

Report No.: 1

Test Time: 31.10.2019 19:24

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 4x24LED 0,48A 26,5W 3000K opal

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.2 V

Current: 0.118 A

Power: 25.70 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Measurement Flux: 2681.1 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 2681.1 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.2, 164.0, 164.1, 164.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.5, 111.4, 111.4, 111.5

Luminaire Efficacy Rating (LER): 104.37

Central Intensity: 929.6 cd

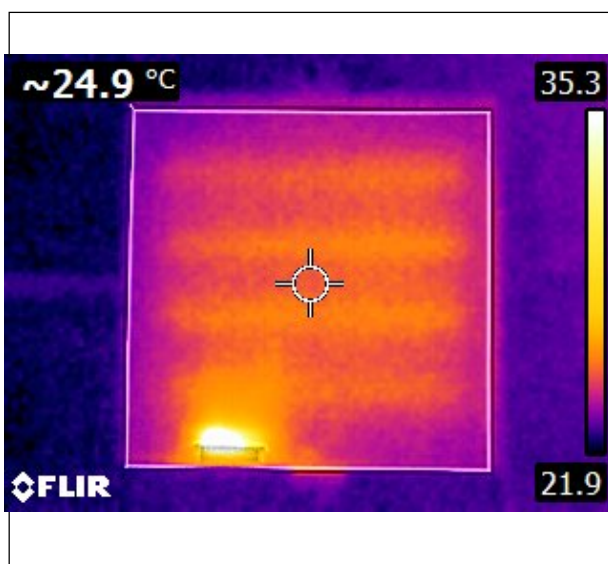
Max. Intensity: 931.16 cd

Pos of Max. Intensity: H112.5 V1

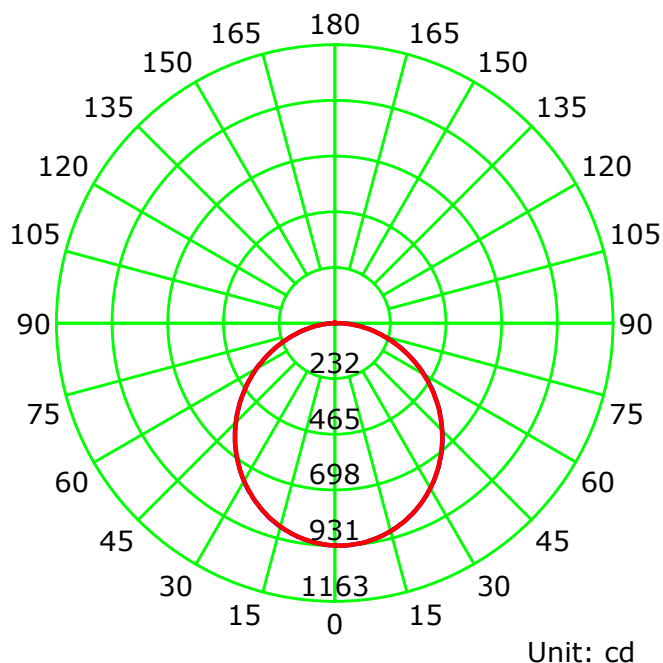
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.25

