

Report No.: 1

Test Time: 15.02.2019 12:48

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 48LED 0,35A 55Wx2 5000K c БАП

Lamp Description: LED

Luminous Length (mm): 1245

Luminous Height (mm): 90

Current: 0.489 A

Power Factor: 0.985

Number of Lamps: 1

Luminous Width (mm): 55

Voltage: 222.2 V

Power: 108.15 W

Photometric Results

CIE Class: Direct

Measurement Flux: 15668.4 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.7, 156.5, 149.8, 148.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.5, 123.5, 115.5, 115.4

Luminaire Efficacy Rating (LER): 144.93

Max. Intensity: 5372.4 cd

S/MH(C0/C180): 1.30

Total Rated Lamp Lumens: 15668.4 lm

Efficiency: 100%

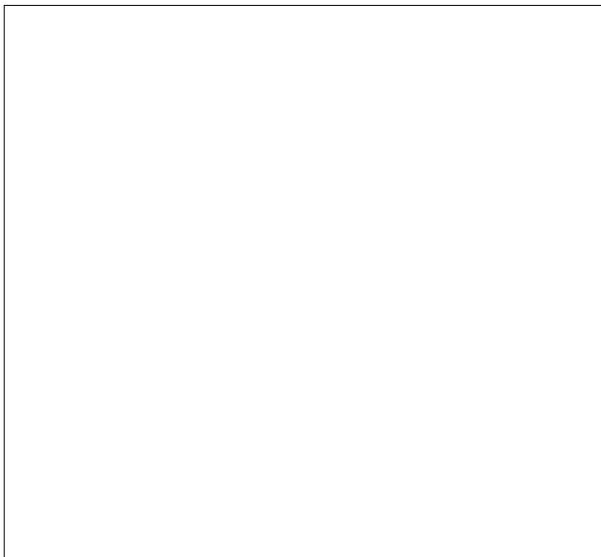
Upward Ratio: 1%

Central Intensity: 5341.88 cd

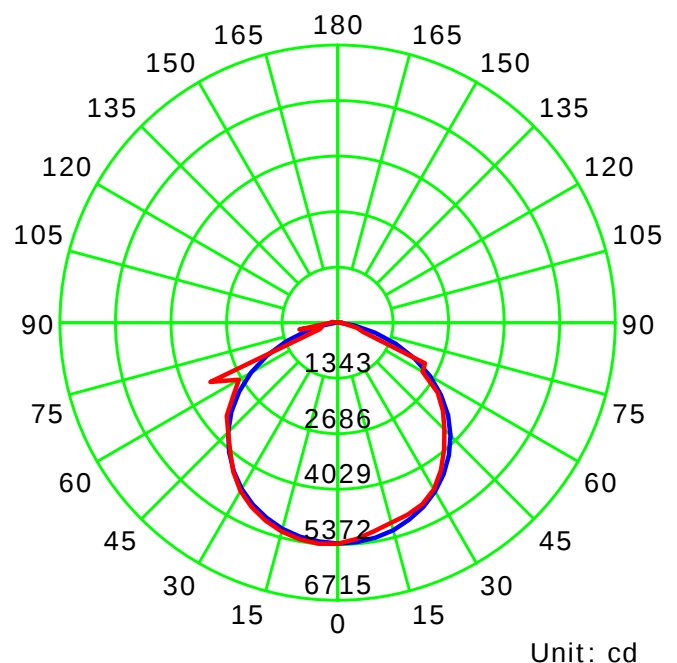
Pos of Max. Intensity: H292.5 V5

S/MH(C90/C270): 1.29

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 (°):0.0-180.0:5.0

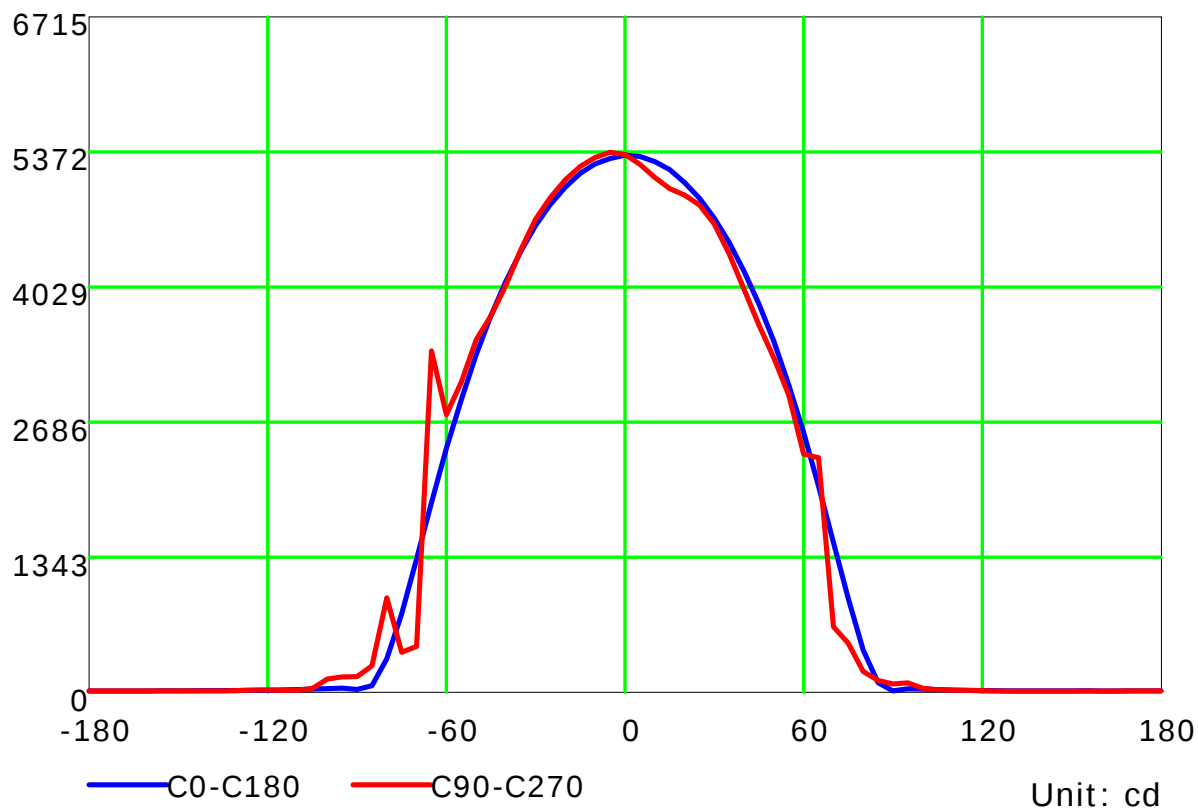
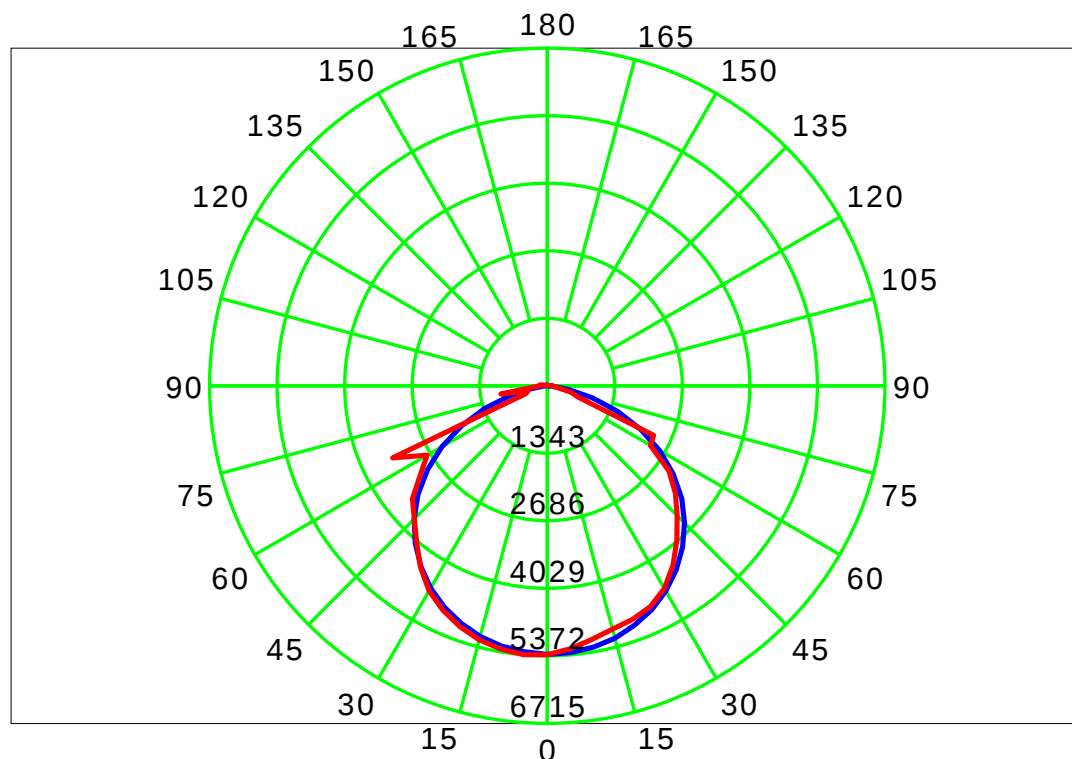
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

