

Report No.: 1

Test Time: 10.12.2019 19:05

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 8018LED 0,3A 36W 5000K microprisma (50)

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 50

Voltage: 221.3 V

Current: 0.169 A

Power: 36.55 W

Power Factor: 0.976

Photometric Results

CIE Class: Direct

Measurement Flux: 4623.4 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 4623.4 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.1, 157.1, 151.1, 152.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 83.3, 79.1, 77.4, 78.2

Luminaire Efficacy Rating (LER): 126.55

Central Intensity: 2293.49 cd

Max. Intensity: 2297.37 cd

Pos of Max. Intensity: H202.5 V4

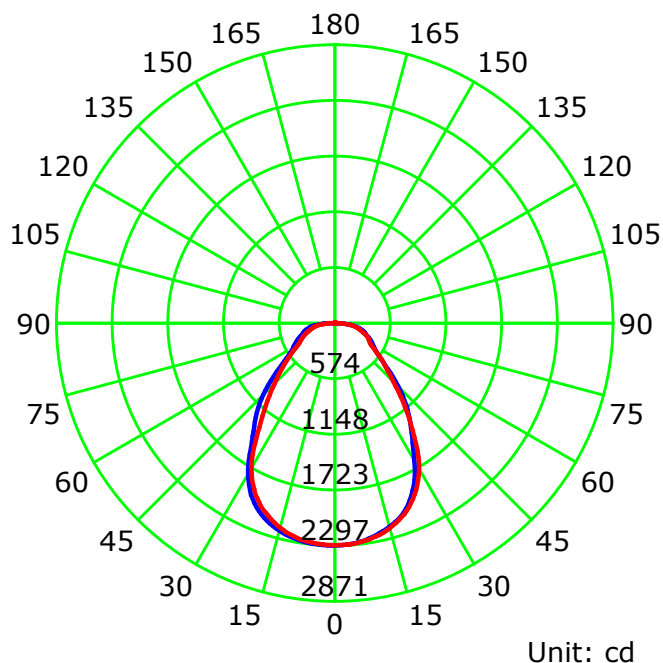
S/MH(C0/C180): 1.13

S/MH(C90/C270): 1.14

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

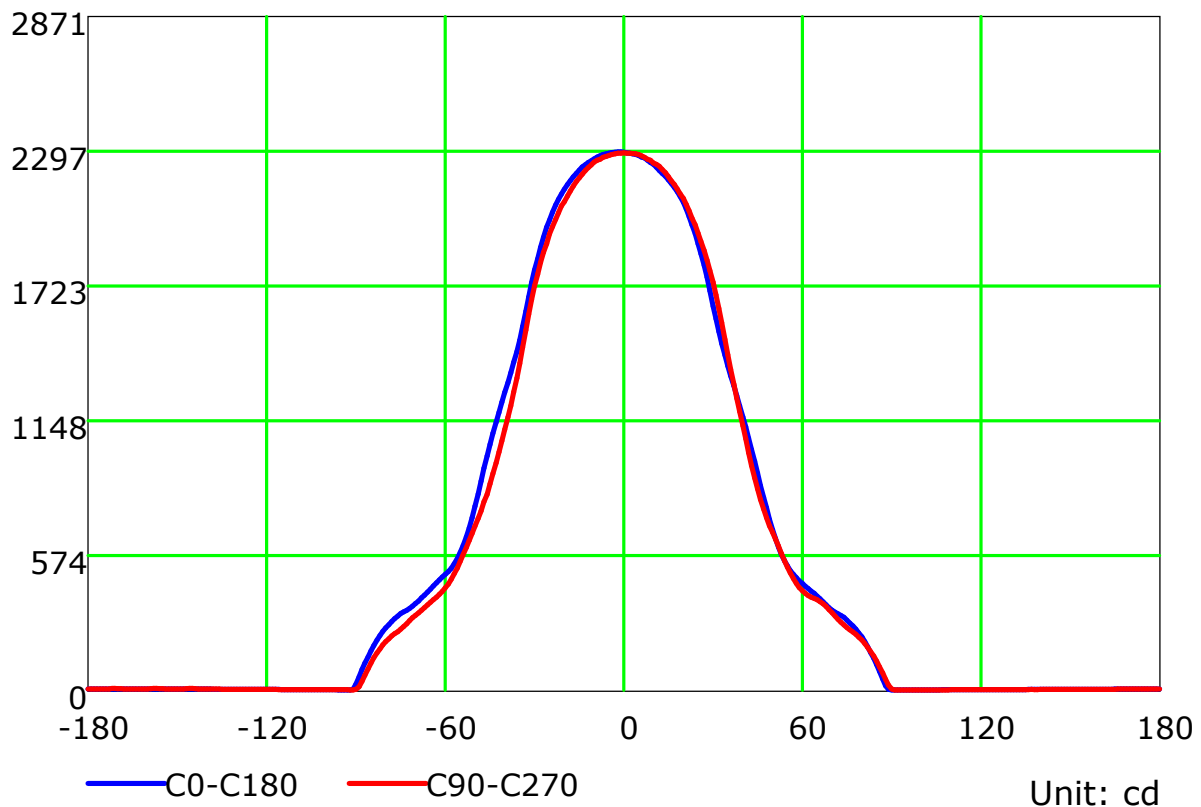
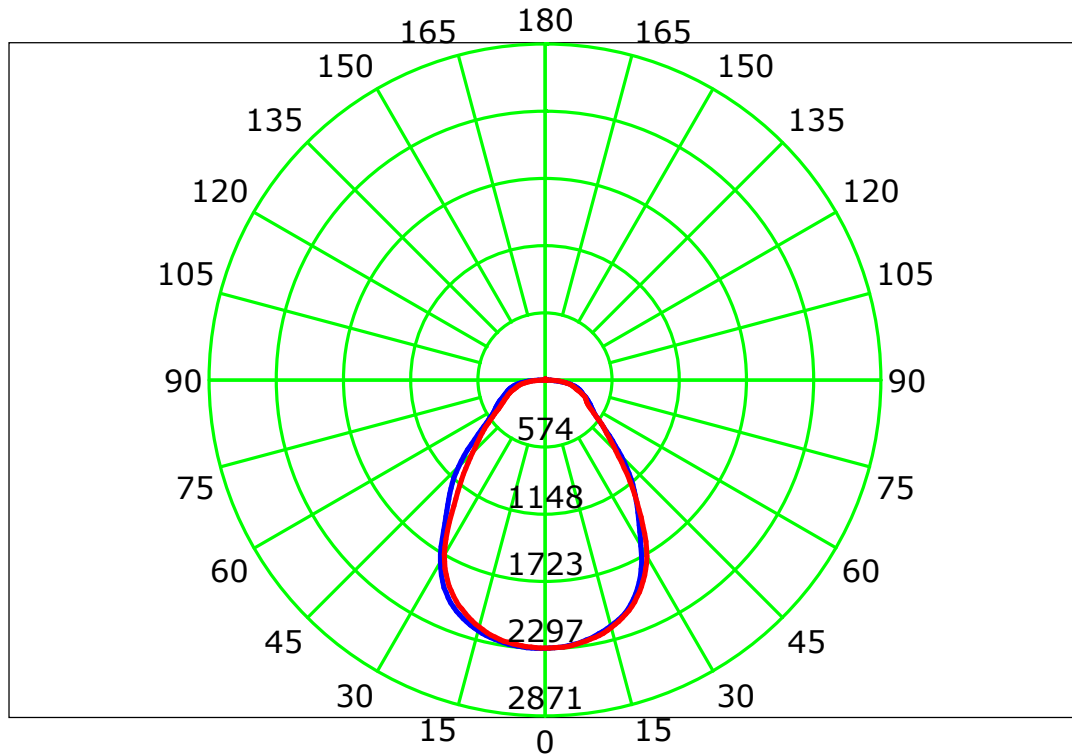
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

