

Report No.: 1

Test Time: 12.12.2019 10:07

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 8X18LED 0,4A 52W 3000K frozen (50)

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 35

Voltage: 221.2 V

Current: 0.242 A

Power: 52.84 W

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 6443.6 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 6443.6 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 149.8, 148.9, 149.4, 149.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.1, 99.2, 99.5, 99.9

Luminaire Efficacy Rating (LER): 122.00

Central Intensity: 2651.35 cd

Max. Intensity: 2652.88 cd

Pos of Max. Intensity: H0 V2

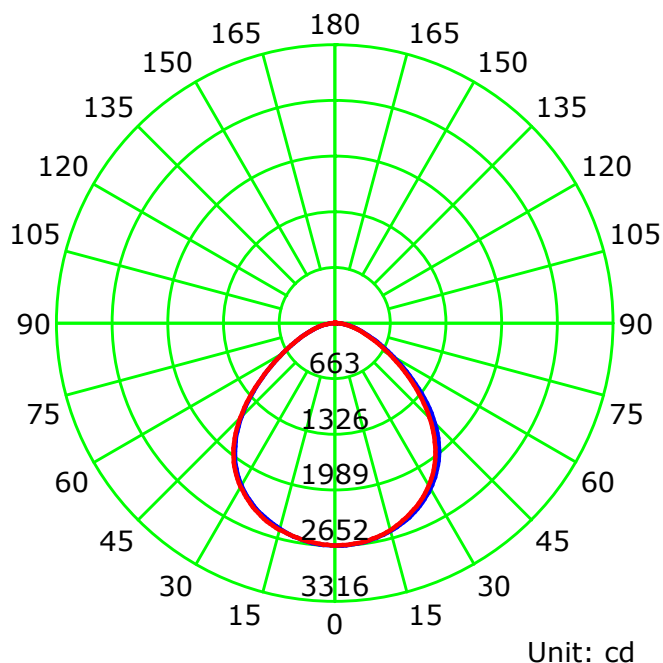
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.26

