

Report No.: 1

Test Time: 28.10.2019 20:50

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 4x40LED 0,35A 44W 3000K microprisma

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.2 V

Current: 0.212 A

Power: 46.11 W

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 5500.5 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 5500.5 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.0, 161.7, 151.2, 150.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 80.5, 83.8, 78.4, 78.2

Luminaire Efficacy Rating (LER): 119.34

Central Intensity: 2723.86 cd

Max. Intensity: 2728.32 cd

Pos of Max. Intensity: H157.5 V3

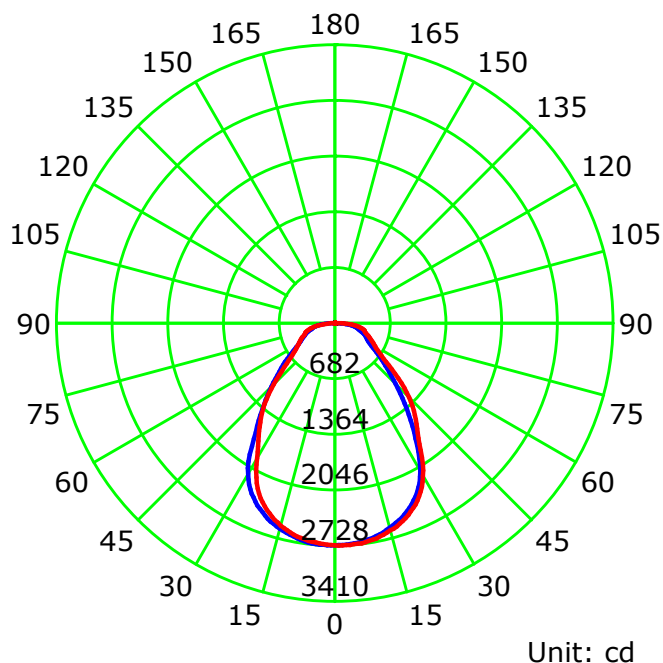
S/MH(C0/C180): 1.16

