

Report No.: 1

Test Time: 12.02.2019 16:26

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 80LED 0,6A 75Wx2 5000K opal

Lamp Description: LED

Number of Lamps: 1

Lumens per Lamp: 18649.8 lm

Luminous Length (mm): 1545 mm

Luminous Width (mm): 55 mm

Luminous Height (mm): 90 mm

Voltage: 220.8 V

Current: 0.681 A

Power: 148.19 W

Power Factor: 0.981

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 18649.8 lm

Measurement Flux: 18644 lm

Efficiency: 99.97%

Downward Ratio: 98.83%

Upward Ratio: 1.14%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.5, 162.8, 161.5, 161.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.0, 109.9, 109.4, 109.5

Luminaire Efficacy Rating (LER): 125.86

Central Intensity: 6651.12 cd

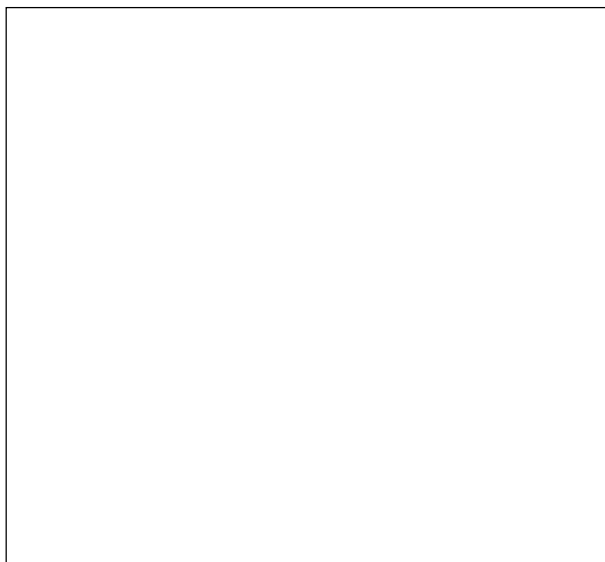
Max. Intensity: 6651.13 cd

Pos of Max. Intensity: H0 V0

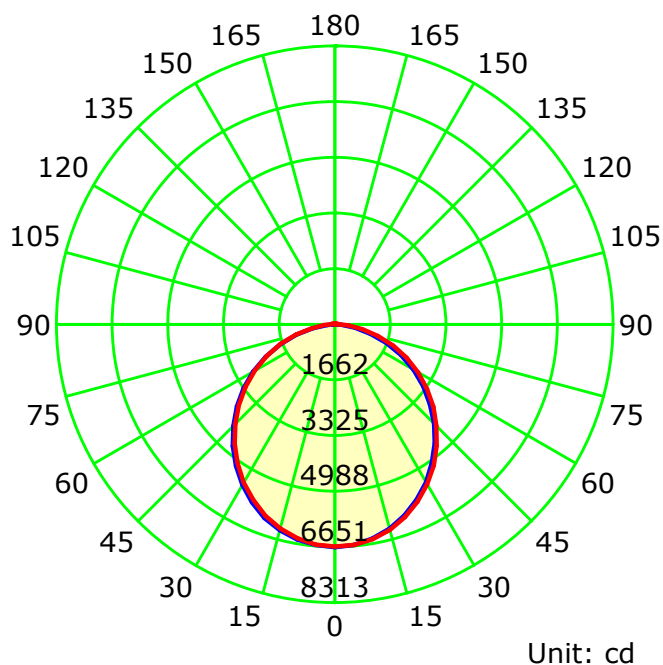
S/MH(C0/C180): 1.23

S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:5.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.654 m

