

Report No.: 1

Test Time: 25.11.2019 09:42

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FL 1500 2x60 LED 0,32A 32W 4000K opal ID

Luminous Length (mm): 1500

Luminous Width (mm): 115

Luminous Height (mm): 94

Voltage: 221.0 V

Current: 0.138 A

Power: 29.92 W

Power Factor: 0.974

Photometric Results

CIE Class: Direct

Measurement Flux: 2556.3 lm

Downward Ratio: 97%

Total Rated Lamp Lumens: 2556.3 lm

Efficiency: 100%

Upward Ratio: 3%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 172.6, 164.6, 167.2, 167.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 120.5, 113.4, 117.0, 117.0

Luminaire Efficacy Rating (LER): 85.49

Central Intensity: 804.55 cd

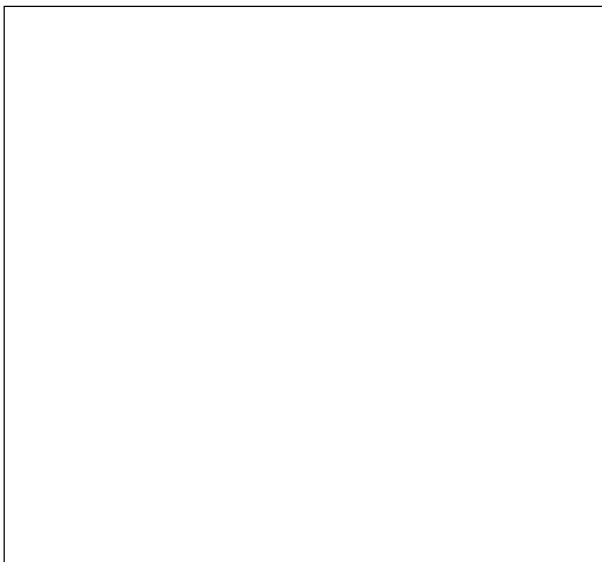
Max. Intensity: 822.35 cd

Pos of Max. Intensity: H157.5 V5

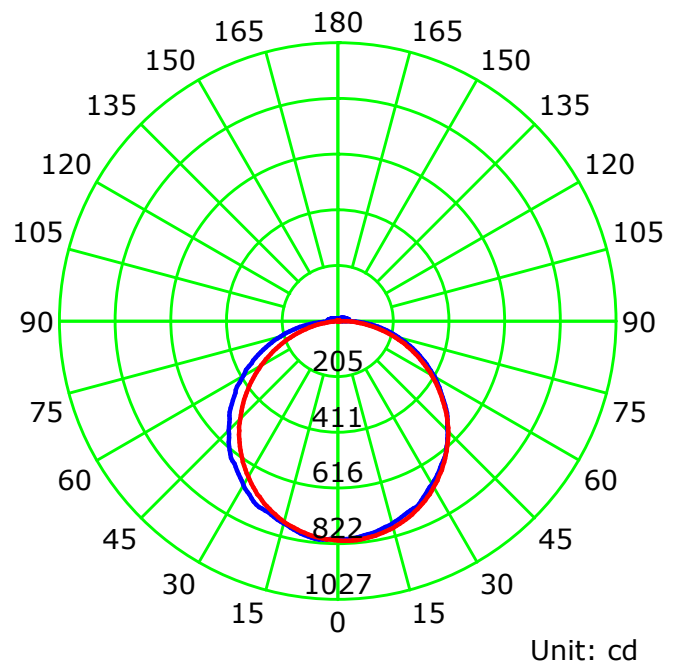
S/MH(C0/C180): 1.29

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

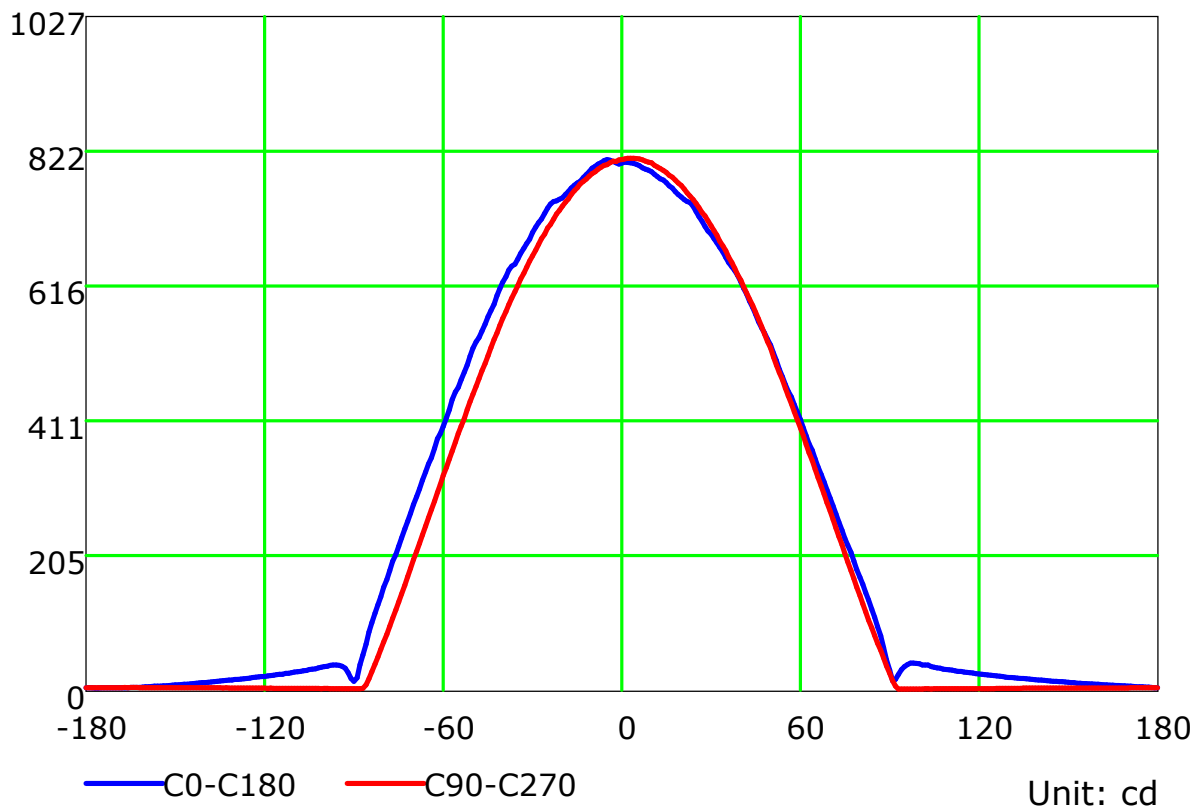
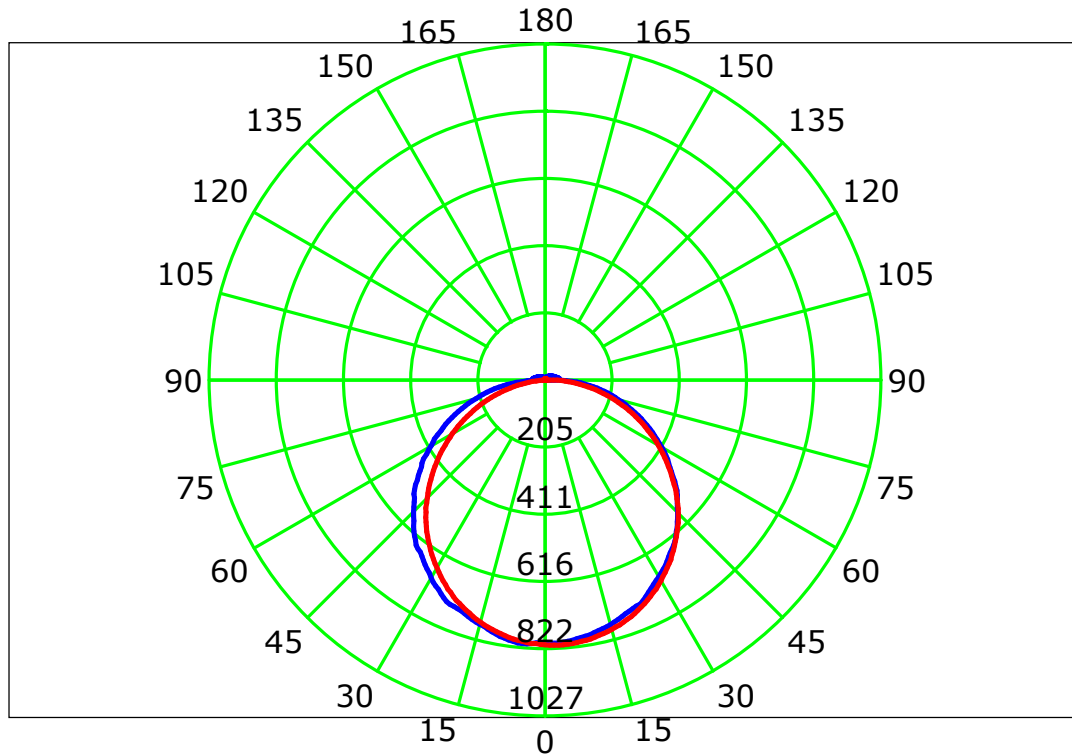
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