Test Type: TYPE C

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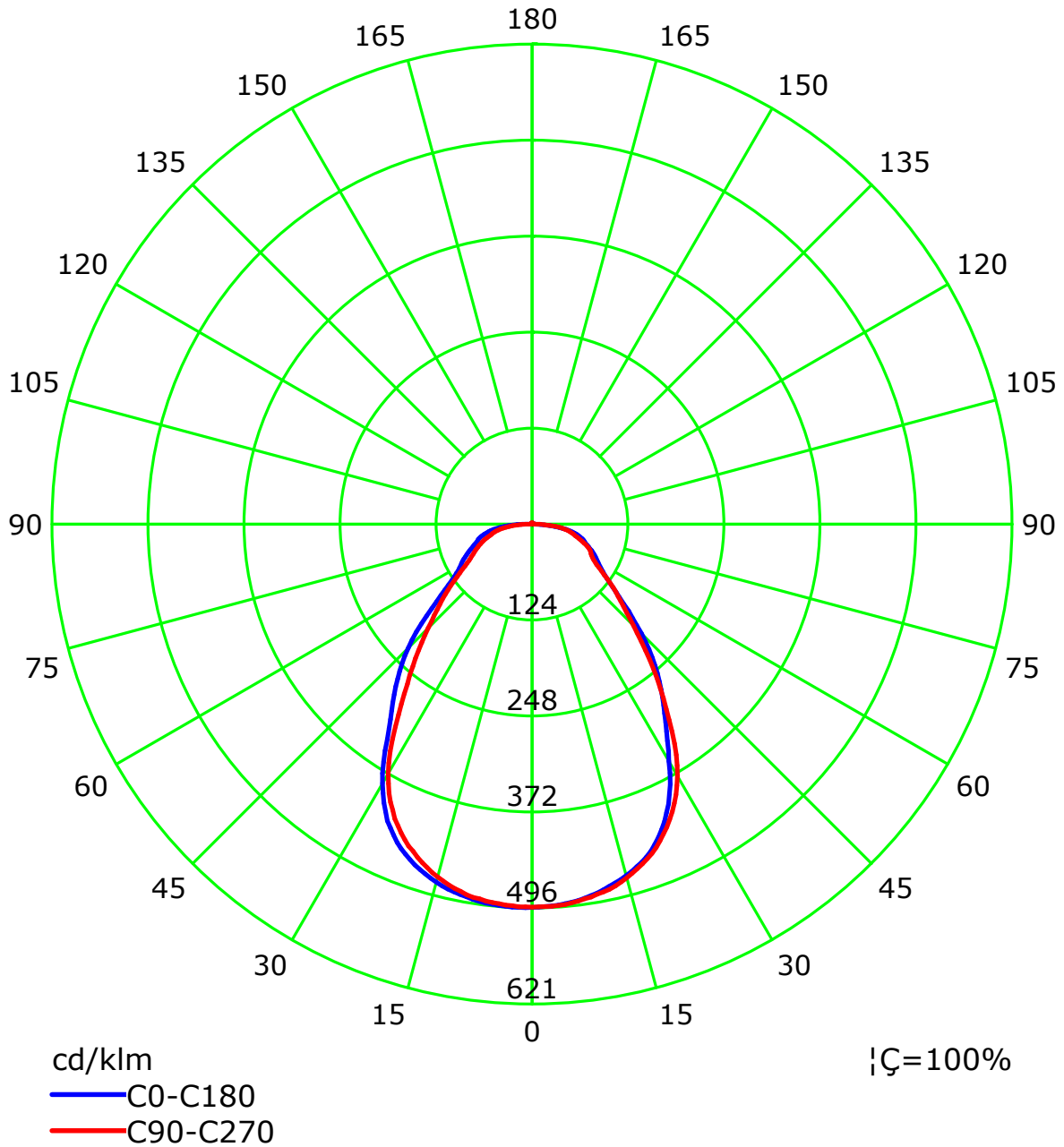
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)

