

Report No.: 1

Test Time: 10.12.2019 18:37

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 8x18LED 0,3A 36W 5000K opal (50)

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 50

Voltage: 221.2 V

Current: 0.169 A

Power: 36.63 W

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Measurement Flux: 3911.5 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3911.5 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.6, 164.1, 164.3, 164.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.9, 112.5, 112.6, 112.8

Luminaire Efficacy Rating (LER): 106.83

Central Intensity: 1346.77 cd

Max. Intensity: 1347.45 cd

Pos of Max. Intensity: H180 V2

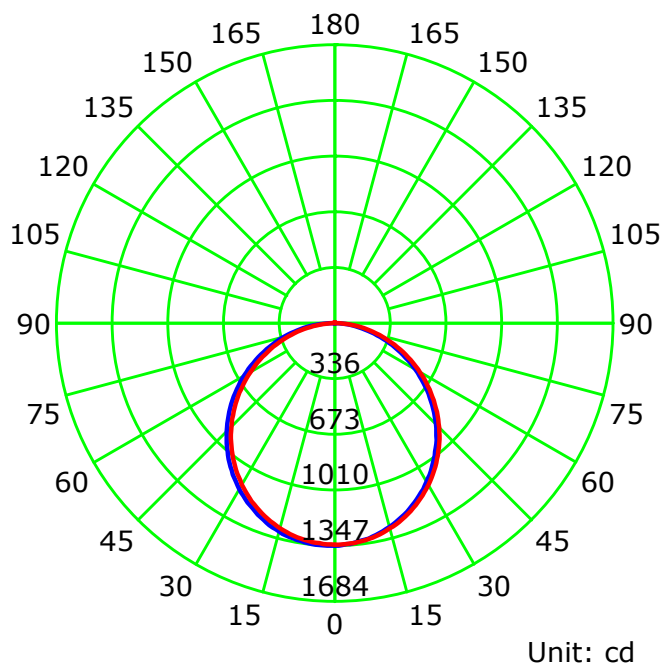
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.25

