

Report No.: 1

Test Time: 01.11.2019 21:10

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 180 4x24LED 0,48A 26,5W 3000K opal

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 35

Voltage: 221.3 V

Current: 0.117 A

Power: 25.62 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Measurement Flux: 2257.4 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 2257.4 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 165.4, 164.8, 165.0, 165.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.9, 113.7, 113.8, 113.8

Luminaire Efficacy Rating (LER): 88.16

Central Intensity: 761.94 cd

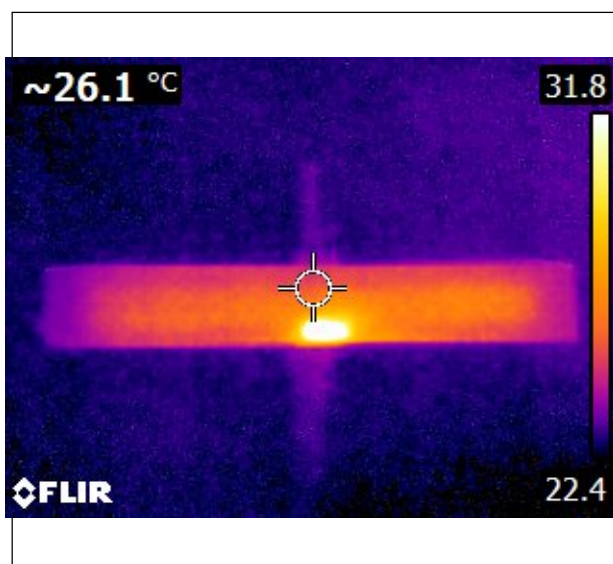
Max. Intensity: 763.67 cd

Pos of Max. Intensity: H112.5 V2

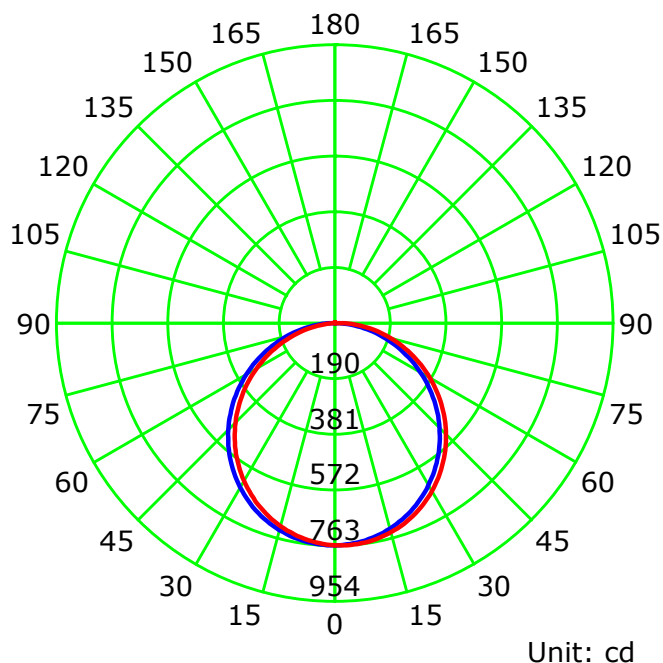
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.26