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

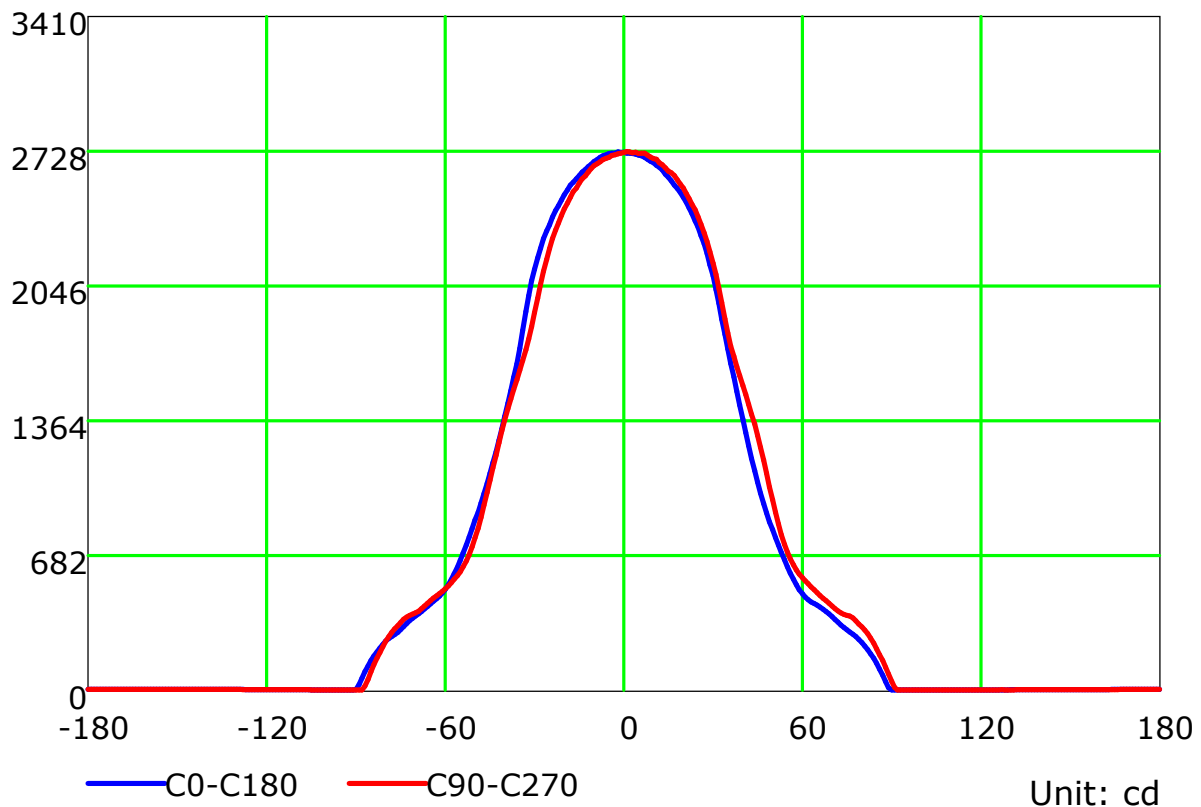
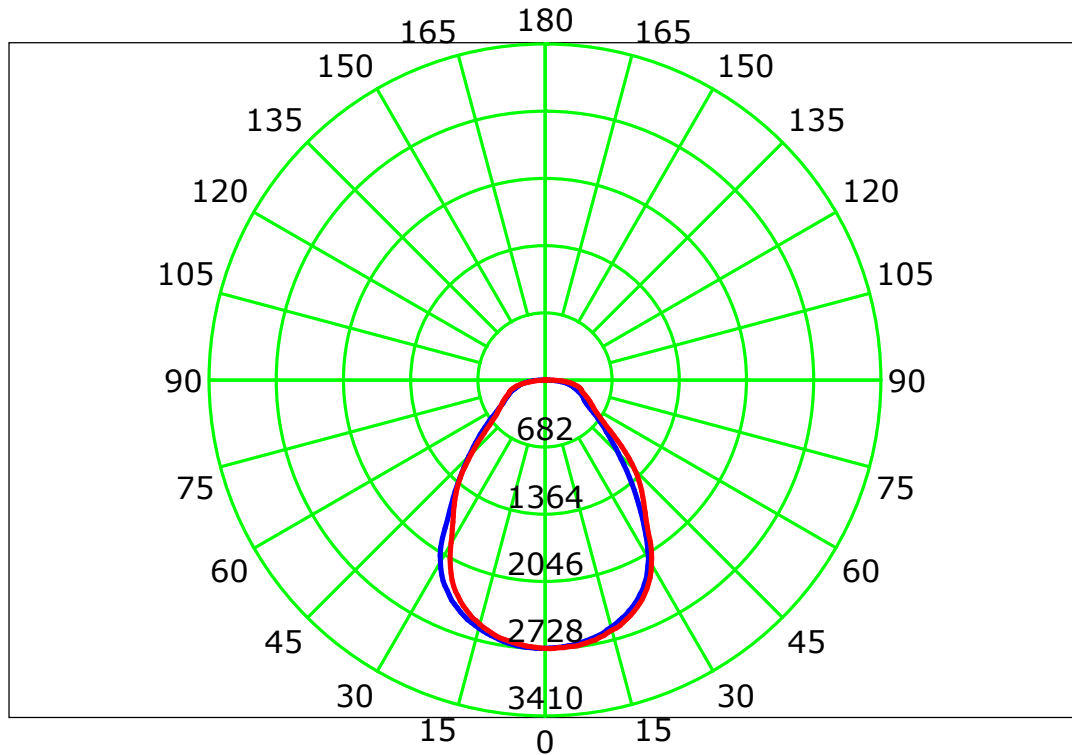
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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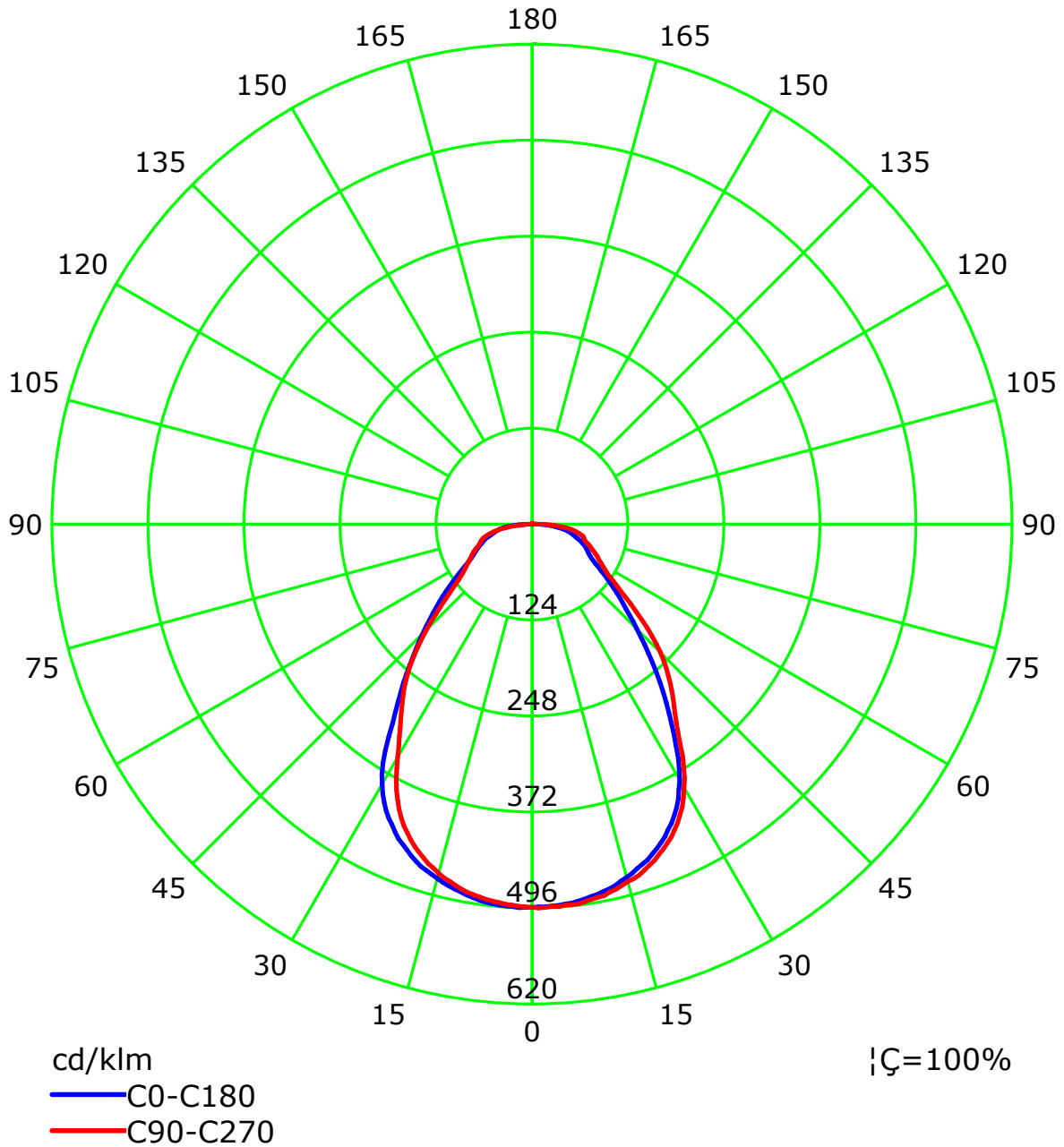
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)

