

Report No.: 1

Test Time: 27.11.2019 12:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 50 (1200) 2x65LED 0.7A 55W 5000K K B prozrachnoe steklo

Luminous Length (mm): 1245

Luminous Width (mm): 55

Luminous Height (mm): 80

Voltage: 221.6 V

Current: 0.259 A

Power: 56.70 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Measurement Flux: 6924 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 6924.0 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.1, 124.8, 137.2, 138.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.3, 105.5, 109.4, 110.1

Luminaire Efficacy Rating (LER): 122.17

Central Intensity: 2722.05 cd

Max. Intensity: 2724.21 cd

Pos of Max. Intensity: H135 V1

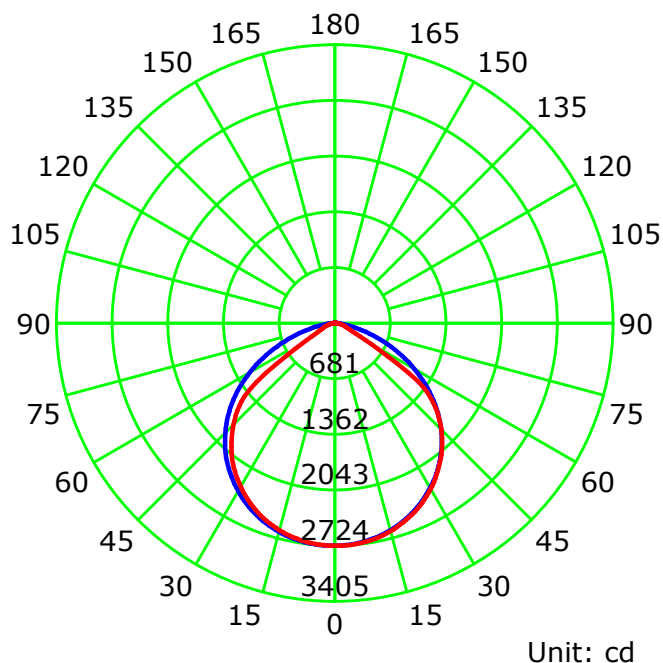
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.27

