

Report No.: 1

Test Time: 25.10.2019 21:32

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 4x40LED 0,3A 40W 3000K microprisma

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.0 V

Current: 0.180 A

Power: 39.13 W

Power Factor: 0.982

Photometric Results

CIE Class: Direct

Measurement Flux: 4679.9 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 4679.9 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.0, 161.9, 151.1, 151.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 80.6, 83.9, 78.1, 78.7

Luminaire Efficacy Rating (LER): 119.65

Central Intensity: 2316.2 cd

Max. Intensity: 2319.42 cd

Pos of Max. Intensity: H67.5 V1

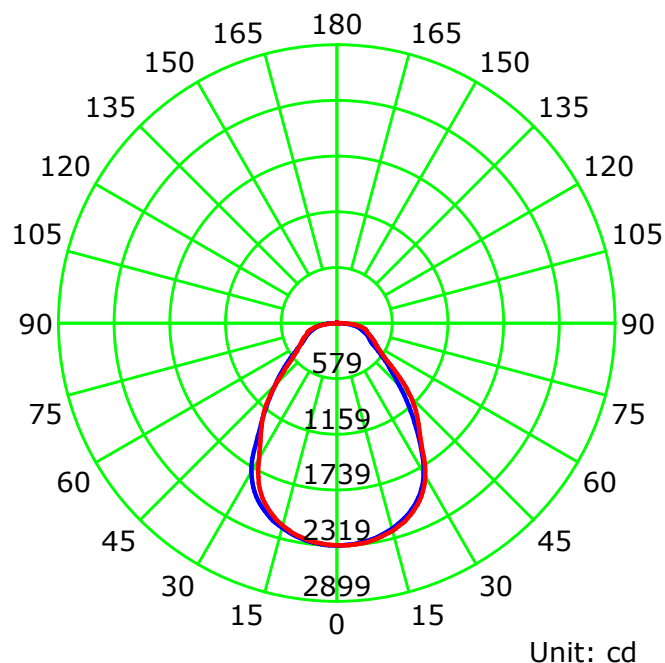
S/MH(C0/C180): 1.16

S/MH(C90/C270): 1.13

Picture Of Luminaire



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

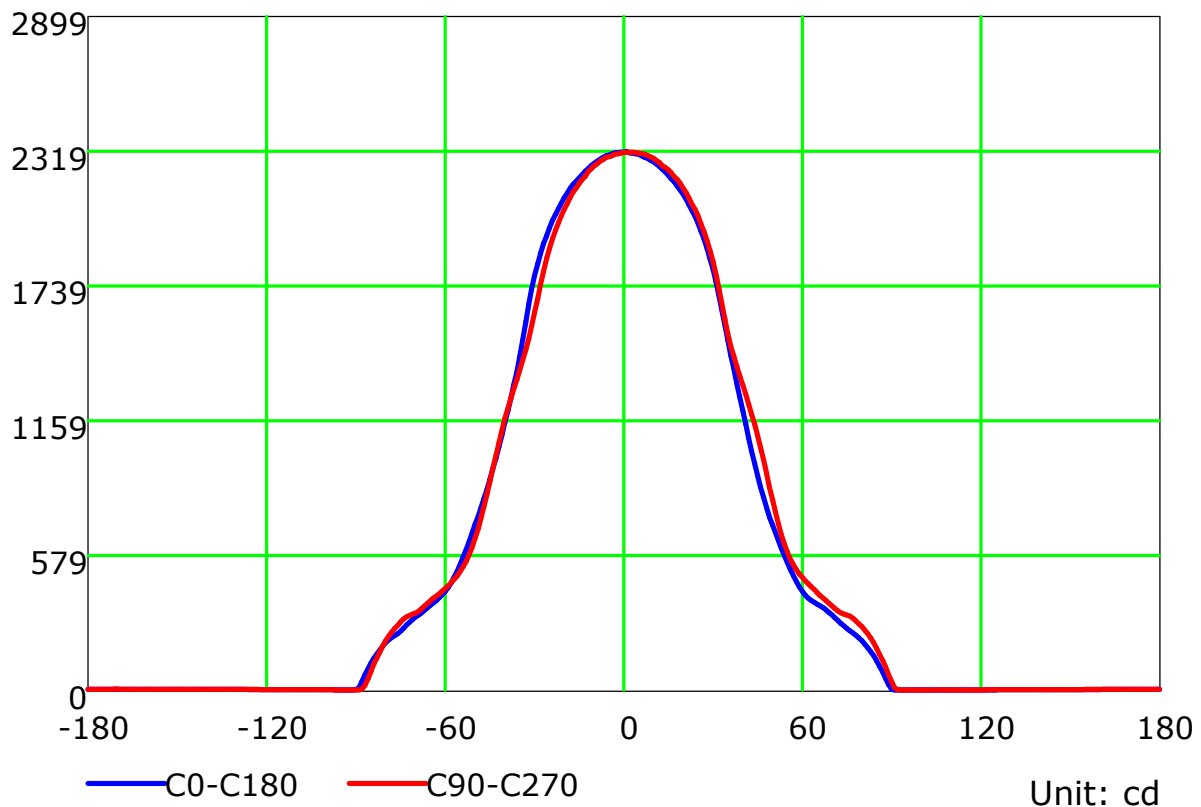
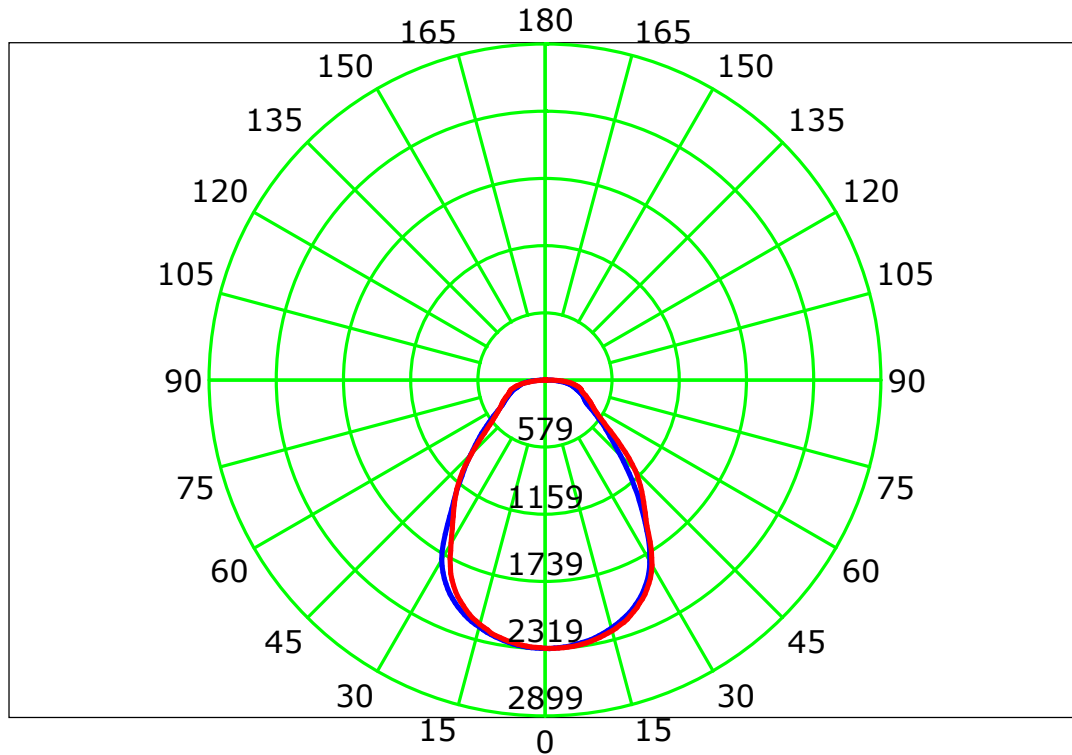
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

