

Report No.: 1

Test Time: 13.02.2019 15:49

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 80LED 0,764A 100Wx2 5000K

Lamp Description: LED

Number of Lamps: 1

Lumens per Lamp: 27366.6 lm

Luminous Length (mm): 1550 mm

Luminous Width (mm): 60 mm

Luminous Height (mm): 83 mm

Voltage: 221.7 V

Current: 0.899 A

Power: 197.91 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 27366.6 lm

Measurement Flux: 27358.7 lm

Efficiency: 99.97%

Downward Ratio: 98.97%

Upward Ratio: 1.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.8, 158.2, 150.8, 151.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.6, 124.4, 117.4, 117.4

Luminaire Efficacy Rating (LER): 138.29

Central Intensity: 9016.16 cd

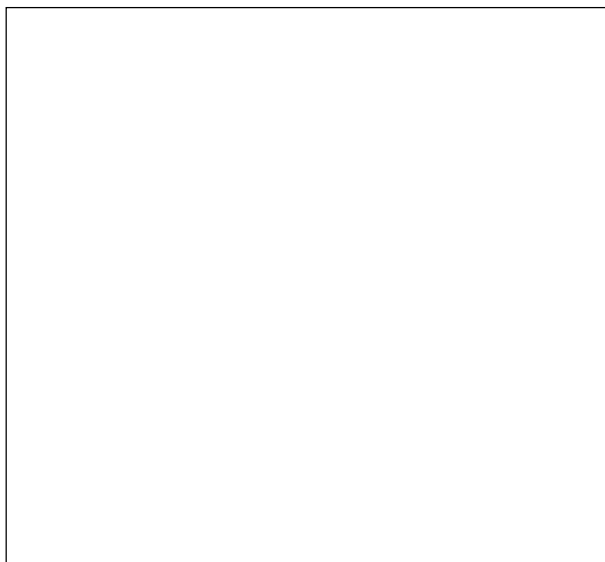
Max. Intensity: 9176.67 cd

Pos of Max. Intensity: H90 V10

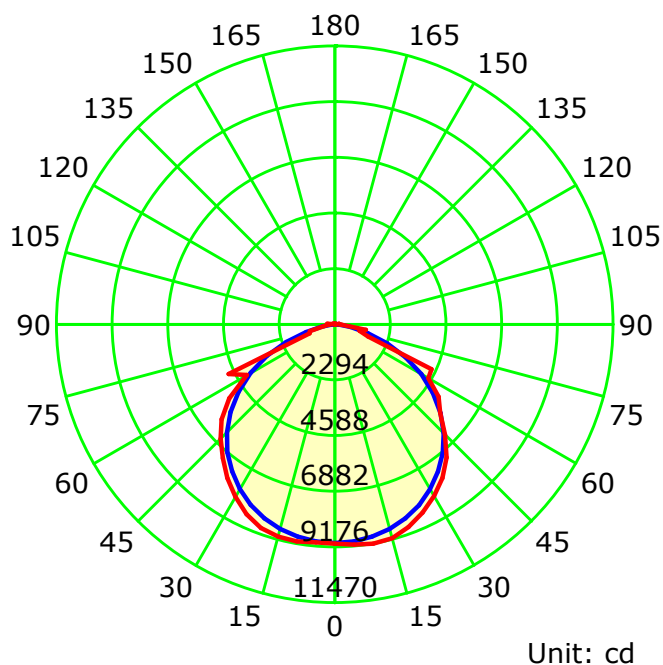
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.33