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

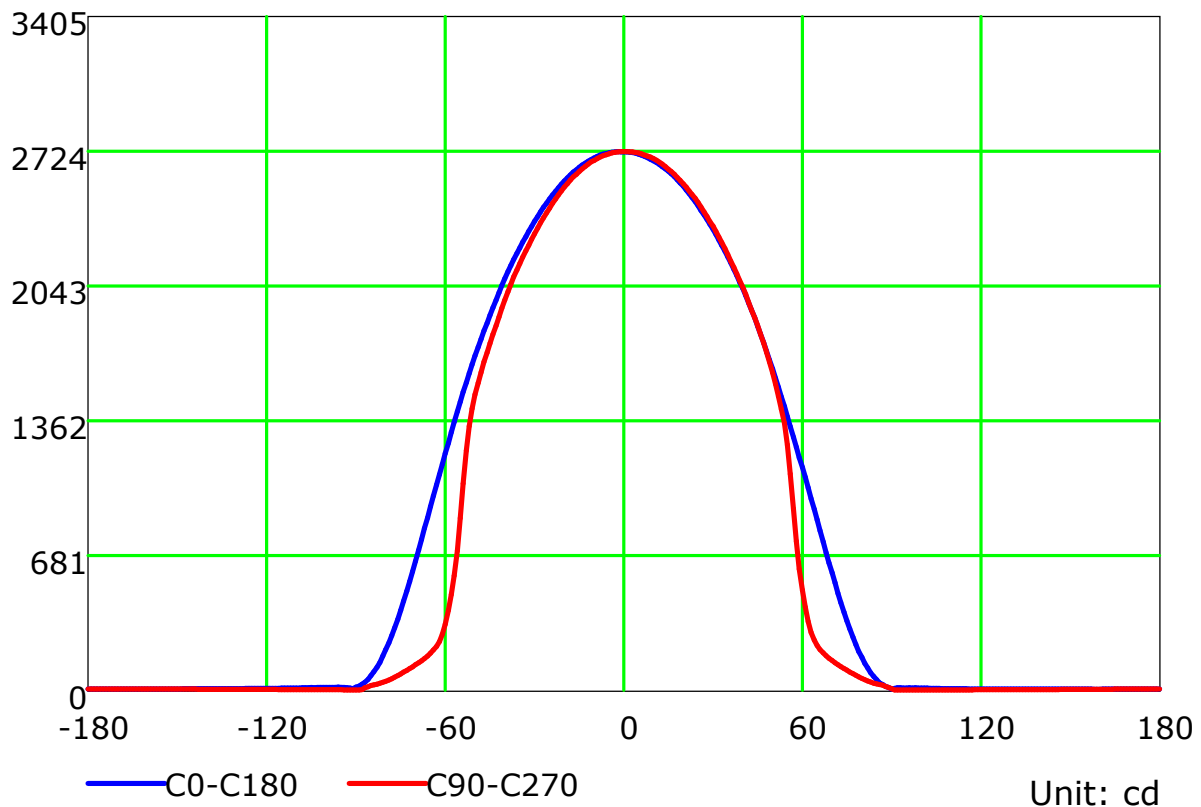
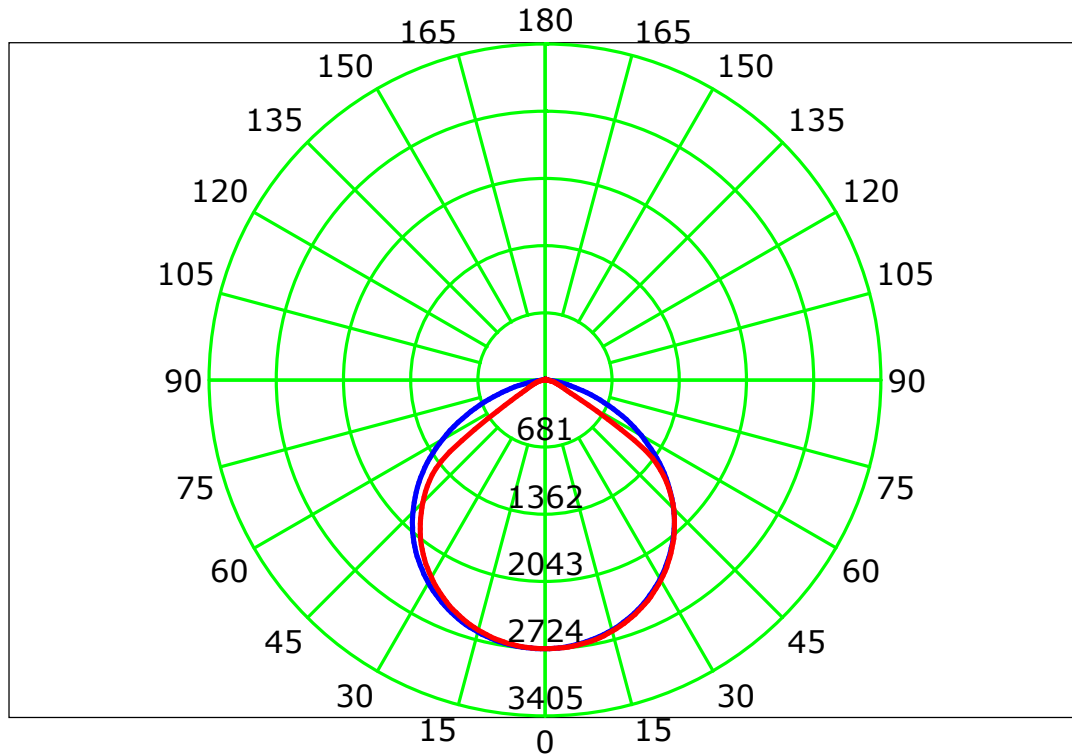
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