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

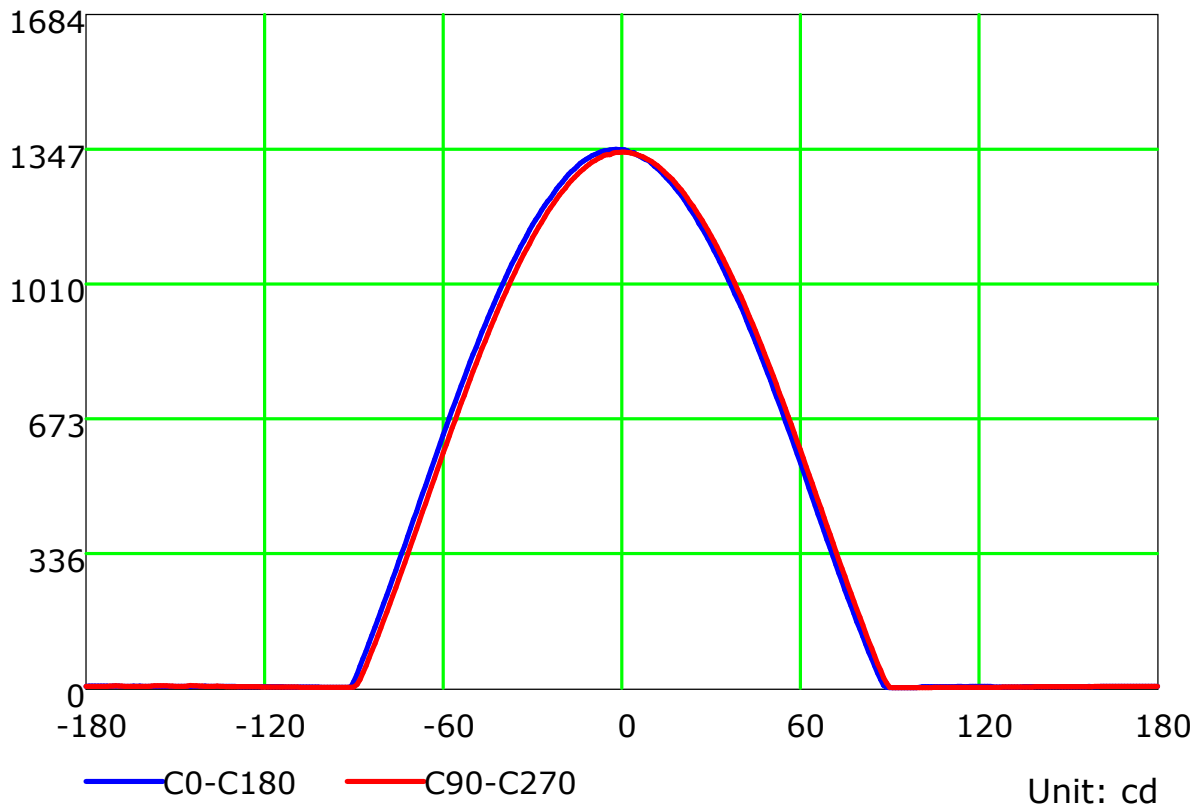
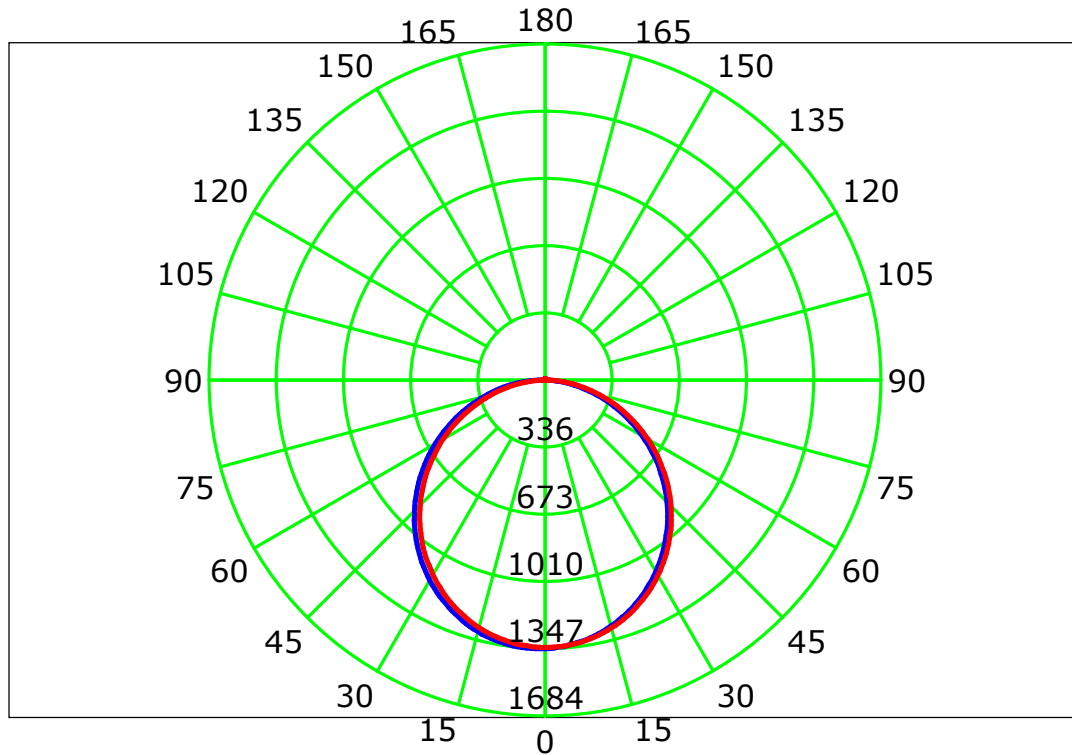
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

