

Report No.: 1

Test Time: 14.11.2019 22:15

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 (50) 4x24LED 0,35A 37W 4000K microprisma

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 50

Voltage: 221.4 V

Current: 0.168 A

Power: 36.39 W

Power Factor: 0.973

Photometric Results

CIE Class: Direct

Measurement Flux: 4416.7 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 4416.7 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.3, 161.9, 152.4, 151.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 79.2, 83.1, 77.4, 76.9

Luminaire Efficacy Rating (LER): 121.42

Central Intensity: 2192.94 cd

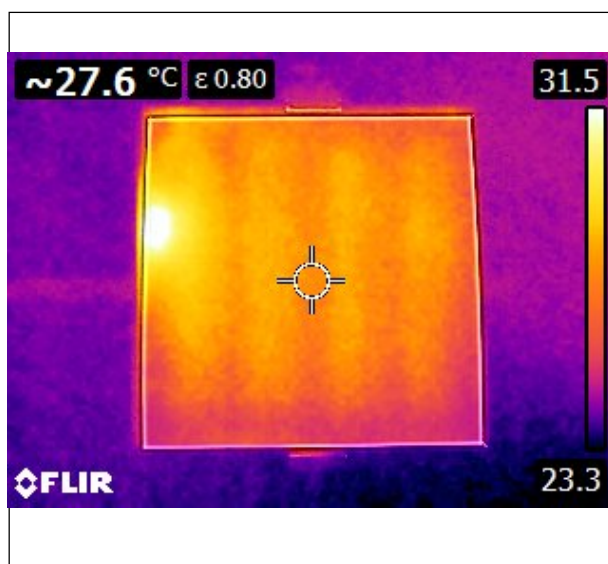
Max. Intensity: 2195.06 cd

Pos of Max. Intensity: H67.5 V0

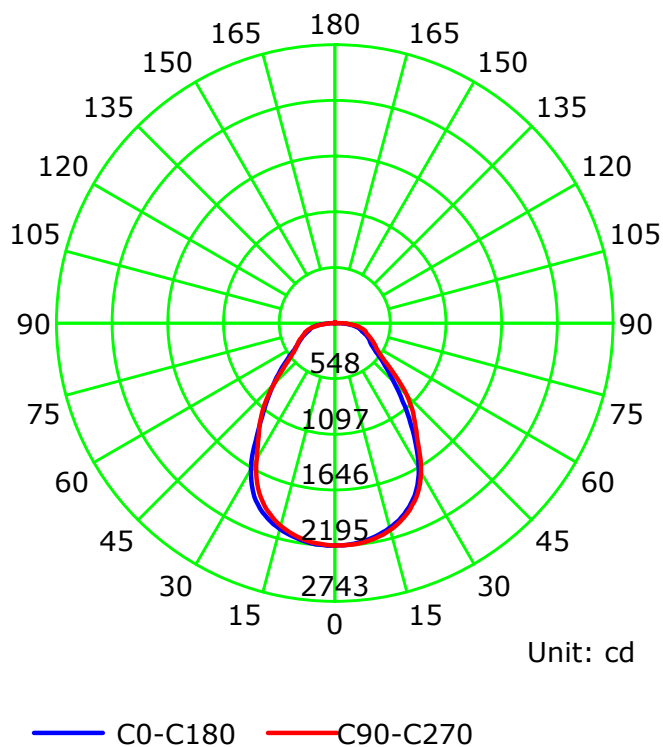
S/MH(C0/C180): 1.14

S/MH(C90/C270): 1.12

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

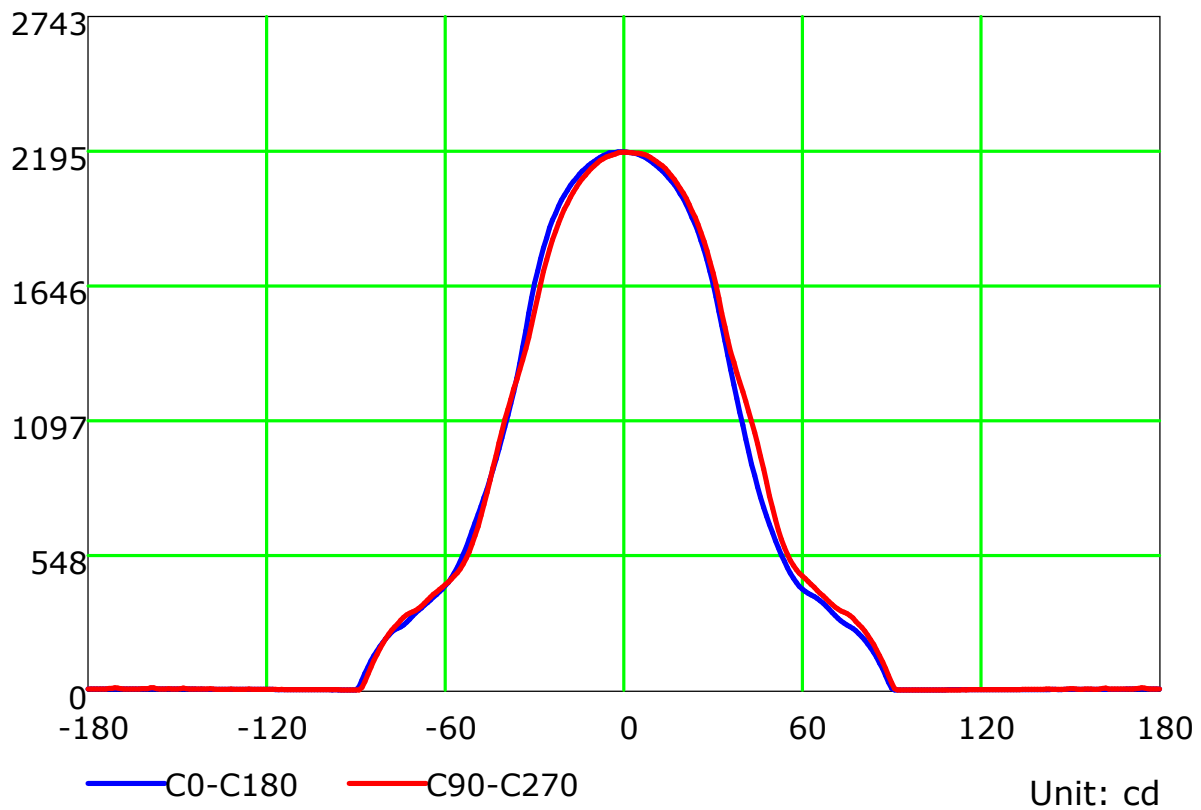
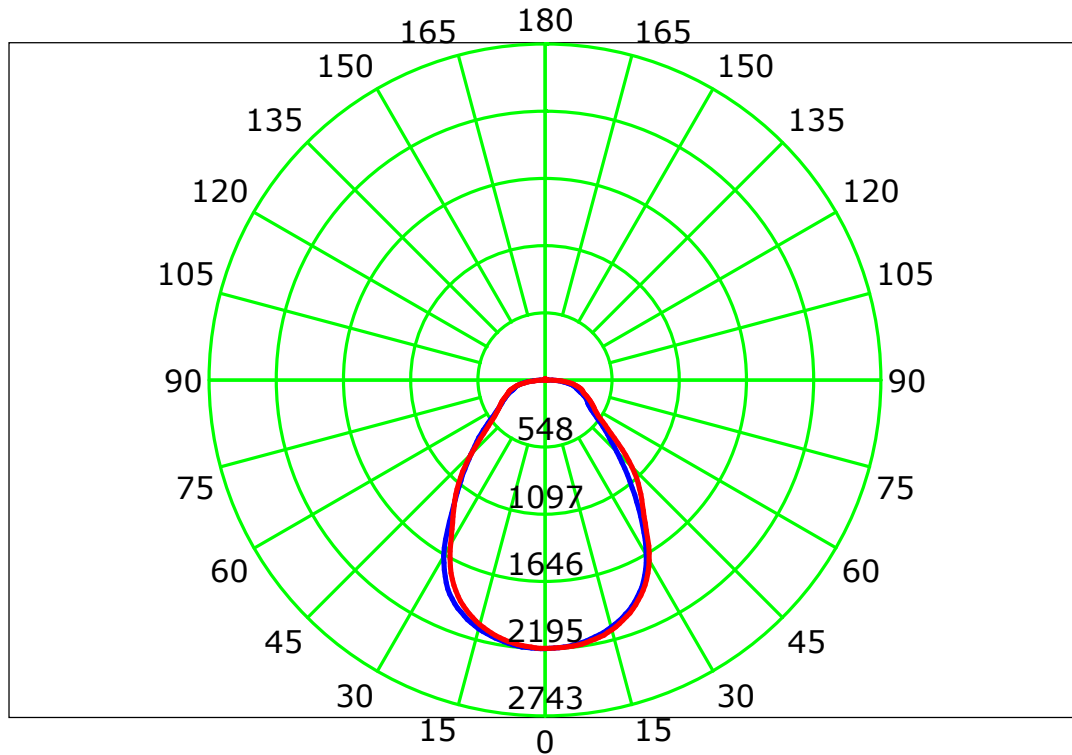
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