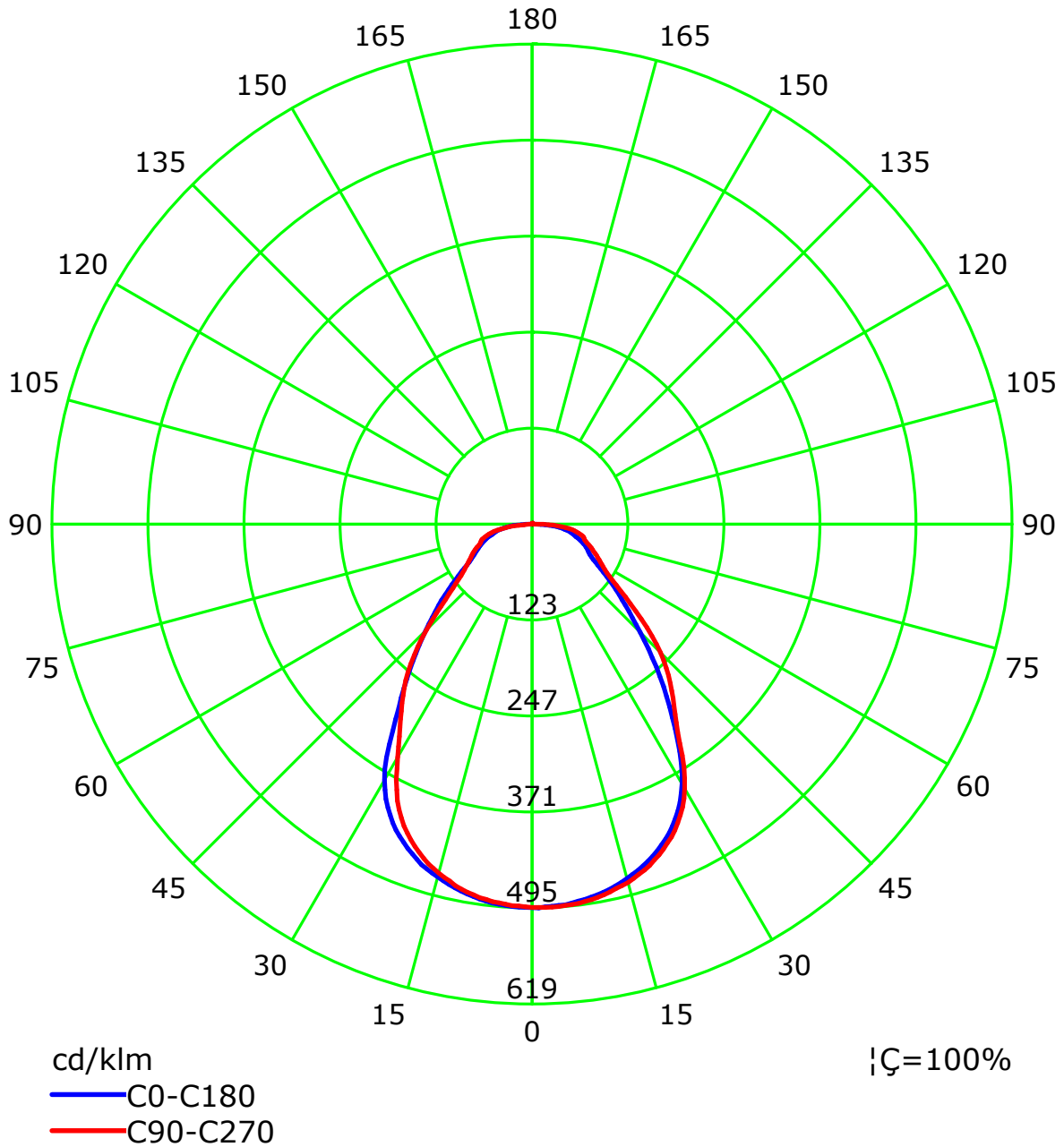
Luminous Intensity Distribution Curve



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)