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

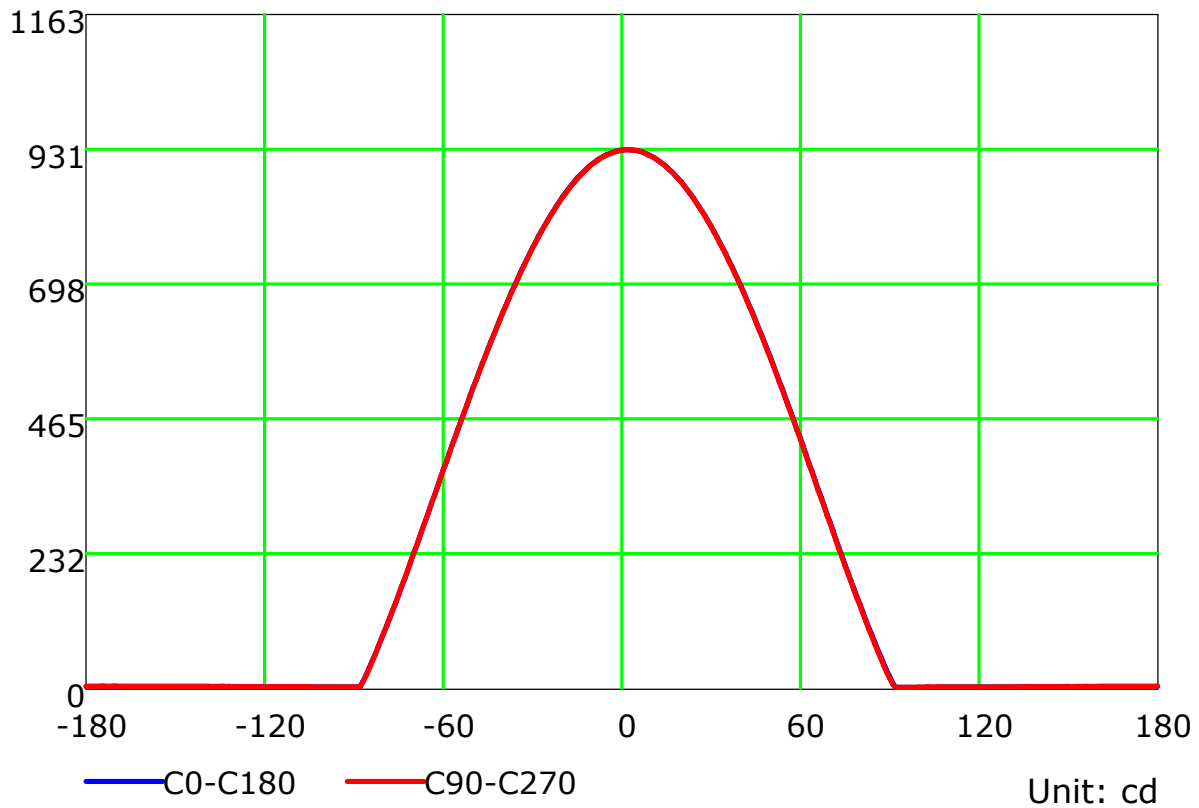
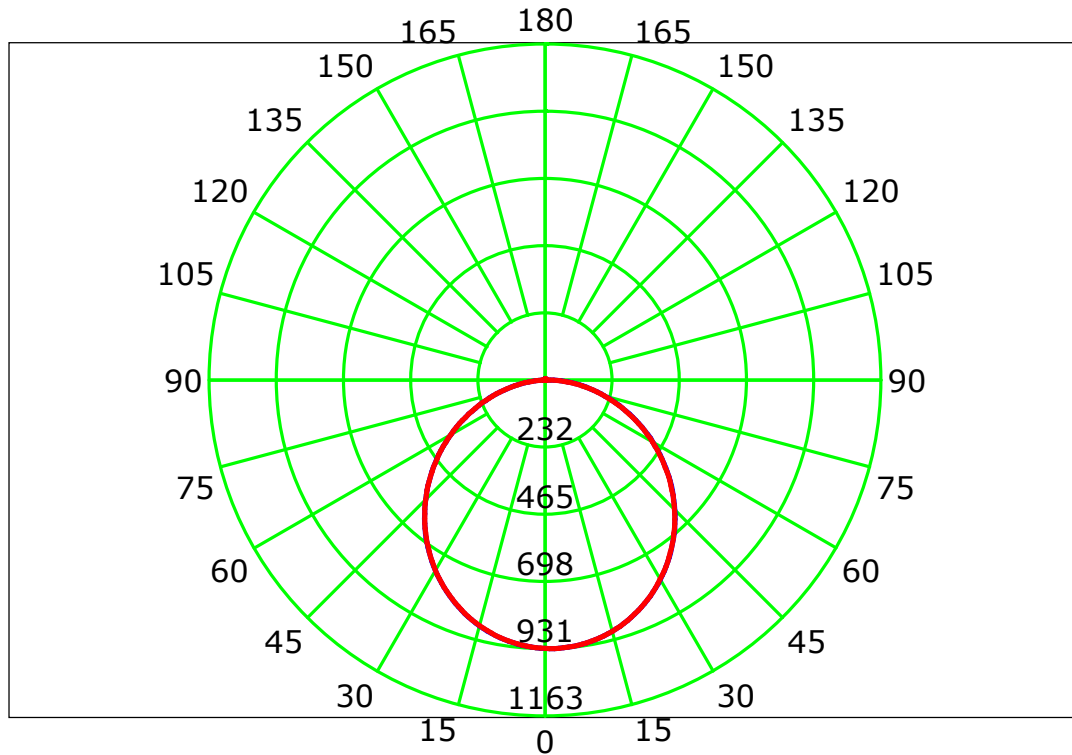
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