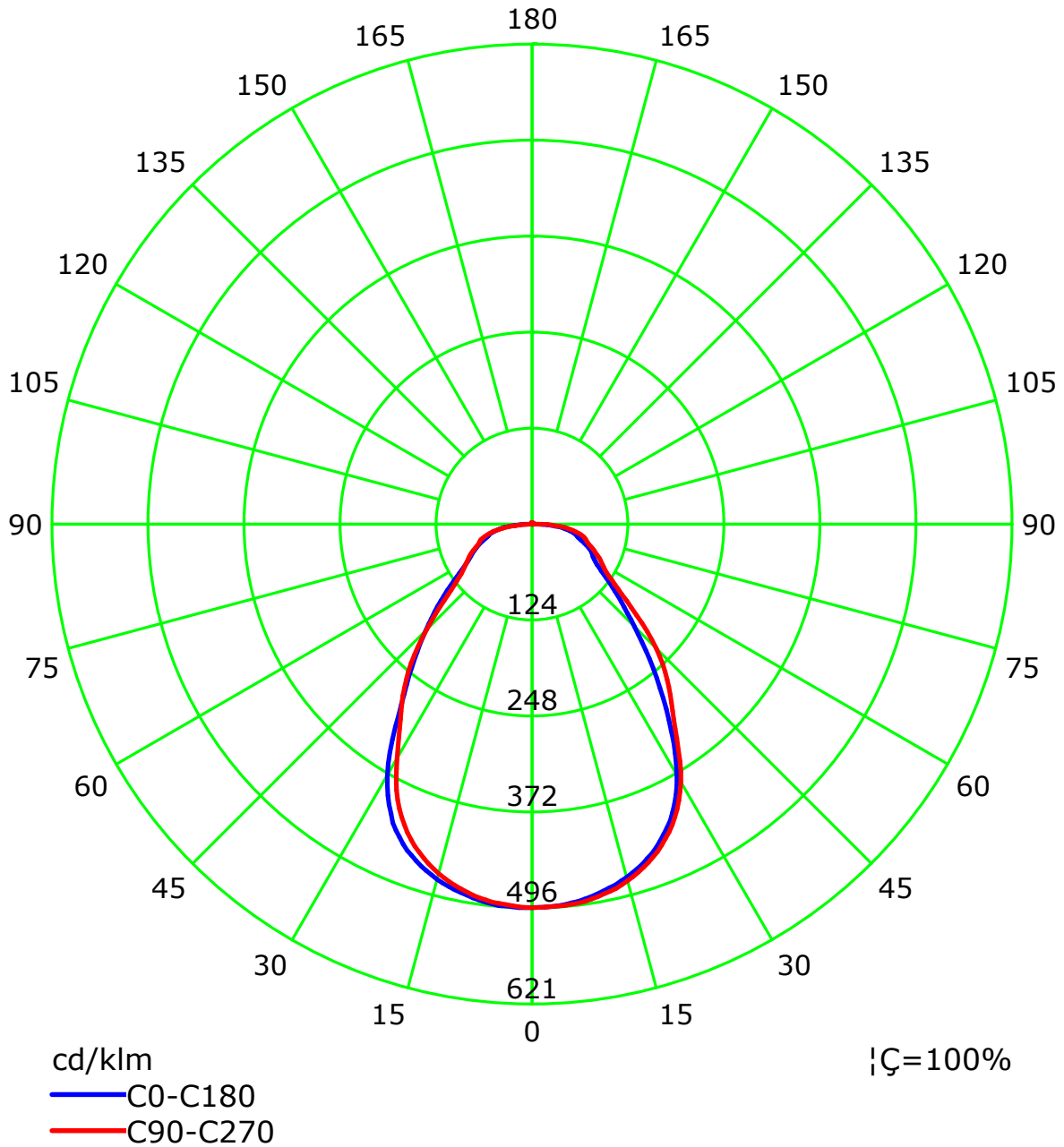
Luminous Intensity Distribution Curve



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