Test Type: TYPE C

Temperature:

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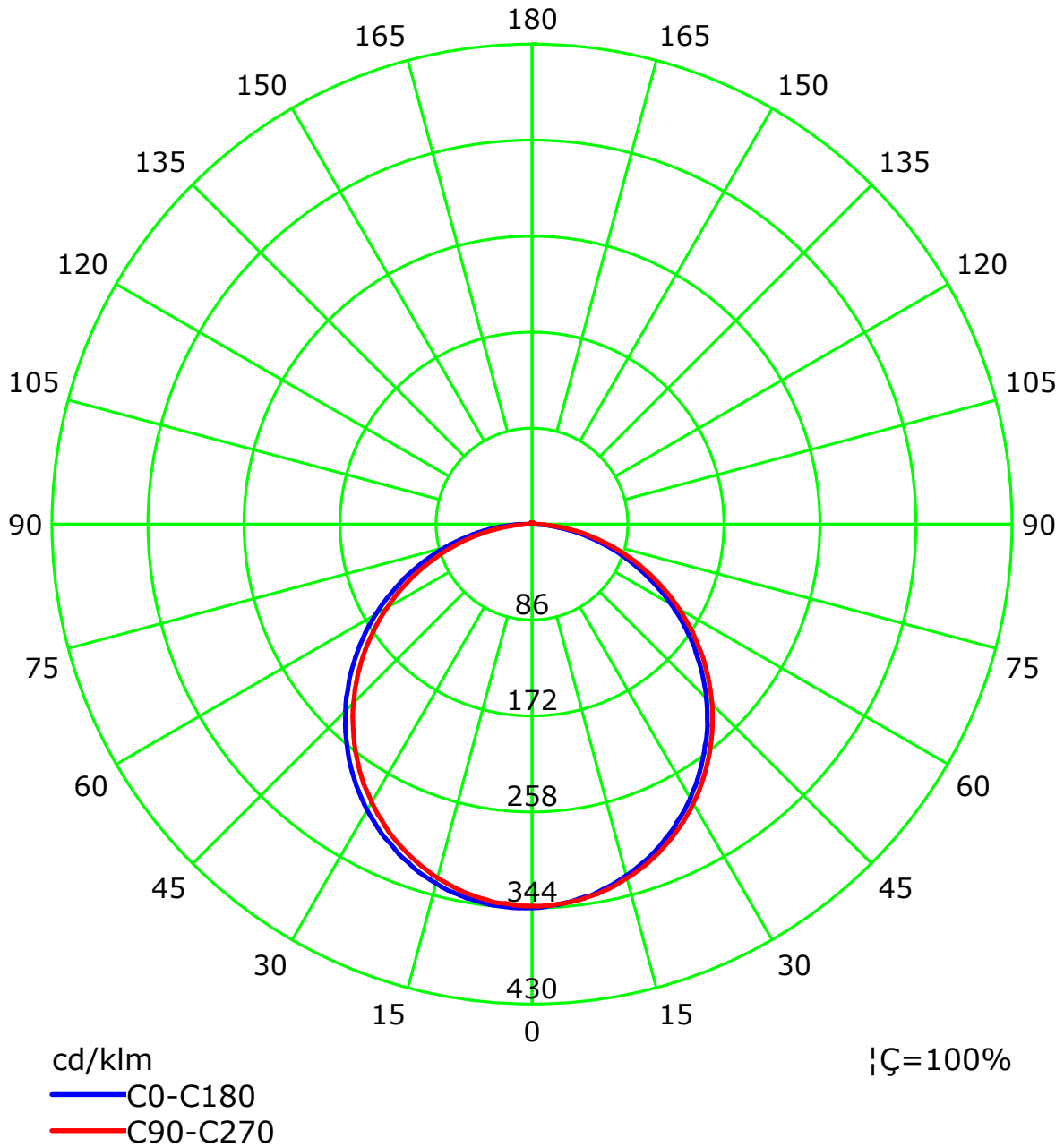
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)

