

Report No.: 1

Test Time: 12.11.2019 11:29

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FL 1500 2x60LED 0,3A 27W 4000K microprisma ID

Luminous Length (mm): 1500

Luminous Width (mm): 115

Luminous Height (mm): 94

Voltage: 221.3 V

Current: 0.140 A

Power: 30.47 W

Power Factor: 0.977

Photometric Results

CIE Class: Direct

Measurement Flux: 3242.6 lm

Downward Ratio: 98%

Total Rated Lamp Lumens: 3242.6 lm

Efficiency: 100%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.5, 154.5, 148.3, 146.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 76.8, 69.7, 73.6, 72.8

Luminaire Efficacy Rating (LER): 106.47

Central Intensity: 1770.41 cd

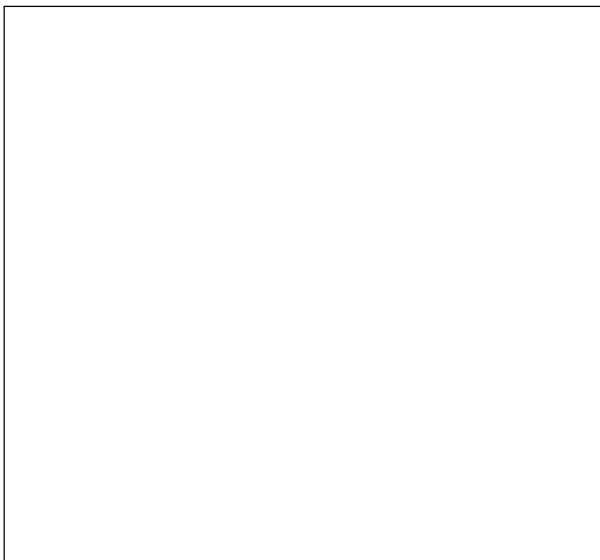
Max. Intensity: 1787.57 cd