)

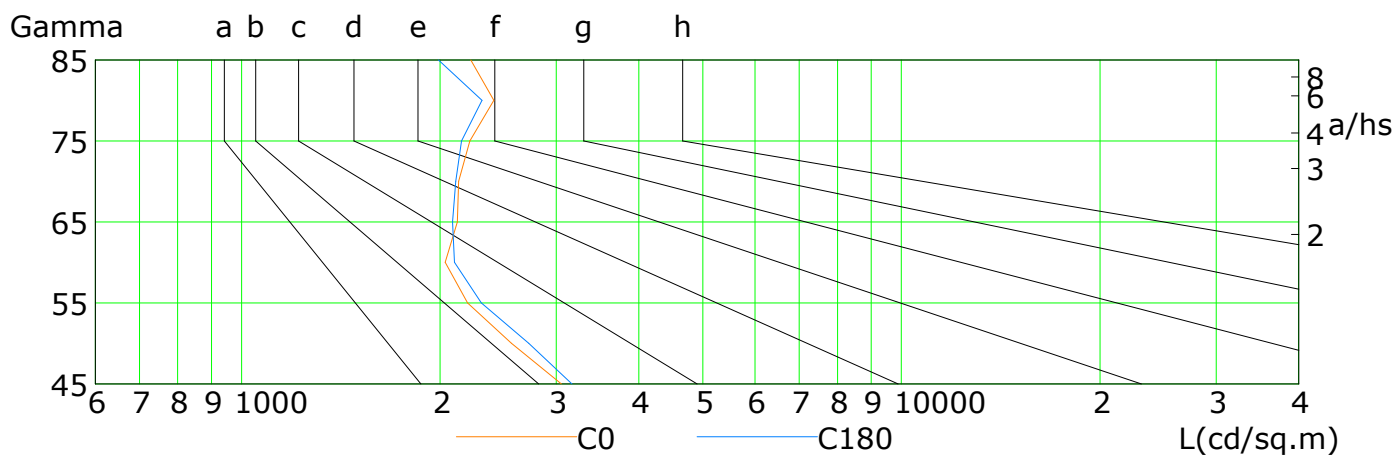
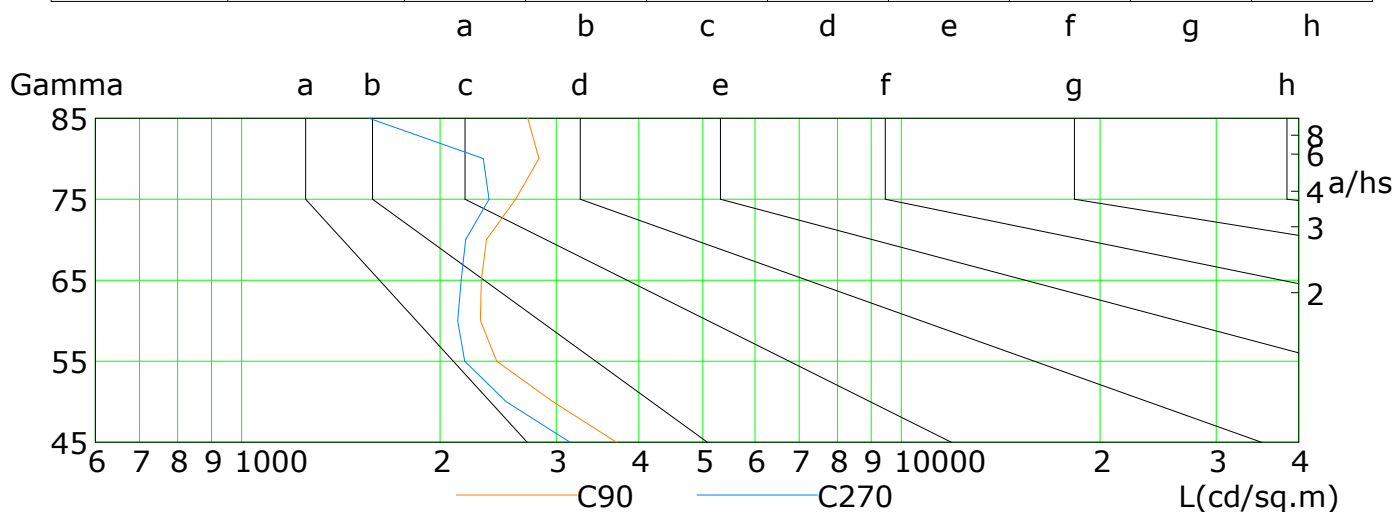