Picture Of Luminaire



Luminous Intensity Distribution Curve



— 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

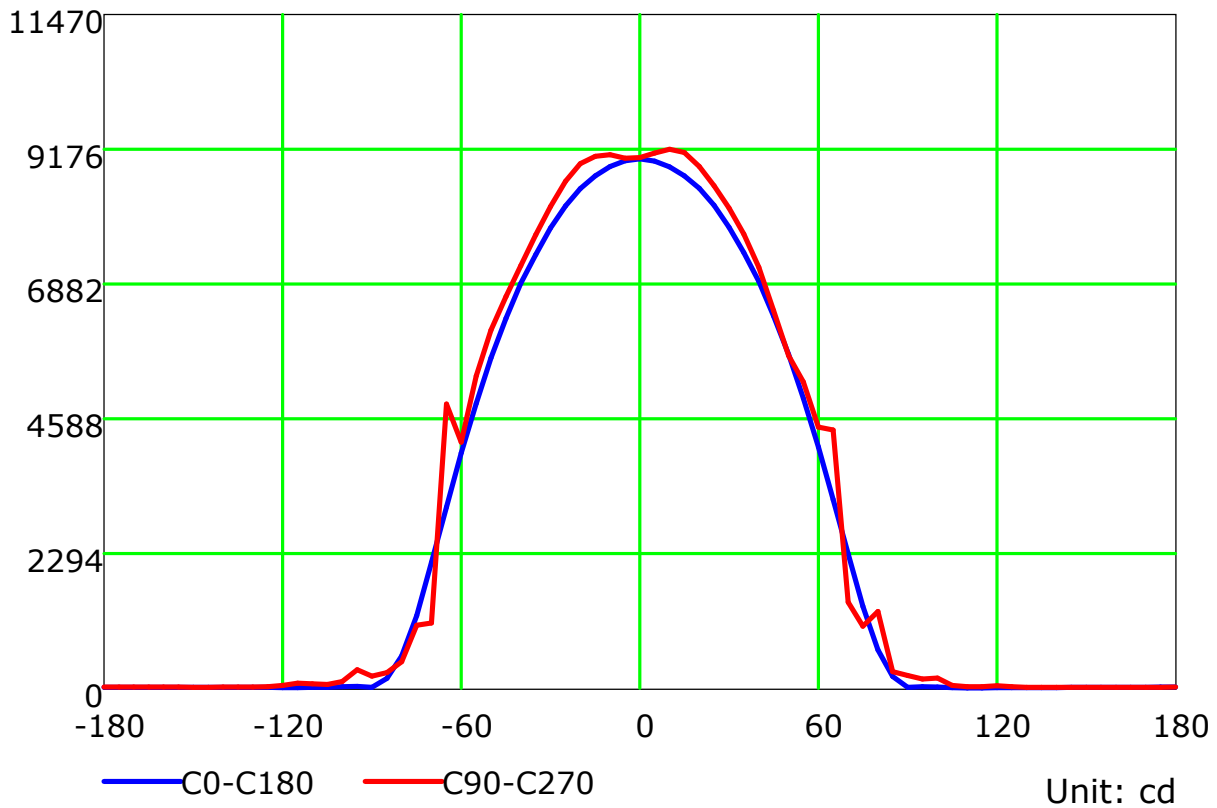
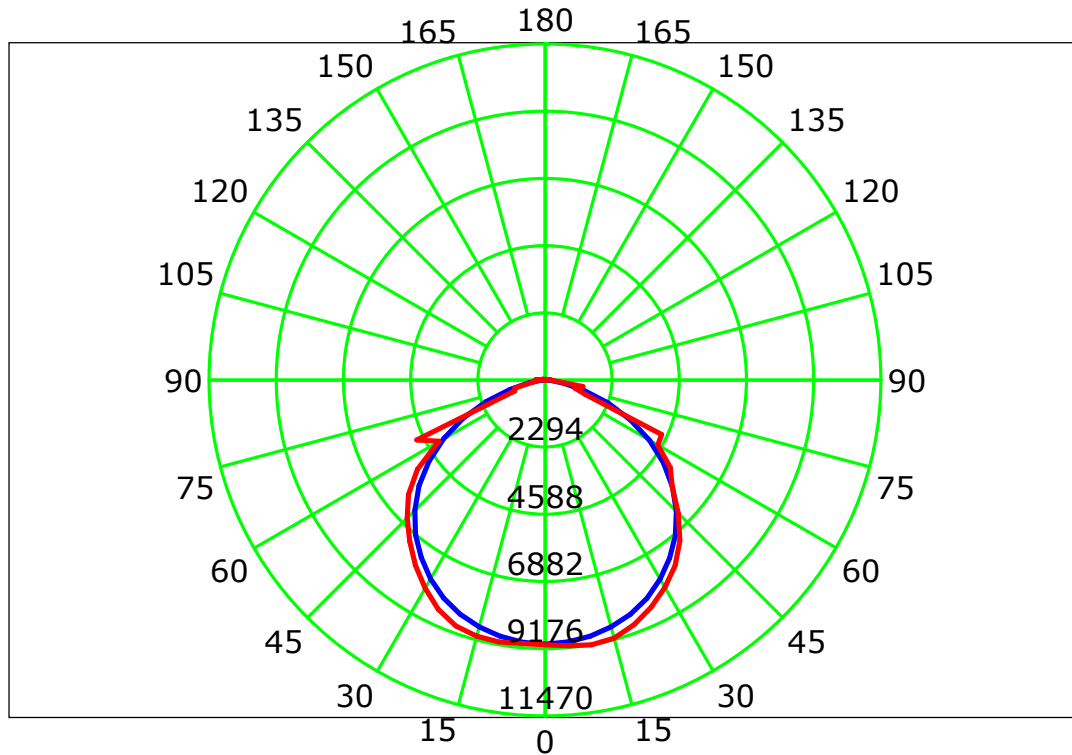
Temperature:

Humidity:

Operator:

Inspector:

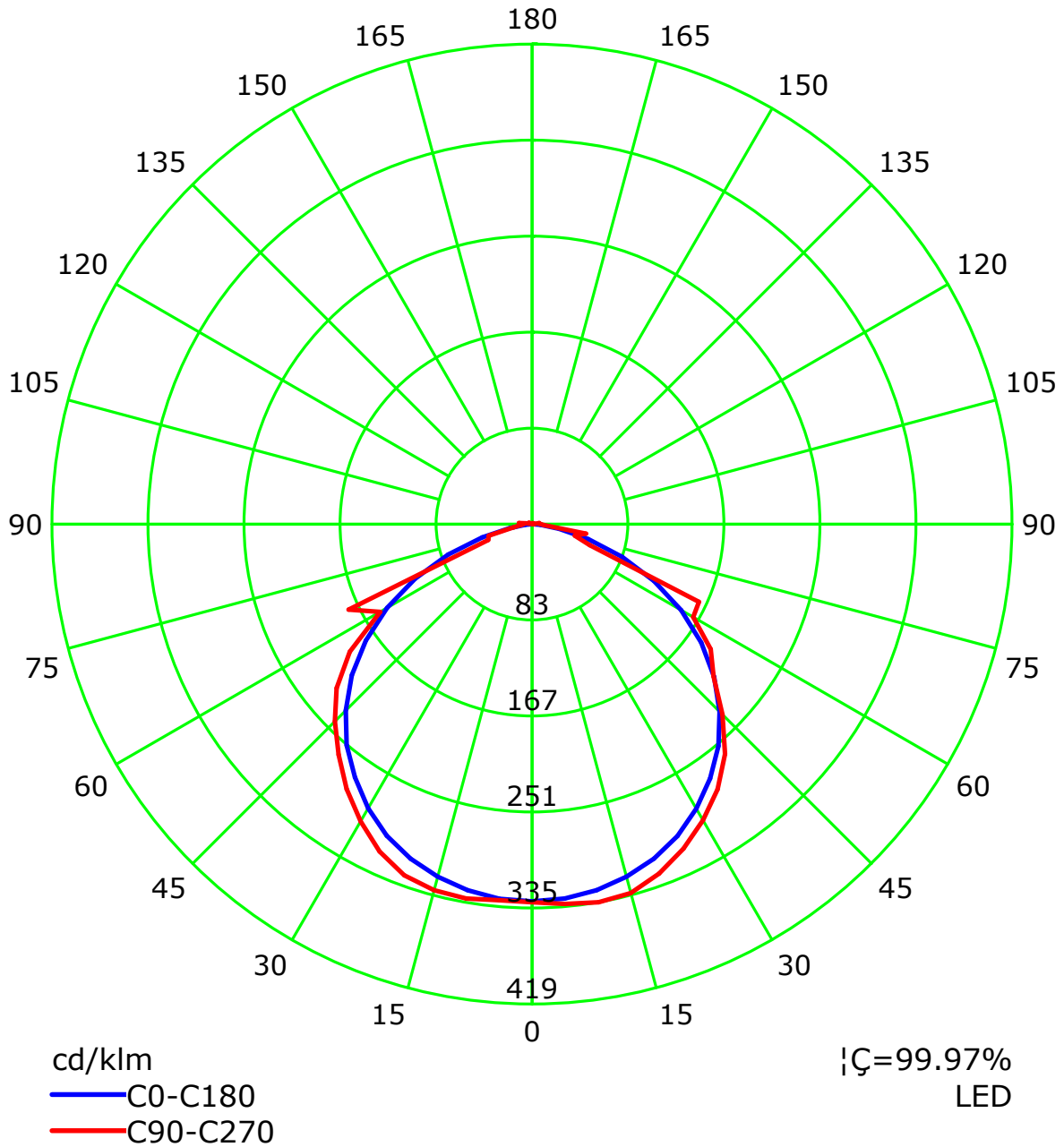
Luminous Intensity Distribution Curve



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)