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

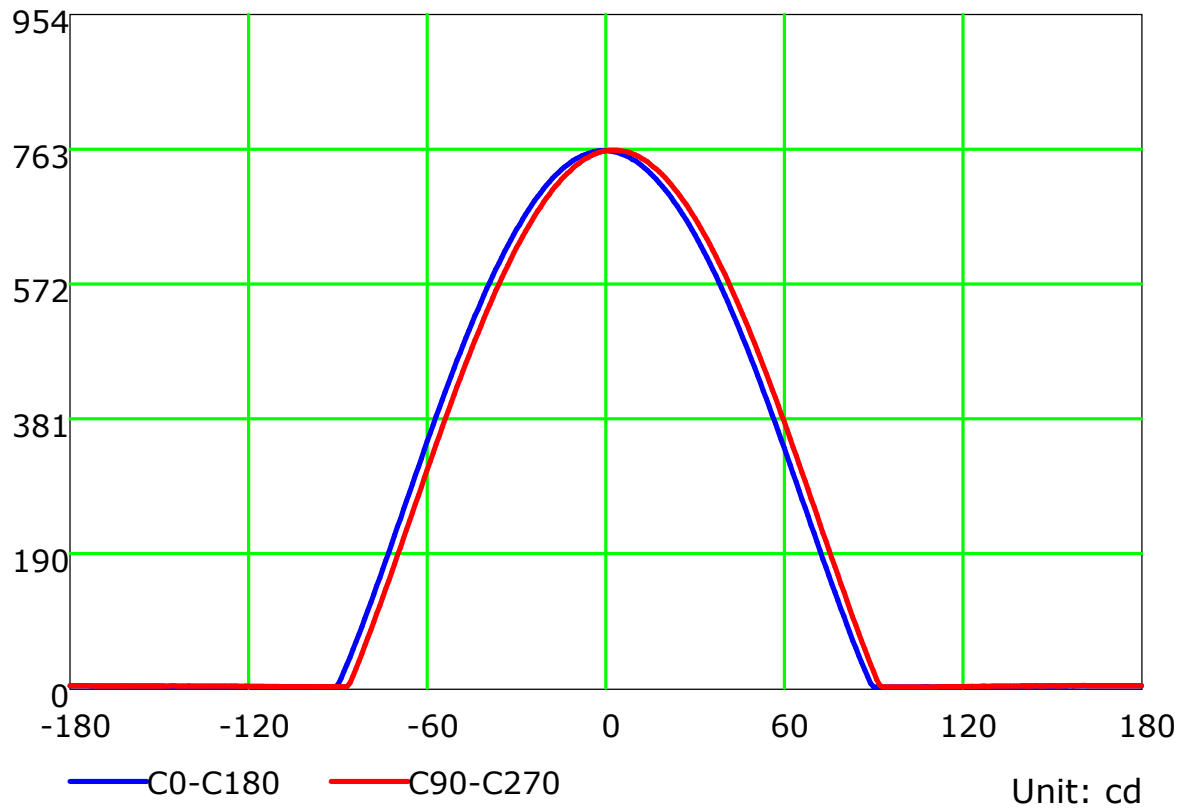
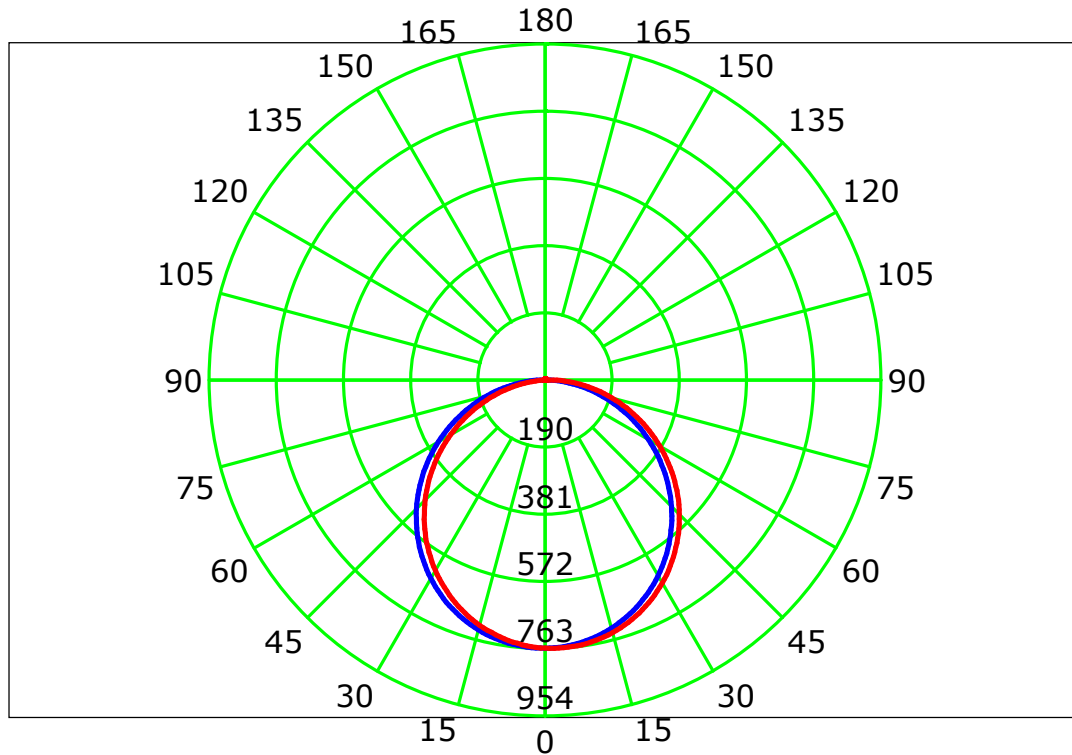
Test Device: LSG-1800B