Pos of Max. Intensity: H67.5 V6

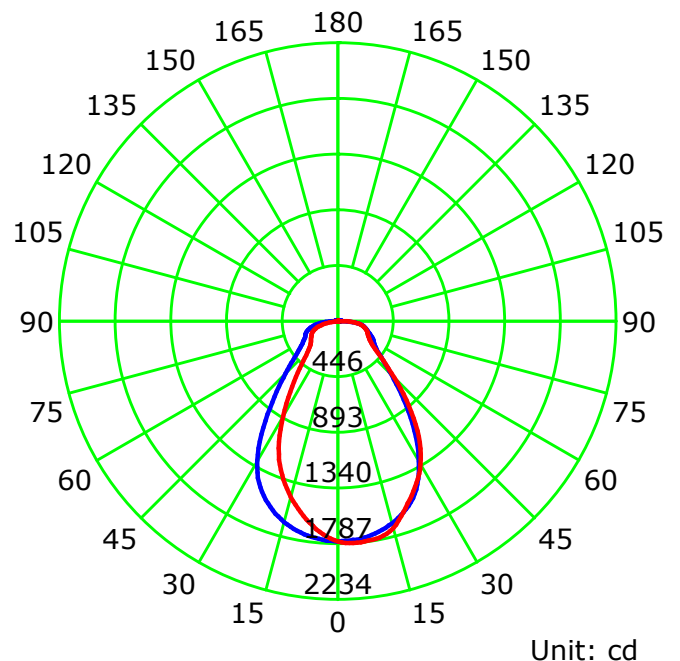
S/MH(C0/C180): 1.12

S/MH(C90/C270): 1.00

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

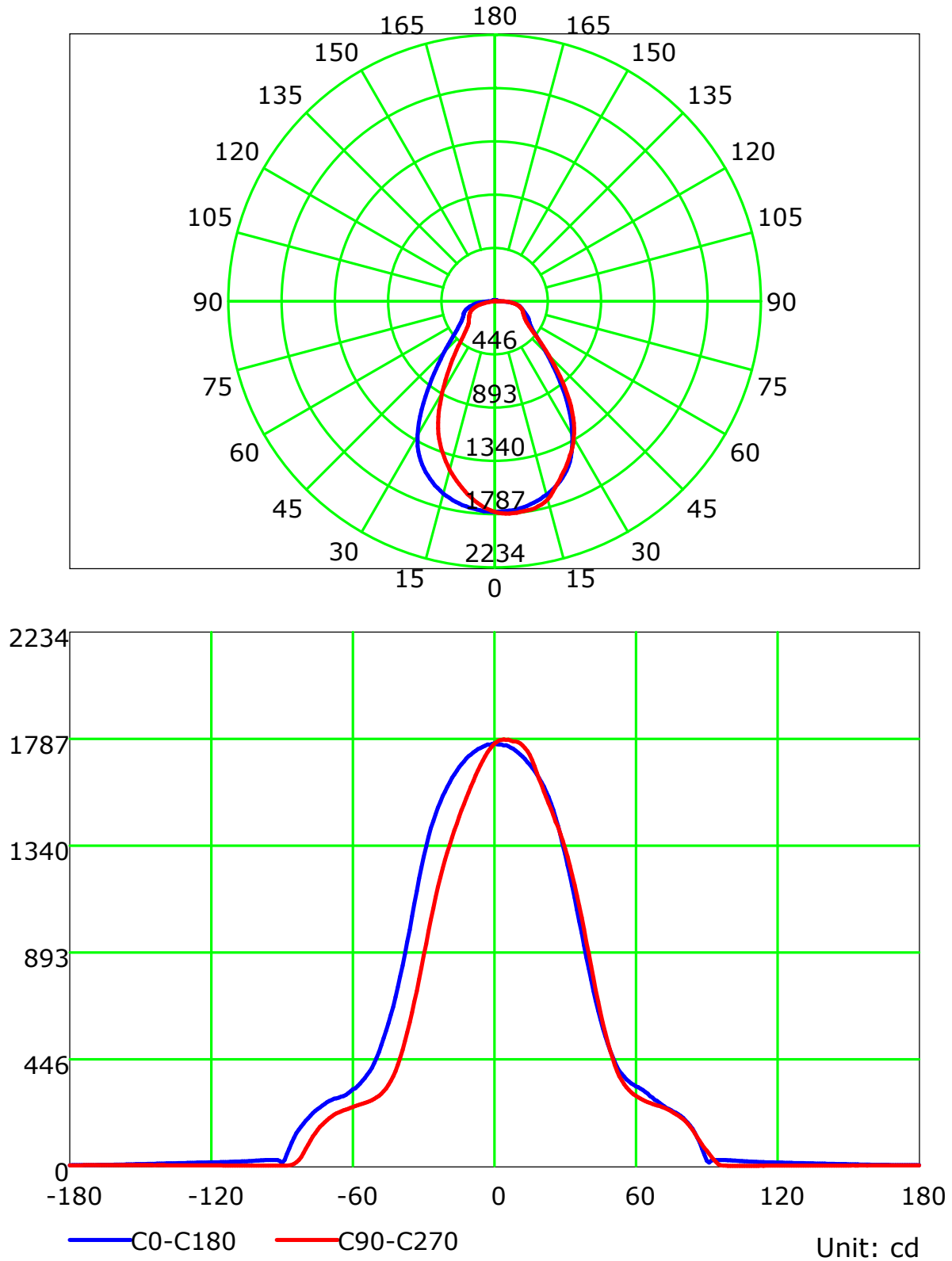
Test Device: LSG-1800B

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

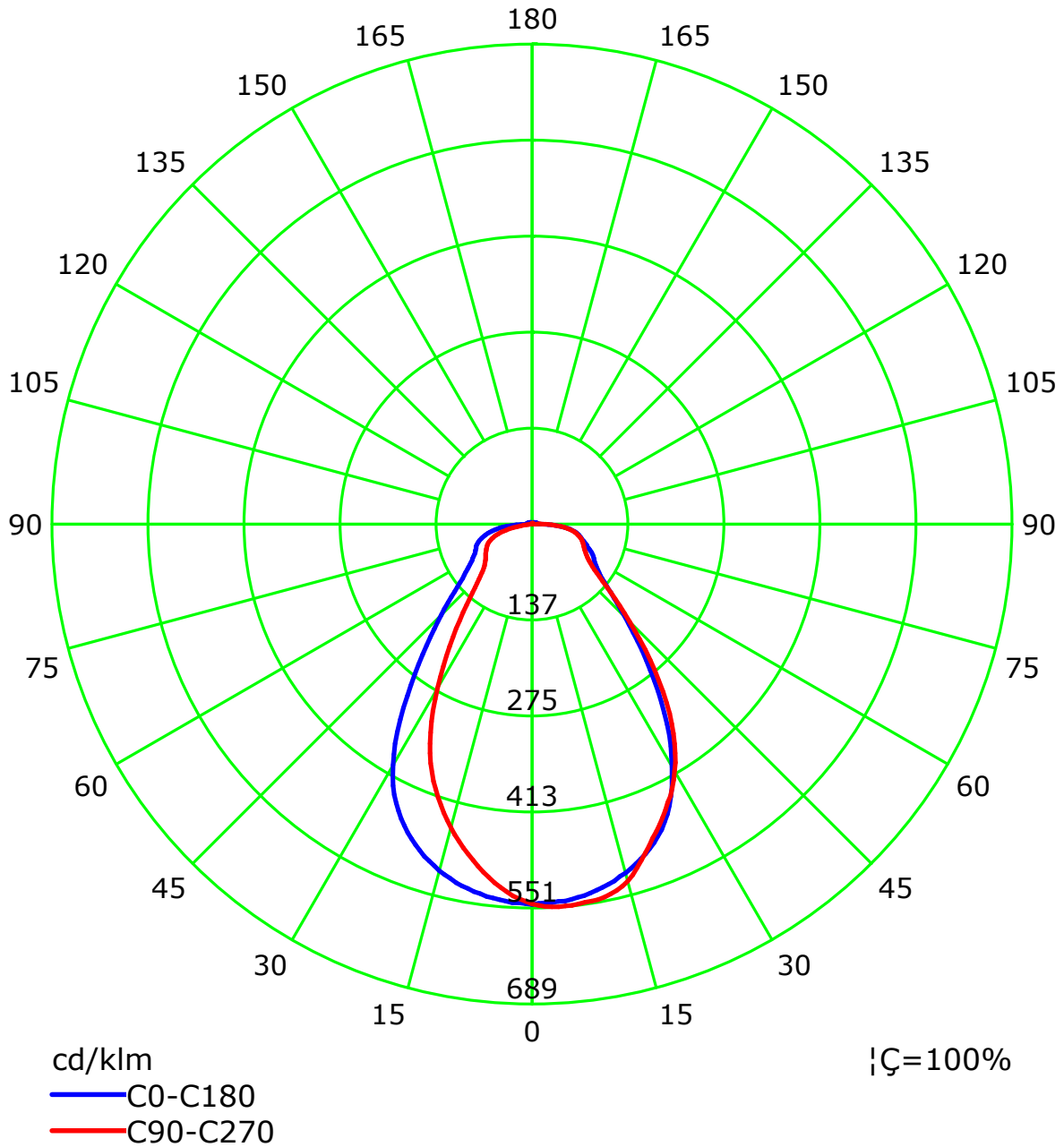
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