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

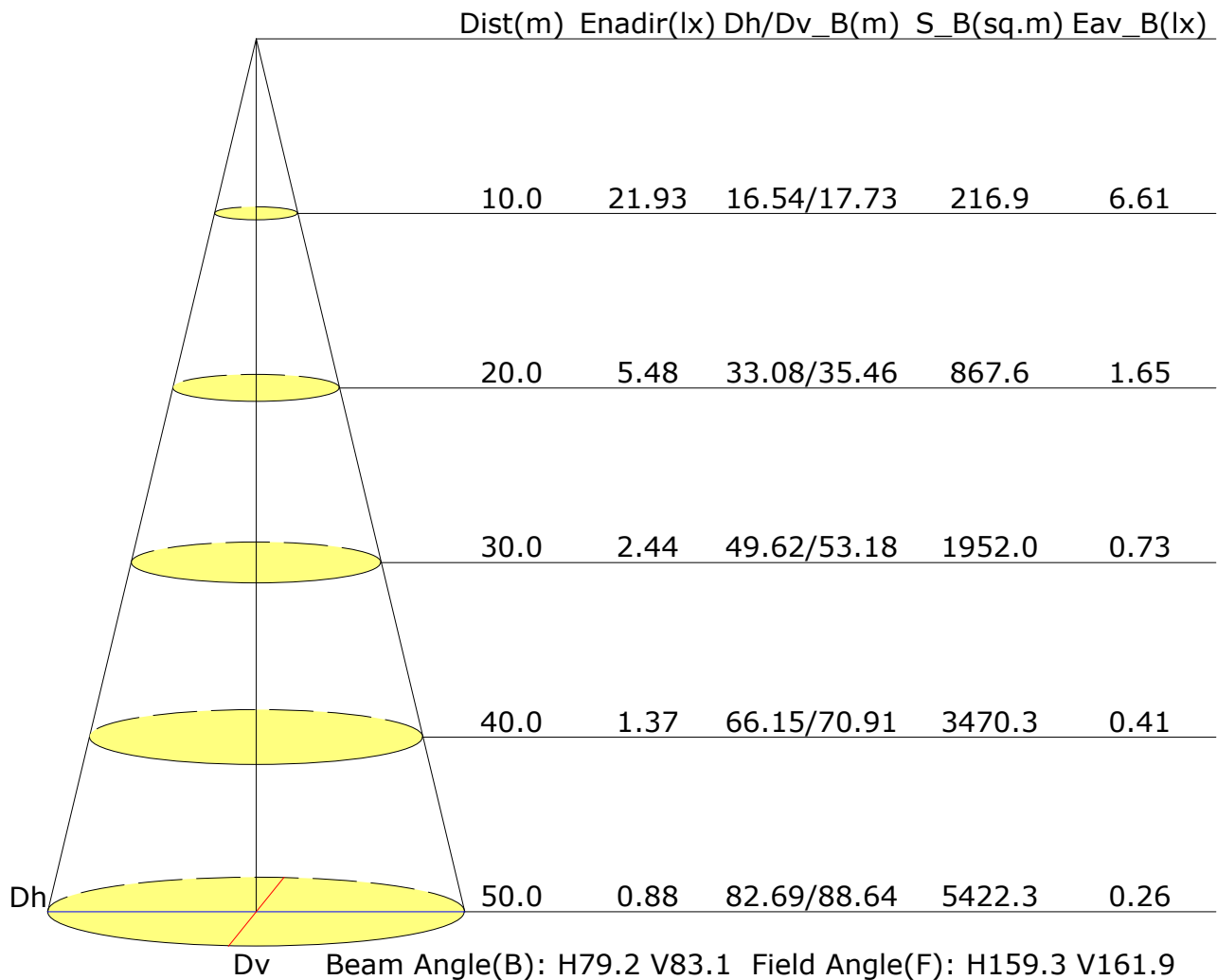


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3053	2563	2200	2035	2123	2133	2217	2411	2224
C90	3701	2963	2436	2301	2310	2350	2601	2822	2714
C180	3169	2724	2310	2102	2089	2112	2154	2314	1987
C270	3147	2517	2178	2126	2153	2186	2373	2324	1561

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	14.5	15.8	14.8	16.0	16.2	14.8	16.1	15.1	16.3	16.5
3H	16.0	17.1	16.3	17.4	17.7	16.3	17.5	16.6	17.7	18.0
4H	16.8	17.9	17.1	18.2	18.5	17.2	18.3	17.5	18.6	18.9
6H	17.6	18.6	18.0	18.9	19.3	18.1	19.1	18.4	19.4	19.7
8H	18.0	19.0	18.4	19.3	19.6	18.4	19.4	18.8	19.7	20.1
12H	18.3	19.2	18.7	19.6	19.9	18.7	19.6	19.1	20.0	20.3
X=4H Y=2H	15.0	16.1	15.3	16.4	16.7	15.2	16.3	15.6	16.6	16.9
3H	16.7	17.7	17.1	18.0	18.4	17.0	18.0	17.4	18.3	18.6
4H	17.7	18.5	18.1	18.9	19.3	18.1	18.9	18.5	19.3	19.6
6H	18.7	19.4	19.1	19.8	20.2	19.1	19.9	19.5	20.3	20.7
8H	19.1	19.8	19.6	20.2	20.7	19.6	20.2	20.0	20.7	21.1
12H	19.5	20.1	20.0	20.6	21.0	19.9	20.5	20.4	20.9	21.4
X=8H Y=4H	18.0	18.7	18.4	19.1	19.5	18.3	19.0	18.8	19.4	19.9
6H	19.2	19.7	19.6	20.2	20.6	19.6	20.1	20.0	20.6	21.0
8H	19.7	20.2	20.2	20.7	21.2	20.1	20.6	20.6	21.1	21.6
12H	20.2	20.6	20.7	21.1	21.6	20.5	21.0	21.1	21.5	22.0
X=12H Y=4H	18.0	18.7	18.5	19.1	19.6	18.4	19.0	18.8	19.4	19.9
6H	19.3	19.8	19.7	20.2	20.7	19.6	20.1	20.1	20.6	21.1
8H	19.9	20.3	20.4	20.8	21.3	20.2	20.7	20.7	21.1	21.6
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.3/-0.7					+0.3/-0.6				
S=2.0H	+0.6/-0.9					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4417lm ($8\log(F/F_0) = 5.2$).

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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	0.89	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	0.90	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		0.49	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	0.93	0.96	
	0.30		0.53	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	0.61	0.66	0.72	0.77	0.80	0.84	0.87	
Rating:36W 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	0.56	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	0.40	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	0.69	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	0.18	
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:36W 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:36W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												