

Report No.: 1

Test Time: 12.11.2019 12:09

Luminaire Property

Luminaire Manufacturer: FAROS

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

Luminous Length (mm): 1500

Luminous Width (mm): 115

Luminous Height (mm): 94

Voltage: 221.3 V

Current: 0.140 A

Power: 30.45 W

Power Factor: 0.977

Photometric Results

CIE Class: Direct

Measurement Flux: 2598.4 lm

Downward Ratio: 97%

Total Rated Lamp Lumens: 2598.4 lm

Efficiency: 100%

Upward Ratio: 3%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 171.9, 163.4, 166.9, 166.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 120.8, 113.8, 117.9, 117.5

Luminaire Efficacy Rating (LER): 85.38

Central Intensity: 824.6 cd

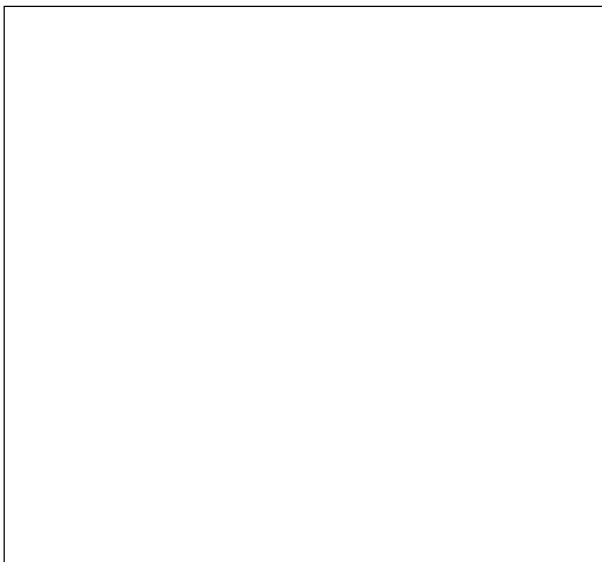
Max. Intensity: 828.23 cd

Pos of Max. Intensity: H135 V3

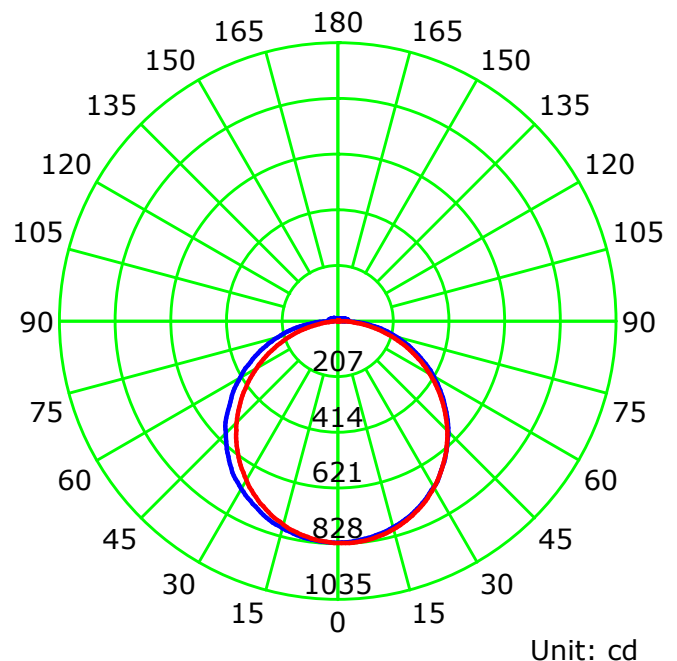
S/MH(C0/C180): 1.29

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

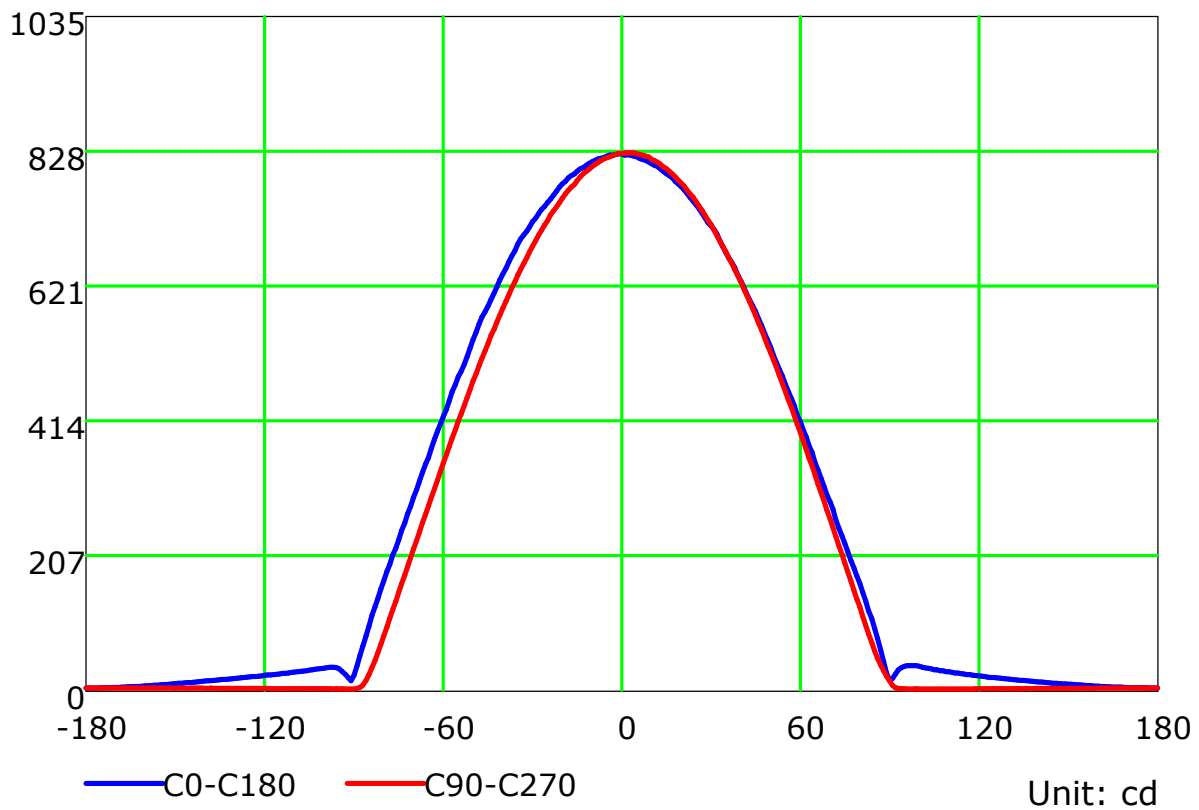
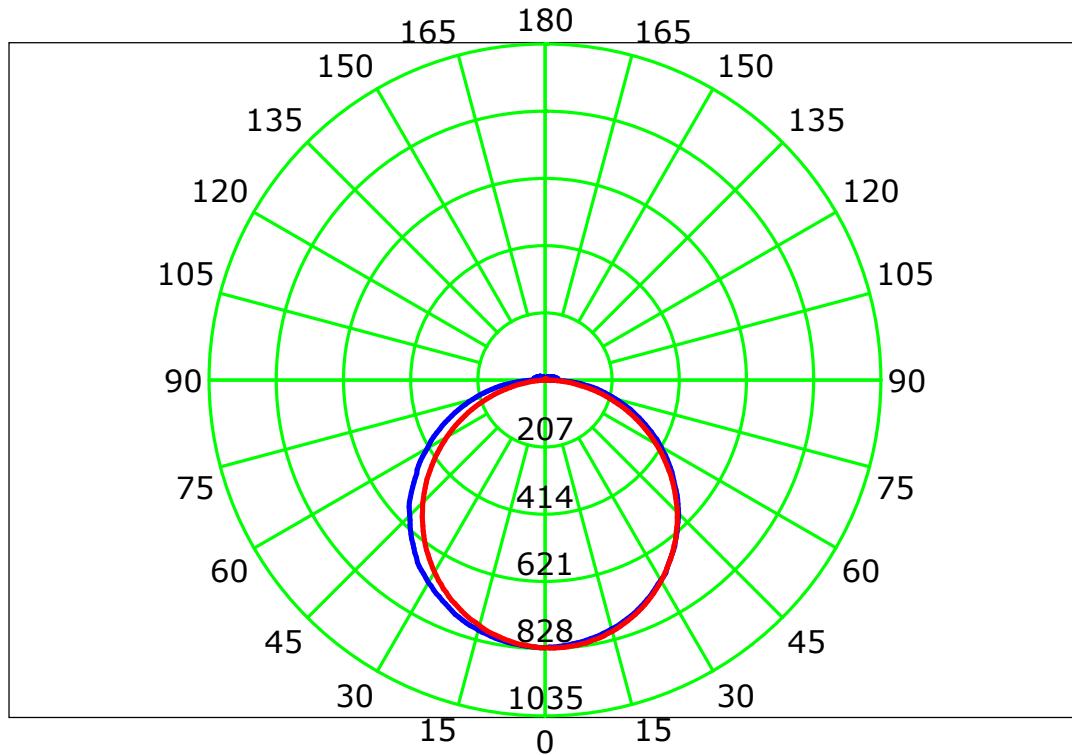
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