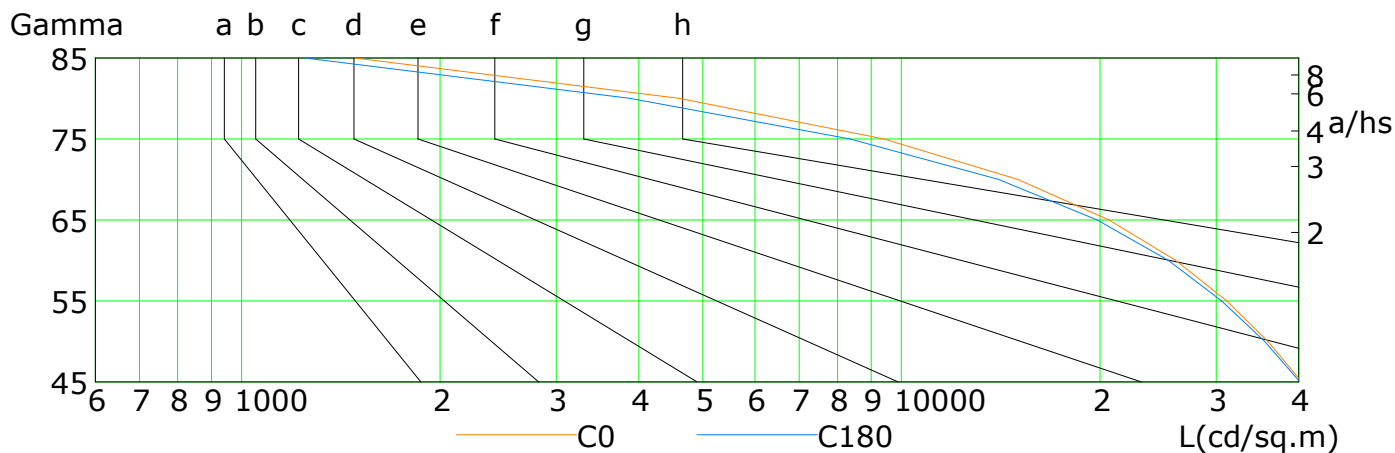
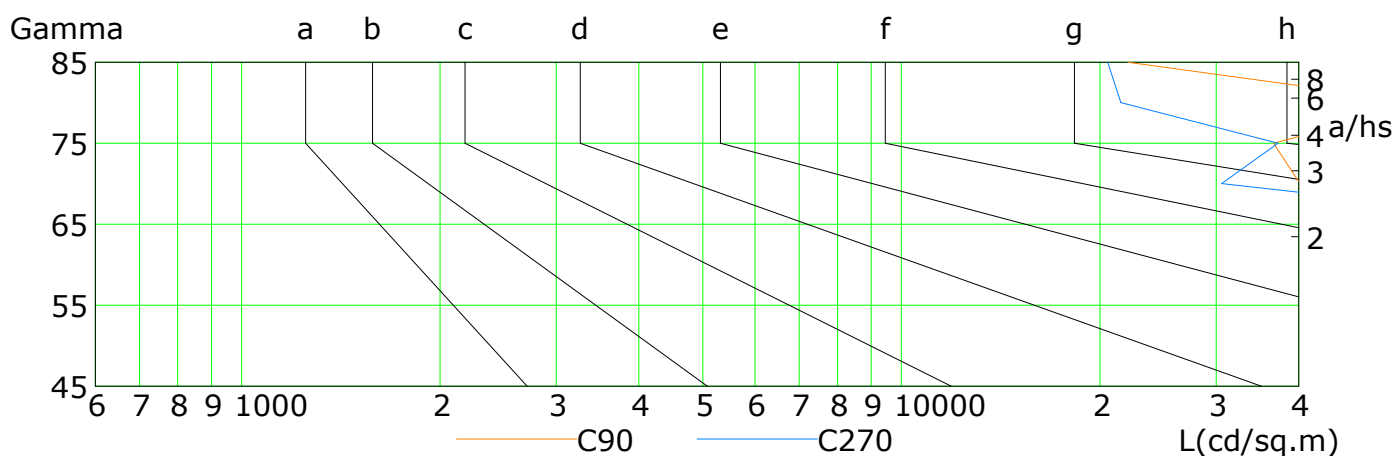
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