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

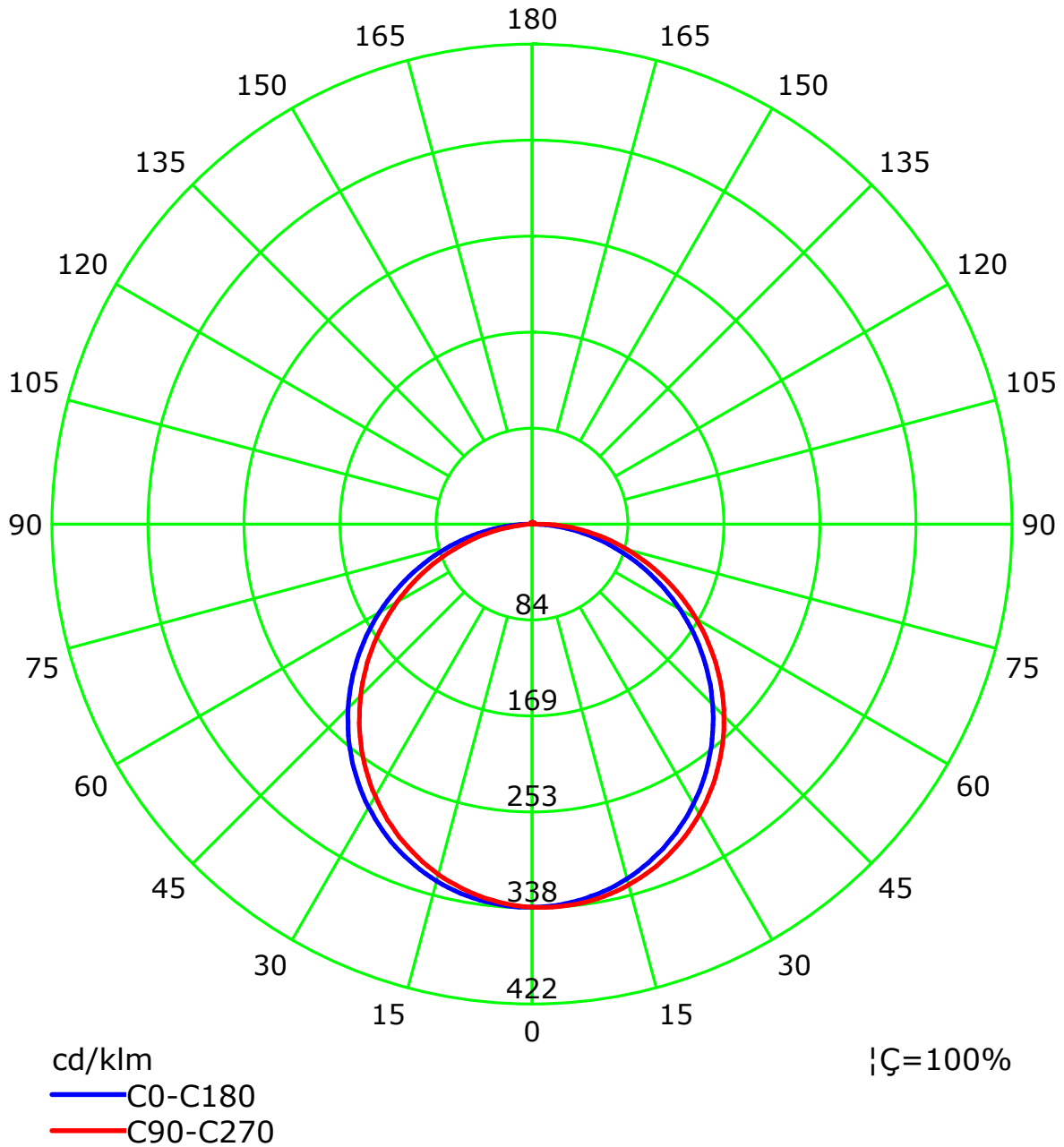
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)