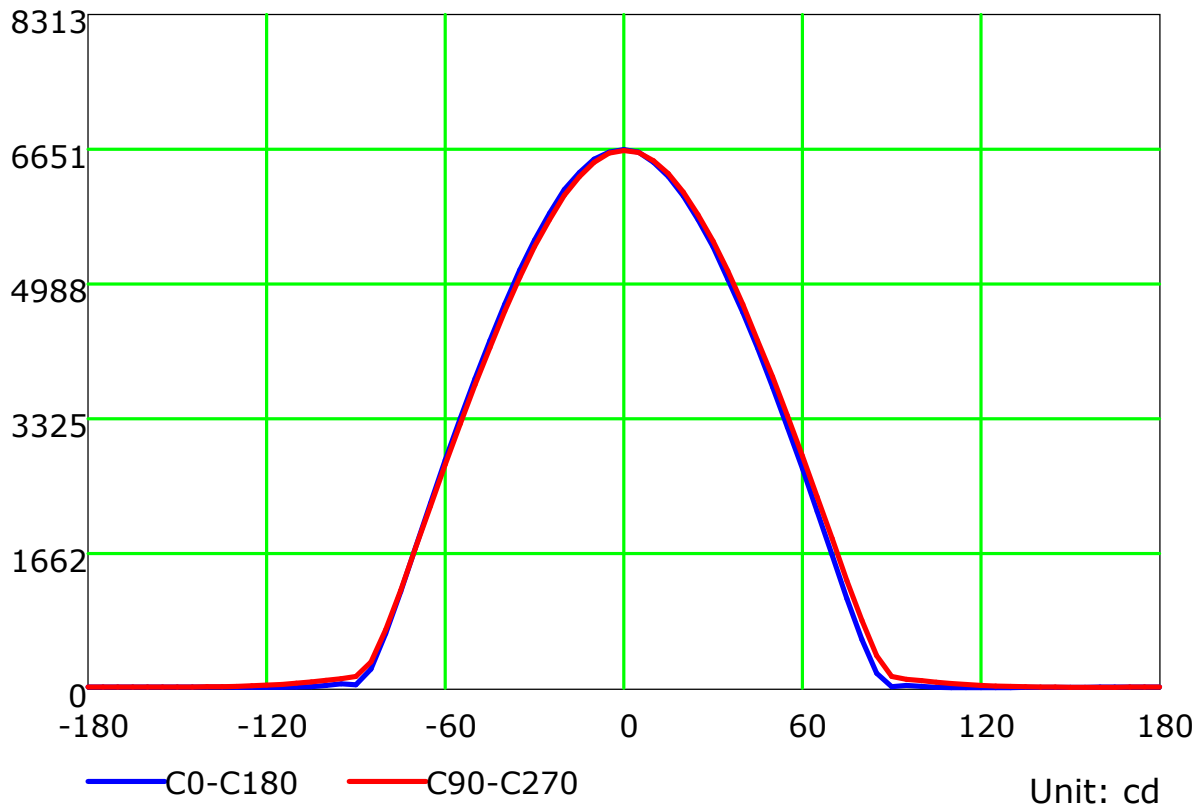
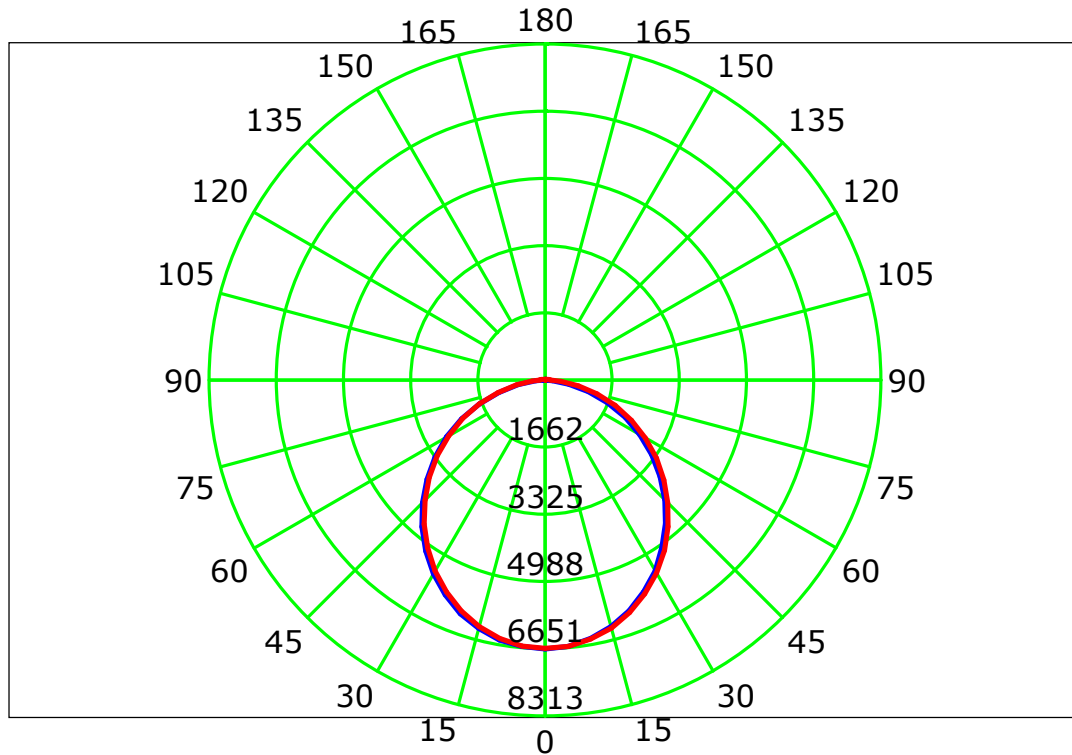
Temperature:

Humidity:

Operator:

Inspector:

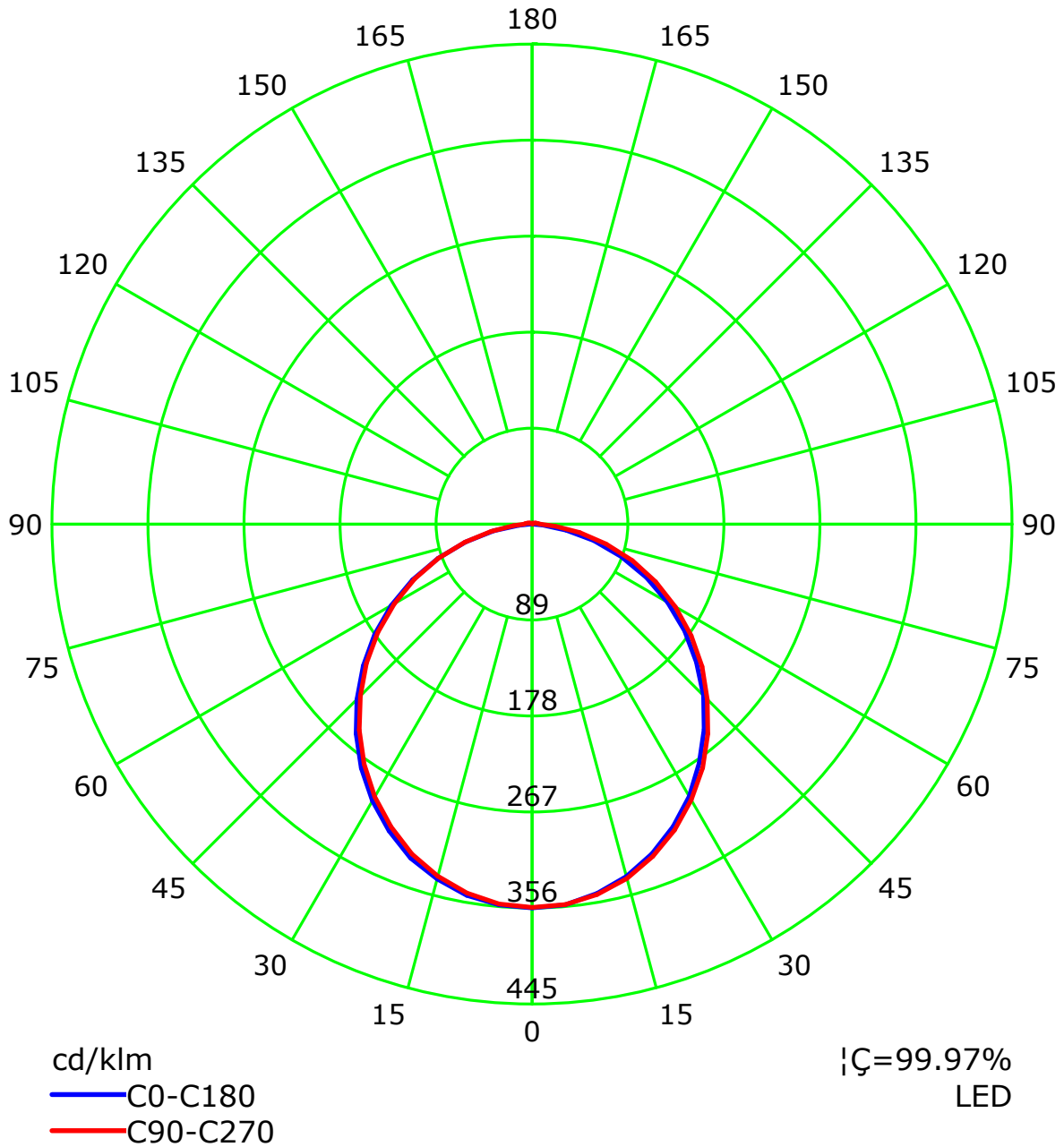
Luminous Intensity Distribution Curve



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

Gamma Plane (°):0.0-180.0:5.0
Test Device: LSG-1800B
Distance: 12.654 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



