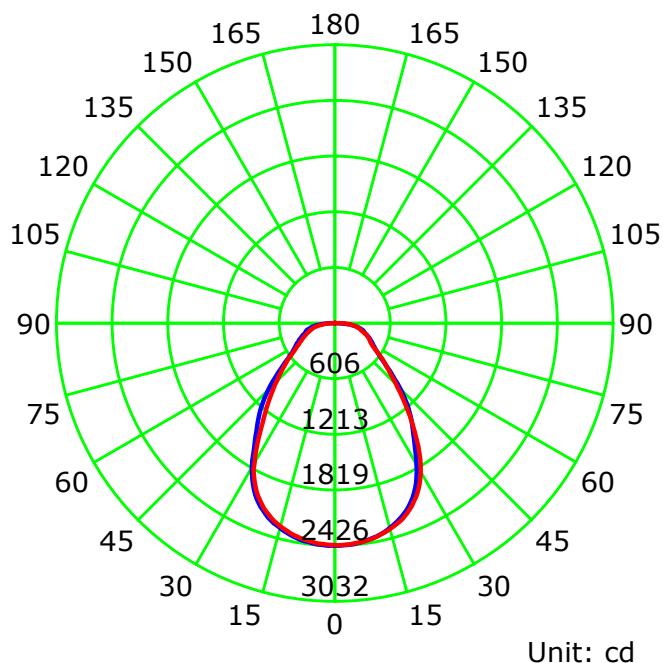
S/MH(C0/C180): 1.13

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

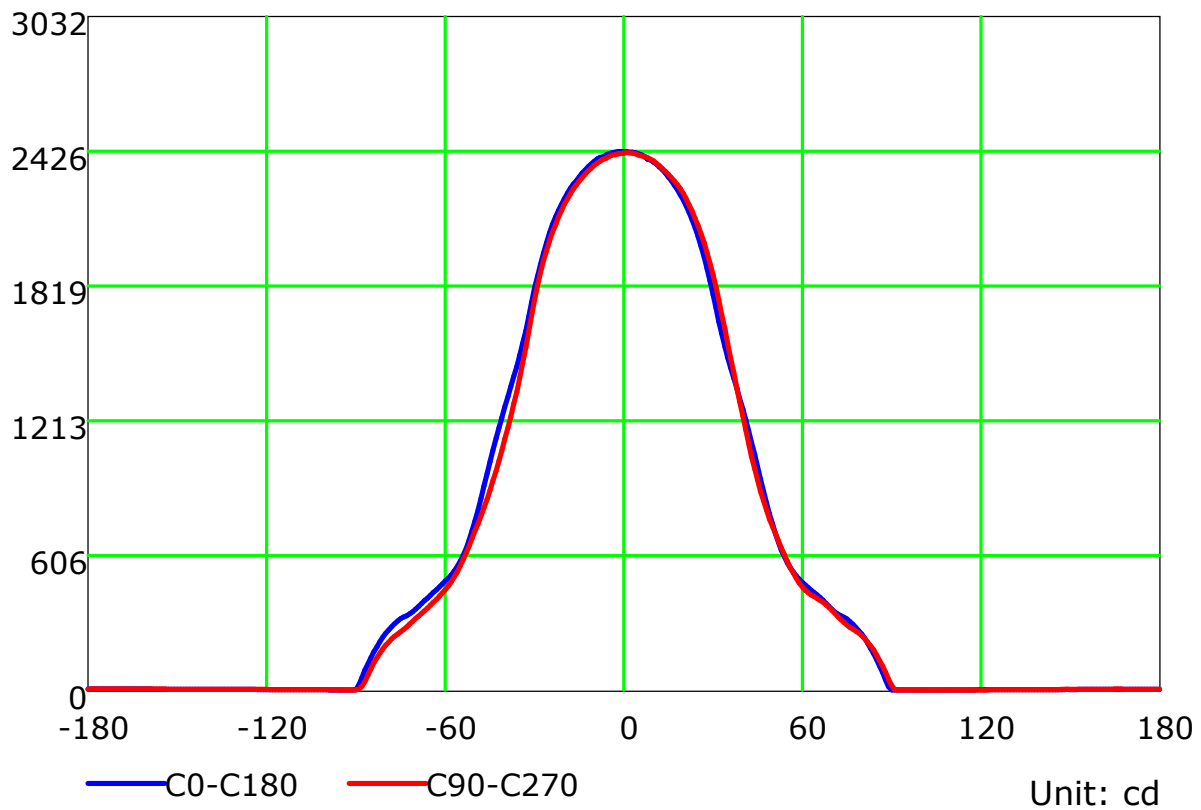
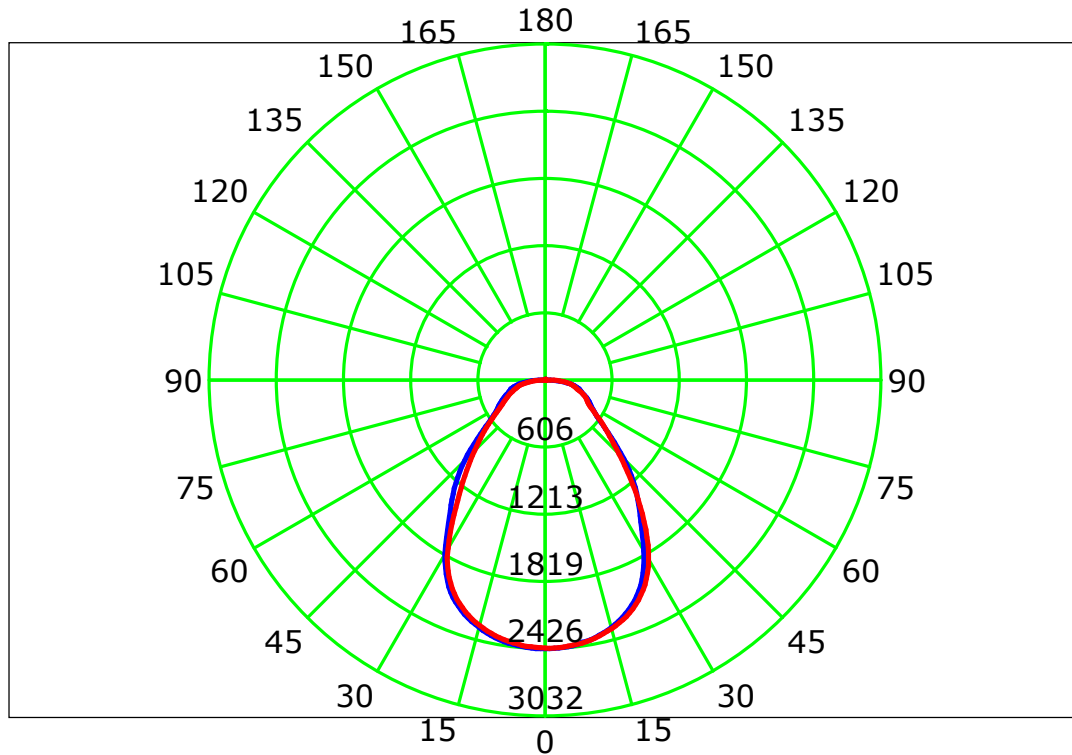
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

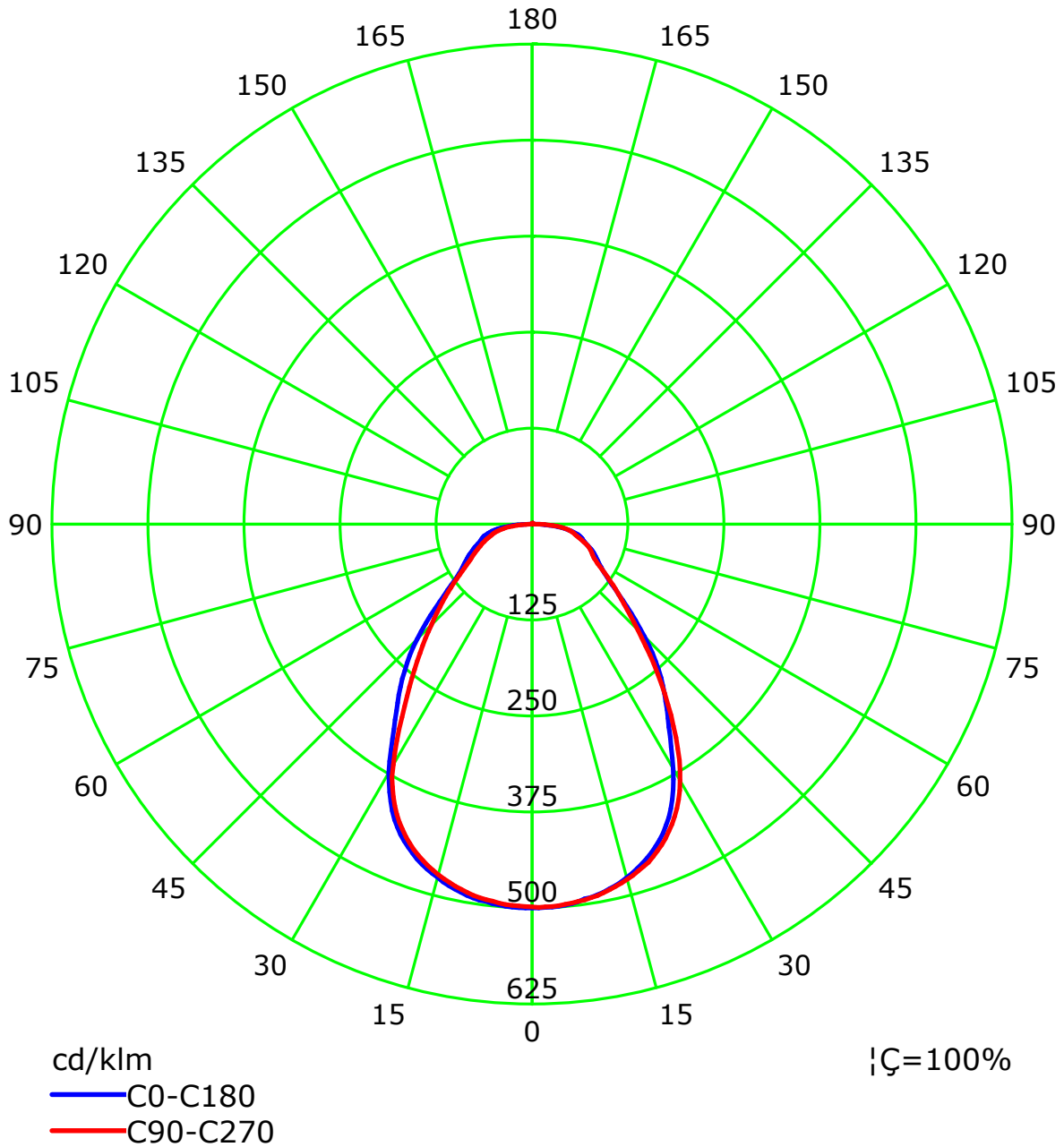
Luminous Intensity Distribution Curve



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)

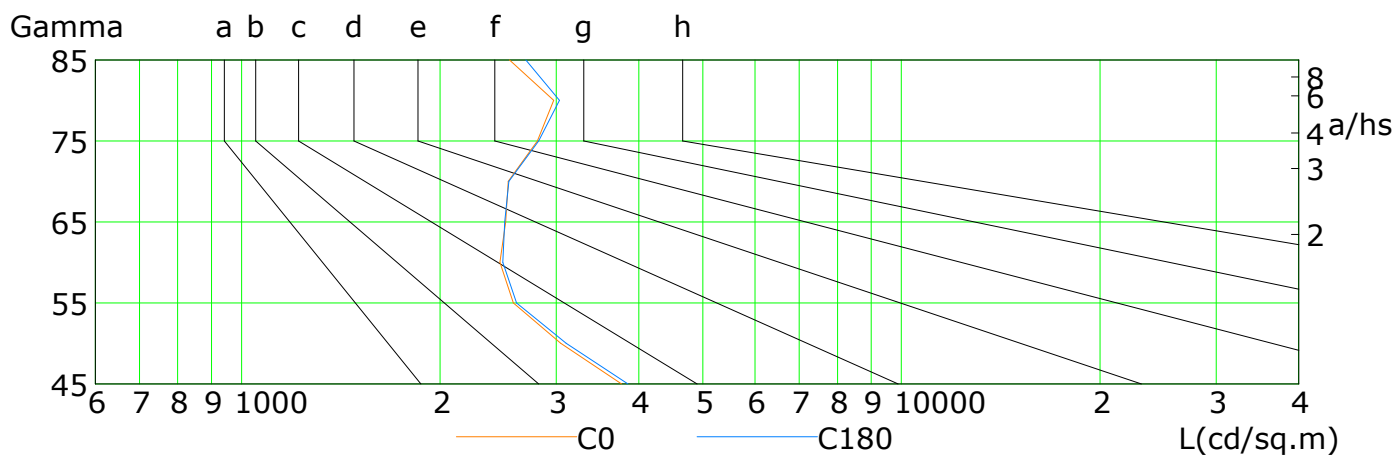
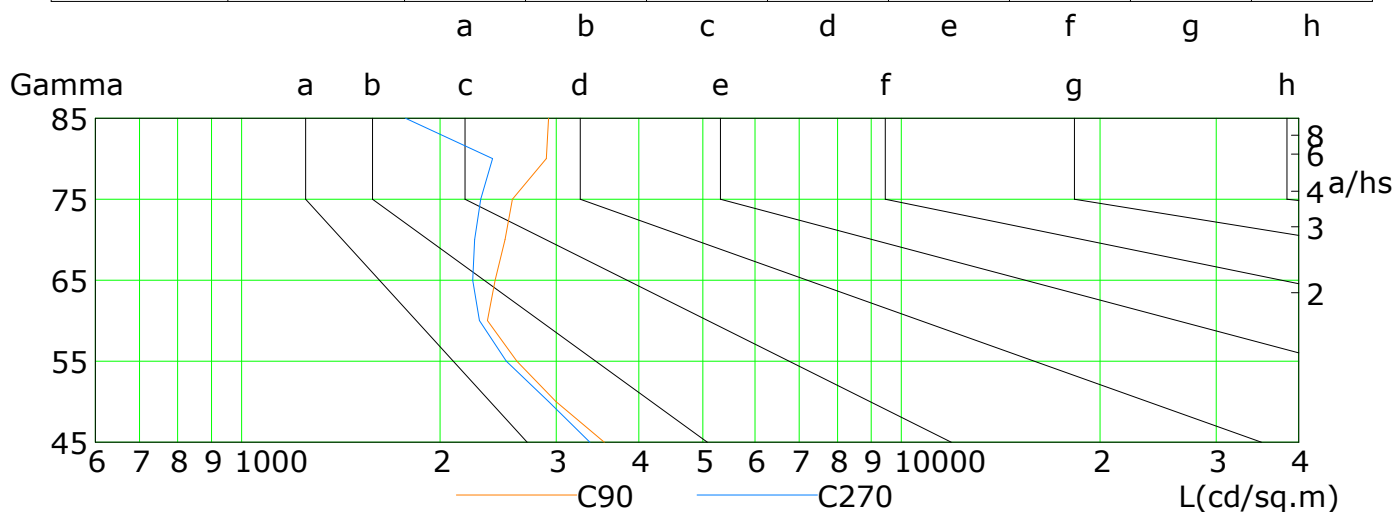


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

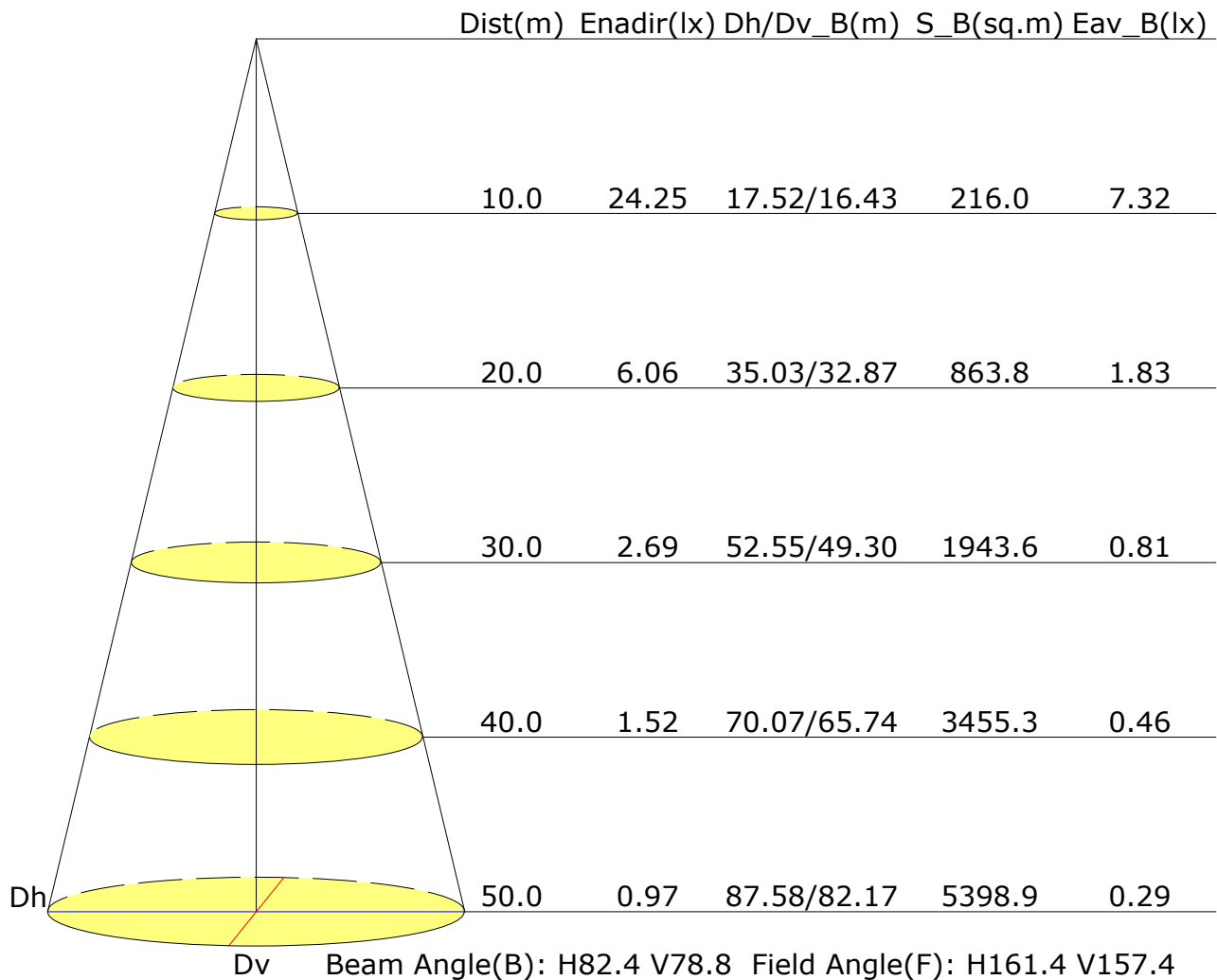