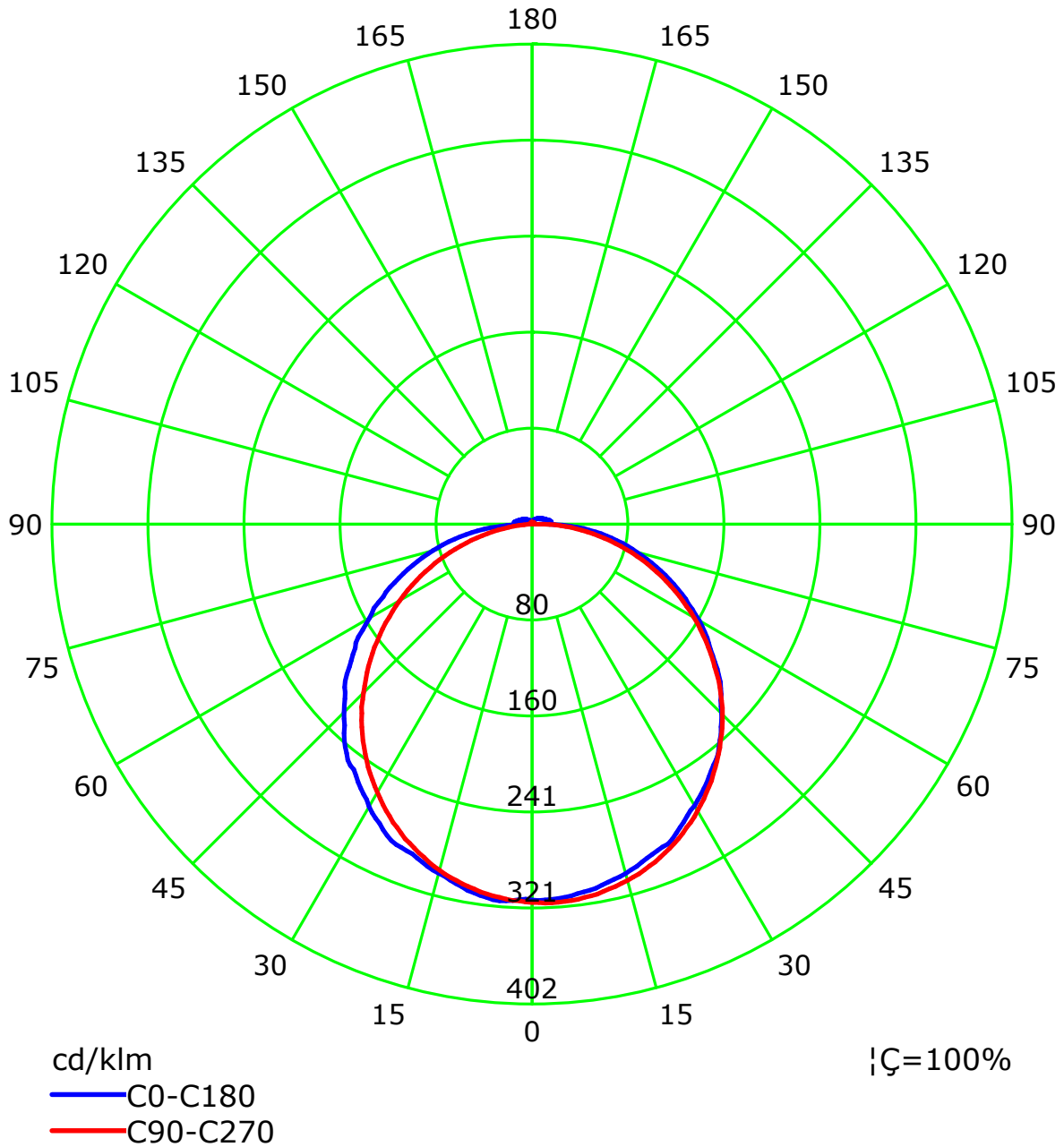
Luminous Intensity Distribution Curve



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)