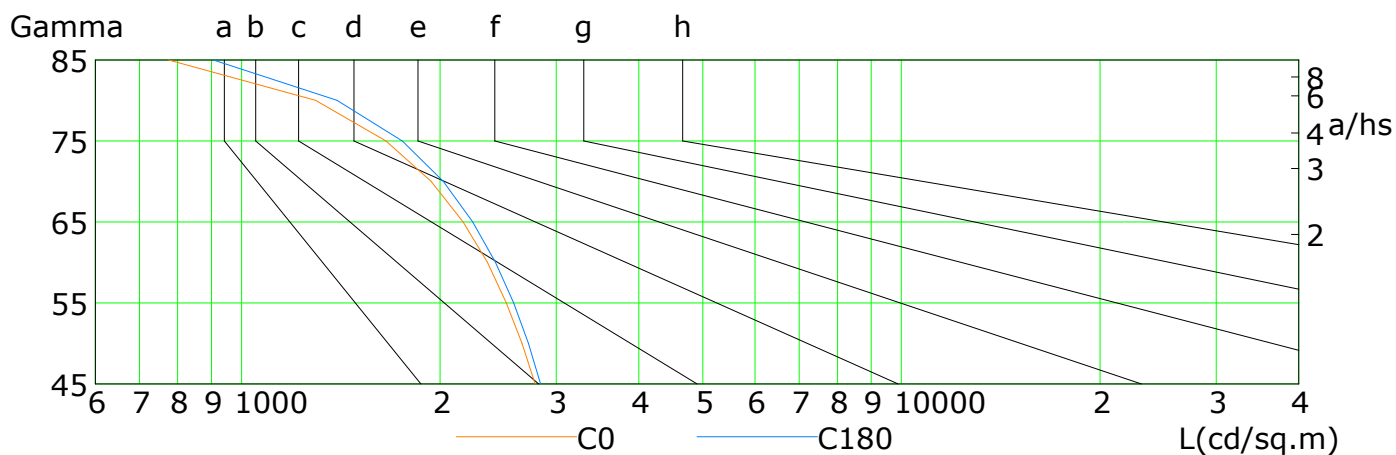
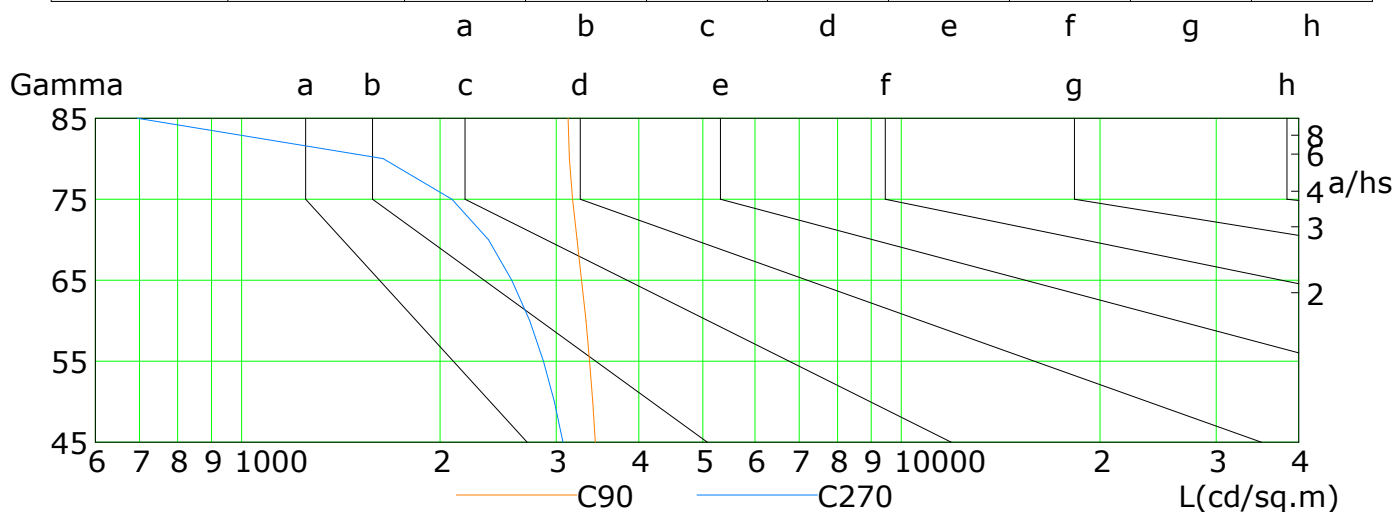