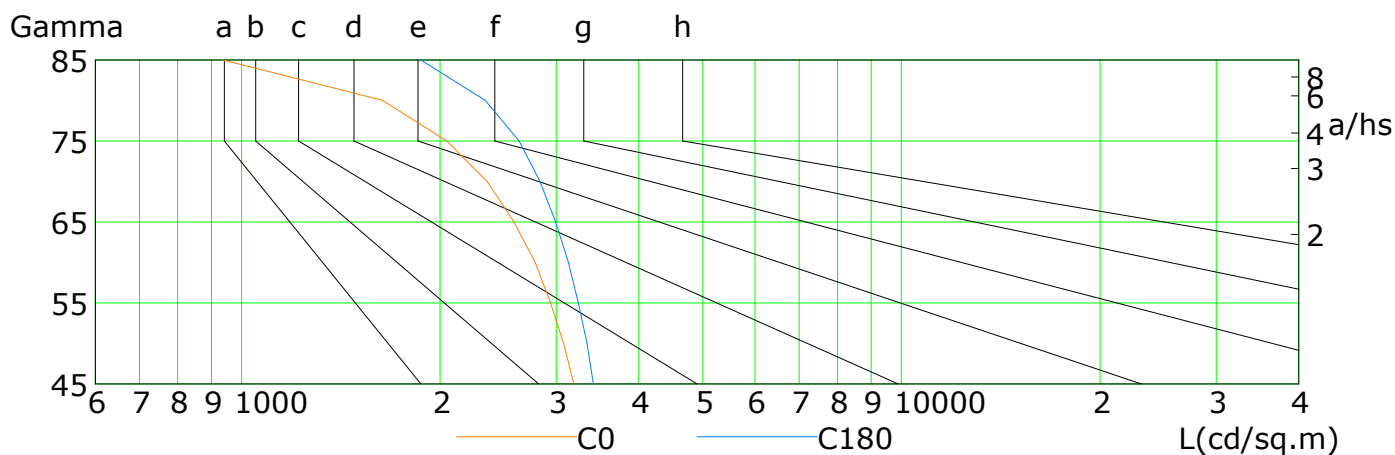
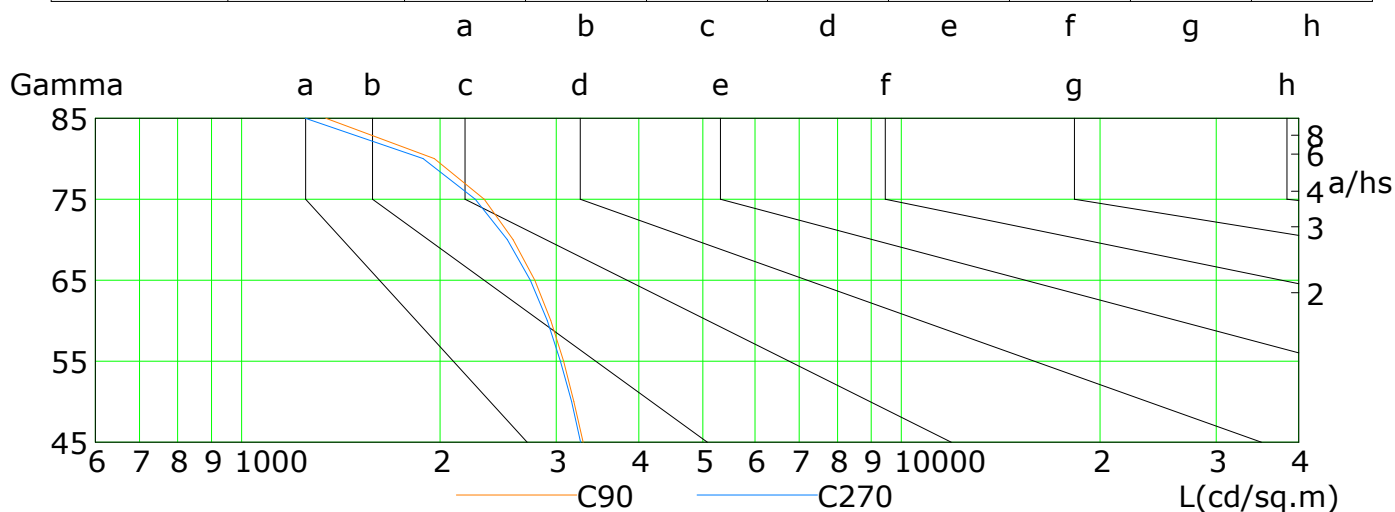