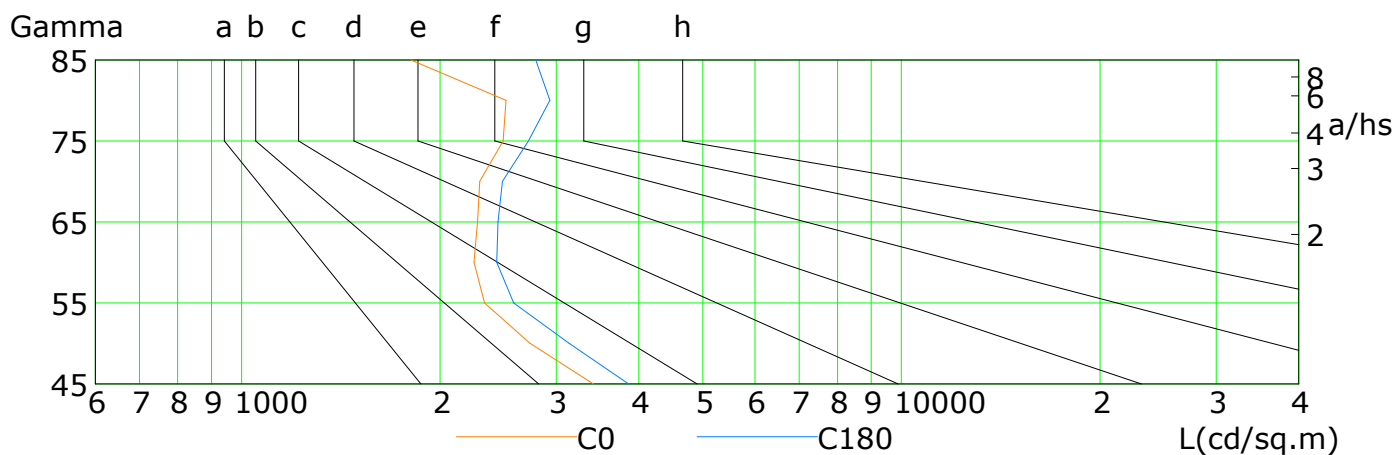
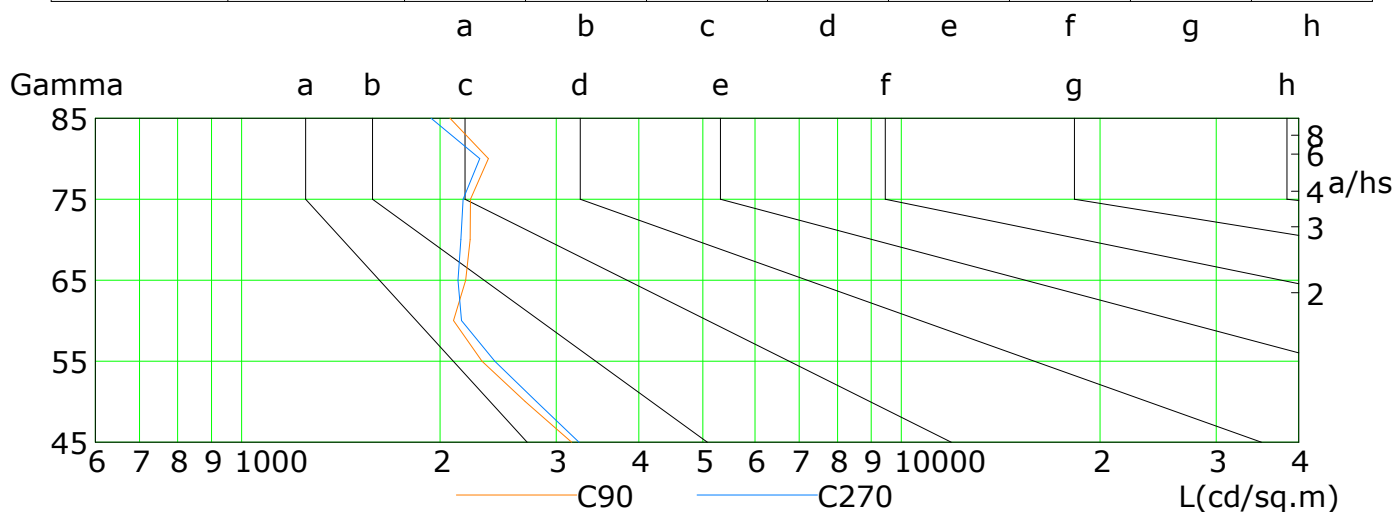