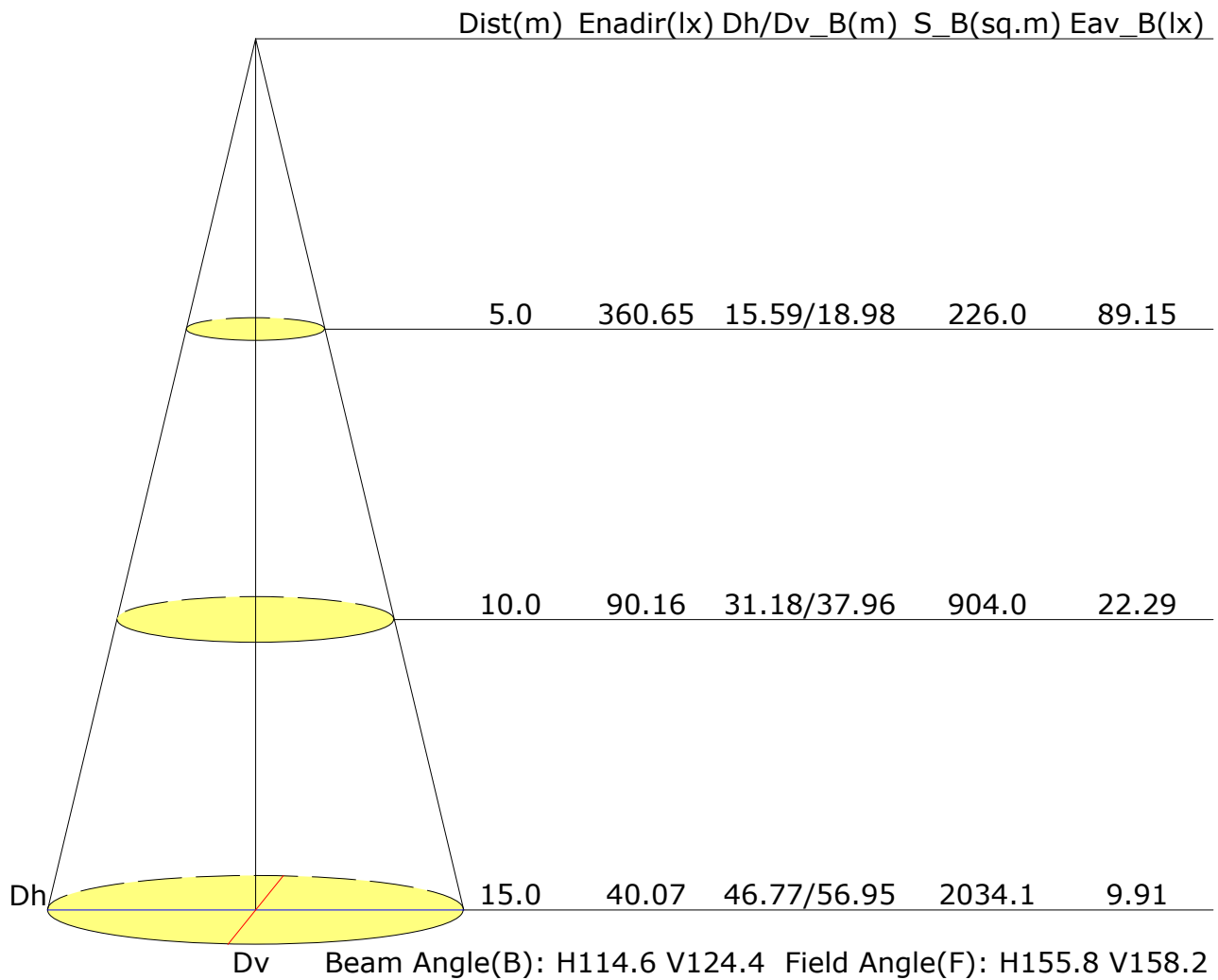


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	40460	35907	31116	26046	20629	14998	9415	4604	1485
C90	92829	89099	90823	87586	100372	40195	36657	62247	22052
C180	40204	35521	30569	25370	19806	14028	8361	3879	1247
C270	96284	95943	92672	82484	110474	30580	37226	21517	20547