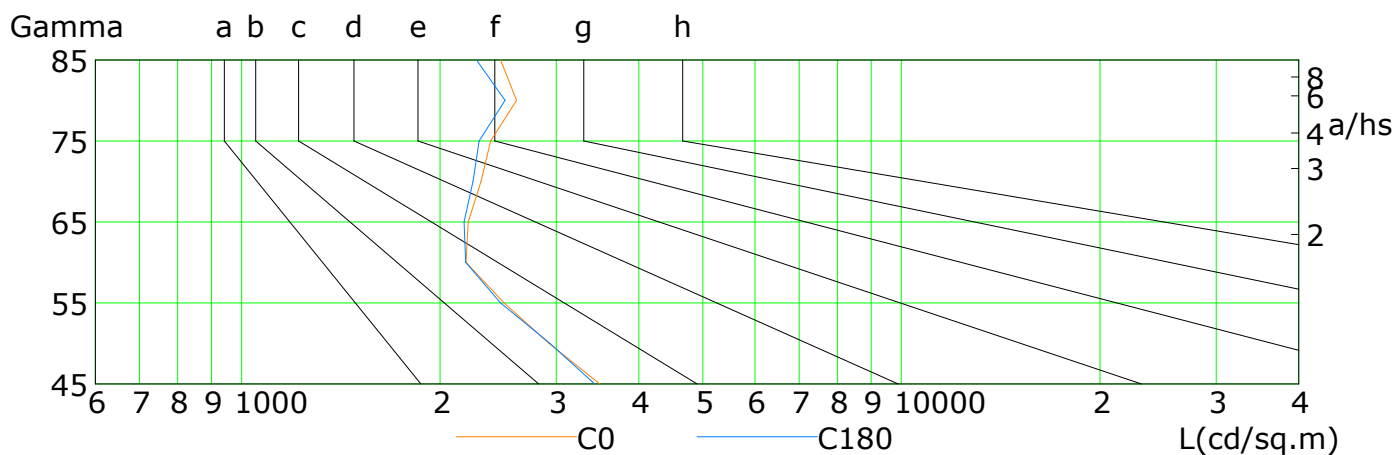
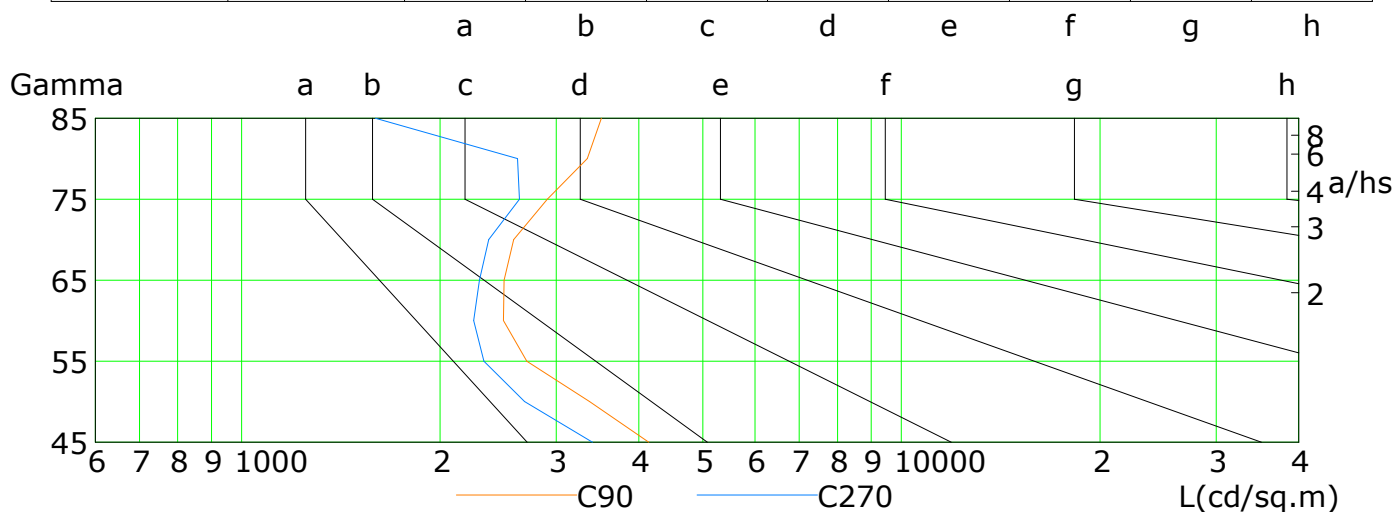