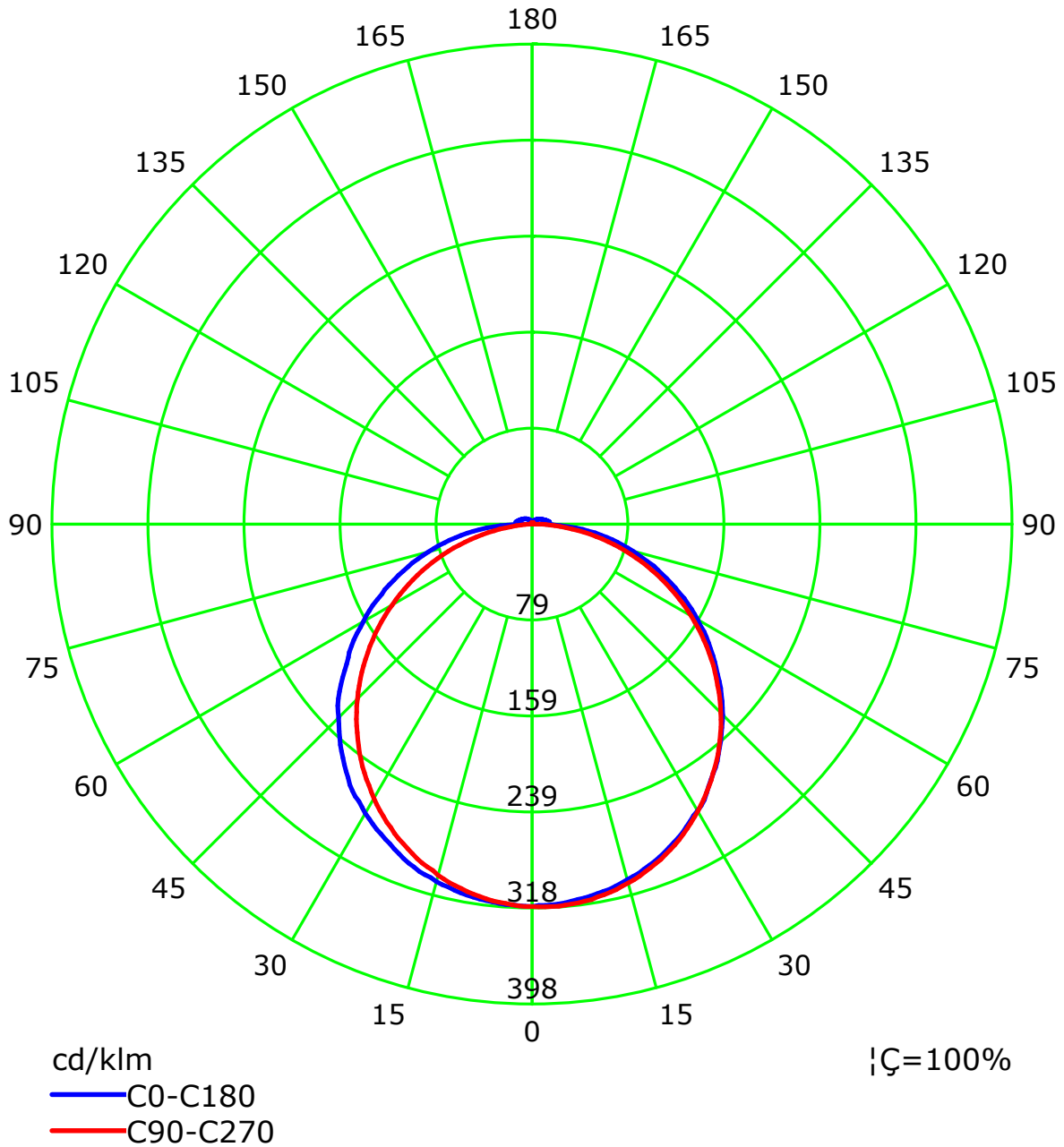
Luminous Intensity Distribution Curve



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)