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

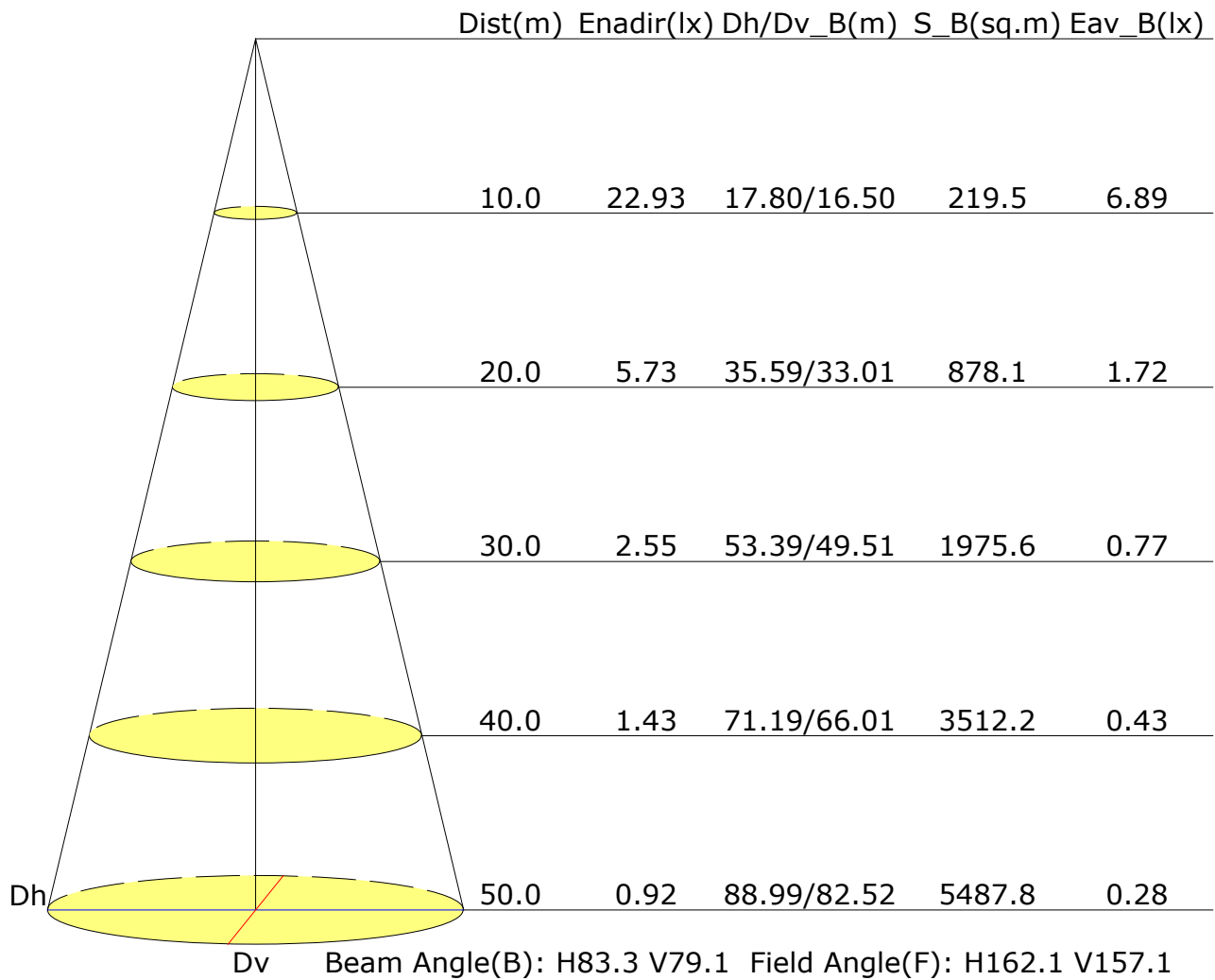


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3413	2735	2334	2250	2279	2297	2491	2515	1806
C90	3163	2690	2314	2094	2187	2221	2224	2368	2071
C180	3862	3135	2586	2436	2448	2487	2722	2931	2792
C270	3247	2799	2420	2153	2128	2151	2167	2295	1938

C Plane (°):0.0-360.0: 22.5
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 Temperature:
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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	14.7	16.0	15.0	16.2	16.5	14.6	15.9	14.9	16.1	16.4
3H	16.2	17.4	16.6	17.7	17.9	16.1	17.2	16.4	17.5	17.8
4H	17.1	18.2	17.4	18.5	18.8	16.8	17.9	17.2	18.2	18.5
6H	17.9	18.9	18.3	19.3	19.6	17.6	18.6	17.9	18.9	19.2
8H	18.2	19.2	18.6	19.5	19.9	17.9	18.9	18.3	19.2	19.5
12H	18.4	19.4	18.8	19.7	20.1	18.1	19.1	18.5	19.4	19.8
X=4H Y=2H	15.2	16.3	15.5	16.5	16.8	15.1	16.2	15.4	16.5	16.8
3H	16.9	17.9	17.3	18.2	18.6	16.8	17.7	17.2	18.0	18.4
4H	18.0	18.8	18.4	19.2	19.6	17.7	18.5	18.1	18.9	19.3
6H	19.0	19.7	19.4	20.1	20.5	18.6	19.4	19.0	19.8	20.2
8H	19.4	20.0	19.8	20.5	20.9	19.0	19.7	19.5	20.1	20.6
12H	19.6	20.2	20.1	20.7	21.1	19.3	20.0	19.8	20.4	20.8
X=8H Y=4H	18.2	18.9	18.7	19.3	19.8	18.0	18.7	18.4	19.1	19.5
6H	19.4	20.0	19.9	20.4	20.9	19.1	19.6	19.6	20.1	20.6
8H	19.9	20.4	20.4	20.8	21.3	19.6	20.1	20.1	20.6	21.1
12H	20.2	20.6	20.7	21.1	21.6	20.0	20.4	20.5	20.9	21.4
X=12H Y=4H	18.3	18.9	18.7	19.3	19.8	18.0	18.7	18.5	19.1	19.5
6H	19.5	20.0	20.0	20.4	20.9	19.2	19.7	19.7	20.1	20.6
8H	20.0	20.4	20.5	20.9	21.4	19.7	20.2	20.2	20.6	21.1
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.3/-0.6					+0.3/-0.7				
S=2.0H	+0.7/-0.8					+0.6/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 4623lm ($8\log(F/F_0) = 5.3$).

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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	0.82	0.86	0.90	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	0.74	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	0.89	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:37W 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	0.65	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		0.74	0.63	0.55	0.48	0.39	0.33	0.29	0.23	0.19	
	0.20		0.65	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	0.52	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	0.17	
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:37W 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	0.18	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:37W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												