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

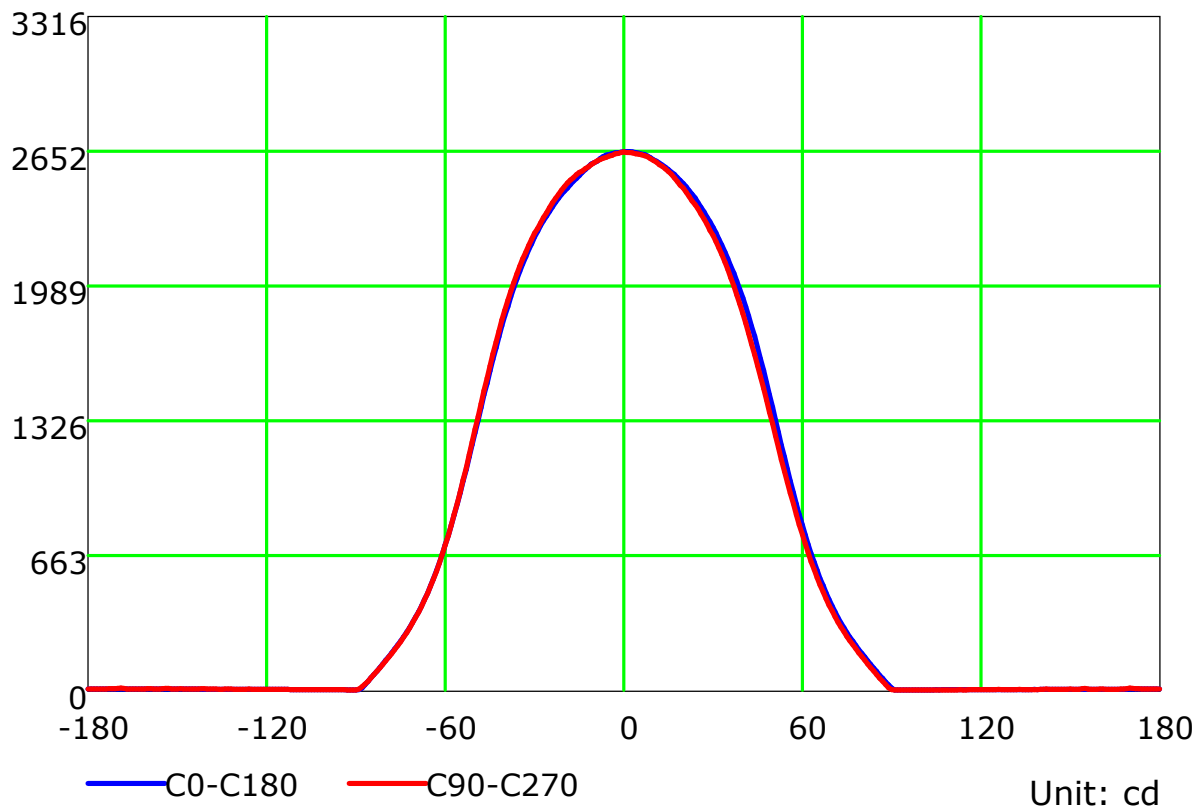
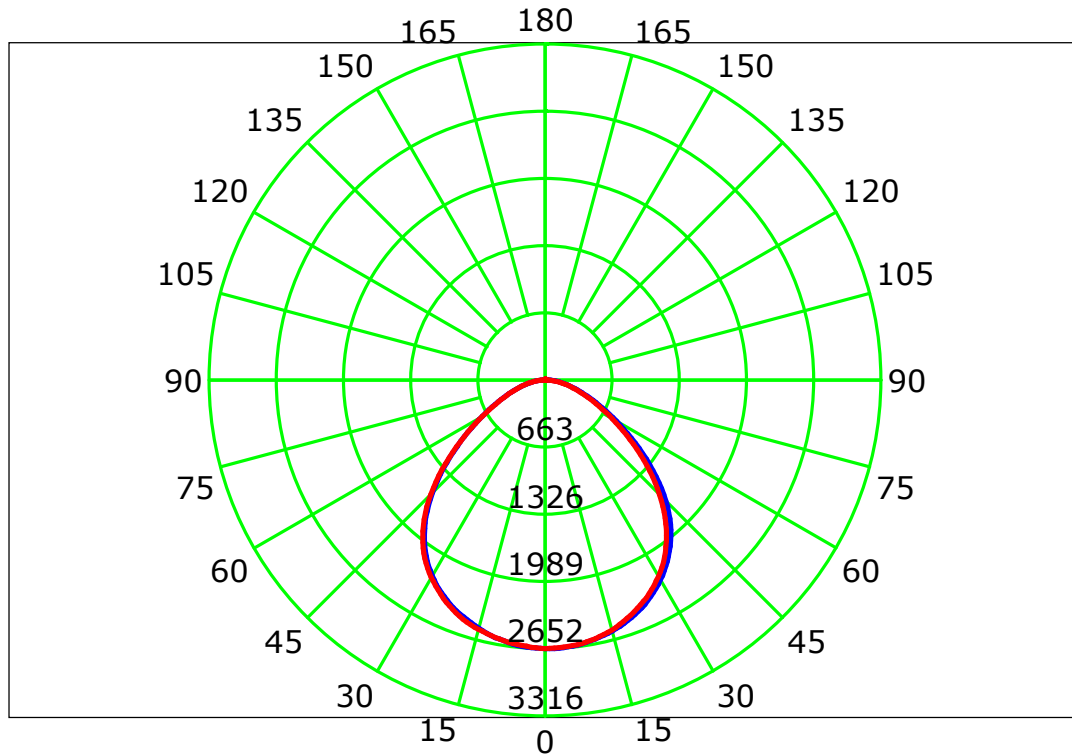
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