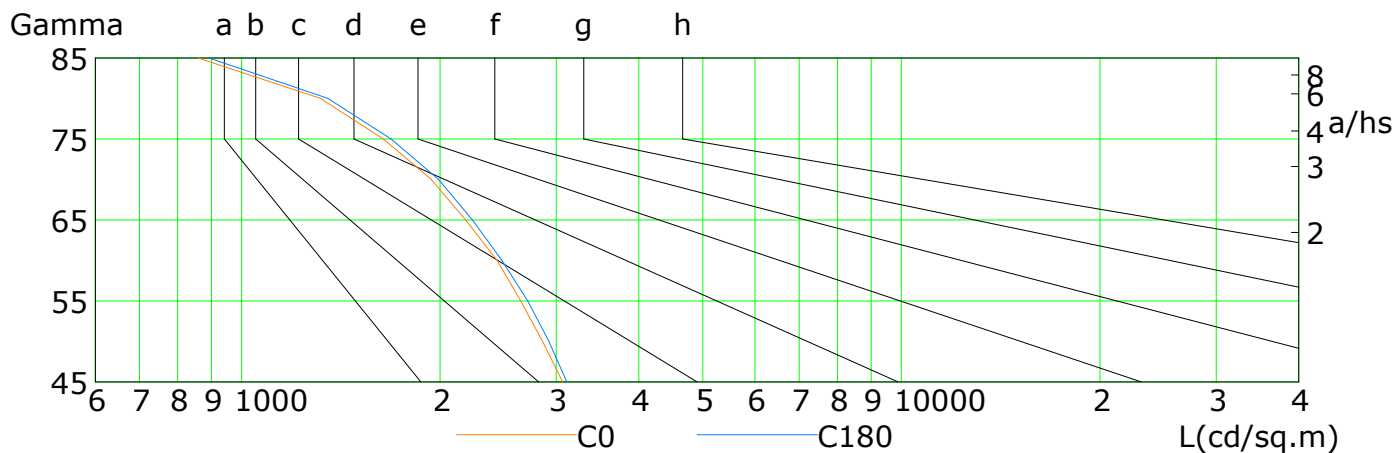
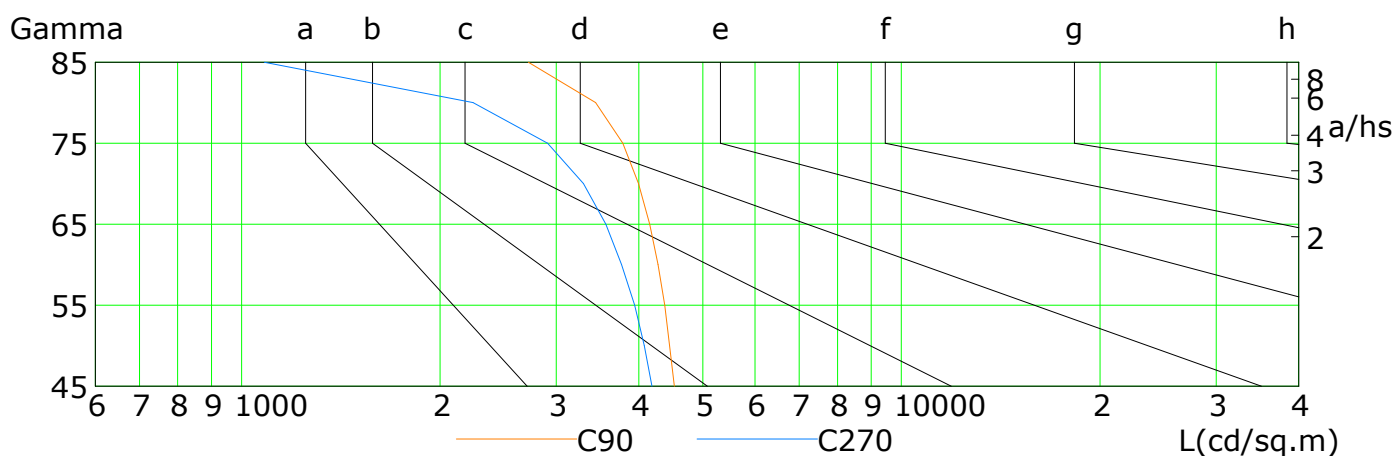
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