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3764	3046	2582	2462	2513	2536	2808	2973	2549
C90	3544	2997	2613	2359	2422	2509	2572	2898	2919
C180	3850	3103	2610	2489	2505	2542	2818	3032	2698
C270	3371	2919	2519	2294	2239	2256	2303	2401	1772

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	15.1	16.4	15.4	16.6	16.9	14.9	16.2	15.2	16.4	16.7
3H	16.6	17.8	17.0	18.1	18.3	16.4	17.5	16.7	17.8	18.1
4H	17.5	18.6	17.9	18.9	19.2	17.1	18.2	17.5	18.5	18.8
6H	18.4	19.4	18.8	19.7	20.1	17.9	18.9	18.3	19.3	19.6
8H	18.8	19.8	19.1	20.1	20.4	18.3	19.3	18.7	19.6	19.9
12H	19.0	20.0	19.4	20.3	20.7	18.6	19.5	18.9	19.8	20.2
X=4H Y=2H	15.6	16.6	15.9	16.9	17.2	15.4	16.5	15.8	16.8	17.1
3H	17.3	18.3	17.7	18.6	19.0	17.1	18.1	17.5	18.4	18.7
4H	18.4	19.2	18.8	19.6	20.0	18.0	18.9	18.4	19.2	19.6
6H	19.5	20.2	19.9	20.6	21.0	19.0	19.7	19.4	20.1	20.5
8H	19.9	20.6	20.3	21.0	21.4	19.4	20.1	19.9	20.5	20.9
12H	20.2	20.9	20.7	21.3	21.7	19.8	20.4	20.2	20.8	21.3
X=8H Y=4H	18.7	19.4	19.1	19.8	20.2	18.4	19.0	18.8	19.5	19.9
6H	19.9	20.5	20.4	20.9	21.4	19.5	20.0	19.9	20.5	20.9
8H	20.5	20.9	20.9	21.4	21.9	20.0	20.5	20.5	21.0	21.5
12H	20.9	21.3	21.4	21.8	22.3	20.4	20.9	20.9	21.4	21.9