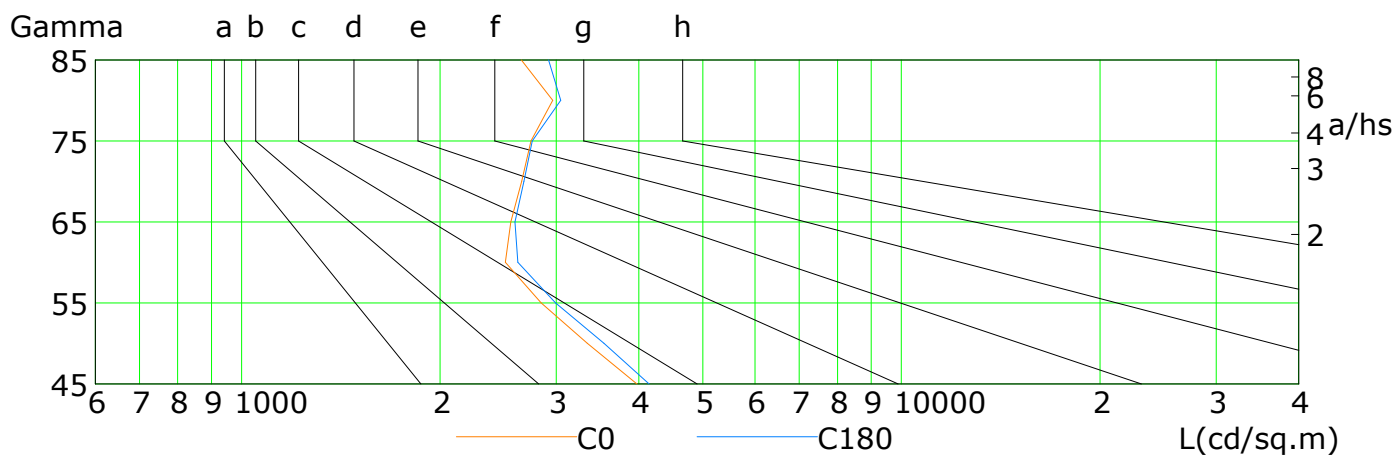
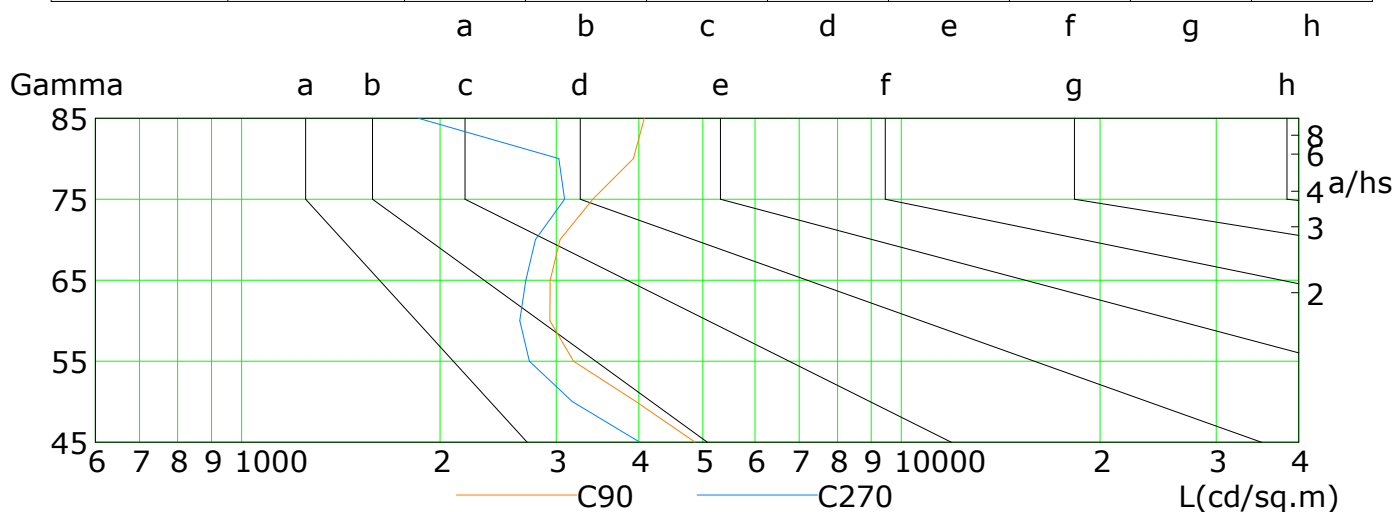