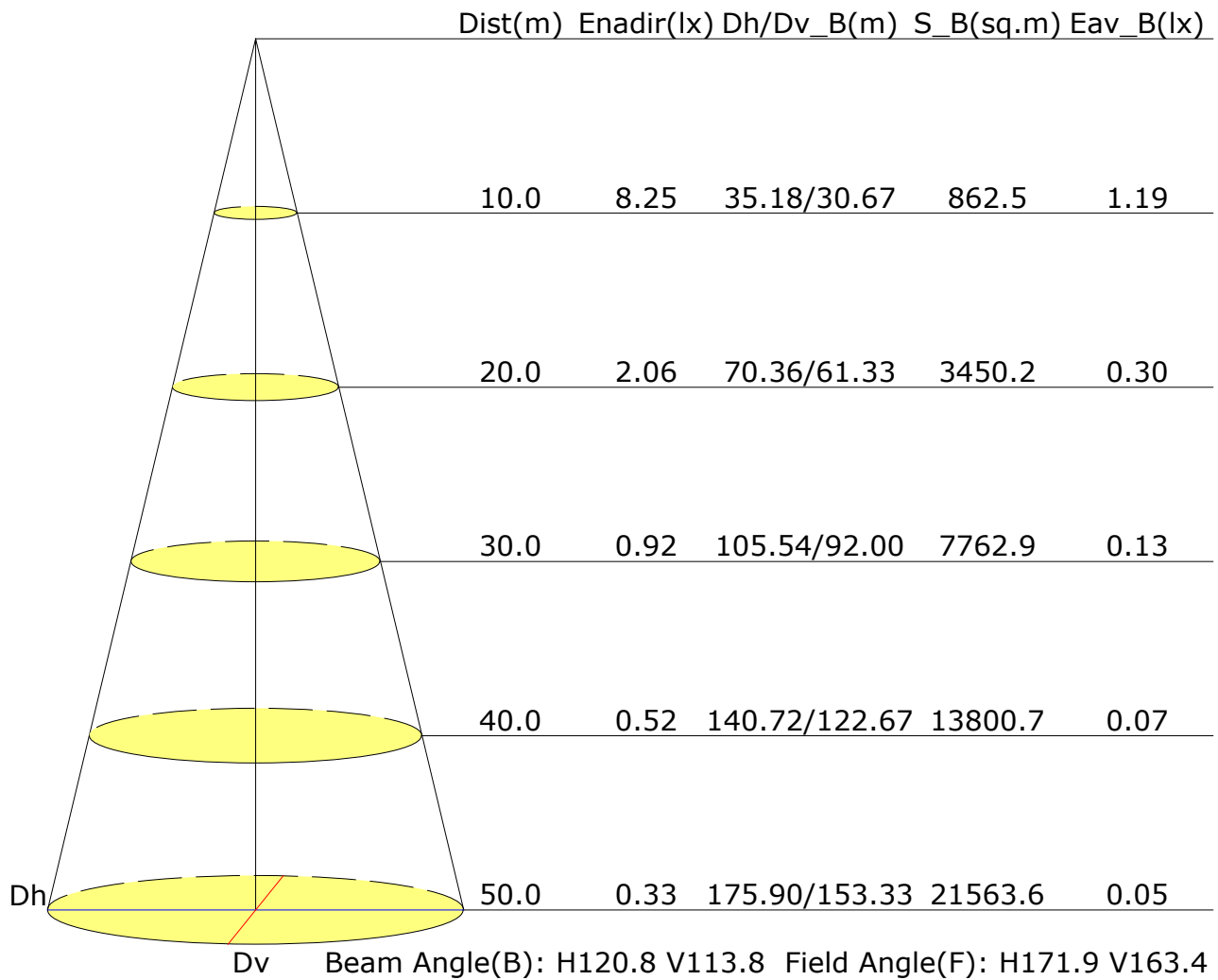


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3066	2859	2650	2438	2185	1939	1641	1316	860
C90	4529	4454	4379	4277	4154	3997	3781	3439	2721
C180	3110	2921	2715	2480	2239	1987	1685	1350	892
C270	4190	4078	3942	3765	3566	3297	2910	2243	1083