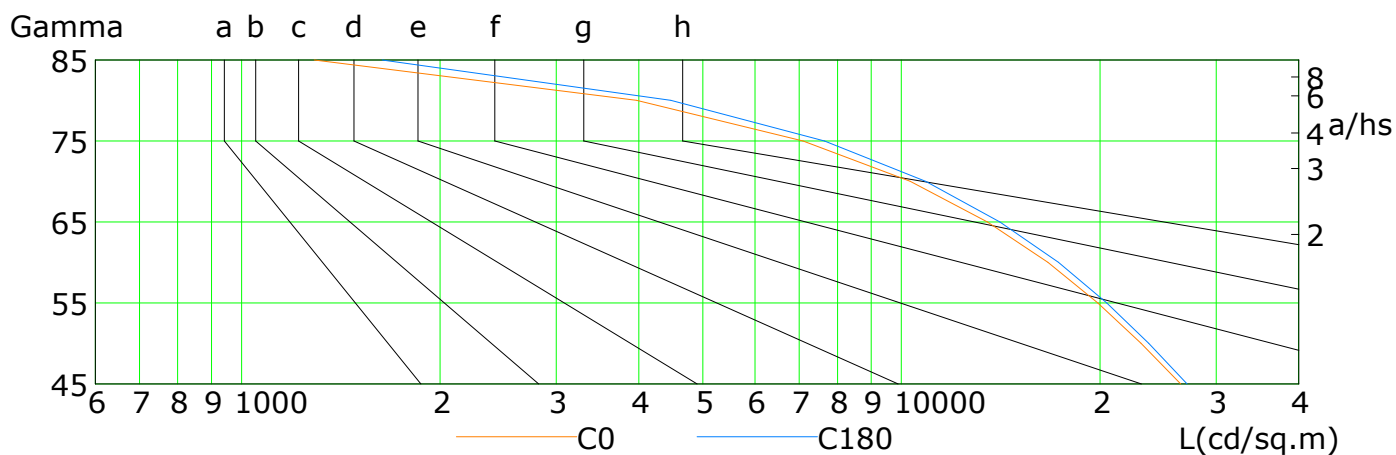
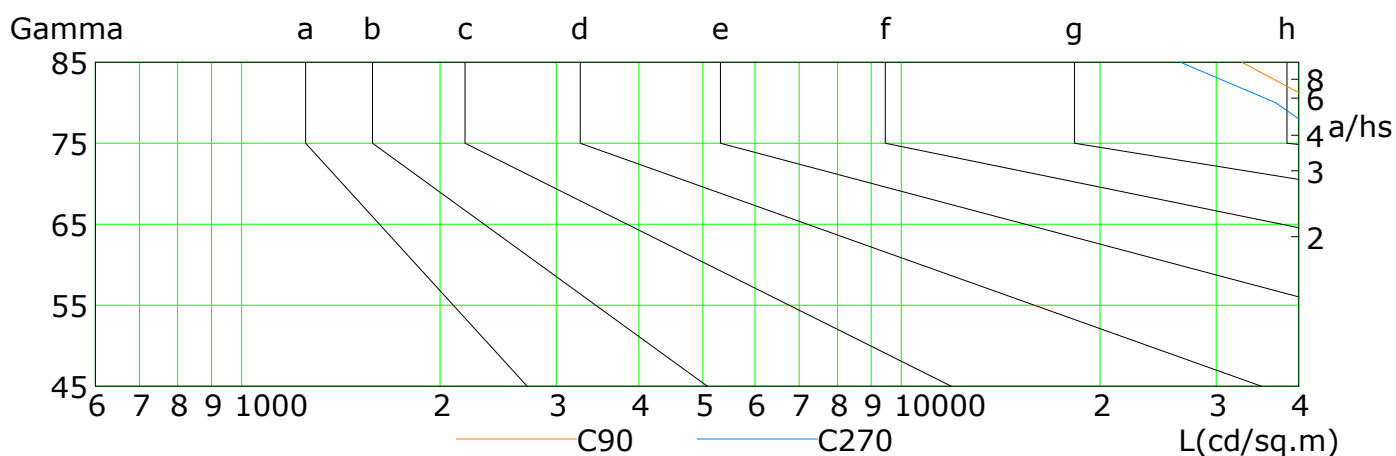
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:5.0
Test Device: LSG-1800B
Distance: 12.654 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