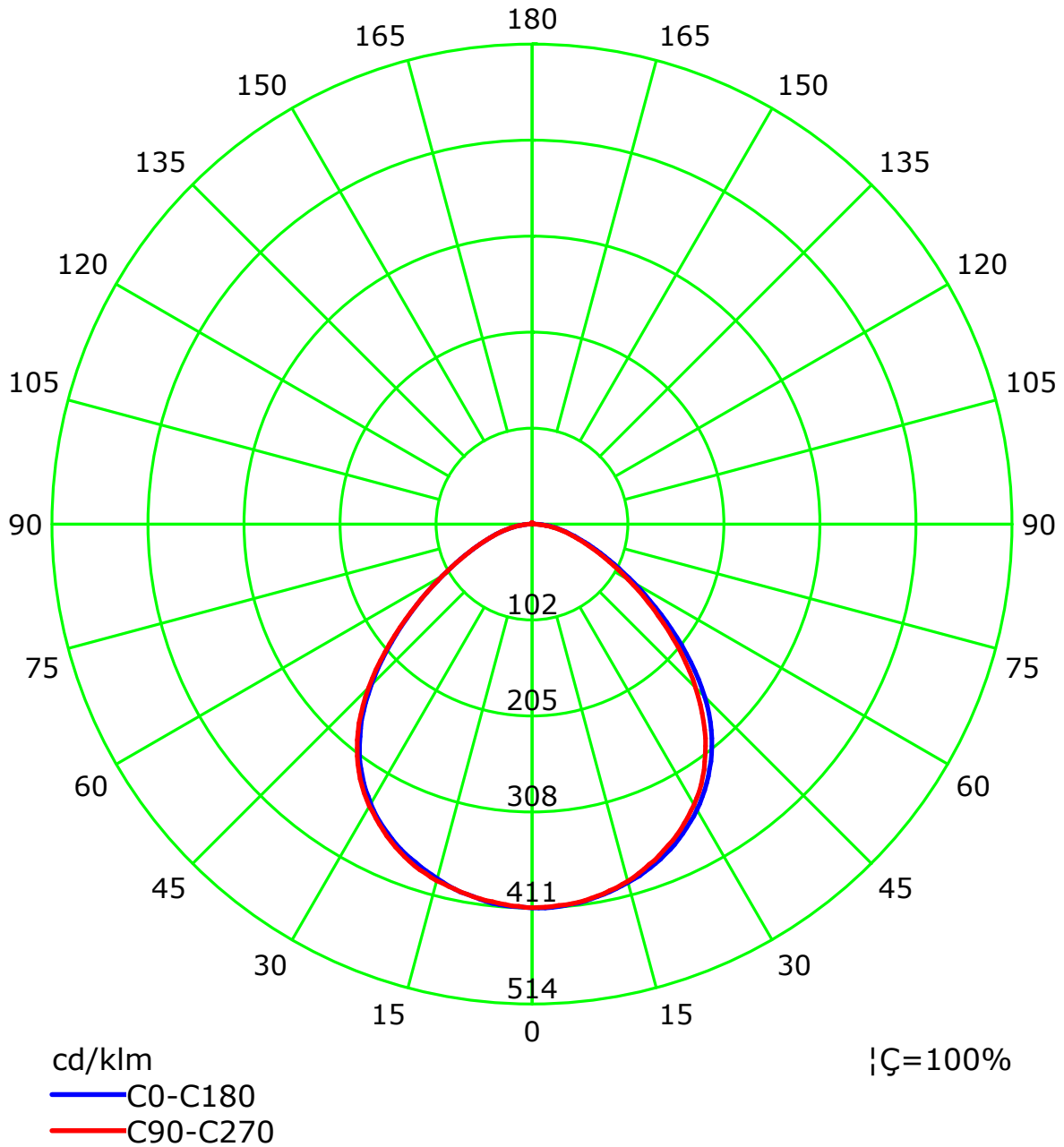
Luminous Intensity Distribution Curve



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:

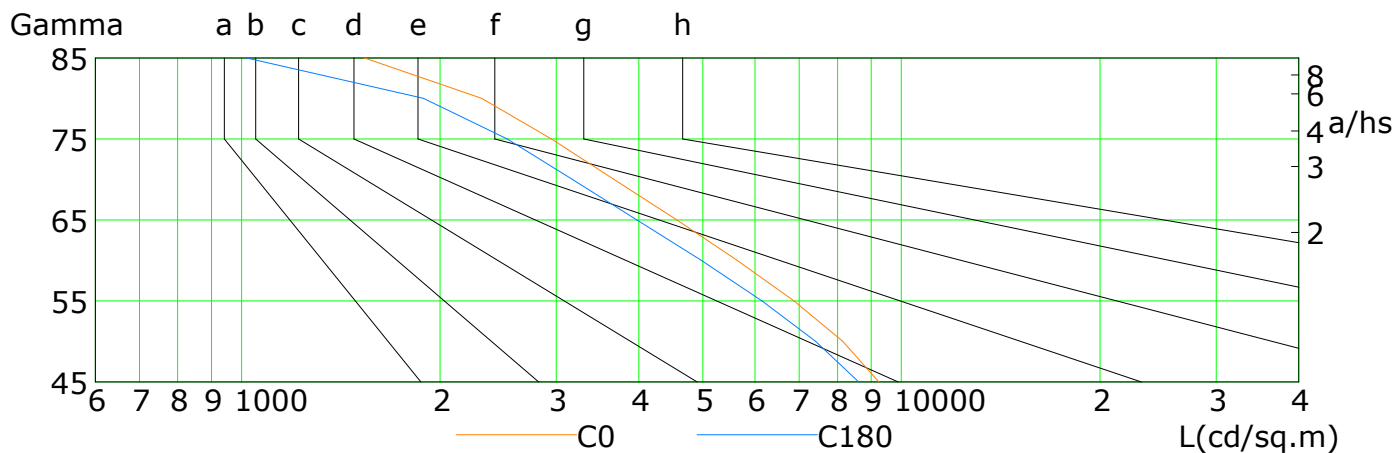
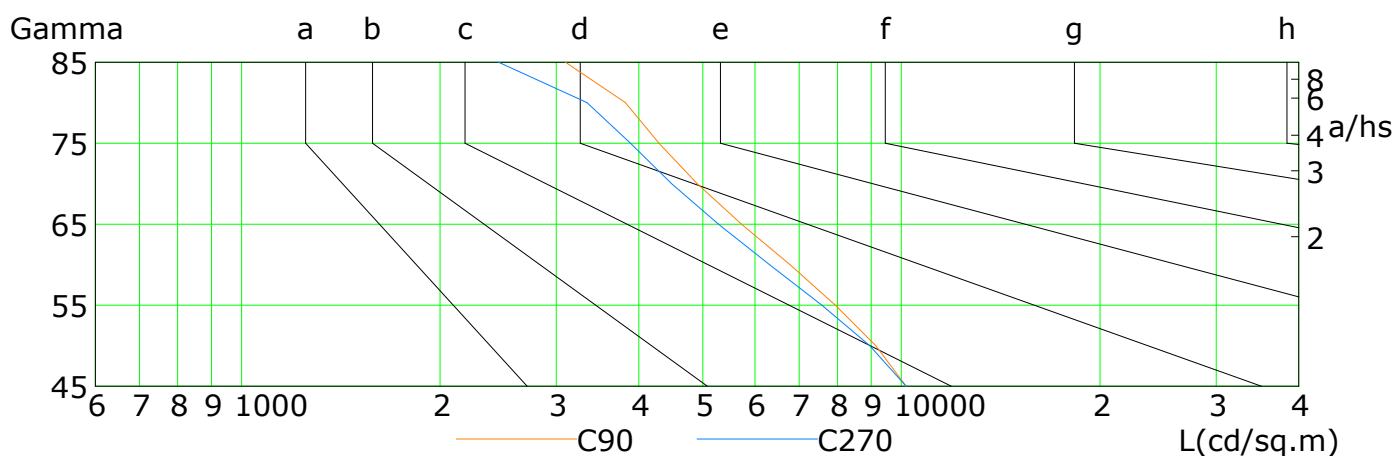
Luminous Intensity Distribution Curve(cd/klm)