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

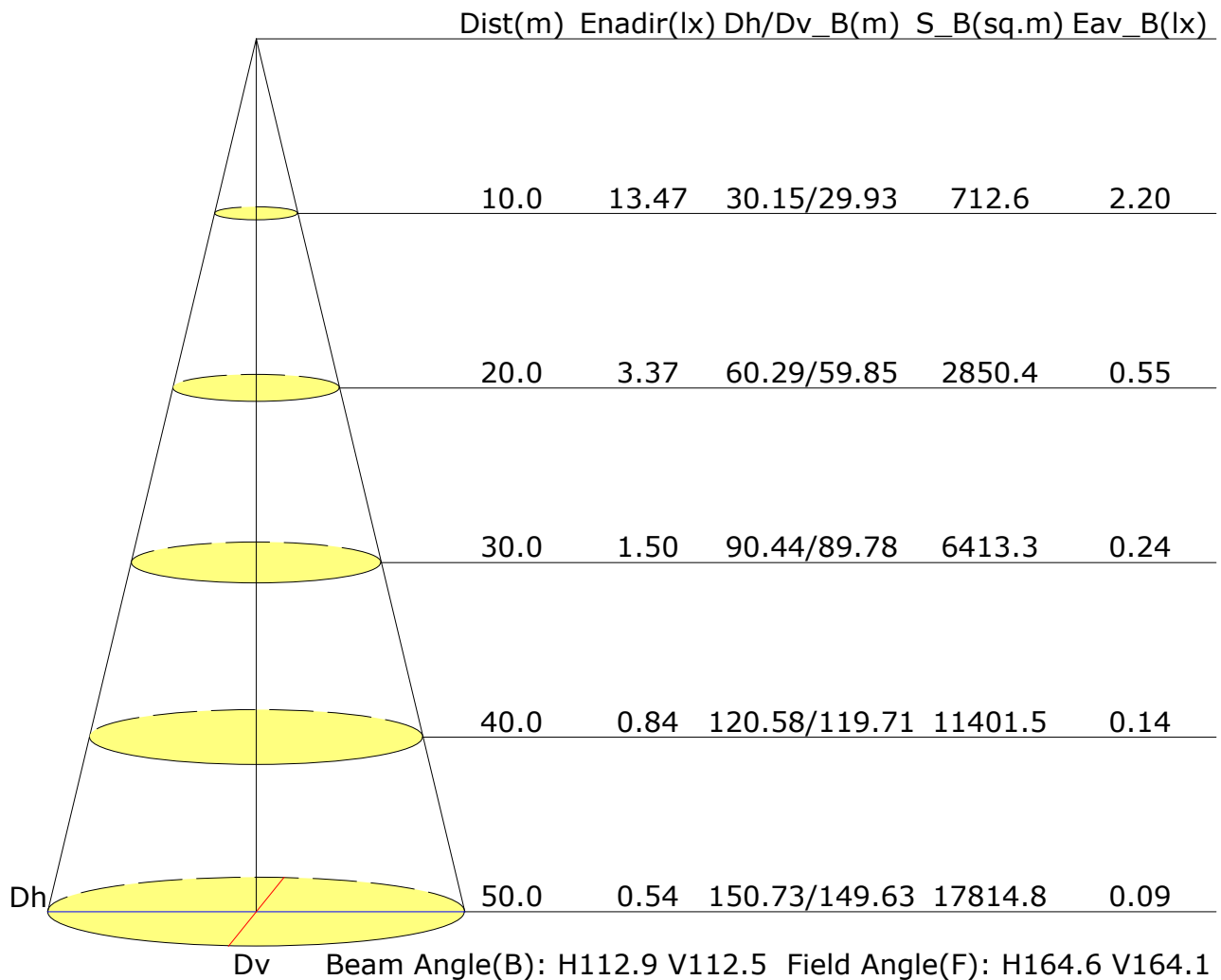


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3190	3075	2937	2784	2588	2355	2047	1635	937
C90	3292	3188	3076	2942	2782	2578	2332	1959	1341
C180	3415	3336	3239	3127	2991	2832	2633	2340	1870
C270	3265	3165	3044	2906	2739	2527	2260	1885	1250

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	16.1	17.5	16.4	17.7	18.0	16.3	17.7	16.6	17.9	18.2
3H	17.5	18.8	17.8	19.1	19.3	17.8	19.1	18.1	19.4	19.7
4H	18.1	19.3	18.4	19.6	19.9	18.4	19.6	18.8	19.9	20.2
6H	18.4	19.5	18.8	19.9	20.2	18.9	20.0	19.2	20.3	20.6
8H	18.5	19.6	18.9	19.9	20.3	19.0	20.1	19.4	20.4	20.8
12H	18.6	19.6	19.0	19.9	20.3	19.1	20.1	19.5	20.5	20.8
X=4H Y=2H	16.7	17.9	17.1	18.2	18.5	16.9	18.1	17.2	18.4	18.7
3H	18.3	19.3	18.7	19.7	20.1	18.6	19.6	19.0	20.0	20.3
4H	19.0	19.9	19.4	20.3	20.7	19.3	20.2	19.7	20.6	21.0
6H	19.5	20.3	19.9	20.7	21.1	19.9	20.7	20.3	21.1	21.5
8H	19.6	20.4	20.0	20.8	21.2	20.1	20.8	20.5	21.2	21.7
12H	19.7	20.4	20.1	20.8	21.2	20.2	20.9	20.6	21.3	21.8
X=8H Y=4H	19.2	20.0	19.7	20.4	20.9	19.6	20.3	20.0	20.7	21.2
6H	19.8	20.5	20.3	20.9	21.4	20.2	20.9	20.7	21.3	21.8
8H	20.0	20.6	20.5	21.1	21.6	20.5	21.0	21.0	21.5	22.0
12H	20.2	20.6	20.7	21.1	21.6	20.7	21.1	21.2	21.6	22.1
X=12H Y=4H	19.3	20.0	19.7	20.4	20.8	19.6	20.2	20.0	20.7	21.1
6H	19.9	20.4	20.4	20.9	21.4	20.3	20.8	20.8	21.3	21.8
8H	20.1	20.6	20.6	21.1	21.6	20.6	21.0	21.1	21.5	22.0
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.5					+0.3/-0.5				
S=2.0H	+0.6/-0.9					+0.5/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 3911lm ($8\log(F/F_0) = 4.7$).

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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	0.73	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	0.52	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		0.41	0.51	0.58	0.64	0.71	0.77	0.81	0.86	0.90	
0.00	0.00	0.00	0.39	0.49	0.55	0.61	0.68	0.73	0.77	0.82	0.85	
Rating:37W 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		0.84	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.63	0.55	0.50	0.41	0.35	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	0.26	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	0.54	0.49	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.77	0.66	0.57	0.46	0.38	0.33	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.53	0.48	0.39	0.33	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:37W 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	0.11	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	0.16	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:37W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												