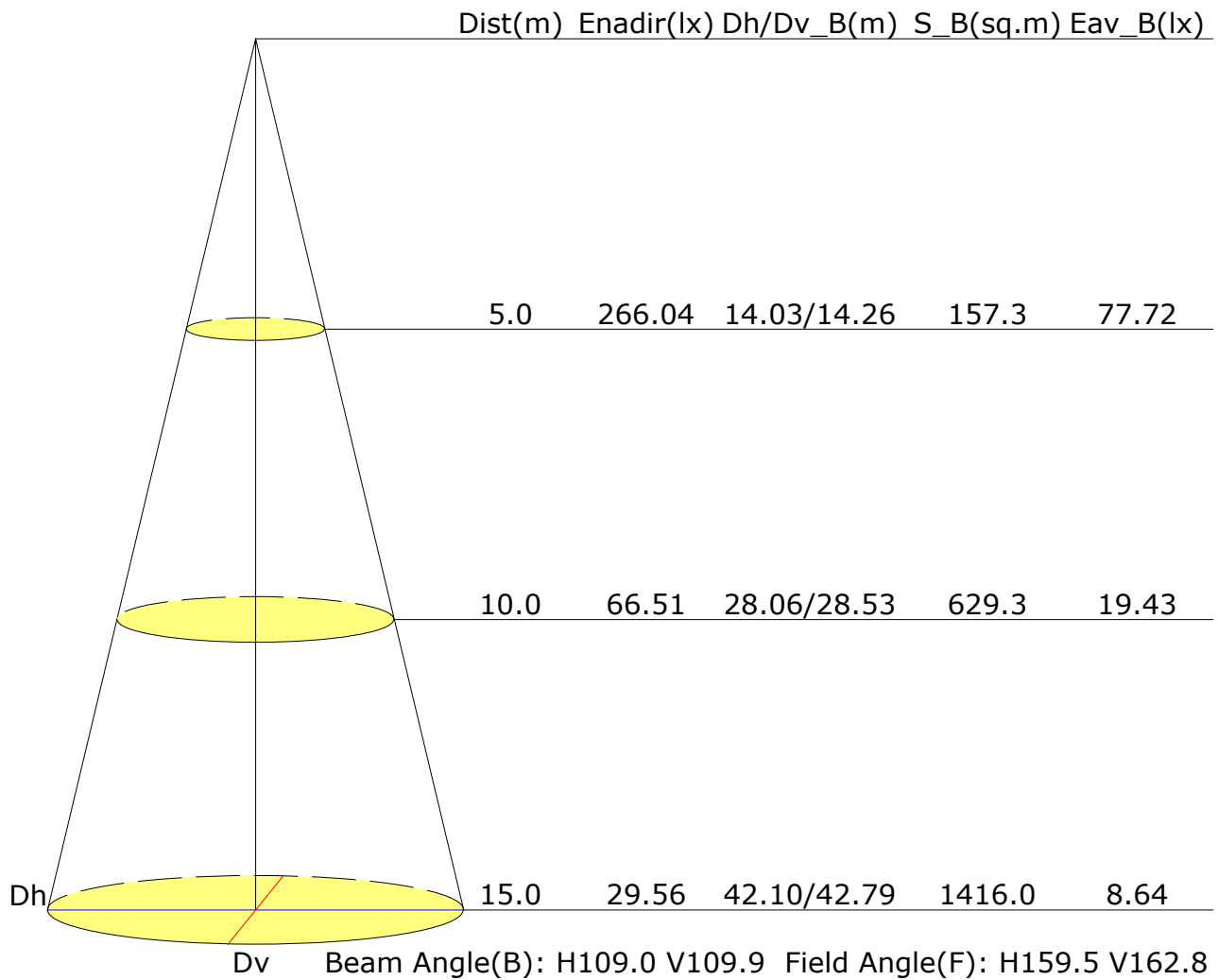


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	26505	23067	19838	16665	13498	10310	7093	3967	1288
C90	67485	65810	63807	61370	58509	54901	49664	42751	32803
C180	27117	23704	20483	17290	14107	10876	7649	4473	1634
C270	66212	64151	61836	59027	55641	51314	45284	36884	26486