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

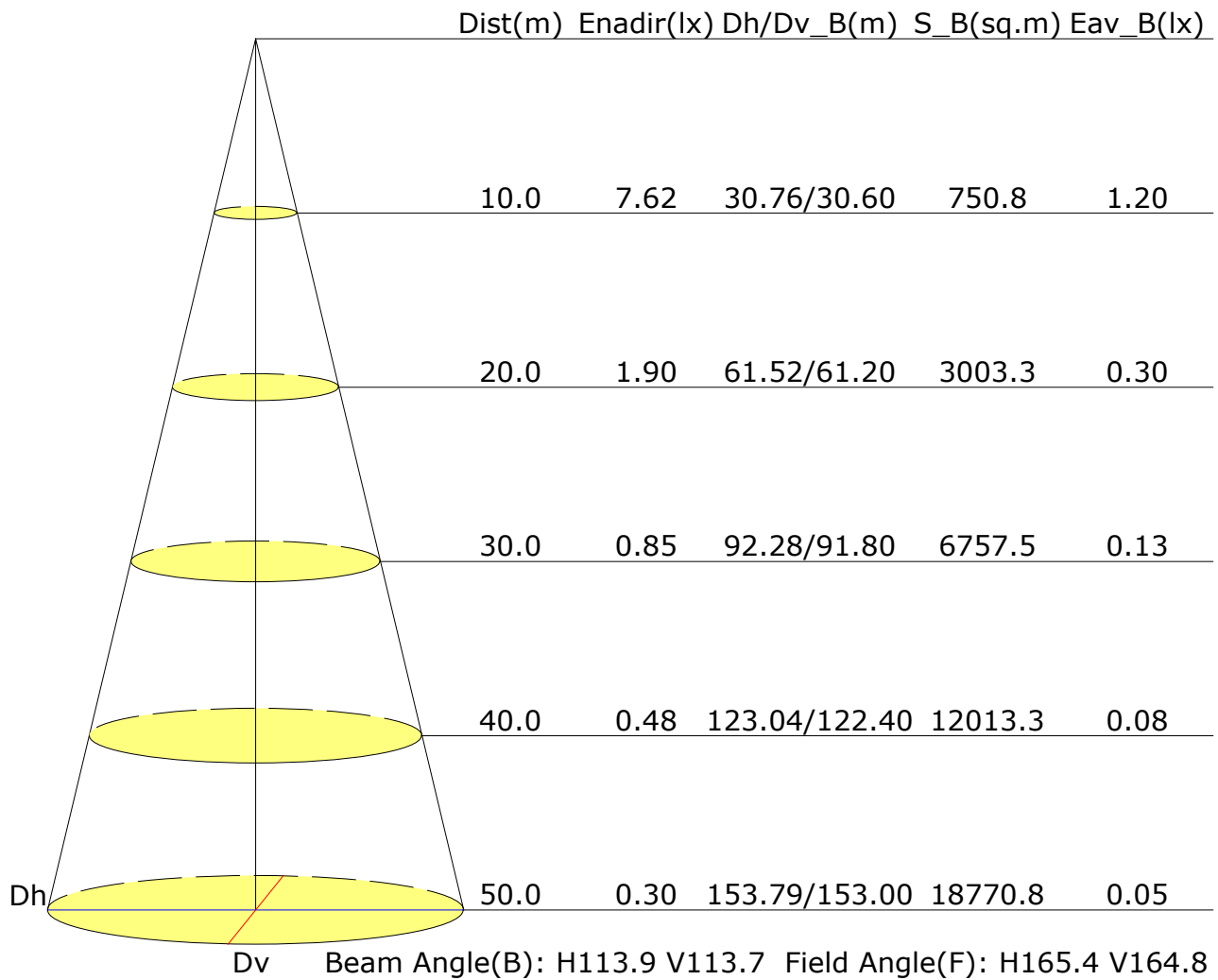


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2785	2662	2519	2358	2166	1938	1655	1295	775
C90	3435	3405	3367	3326	3275	3225	3174	3138	3126
C180	2838	2720	2584	2425	2239	2021	1752	1395	906
C270	3070	2978	2868	2732	2569	2366	2083	1639	695