X=12H Y=4H	18.7	19.3	19.2	19.8	20.2	18.4	19.0	18.9	19.5	19.9
6H	20.0	20.5	20.5	20.9	21.4	19.6	20.1	20.1	20.5	21.0
8H	20.6	21.0	21.1	21.5	22.0	20.1	20.6	20.6	21.0	21.6
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/-0.8					+0.5/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 4845lm ($8\log(F/F_0) = 5.5$).

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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 = 1.00									
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	0.72	0.77	0.84	0.89	0.93	0.98	1.01	
	0.20		0.50	0.59	0.66	0.72	0.79	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.61	0.70	0.76	0.80	0.86	0.91	0.94	0.97	1.00	
	0.30		0.54	0.64	0.70	0.75	0.82	0.86	0.90	0.94	0.97	
	0.20		0.50	0.59	0.65	0.70	0.77	0.83	0.86	0.91	0.95	
0.30	0.50	0.20	0.60	0.68	0.74	0.78	0.84	0.87	0.90	0.94	0.96	
	0.30		0.54	0.63	0.69	0.73	0.79	0.84	0.87	0.91	0.94	
	0.20		0.49	0.58	0.64	0.69	0.76	0.81	0.84	0.89	0.92	
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:39W 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	0.75	0.64	0.56	0.45	0.38	0.32	0.25	0.21	
	0.30		0.76	0.64	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	0.22	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		0.74	0.63	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
	0.20		0.64	0.55	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	0.51	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	0.54	0.48	0.43	0.35	0.30	0.26	0.21	0.17	
0.00	0.00	0.00	0.53	0.44	0.38	0.34	0.27	0.23	0.20	0.16	0.13	
Rating:39W 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	0.09	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:39W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												