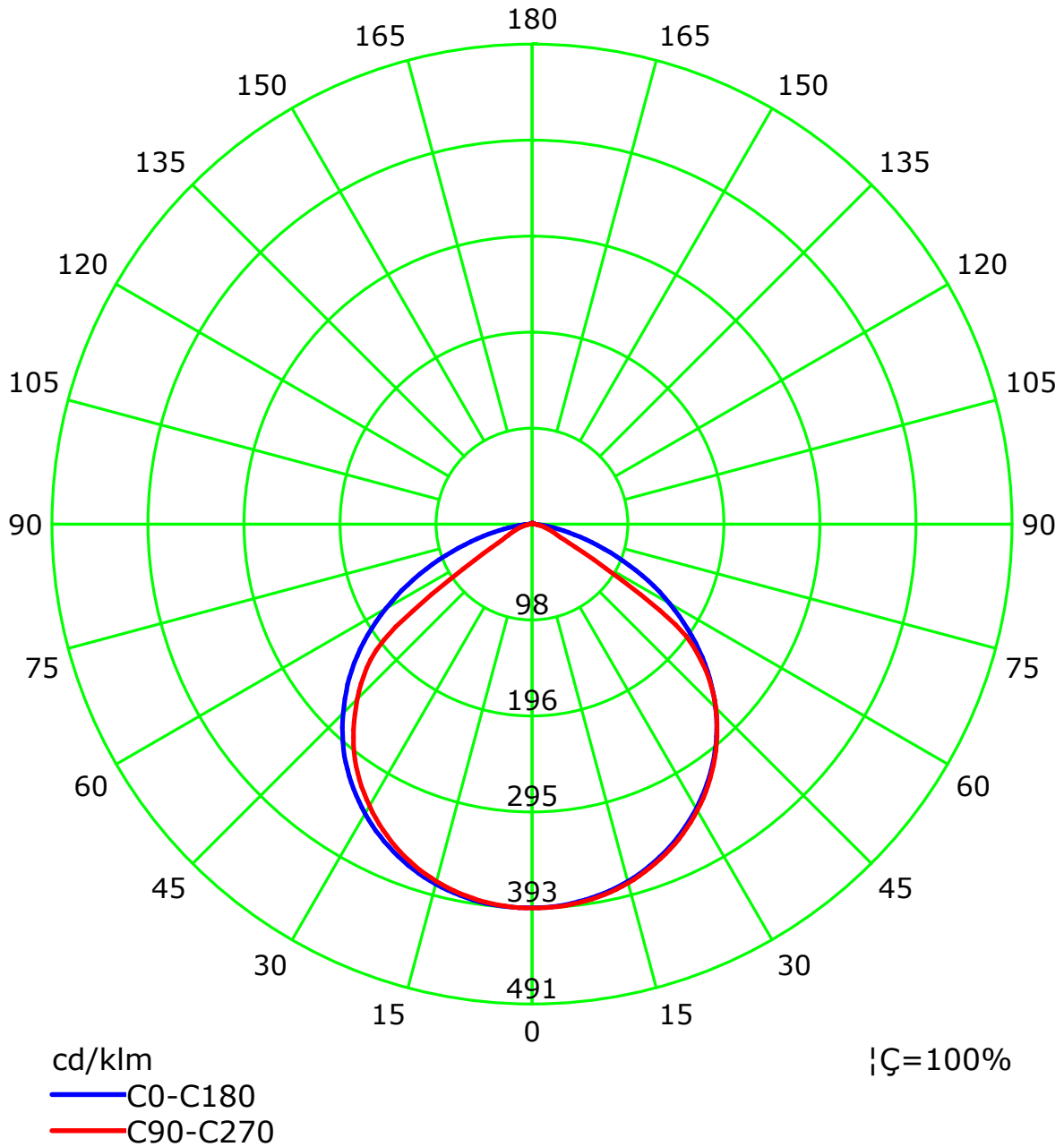
Luminous Intensity Distribution Curve



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:

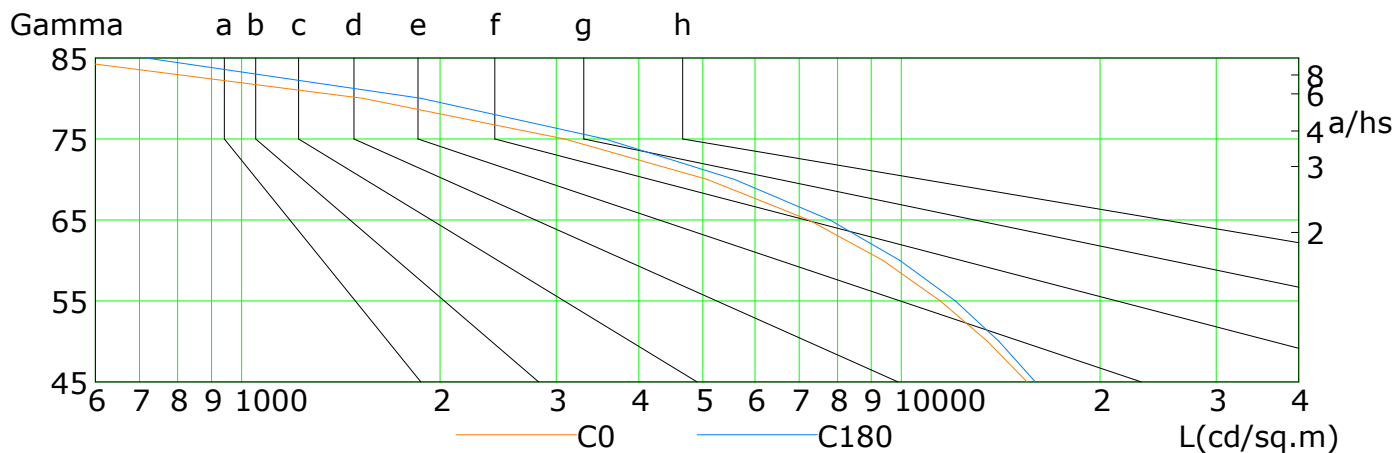
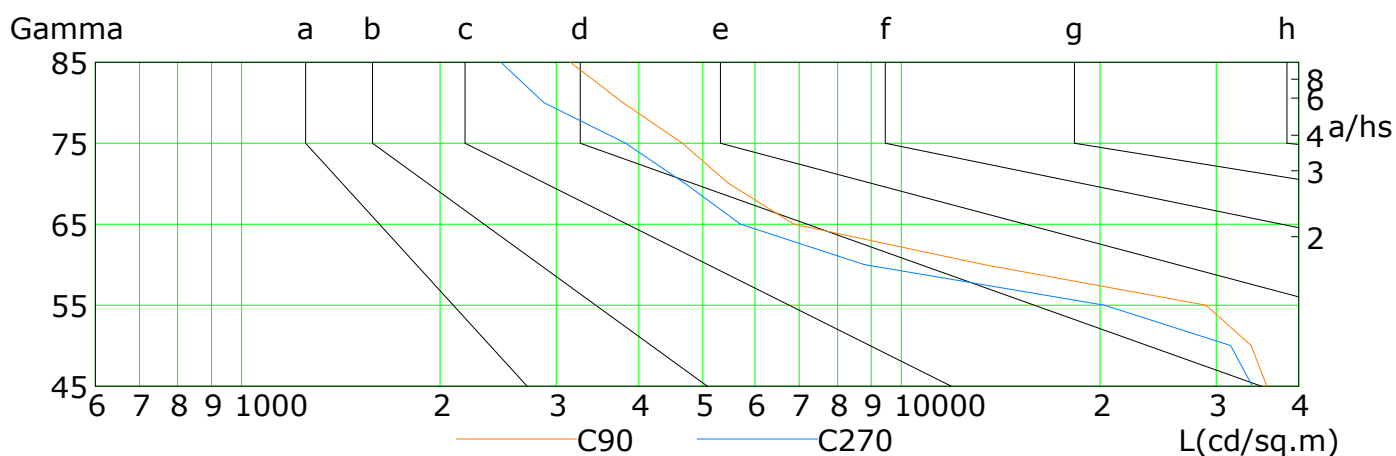
Luminous Intensity Distribution Curve(cd/klm)