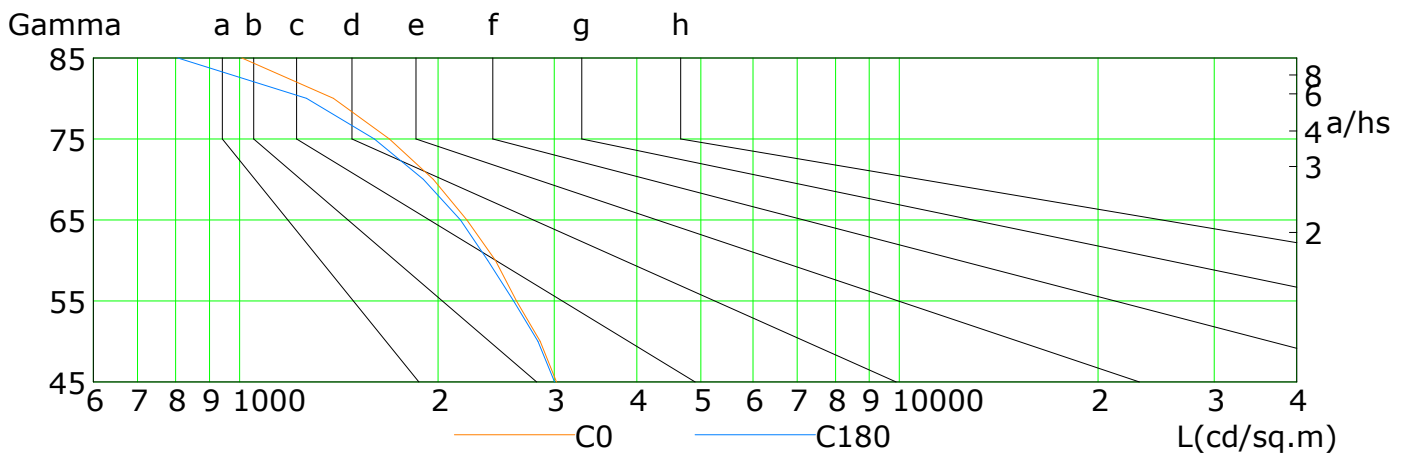
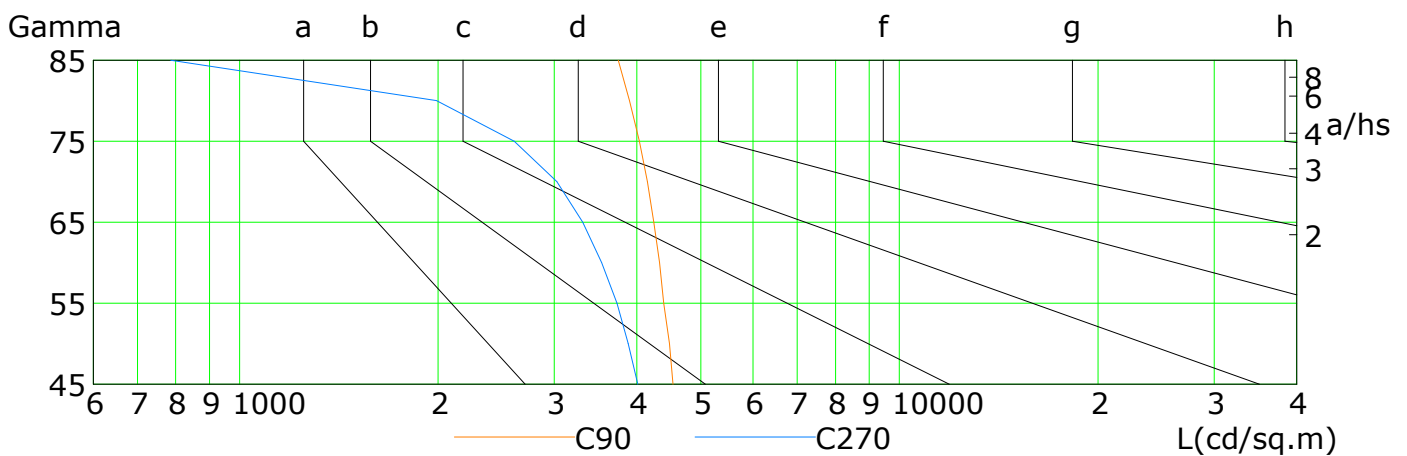
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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	3023	2856	2627	2441	2211	1967	1687	1388	1008
C90	4537	4480	4393	4328	4242	4151	4035	3898	3751
C180	3002	2833	2603	2376	2161	1899	1600	1264	806
C270	4013	3881	3731	3539	3311	3026	2607	1987	786