C Plane (°):0.0-360.0: 22.5
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 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:5.0
 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	24.9	26.3	25.2	26.5	26.8	27.0	28.4	27.3	28.6	28.9
3H	25.8	27.0	26.1	27.3	27.6	28.3	29.5	28.6	29.8	30.1
4H	26.0	27.2	26.3	27.5	27.8	28.5	29.6	28.8	29.9	30.3
6H	26.1	27.1	26.4	27.5	27.8	28.7	29.7	29.0	30.1	30.4
8H	26.0	27.1	26.4	27.4	27.8	28.7	29.8	29.1	30.1	30.5
12H	26.0	27.0	26.4	27.4	27.7	28.7	29.8	29.1	30.1	30.5
X=4H Y=2H	25.6	26.7	25.9	27.0	27.4	27.3	28.4	27.6	28.7	29.1
3H	26.5	27.5	26.9	27.9	28.3	28.7	29.7	29.1	30.0	30.4
4H	26.8	27.7	27.2	28.1	28.5	28.9	29.8	29.3	30.2	30.6
6H	27.0	27.8	27.4	28.2	28.6	29.1	29.9	29.6	30.3	30.7
8H	27.0	27.7	27.4	28.1	28.6	29.2	29.9	29.7	30.4	30.8
12H	27.0	27.6	27.4	28.1	28.5	29.3	29.9	29.7	30.3	30.8
X=8H Y=4H	26.9	27.6	27.4	28.1	28.5	28.9	29.6	29.3	30.0	30.5
6H	27.1	27.7	27.6	28.2	28.7	29.1	29.7	29.6	30.2	30.7
8H	27.2	27.7	27.7	28.2	28.7	29.3	29.8	29.8	30.2	30.7
12H	27.2	27.6	27.7	28.1	28.6	29.3	29.8	29.8	30.2	30.8
X=12H Y=4H	26.9	27.6	27.4	28.0	28.5	28.9	29.5	29.3	30.0	30.4
6H	27.1	27.6	27.6	28.1	28.6	29.1	29.6	29.6	30.1	30.6
8H	27.2	27.6	27.7	28.1	28.6	29.2	29.7	29.8	30.2	30.7
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.4/-0.2				
S=1.5H	+0.5/-1.0					+1.2/-0.7				
S=2.0H	+1.0/-1.9					+2.0/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 27367lm ($8\log(F/F_0) = 11.5$).

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 = 1.50									
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	0.60	0.69	0.76	0.82	0.89	0.94	0.97	1.01	1.04	
	0.30		0.53	0.61	0.69	0.75	0.83	0.88	0.92	0.97	1.01	
	0.20		0.47	0.56	0.64	0.70	0.78	0.84	0.88	0.94	0.98	
0.50	0.50	0.20	0.58	0.66	0.74	0.79	0.86	0.90	0.93	0.97	1.00	
	0.30		0.52	0.60	0.68	0.73	0.81	0.86	0.89	0.94	0.97	
	0.20		0.47	0.55	0.63	0.69	0.77	0.82	0.86	0.91	0.95	
0.30	0.50	0.20	0.57	0.64	0.71	0.76	0.83	0.87	0.90	0.93	0.96	
	0.30		0.51	0.59	0.66	0.72	0.78	0.83	0.86	0.91	0.93	
	0.20		0.46	0.54	0.62	0.68	0.75	0.80	0.84	0.88	0.91	
0.00	0.00	0.00	0.44	0.52	0.59	0.64	0.71	0.76	0.79	0.84	0.87	
Rating:198W 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 = 1.50									
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	0.94	0.79	0.66	0.57	0.45	0.37	0.32	0.25	0.20	
	0.30		0.78	0.68	0.58	0.51	0.41	0.34	0.29	0.23	0.19	
	0.20		0.67	0.59	0.51	0.45	0.37	0.32	0.27	0.22	0.18	
0.50	0.50	0.20	0.90	0.76	0.63	0.54	0.43	0.39	0.30	0.23	0.19	
	0.30		0.76	0.66	0.56	0.49	0.39	0.33	0.28	0.22	0.18	
	0.20		0.66	0.58	0.50	0.44	0.36	0.31	0.26	0.21	0.17	
0.30	0.50	0.20	0.87	0.73	0.61	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.74	0.64	0.54	0.47	0.38	0.32	0.27	0.21	0.17	
	0.20		0.65	0.57	0.49	0.43	0.35	0.30	0.25	0.20	0.16	
0.00	0.00	0.00	0.55	0.47	0.40	0.34	0.27	0.23	0.19	0.15	0.12	
Rating:198W 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 = 1.50									
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	0.22	
	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	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.19	0.19	
	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	0.18	0.19	0.19	0.20	0.20	0.21	
	0.30		0.10	0.11	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:198W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												