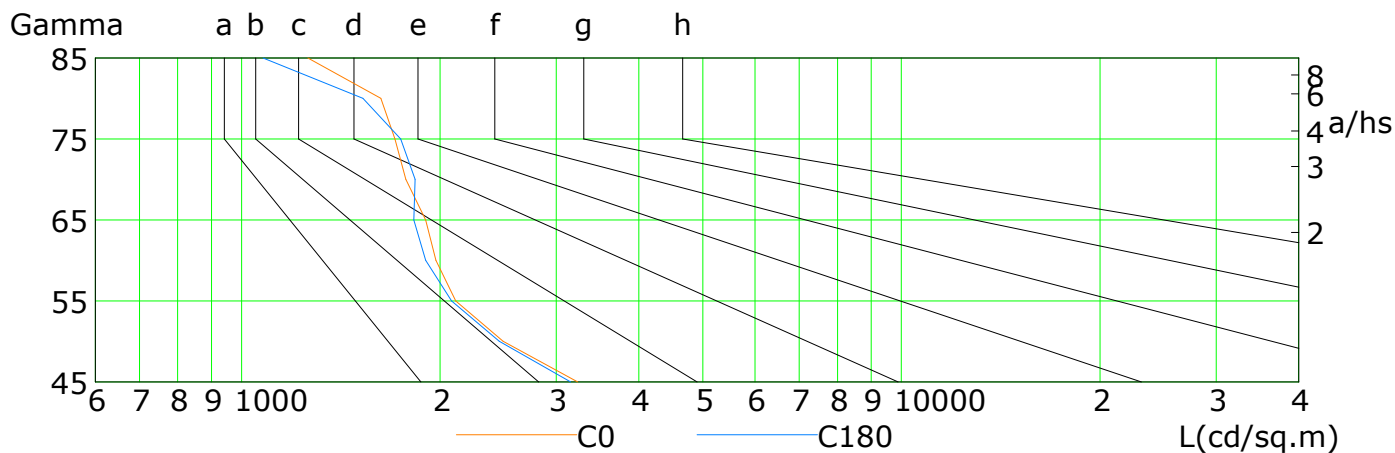
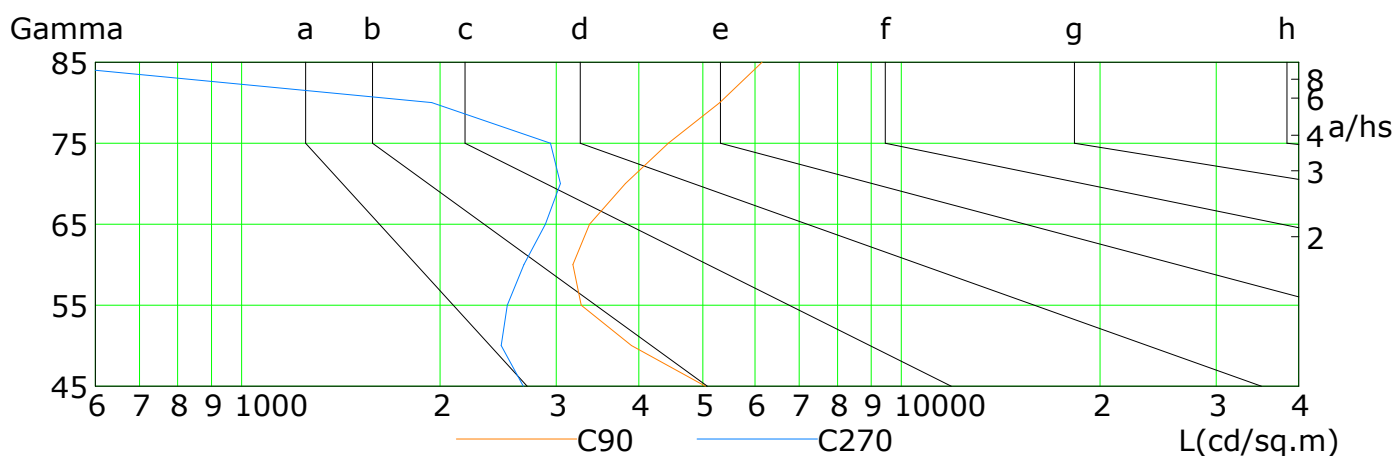
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