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

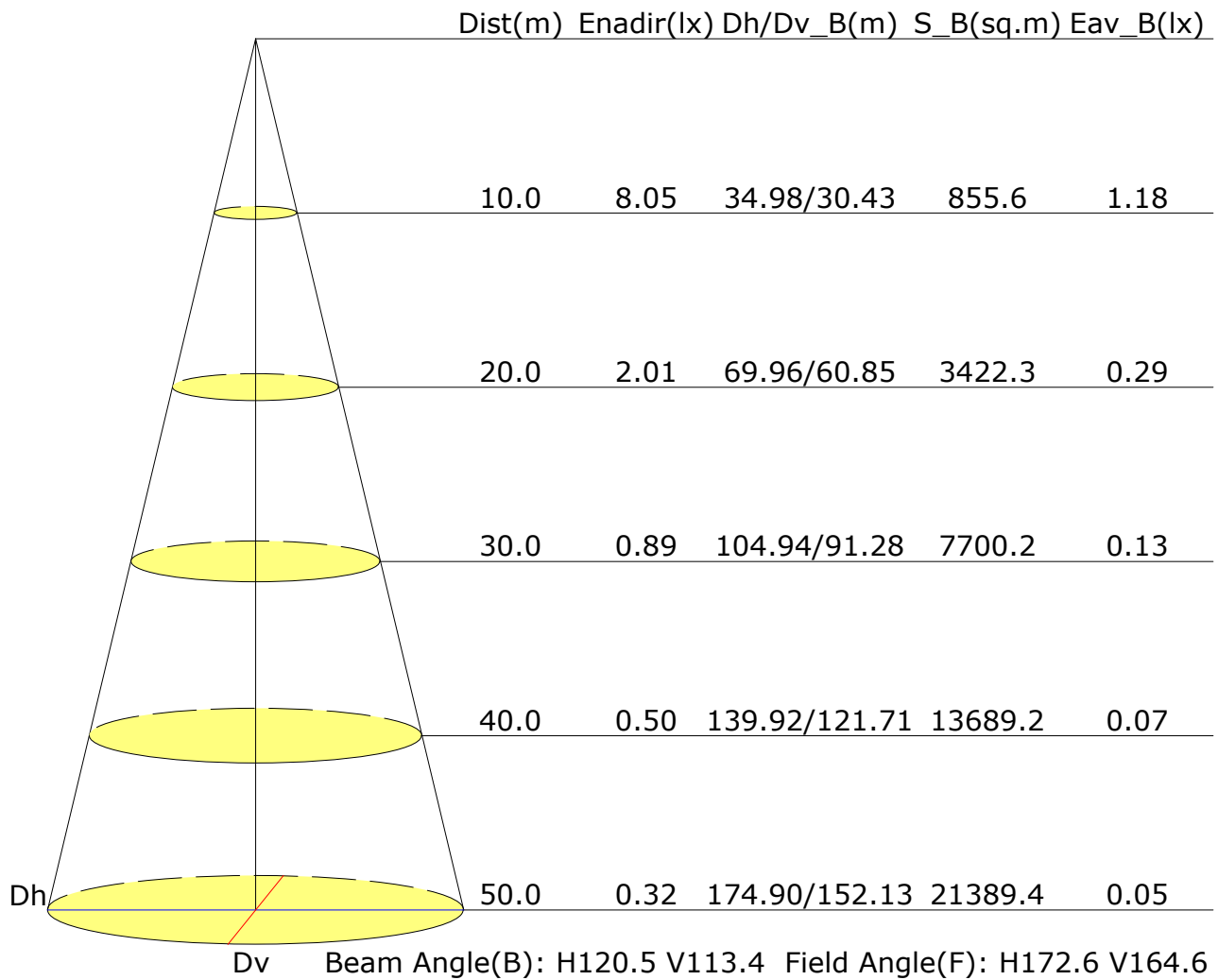
Test Device: LSG-1800B

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	16.9	18.3	18.6
3H	17.5	18.8	17.9	19.1	19.4	18.2	19.4	18.6	19.8	20.1
4H	18.1	19.3	18.5	19.7	20.0	18.9	20.1	19.3	20.4	20.8
6H	18.6	19.7	19.0	20.1	20.5	19.4	20.5	19.8	20.9	21.3
8H	18.8	19.9	19.2	20.3	20.7	19.6	20.7	20.0	21.0	21.4
12H	18.9	20.0	19.4	20.4	20.8	19.7	20.7	20.1	21.1	21.5
X=4H Y=2H	16.6	17.8	17.0	18.2	18.6	17.1	18.3	17.5	18.6	19.0
3H	18.3	19.4	18.8	19.8	20.2	18.9	19.9	19.3	20.3	20.7
4H	19.1	20.0	19.5	20.4	20.9	19.6	20.6	20.1	21.0	21.4
6H	19.7	20.5	20.2	21.0	21.4	20.3	21.1	20.8	21.5	22.0
8H	19.9	20.7	20.4	21.2	21.6	20.5	21.3	21.0	21.7	22.2
12H	20.1	20.8	20.6	21.3	21.8	20.7	21.4	21.2	21.9	22.4
X=8H Y=4H	19.4	20.1	19.9	20.6	21.1	19.9	20.6	20.3	21.1	21.6
6H	20.1	20.7	20.6	21.2	21.8	20.6	21.2	21.1	21.7	22.2
8H	20.4	21.0	21.0	21.5	22.0	20.9	21.5	21.4	22.0	22.5
12H	20.7	21.2	21.2	21.7	22.3	21.2	21.6	21.7	22.2	22.7
X=12H Y=4H	19.4	20.1	19.9	20.5	21.1	19.9	20.6	20.4	21.0	21.5
6H	20.2	20.7	20.7	21.2	21.8	20.7	21.2	21.2	21.7	22.3
8H	20.5	21.0	21.1	21.5	22.1	21.0	21.5	21.5	22.0	22.6
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.2				
S=1.5H	+0.4/-0.5					+0.4/-0.5				
S=2.0H	+0.5/-0.9					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 2556lm ($8\log(F/F_0) = 3.3$).

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:

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	0.71	0.77	0.84	0.90	0.93	0.98	1.01	