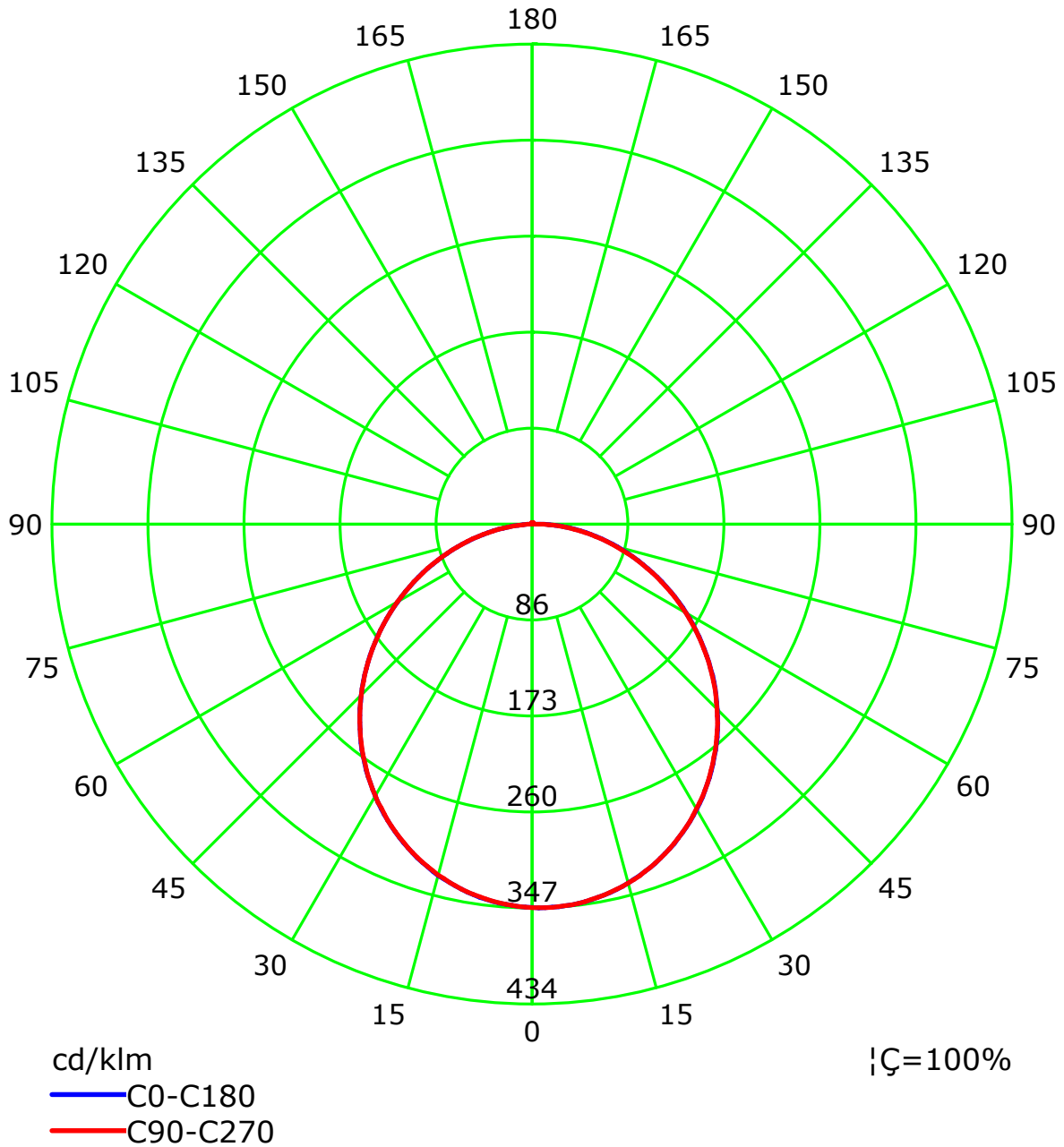
Luminous Intensity Distribution Curve



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)