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	16.0	17.4	16.3	17.7	18.0	16.6	18.0	17.0	18.3	18.6
3H	17.4	18.7	17.8	19.0	19.4	18.2	19.5	18.6	19.8	20.2
4H	18.0	19.2	18.4	19.6	19.9	18.9	20.1	19.3	20.4	20.8
6H	18.5	19.6	18.9	19.9	20.3	19.3	20.5	19.8	20.8	21.2
8H	18.6	19.7	19.0	20.1	20.5	19.5	20.6	19.9	20.9	21.3
12H	18.7	19.7	19.1	20.1	20.5	19.6	20.6	20.0	21.0	21.4
X=4H Y=2H	16.6	17.8	17.0	18.2	18.5	17.1	18.3	17.5	18.7	19.0
3H	18.3	19.3	18.7	19.7	20.1	18.9	19.9	19.3	20.3	20.7
4H	19.0	19.9	19.4	20.3	20.7	19.6	20.6	20.1	21.0	21.4
6H	19.5	20.3	20.0	20.8	21.2	20.2	21.0	20.7	21.5	21.9
8H	19.7	20.5	20.2	20.9	21.4	20.4	21.1	20.9	21.6	22.1
12H	19.9	20.5	20.4	21.0	21.5	20.5	21.2	21.0	21.7	22.2
X=8H Y=4H	19.2	20.0	19.7	20.4	20.9	19.8	20.6	20.3	21.0	21.5
6H	19.9	20.5	20.4	21.0	21.5	20.5	21.1	21.0	21.6	22.1
8H	20.2	20.7	20.7	21.2	21.8	20.7	21.3	21.3	21.8	22.3
12H	20.4	20.8	20.9	21.4	21.9	20.9	21.4	21.4	21.9	22.5
X=12H Y=4H	19.2	19.9	19.7	20.4	20.9	19.8	20.5	20.3	21.0	21.5
6H	19.9	20.5	20.5	21.0	21.5	20.5	21.1	21.1	21.6	22.1
8H	20.2	20.7	20.8	21.2	21.8	20.8	21.3	21.3	21.8	22.3
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/-0.4				
S=2.0H	+0.5/-0.9					+0.5/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 2598lm ($8\log(F/F_0) = 3.3$).

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
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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	0.54	0.64	0.72	0.77	0.85	0.90	0.93	0.98	1.01	
	0.30		0.46	0.56	0.64	0.70	0.78	0.84	0.88	0.94	0.97	
	0.20		0.40	0.50	0.58	0.64	0.73	0.79	0.83	0.90	0.94	
0.50	0.50	0.20	0.52	0.62	0.69	0.74	0.81	0.86	0.89	0.94	0.97	
	0.30		0.45	0.55	0.62	0.68	0.75	0.81	0.85	0.90	0.93	
	0.20		0.40	0.50	0.57	0.62	0.71	0.77	0.81	0.87	0.91	
0.30	0.50	0.20	0.50	0.60	0.66	0.71	0.78	0.82	0.85	0.89	0.92	
	0.30		0.44	0.54	0.60	0.66	0.73	0.78	0.82	0.86	0.90	
	0.20		0.39	0.49	0.56	0.61	0.69	0.74	0.78	0.84	0.87	
0.00	0.00	0.00	0.37	0.46	0.53	0.58	0.65	0.70	0.74	0.79	0.82	
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 = 1.25									
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	1.02	0.85	0.73	0.64	0.51	0.43	0.37	0.29	0.24	
	0.30		0.85	0.73	0.64	0.57	0.46	0.39	0.34	0.27	0.22	
	0.20		0.73	0.64	0.56	0.51	0.42	0.36	0.32	0.25	0.21	
0.50	0.50	0.20	0.98	0.82	0.70	0.61	0.49	0.44	0.35	0.27	0.22	
	0.30		0.83	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.31	0.25	0.21	
0.30	0.50	0.20	0.95	0.78	0.67	0.58	0.47	0.39	0.33	0.26	0.21	
	0.30		0.81	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.00	0.00	0.00	0.61	0.52	0.45	0.40	0.32	0.27	0.24	0.19	0.15	
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 = 1.25									
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	0.19	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.25	
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22	
	0.20		0.07	0.09	0.10	0.11	0.14	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.19	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24	
	0.30		0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.09	0.10	0.11	0.13	0.15	0.16	0.18	0.19	
0.30	0.50	0.20	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.22	0.23	
	0.30		0.12	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.20	
	0.20		0.07	0.09	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	
Rating:30W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												