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

a b c d e f g h

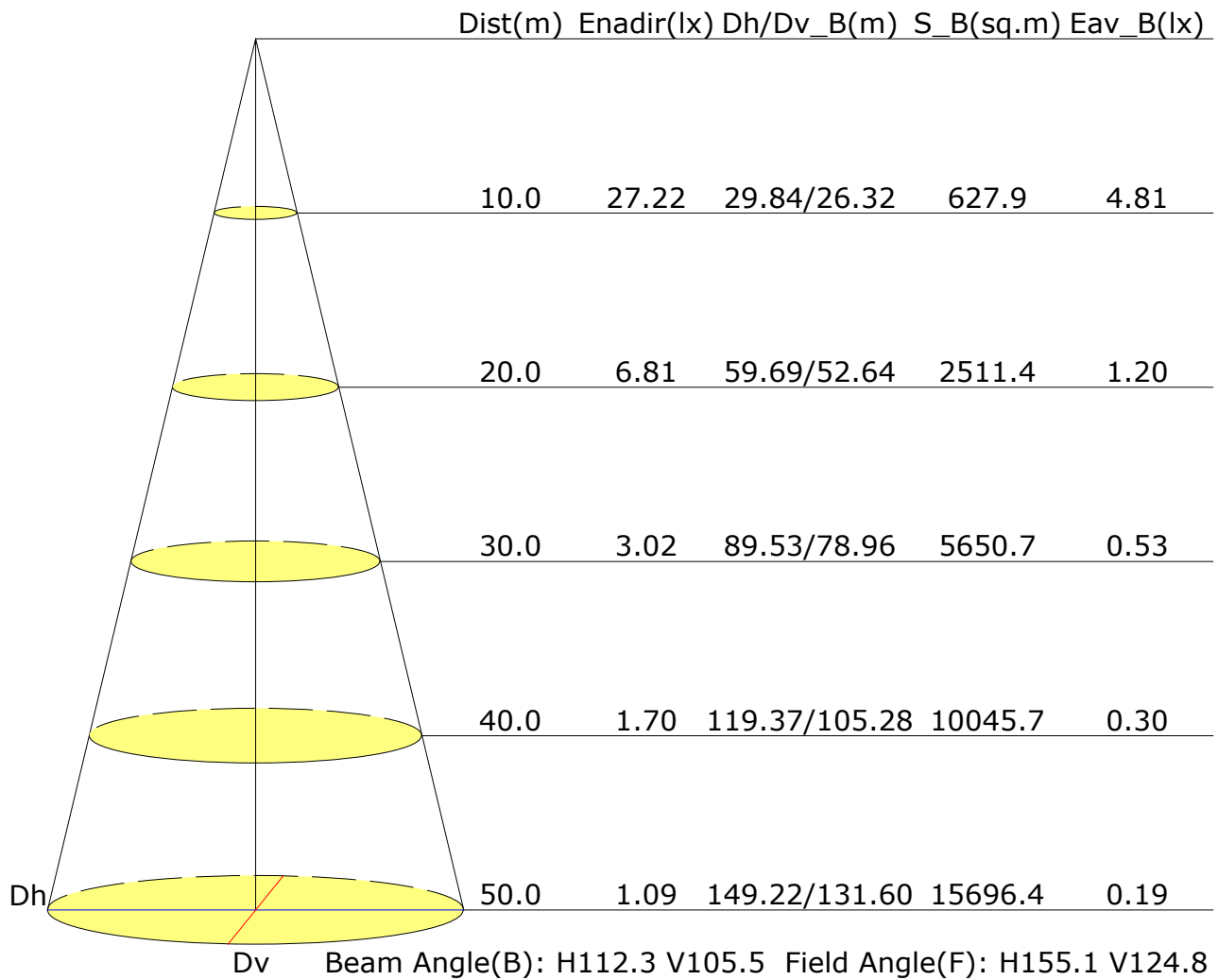


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	15502	13503	11449	9365	7238	5075	3089	1527	509
C90	35811	33898	28940	13331	6879	5474	4656	3781	3149
C180	15958	14055	12066	9942	7795	5578	3555	1871	717
C270	34052	31555	20327	8782	5704	4701	3820	2872	2471