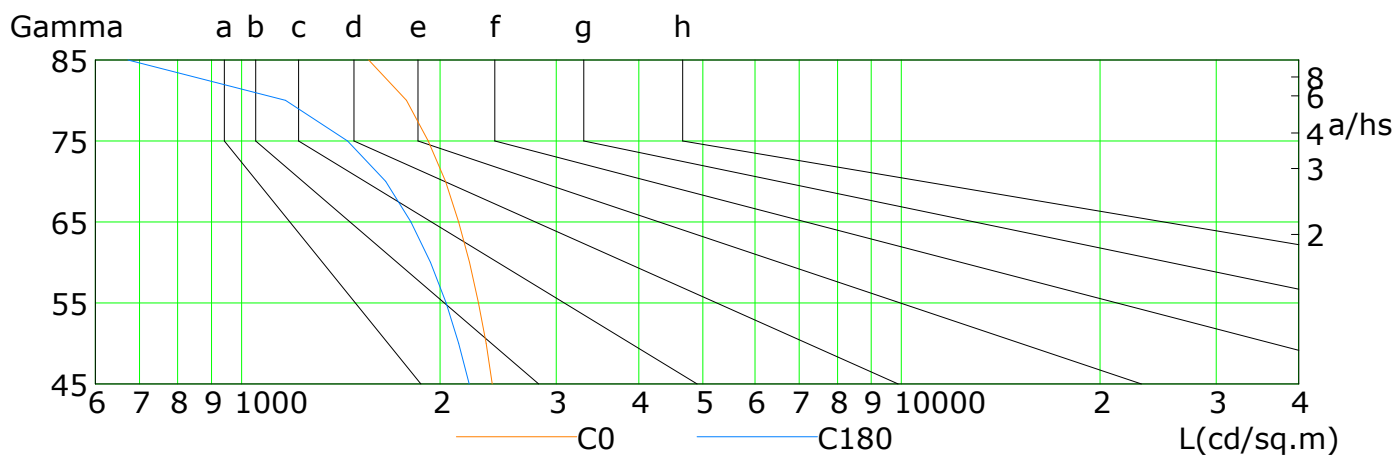
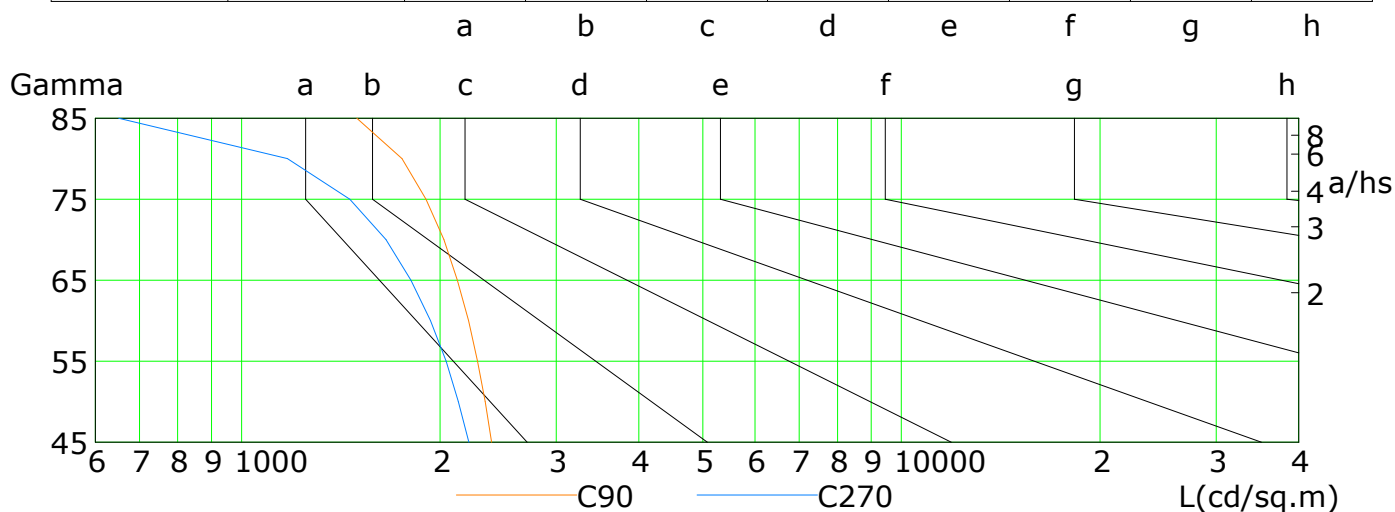