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

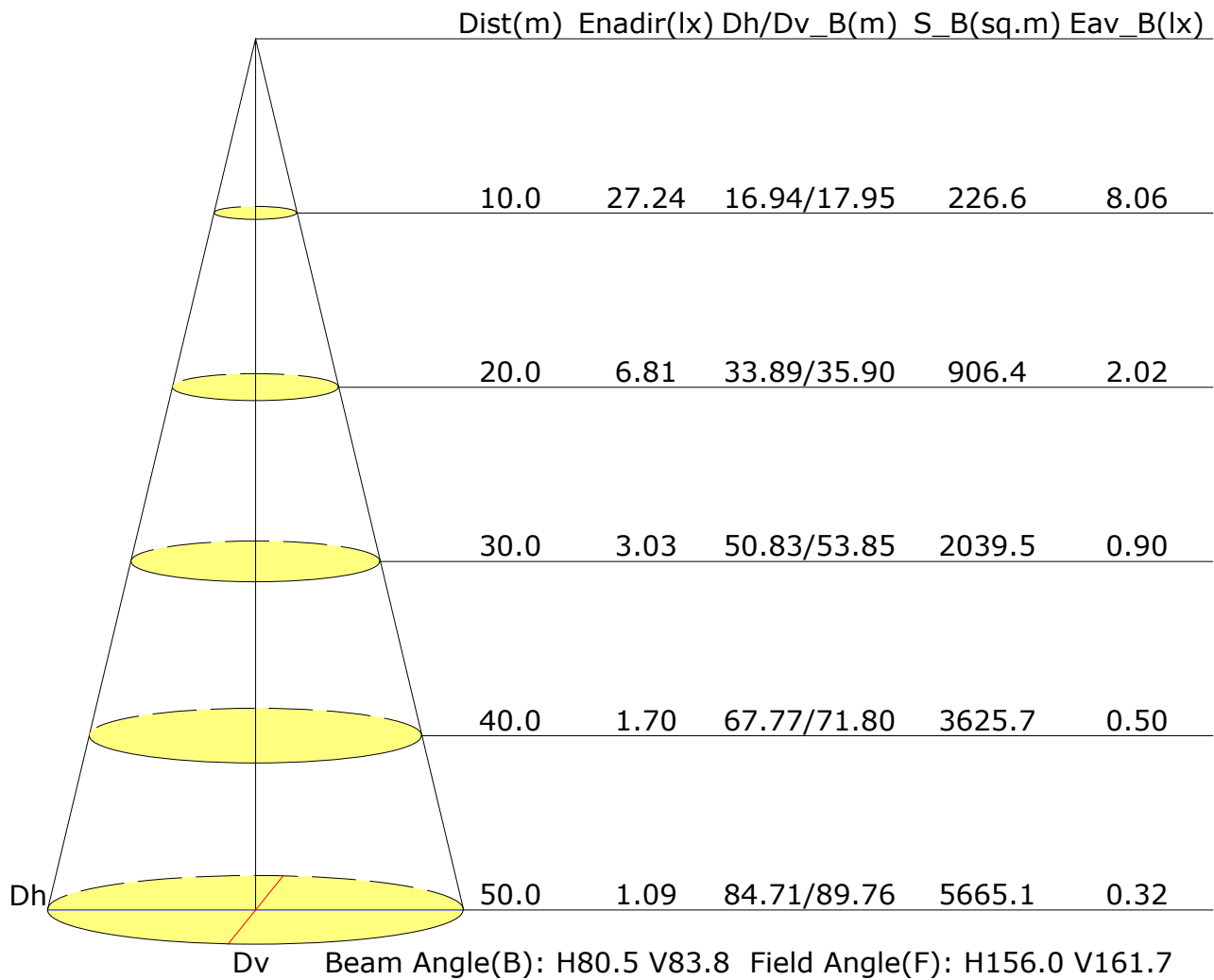


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3975	3341	2847	2511	2559	2657	2745	2961	2654
C90	4869	3959	3186	2932	2936	3039	3406	3924	4077
C180	4146	3542	2992	2622	2596	2679	2756	3045	2921
C270	4015	3170	2729	2640	2698	2788	3086	3026	1852

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	15.3	16.5	15.6	16.8	17.0	15.6	16.9	15.9	17.1	17.4
3H	16.7	17.8	17.0	18.1	18.4	17.1	18.3	17.4	18.5	18.8
4H	17.4	18.5	17.8	18.8	19.1	18.0	19.1	18.3	19.4	19.7
6H	18.2	19.2	18.6	19.5	19.9	18.9	19.9	19.3	20.2	20.6
8H	18.6	19.5	18.9	19.9	20.2	19.3	20.3	19.7	20.6	20.9
12H	18.8	19.7	19.2	20.1	20.4	19.6	20.5	20.0	20.9	21.2
X=4H Y=2H	15.7	16.8	16.1	17.1	17.4	16.0	17.1	16.4	17.4	17.7
3H	17.4	18.4	17.8	18.7	19.0	17.8	18.7	18.2	19.1	19.4
4H	18.3	19.2	18.7	19.5	19.9	18.9	19.7	19.3	20.1	20.4
6H	19.3	20.0	19.7	20.4	20.8	20.0	20.7	20.4	21.1	21.5
8H	19.7	20.4	20.1	20.8	21.2	20.4	21.1	20.9	21.5	22.0
12H	20.0	20.6	20.5	21.0	21.5	20.8	21.4	21.3	21.8	22.3
X=8H Y=4H	18.7	19.4	19.1	19.8	20.2	19.1	19.8	19.6	20.2	20.7
6H	19.8	20.3	20.2	20.8	21.2	20.4	21.0	20.9	21.4	21.9
8H	20.3	20.8	20.8	21.2	21.7	21.0	21.5	21.5	22.0	22.4
12H	20.7	21.1	21.2	21.6	22.1	21.5	21.9	22.0	22.4	22.9
X=12H Y=4H	18.7	19.3	19.2	19.8	20.2	19.2	19.8	19.6	20.2	20.7
6H	19.9	20.3	20.3	20.8	21.3	20.5	21.0	21.0	21.4	21.9
8H	20.4	20.8	20.9	21.3	21.8	21.1	21.5	21.6	22.0	22.5
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/-0.6				
S=2.0H	+0.7/-1.0					+0.6/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 5500lm ($8\log(F/F_0) = 5.9$).

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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	0.63	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	0.98	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	0.88	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		0.50	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:46W 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	0.21	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:46W 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	0.15	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.12	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	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.18	0.18	
	0.20		0.05	0.07	0.08	0.09	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:46W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												