a b c d e f g h

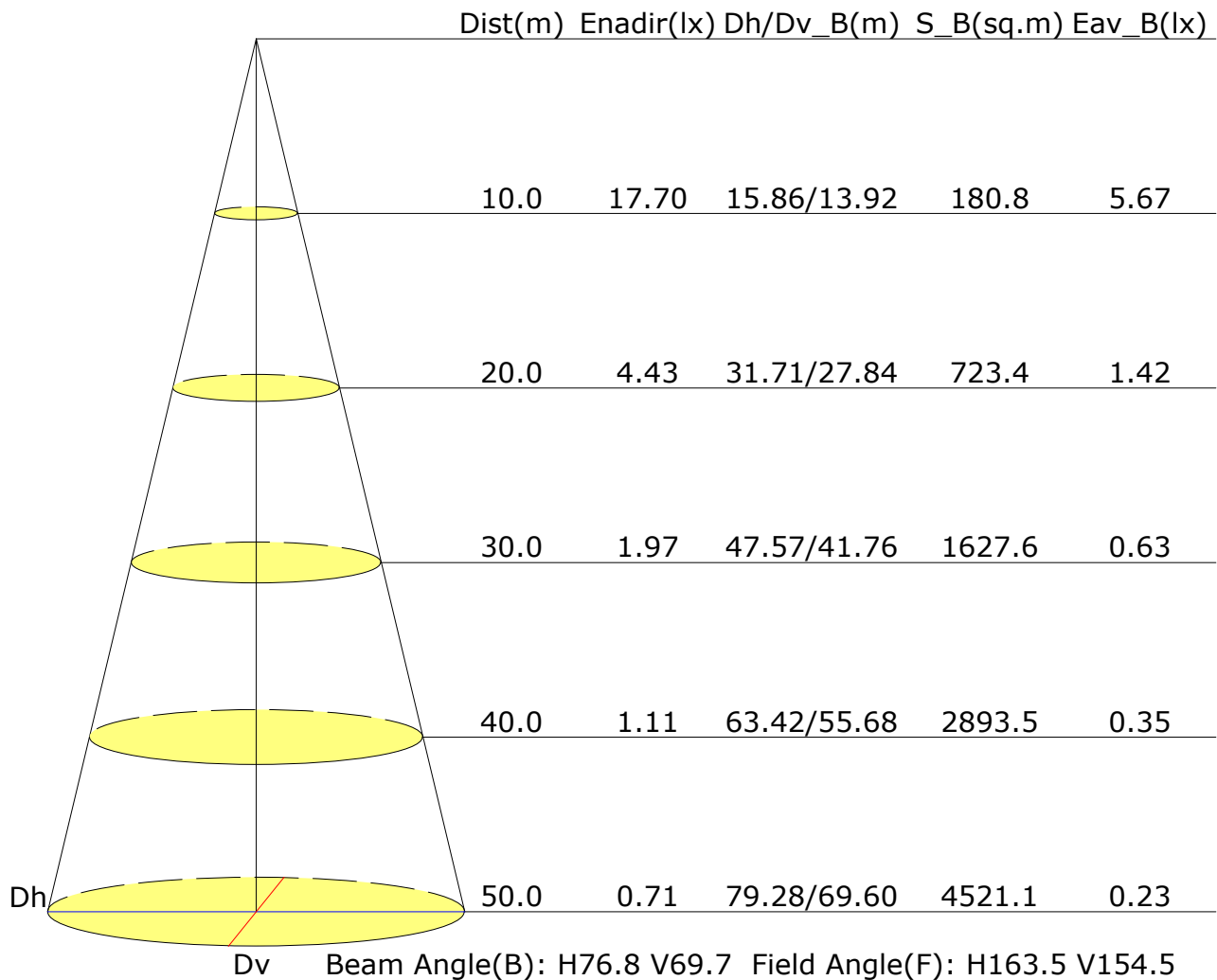


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3233	2492	2112	1970	1901	1773	1707	1626	1261
C90	5046	3900	3270	3179	3369	3818	4434	5303	6147
C180	3153	2457	2080	1900	1824	1832	1742	1527	1078
C270	2674	2474	2526	2677	2888	3044	2940	1942	453

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:

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	14.8	16.1	15.1	16.3	16.6	14.9	16.1	15.2	16.4	16.7
3H	16.1	17.3	16.5	17.6	17.9	16.6	17.7	16.9	18.0	18.3
4H	16.8	17.9	17.2	18.2	18.5	17.5	18.6	17.9	18.9	19.2
6H	17.5	18.5	17.9	18.9	19.2	18.4	19.4	18.8	19.7	20.1
8H	17.8	18.8	18.2	19.1	19.5	18.8	19.8	19.2	20.1	20.5
12H	18.1	19.0	18.5	19.4	19.7	19.2	20.1	19.6	20.4	20.8
X=4H Y=2H	15.2	16.3	15.6	16.6	16.9	15.3	16.3	15.6	16.7	17.0
3H	16.8	17.7	17.2	18.1	18.4	17.1	18.1	17.5	18.4	18.8
4H	17.6	18.5	18.1	18.9	19.3	18.2	19.0	18.7	19.4	19.8
6H	18.5	19.3	19.0	19.7	20.1	19.3	20.0	19.7	20.4	20.9
8H	18.9	19.6	19.4	20.0	20.5	19.7	20.4	20.2	20.9	21.3
12H	19.2	19.8	19.7	20.3	20.7	20.2	20.8	20.7	21.3	21.7
X=8H Y=4H	17.9	18.6	18.4	19.0	19.5	18.4	19.1	18.9	19.5	20.0
6H	18.9	19.5	19.4	19.9	20.4	19.6	20.2	20.1	20.6	21.1
8H	19.4	19.9	19.9	20.4	20.9	20.2	20.7	20.7	21.1	21.7
12H	19.8	20.2	20.3	20.7	21.3	20.7	21.1	21.2	21.6	22.2
X=12H Y=4H	17.9	18.6	18.4	19.0	19.5	18.5	19.1	18.9	19.5	20.0
6H	19.0	19.5	19.5	20.0	20.5	19.6	20.1	20.2	20.6	21.1
8H	19.5	19.9	20.0	20.4	21.0	20.2	20.7	20.8	21.2	21.7
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.4/-0.4				
S=1.5H	+0.5/-0.7					+0.5/-0.6				
S=2.0H	+1.0/-1.1					+0.5/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 3243lm ($8\log(F/F_0) = 4.1$).

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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 = 1.00									
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	0.63	0.72	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
	0.30		0.56	0.65	0.72	0.77	0.84	0.89	0.92	0.97	1.00	
	0.20		0.51	0.60	0.66	0.72	0.79	0.84	0.88	0.94	0.97	
0.50	0.50	0.20	0.61	0.70	0.76	0.80	0.86	0.90	0.93	0.97	0.99	
	0.30		0.55	0.64	0.70	0.75	0.81	0.86	0.89	0.94	0.96	
	0.20		0.50	0.59	0.65	0.70	0.77	0.82	0.86	0.91	0.94	
0.30	0.50	0.20	0.60	0.68	0.73	0.77	0.83	0.87	0.89	0.93	0.95	
	0.30		0.54	0.63	0.68	0.73	0.79	0.83	0.86	0.90	0.93	
	0.20		0.50	0.58	0.64	0.69	0.75	0.80	0.83	0.88	0.91	
0.00	0.00	0.00	0.48	0.56	0.62	0.66	0.72	0.76	0.79	0.83	0.86	
Rating:30W 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 = 1.00									
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	0.89	0.74	0.64	0.56	0.45	0.37	0.32	0.25	0.21	
	0.30		0.75	0.63	0.55	0.49	0.40	0.34	0.30	0.24	0.20	
	0.20		0.64	0.55	0.49	0.44	0.37	0.32	0.28	0.22	0.19	
0.50	0.50	0.20	0.86	0.71	0.61	0.53	0.43	0.39	0.30	0.24	0.20	
	0.30		0.73	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
	0.20		0.63	0.54	0.48	0.43	0.36	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.83	0.68	0.58	0.50	0.40	0.34	0.29	0.23	0.19	
	0.30		0.71	0.60	0.52	0.46	0.37	0.31	0.27	0.22	0.18	
	0.20		0.62	0.53	0.47	0.42	0.35	0.30	0.26	0.21	0.17	
0.00	0.00	0.00	0.51	0.43	0.37	0.33	0.27	0.23	0.20	0.16	0.13	
Rating:30W 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 = 1.00									
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	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.19	
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.19	
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.16	0.17	
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Rating:30W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												