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

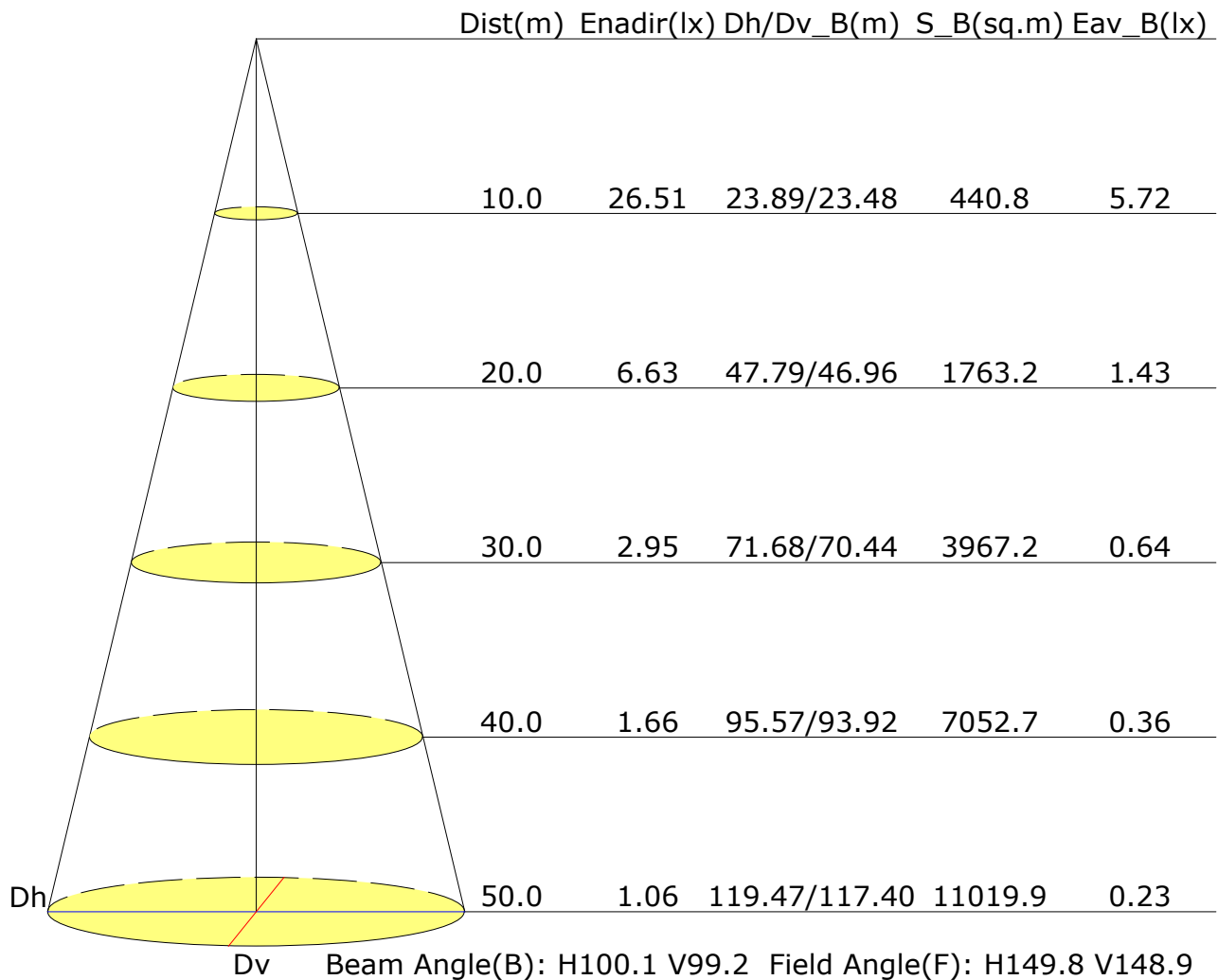


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	9245	8145	6877	5639	4570	3667	2948	2312	1536
C90	10169	9138	7942	6775	5724	4903	4289	3819	3099
C180	8619	7413	6146	4972	3975	3170	2527	1887	1018
C270	10162	8945	7577	6310	5280	4484	3886	3337	2453