C Plane (°):0.0-360.0: 22.5
 Test Lab:
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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	21.4	22.7	21.7	23.0	23.2	21.7	23.0	22.0	23.2	23.5
3H	22.2	23.3	22.5	23.6	23.9	21.7	22.9	22.0	23.1	23.4
4H	22.3	23.4	22.7	23.7	24.0	21.7	22.8	22.0	23.1	23.4
6H	22.3	23.3	22.7	23.7	24.0	21.7	22.7	22.0	23.0	23.3
8H	22.3	23.3	22.7	23.6	24.0	21.6	22.6	22.0	22.9	23.3
12H	22.3	23.2	22.7	23.6	23.9	21.6	22.5	22.0	22.9	23.2
X=4H Y=2H	21.7	22.8	22.0	23.1	23.4	21.9	23.0	22.2	23.3	23.6
3H	22.5	23.4	22.9	23.8	24.1	21.9	22.8	22.3	23.2	23.5
4H	22.7	23.5	23.1	23.9	24.3	21.9	22.7	22.3	23.1	23.5
6H	22.7	23.5	23.2	23.9	24.3	21.9	22.6	22.3	23.0	23.4
8H	22.7	23.4	23.2	23.8	24.2	21.9	22.6	22.3	23.0	23.4
12H	22.7	23.3	23.2	23.7	24.2	21.9	22.5	22.3	22.9	23.4
X=8H Y=4H	22.6	23.3	23.1	23.7	24.1	21.9	22.5	22.3	22.9	23.4
6H	22.7	23.2	23.2	23.7	24.1	21.9	22.4	22.4	22.9	23.3
8H	22.7	23.2	23.2	23.6	24.1	21.9	22.3	22.4	22.8	23.3
12H	22.7	23.1	23.2	23.6	24.1	21.9	22.3	22.4	22.8	23.3
X=12H Y=4H	22.6	23.2	23.0	23.6	24.1	21.8	22.4	22.3	22.9	23.3
6H	22.7	23.1	23.1	23.6	24.1	21.9	22.3	22.3	22.8	23.3
8H	22.7	23.1	23.2	23.5	24.1	21.9	22.3	22.4	22.7	23.2
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.7/-0.7				
S=1.5H	+0.7/-1.4					+2.4/-5.0				
S=2.0H	+1.3/-2.3					+4.0/-7.0				

Calculate in accordance with CIE Pub.117. The table is revised with 6924lm ($8\log(F/F_0) = 6.7$).

C Plane (°):0.0-360.0: 22.5
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Gamma Plane (°):0.0-180.0:1.0
 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	0.61	0.72	0.79	0.84	0.91	0.96	0.99	1.03	1.06	
	0.30		0.53	0.65	0.73	0.78	0.86	0.91	0.95	0.99	1.03	
	0.20		0.48	0.59	0.67	0.73	0.81	0.87	0.91	0.96	1.00	
0.50	0.50	0.20	0.59	0.70	0.77	0.82	0.88	0.92	0.95	0.99	1.01	
	0.30		0.53	0.64	0.71	0.76	0.84	0.88	0.92	0.96	0.99	
	0.20		0.48	0.59	0.66	0.72	0.80	0.85	0.88	0.93	0.97	
0.30	0.50	0.20	0.58	0.68	0.75	0.79	0.85	0.89	0.92	0.95	0.97	
	0.30		0.52	0.62	0.70	0.75	0.81	0.86	0.89	0.93	0.95	
	0.20		0.47	0.58	0.66	0.71	0.78	0.83	0.86	0.91	0.94	
0.00	0.00	0.00	0.45	0.56	0.63	0.68	0.75	0.79	0.82	0.86	0.89	
Rating:57W 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	0.94	0.75	0.63	0.54	0.43	0.35	0.30	0.23	0.19	
	0.30		0.78	0.64	0.55	0.48	0.39	0.32	0.28	0.22	0.18	
	0.20		0.67	0.56	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.90	0.72	0.60	0.52	0.41	0.37	0.28	0.22	0.17	
	0.30		0.76	0.63	0.53	0.46	0.37	0.31	0.26	0.20	0.17	
	0.20		0.66	0.55	0.48	0.42	0.34	0.29	0.25	0.19	0.16	
0.30	0.50	0.20	0.87	0.69	0.58	0.49	0.39	0.31	0.27	0.20	0.17	
	0.30		0.74	0.61	0.52	0.45	0.36	0.29	0.25	0.19	0.16	
	0.20		0.65	0.54	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
0.00	0.00	0.00	0.55	0.44	0.37	0.32	0.25	0.21	0.18	0.13	0.11	
Rating:57W 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	0.16	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	0.14	0.15	0.17	0.18	
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	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	
	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	0.10	0.12	0.13	0.14	0.16	0.17	
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:57W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												