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

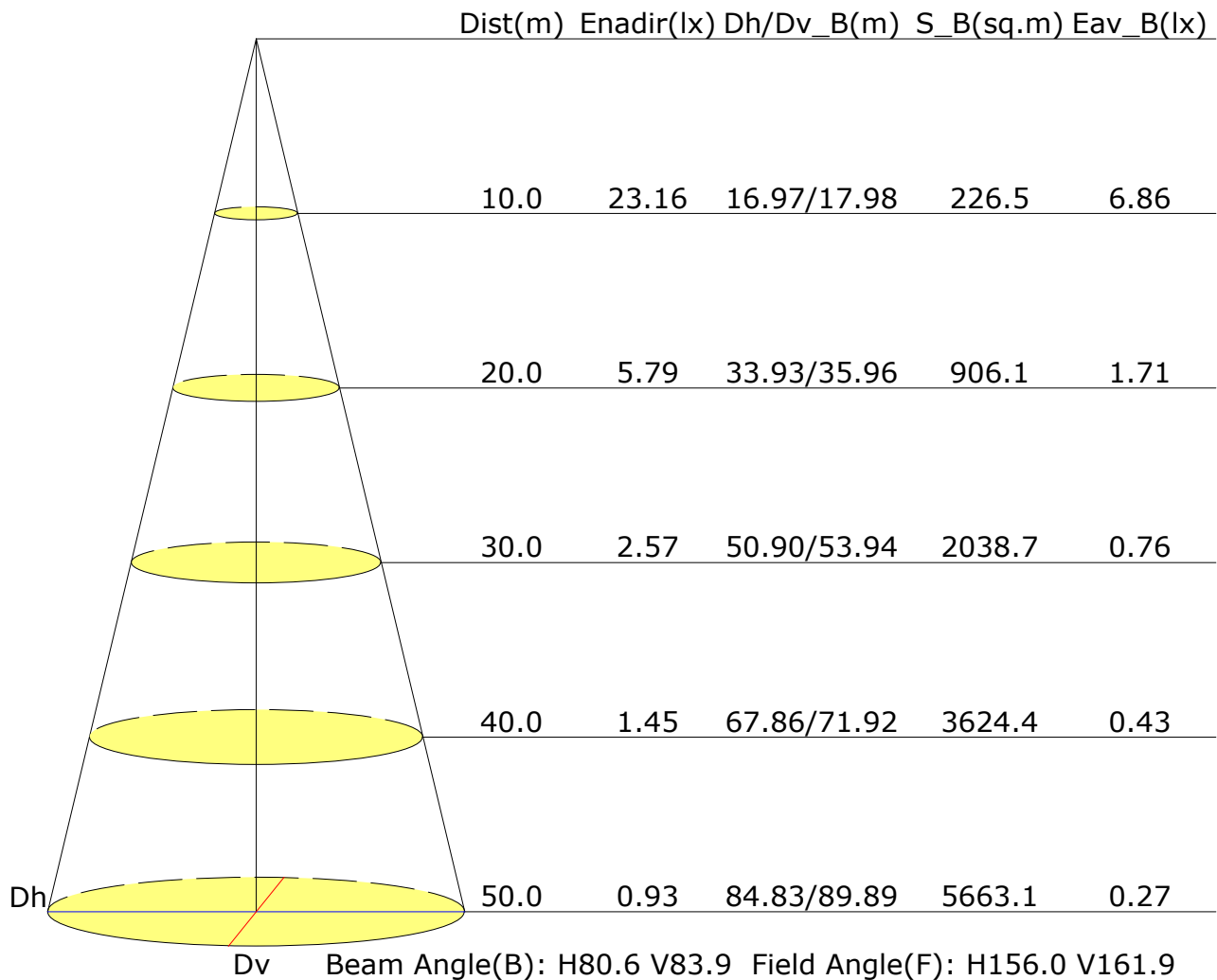


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3489	2922	2499	2188	2204	2307	2385	2611	2468
C90	4140	3368	2706	2493	2499	2585	2905	3343	3509
C180	3430	2933	2470	2186	2175	2244	2292	2507	2271
C270	3402	2684	2329	2248	2294	2369	2638	2619	1596

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:

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	14.9	16.1	15.2	16.4	16.6	15.1	16.4	15.4	16.6	16.9
3H	16.3	17.4	16.6	17.7	18.0	16.6	17.7	16.9	18.0	18.3
4H	17.0	18.1	17.4	18.4	18.7	17.5	18.6	17.8	18.9	19.2
6H	17.8	18.8	18.2	19.1	19.5	18.4	19.4	18.8	19.7	20.0
8H	18.2	19.2	18.5	19.5	19.8	18.8	19.8	19.2	20.1	20.4
12H	18.5	19.4	18.8	19.7	20.1	19.1	20.0	19.5	20.4	20.7
X=4H Y=2H	15.3	16.4	15.7	16.7	17.0	15.5	16.6	15.9	16.9	17.2
3H	17.0	17.9	17.4	18.3	18.6	17.3	18.2	17.7	18.6	18.9
4H	17.9	18.8	18.3	19.1	19.5	18.4	19.2	18.8	19.6	19.9
6H	18.9	19.6	19.3	20.0	20.4	19.5	20.2	19.9	20.6	21.0
8H	19.3	20.0	19.8	20.4	20.8	19.9	20.6	20.4	21.0	21.5
12H	19.7	20.3	20.1	20.7	21.2	20.3	20.9	20.8	21.4	21.8
X=8H Y=4H	18.3	18.9	18.7	19.4	19.8	18.6	19.3	19.1	19.7	20.2
6H	19.4	19.9	19.9	20.4	20.9	19.9	20.5	20.4	20.9	21.4
8H	19.9	20.4	20.4	20.9	21.4	20.5	21.0	21.0	21.5	22.0
12H	20.4	20.8	20.9	21.3	21.8	21.0	21.4	21.5	21.9	22.4
X=12H Y=4H	18.3	18.9	18.8	19.4	19.8	18.7	19.3	19.1	19.7	20.2
6H	19.5	20.0	20.0	20.4	20.9	20.0	20.5	20.5	21.0	21.5
8H	20.1	20.5	20.6	21.0	21.5	20.6	21.1	21.1	21.5	22.1
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					+0.3/-0.7				
S=2.0H	+0.7/-1.0					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4680lm ($8\log(F/F_0) = 5.4$).

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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	0.63	0.72	0.78	0.83	0.90	0.94	0.97	1.02	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	0.60	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	0.87	0.91	0.94	0.97	1.00	
	0.30		0.55	0.64	0.70	0.75	0.82	0.86	0.90	0.94	0.97	
	0.20		0.50	0.59	0.66	0.70	0.78	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	0.80	0.84	0.87	0.91	0.94	
	0.20		0.49	0.58	0.65	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	0.73	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	0.34	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	0.61	0.54	0.43	0.39	0.31	0.24	0.20	
	0.30		0.74	0.62	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
	0.20		0.64	0.55	0.49	0.43	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		0.72	0.61	0.53	0.46	0.38	0.32	0.27	0.22	0.18	
	0.20		0.63	0.54	0.48	0.42	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												