	0.30		0.46	0.56	0.64	0.69	0.78	0.84	0.88	0.93	0.97	
	0.20		0.40	0.50	0.58	0.64	0.72	0.79	0.83	0.90	0.94	
0.50	0.50	0.20	0.52	0.62	0.69	0.74	0.81	0.85	0.89	0.93	0.96	
	0.30		0.45	0.55	0.62	0.67	0.75	0.81	0.84	0.90	0.93	
	0.20		0.39	0.49	0.57	0.62	0.70	0.76	0.80	0.86	0.90	
0.30	0.50	0.20	0.50	0.59	0.66	0.71	0.77	0.82	0.85	0.89	0.92	
	0.30		0.44	0.53	0.60	0.65	0.73	0.78	0.81	0.86	0.89	
	0.20		0.39	0.49	0.56	0.61	0.69	0.74	0.78	0.83	0.87	
0.00	0.00	0.00	0.36	0.46	0.52	0.57	0.65	0.70	0.73	0.78	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	0.52	0.43	0.37	0.29	0.24	
	0.30		0.85	0.73	0.64	0.57	0.47	0.39	0.34	0.27	0.23	
	0.20		0.73	0.64	0.57	0.51	0.42	0.36	0.32	0.26	0.22	
0.50	0.50	0.20	0.98	0.82	0.70	0.61	0.49	0.44	0.35	0.27	0.23	
	0.30		0.83	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.62	0.55	0.50	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	0.22	
	0.30		0.81	0.69	0.60	0.53	0.43	0.36	0.32	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	0.33	0.27	0.24	0.19	0.16	
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	0.22	0.22	0.23	0.24	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	0.12	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	0.23	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	0.21	0.21	0.22	0.22	0.22	0.23	
	0.30		0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.20	
	0.20		0.07	0.09	0.10	0.11	0.13	0.15	0.16	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												