C Plane (°):0.0-360.0: 22.5
 Test Lab:
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 Temperature:
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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	19.0	20.3	19.3	20.6	20.8	19.1	20.4	19.4	20.7	20.9
3H	19.8	21.0	20.1	21.2	21.5	20.0	21.1	20.3	21.4	21.7
4H	20.1	21.2	20.4	21.5	21.8	20.3	21.4	20.6	21.7	22.0
6H	20.3	21.3	20.6	21.6	21.9	20.5	21.5	20.9	21.8	22.2
8H	20.3	21.3	20.7	21.6	22.0	20.6	21.6	21.0	21.9	22.2
12H	20.3	21.3	20.7	21.6	22.0	20.6	21.6	21.0	21.9	22.3
X=4H Y=2H	19.4	20.5	19.7	20.8	21.1	19.5	20.6	19.8	20.9	21.2
3H	20.3	21.3	20.7	21.6	21.9	20.5	21.4	20.8	21.7	22.1
4H	20.7	21.5	21.1	21.9	22.3	20.9	21.7	21.3	22.1	22.5
6H	21.0	21.7	21.4	22.1	22.5	21.2	22.0	21.6	22.3	22.8
8H	21.1	21.8	21.5	22.2	22.6	21.3	22.0	21.8	22.4	22.9
12H	21.1	21.7	21.6	22.2	22.6	21.4	22.0	21.9	22.5	22.9
X=8H Y=4H	20.8	21.5	21.3	21.9	22.3	21.0	21.7	21.4	22.1	22.5
6H	21.2	21.7	21.7	22.2	22.7	21.4	22.0	21.9	22.4	22.9
8H	21.4	21.8	21.8	22.3	22.8	21.6	22.1	22.1	22.6	23.0
12H	21.5	21.9	22.0	22.4	22.9	21.7	22.2	22.2	22.6	23.1
X=12H Y=4H	20.8	21.4	21.3	21.8	22.3	21.0	21.6	21.4	22.0	22.5
6H	21.2	21.7	21.7	22.2	22.7	21.5	21.9	21.9	22.4	22.9
8H	21.4	21.8	21.9	22.3	22.8	21.7	22.1	22.2	22.5	23.1
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.3/-0.4				
S=1.5H	+0.6/-1.0					+0.6/-1.1				
S=2.0H	+1.3/-1.7					+1.3/-1.7				

Calculate in accordance with CIE Pub.117. The table is revised with 6444lm ($8\log(F/F_0) = 6.5$).

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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	0.62	0.72	0.79	0.84	0.91	0.95	0.98	1.02	1.05	
	0.30		0.55	0.65	0.72	0.78	0.85	0.90	0.94	0.99	1.02	
	0.20		0.49	0.60	0.67	0.73	0.81	0.86	0.90	0.96	0.99	
0.50	0.50	0.20	0.60	0.70	0.77	0.81	0.88	0.92	0.95	0.98	1.01	
	0.30		0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.95	0.98	
	0.20		0.49	0.59	0.66	0.72	0.79	0.84	0.88	0.93	0.96	
0.30	0.50	0.20	0.59	0.68	0.74	0.79	0.85	0.89	0.91	0.95	0.97	
	0.30		0.53	0.63	0.69	0.74	0.81	0.85	0.88	0.92	0.95	
	0.20		0.49	0.59	0.65	0.71	0.77	0.82	0.86	0.90	0.93	
0.00	0.00	0.00	0.46	0.56	0.63	0.68	0.74	0.78	0.82	0.86	0.88	
Rating:53W 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	0.92	0.75	0.63	0.55	0.43	0.36	0.31	0.24	0.19	
	0.30		0.77	0.64	0.55	0.48	0.39	0.33	0.28	0.22	0.18	
	0.20		0.66	0.56	0.49	0.43	0.36	0.30	0.26	0.21	0.17	
0.50	0.50	0.20	0.89	0.72	0.60	0.52	0.41	0.37	0.29	0.22	0.18	
	0.30		0.75	0.62	0.53	0.47	0.38	0.31	0.27	0.21	0.17	
	0.20		0.65	0.55	0.48	0.42	0.35	0.29	0.25	0.20	0.17	
0.30	0.50	0.20	0.86	0.69	0.58	0.50	0.39	0.32	0.27	0.21	0.17	
	0.30		0.73	0.60	0.52	0.45	0.36	0.30	0.26	0.20	0.17	
	0.20		0.64	0.54	0.47	0.41	0.34	0.28	0.24	0.19	0.16	
0.00	0.00	0.00	0.53	0.44	0.37	0.32	0.26	0.21	0.18	0.14	0.12	
Rating:53W 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	0.17	0.18	0.19	0.20	0.20	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	0.14	0.15	0.16	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	0.12	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	0.17	0.18	0.19	0.19	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	0.17	
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:53W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												