C Plane (°):0.0-360.0: 22.5
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 Test Device: LSG-1800B
 Distance: 12.654 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	23.0	24.4	23.3	24.7	24.9	25.3	26.6	25.6	26.9	27.2
3H	24.0	25.2	24.3	25.5	25.8	26.8	28.0	27.1	28.3	28.6
4H	24.3	25.4	24.6	25.8	26.1	27.4	28.6	27.8	28.9	29.2
6H	24.4	25.5	24.8	25.8	26.2	27.8	28.9	28.2	29.3	29.6
8H	24.4	25.5	24.8	25.8	26.2	28.0	29.0	28.4	29.4	29.7
12H	24.4	25.4	24.8	25.7	26.1	28.1	29.1	28.5	29.4	29.8
X=4H Y=2H	23.7	24.8	24.0	25.2	25.5	25.5	26.7	25.9	27.0	27.3
3H	24.8	25.8	25.2	26.1	26.5	27.1	28.2	27.5	28.5	28.9
4H	25.1	26.0	25.6	26.4	26.8	27.8	28.7	28.3	29.1	29.5
6H	25.3	26.1	25.8	26.5	27.0	28.4	29.2	28.8	29.6	30.0
8H	25.3	26.1	25.8	26.5	27.0	28.5	29.3	29.0	29.7	30.2
12H	25.3	26.0	25.8	26.5	26.9	28.7	29.3	29.1	29.8	30.2
X=8H Y=4H	25.4	26.1	25.8	26.5	27.0	27.9	28.6	28.3	29.0	29.5
6H	25.6	26.2	26.1	26.7	27.2	28.5	29.1	29.0	29.5	30.0
8H	25.7	26.2	26.2	26.7	27.2	28.7	29.2	29.2	29.7	30.2
12H	25.7	26.2	26.2	26.6	27.2	28.9	29.3	29.4	29.8	30.3
X=12H Y=4H	25.4	26.0	25.8	26.5	26.9	27.9	28.5	28.3	29.0	29.4
6H	25.7	26.2	26.2	26.7	27.2	28.5	29.0	29.0	29.5	30.0
8H	25.7	26.2	26.2	26.7	27.2	28.7	29.2	29.2	29.6	30.2
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.2				
S=1.5H	+0.4/-0.8					+0.6/-0.6				
S=2.0H	+0.8/-1.5					+1.3/-1.4				

Calculate in accordance with CIE Pub.117. The table is revised with 18650lm ($8\log(F/F_0) = 10.2$).

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

Gamma Plane (°):0.0-180.0:5.0
 Test Device: LSG-1800B
 Distance: 12.654 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	0.67	0.74	0.79	0.87	0.92	0.95	1.00	1.03	
	0.30		0.49	0.59	0.67	0.72	0.80	0.86	0.90	0.96	0.99	
	0.20		0.43	0.53	0.61	0.67	0.75	0.81	0.86	0.92	0.96	
0.50	0.50	0.20	0.55	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.98	
	0.30		0.48	0.58	0.65	0.70	0.78	0.83	0.87	0.92	0.95	
	0.20		0.42	0.53	0.60	0.66	0.74	0.79	0.83	0.89	0.93	
0.30	0.50	0.20	0.53	0.62	0.69	0.74	0.80	0.85	0.88	0.92	0.94	
	0.30		0.47	0.57	0.64	0.69	0.76	0.81	0.84	0.89	0.92	
	0.20		0.42	0.52	0.59	0.64	0.72	0.77	0.81	0.86	0.90	
0.00	0.00	0.00	0.40	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85	
Rating:148W 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	0.99	0.82	0.70	0.61	0.49	0.40	0.35	0.27	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.50	0.50	0.20	0.96	0.79	0.67	0.58	0.46	0.42	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		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.93	0.76	0.64	0.56	0.44	0.37	0.31	0.24	0.20	
	0.30		0.79	0.67	0.57	0.51	0.41	0.34	0.30	0.23	0.19	
	0.20		0.69	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.59	0.50	0.43	0.38	0.30	0.25	0.22	0.17	0.14	
Rating:148W 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	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
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		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
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:148W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												