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

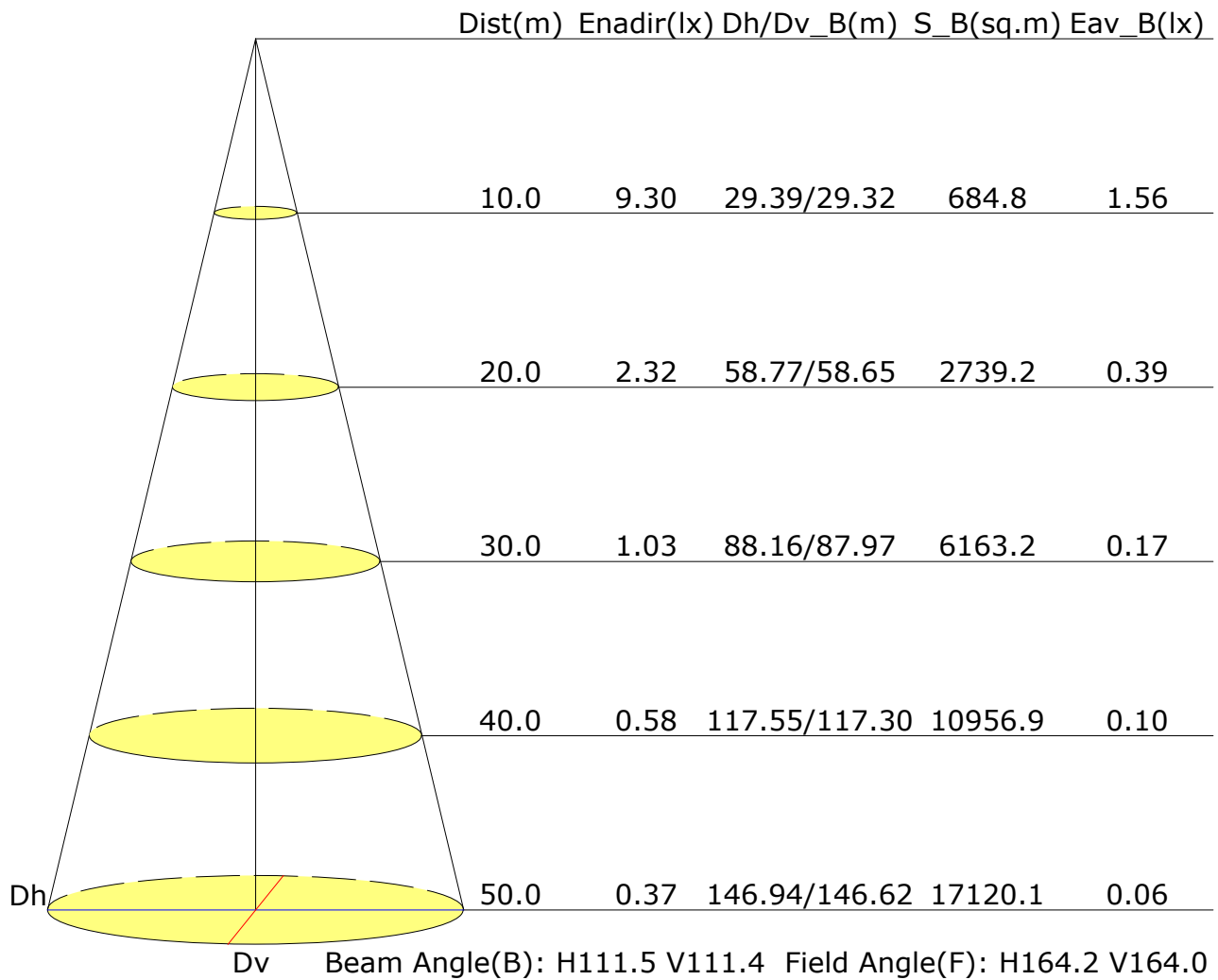


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2398	2347	2285	2217	2133	2037	1919	1778	1559
C90	2394	2340	2279	2209	2124	2026	1903	1751	1496
C180	2212	2133	2042	1933	1807	1653	1448	1166	673
C270	2211	2131	2041	1934	1806	1655	1459	1173	651

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	15.5	16.9	15.8	17.1	17.4	15.3	16.6	15.6	16.9	17.2
3H	17.1	18.4	17.5	18.7	19.0	16.8	18.1	17.1	18.4	18.6
4H	17.8	19.0	18.2	19.3	19.7	17.4	18.6	17.8	18.9	19.3
6H	18.4	19.5	18.8	19.8	20.2	17.9	19.0	18.3	19.4	19.7
8H	18.6	19.7	19.0	20.0	20.4	18.1	19.2	18.5	19.5	19.8
12H	18.8	19.8	19.2	20.2	20.5	18.2	19.2	18.6	19.6	19.9
X=4H Y=2H	16.1	17.3	16.5	17.6	17.9	15.9	17.1	16.3	17.4	17.8
3H	18.0	19.0	18.4	19.3	19.7	17.7	18.7	18.1	19.1	19.4
4H	18.8	19.7	19.2	20.1	20.5	18.5	19.4	18.9	19.8	20.1
6H	19.5	20.3	19.9	20.7	21.1	19.1	19.9	19.5	20.3	20.7
8H	19.8	20.5	20.2	21.0	21.4	19.3	20.0	19.7	20.5	20.9
12H	20.0	20.7	20.5	21.1	21.6	19.4	20.1	19.9	20.6	21.0
X=8H Y=4H	19.1	19.9	19.5	20.3	20.7	18.8	19.6	19.2	20.0	20.4
6H	20.0	20.6	20.4	21.0	21.5	19.6	20.2	20.0	20.6	21.1
8H	20.3	20.9	20.8	21.3	21.8	19.9	20.4	20.4	20.9	21.4
12H	20.6	21.1	21.1	21.6	22.1	20.1	20.6	20.6	21.1	21.6
X=12H Y=4H	19.1	19.8	19.6	20.2	20.7	18.8	19.5	19.3	19.9	20.4
6H	20.0	20.6	20.5	21.0	21.5	19.6	20.2	20.1	20.7	21.2
8H	20.4	20.9	20.9	21.4	21.9	20.0	20.5	20.5	21.0	21.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.1					+0.2/-0.2				
S=1.5H	+0.3/-0.4					+0.4/-0.6				
S=2.0H	+0.5/-0.8					+0.5/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2681lm ($8\log(F/F_0) = 3.4$).

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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 = 1.25									
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	0.56	0.66	0.74	0.79	0.86	0.91	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.95	0.99	
	0.20		0.42	0.53	0.60	0.66	0.75	0.81	0.85	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.98	
	0.30		0.47	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.95	
	0.20		0.42	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.92	
0.30	0.50	0.20	0.53	0.62	0.69	0.73	0.80	0.84	0.88	0.92	0.94	
	0.30		0.46	0.56	0.63	0.68	0.75	0.80	0.84	0.89	0.92	
	0.20		0.42	0.51	0.58	0.64	0.72	0.77	0.81	0.86	0.90	
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85	
Rating:26W 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 = 1.25									
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	1.01	0.83	0.71	0.62	0.50	0.41	0.36	0.28	0.23	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.48	0.43	0.34	0.26	0.22	
	0.30		0.82	0.70	0.60	0.53	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.94	0.77	0.66	0.57	0.46	0.38	0.32	0.25	0.21	
	0.30		0.80	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.70	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.51	0.44	0.39	0.32	0.26	0.23	0.18	0.15	
Rating:26W 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 = 1.25									
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	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	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	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	0.07	0.08	0.09	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:26W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												