C Plane (°):0.0-360.0: 22.5
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 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	15.7	17.1	16.0	17.4	17.6	16.2	17.6	16.5	17.9	18.1
3H	17.2	18.4	17.5	18.7	19.0	17.9	19.1	18.2	19.4	19.7
4H	17.7	18.9	18.1	19.2	19.6	18.6	19.8	18.9	20.1	20.4
6H	18.1	19.2	18.5	19.6	19.9	19.1	20.2	19.5	20.6	20.9
8H	18.2	19.3	18.6	19.6	20.0	19.3	20.4	19.7	20.7	21.1
12H	18.3	19.3	18.7	19.7	20.0	19.5	20.5	19.9	20.9	21.2
X=4H Y=2H	16.4	17.6	16.8	17.9	18.2	16.8	18.0	17.2	18.3	18.6
3H	18.0	19.1	18.4	19.4	19.8	18.6	19.7	19.0	20.0	20.4
4H	18.7	19.6	19.1	20.0	20.4	19.4	20.4	19.9	20.7	21.1
6H	19.2	20.0	19.6	20.4	20.9	20.1	20.9	20.5	21.3	21.8
8H	19.4	20.1	19.8	20.5	21.0	20.4	21.1	20.8	21.6	22.0
12H	19.5	20.1	19.9	20.6	21.0	20.6	21.3	21.0	21.7	22.2
X=8H Y=4H	19.0	19.8	19.5	20.2	20.6	19.7	20.4	20.1	20.8	21.3
6H	19.6	20.3	20.1	20.7	21.2	20.5	21.1	21.0	21.5	22.0
8H	19.9	20.4	20.4	20.9	21.4	20.8	21.4	21.3	21.8	22.3
12H	20.0	20.5	20.5	21.0	21.5	21.1	21.6	21.6	22.1	22.6
X=12H Y=4H	19.0	19.7	19.5	20.2	20.6	19.7	20.4	20.1	20.8	21.3
6H	19.7	20.3	20.2	20.7	21.2	20.5	21.1	21.0	21.5	22.0
8H	20.0	20.5	20.5	20.9	21.5	20.9	21.4	21.4	21.9	22.4
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.2				
S=1.5H	+0.3/-0.5					+0.5/-0.6				
S=2.0H	+0.5/-0.9					+0.5/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2257lm ($8\log(F/F_0) = 2.8$).

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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	0.55	0.66	0.73	0.78	0.86	0.91	0.95	0.99	1.02	
	0.30		0.47	0.58	0.65	0.71	0.79	0.85	0.89	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.74	0.80	0.85	0.91	0.95	
0.50	0.50	0.20	0.54	0.64	0.70	0.76	0.83	0.87	0.91	0.95	0.98	
	0.30		0.46	0.57	0.64	0.69	0.77	0.82	0.86	0.92	0.95	
	0.20		0.41	0.51	0.59	0.64	0.72	0.78	0.83	0.88	0.92	
0.30	0.50	0.20	0.52	0.62	0.68	0.73	0.80	0.84	0.87	0.91	0.94	
	0.30		0.46	0.55	0.62	0.68	0.75	0.80	0.84	0.88	0.91	
	0.20		0.41	0.51	0.58	0.63	0.71	0.76	0.80	0.86	0.89	
0.00	0.00	0.00	0.39	0.48	0.55	0.60	0.67	0.72	0.76	0.81	0.84	
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	0.84	0.72	0.63	0.50	0.42	0.36	0.28	0.23	
	0.30		0.85	0.72	0.63	0.56	0.46	0.38	0.33	0.26	0.22	
	0.20		0.73	0.63	0.56	0.50	0.42	0.36	0.31	0.25	0.21	
0.50	0.50	0.20	0.98	0.81	0.69	0.60	0.48	0.43	0.34	0.27	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.78	0.66	0.58	0.46	0.38	0.33	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.43	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.29	0.23	0.19	
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.32	0.27	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	0.19	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	0.17	0.18	0.19	0.19	0.20	0.21	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	0.10	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.19	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	0.09	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												