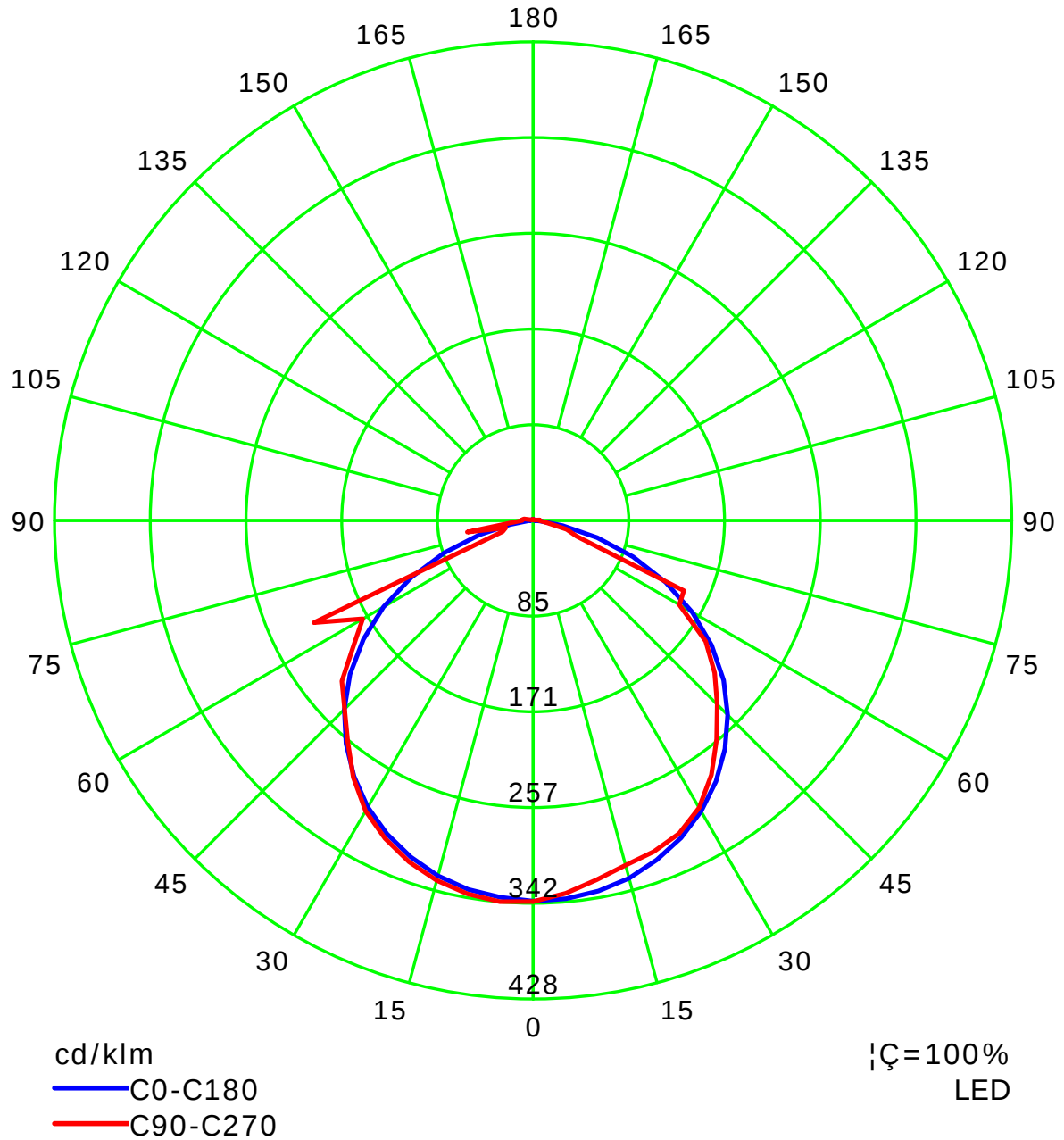
Luminous Intensity Distribution Curve



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

Gamma Plane (°): 0.0-180.0: 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

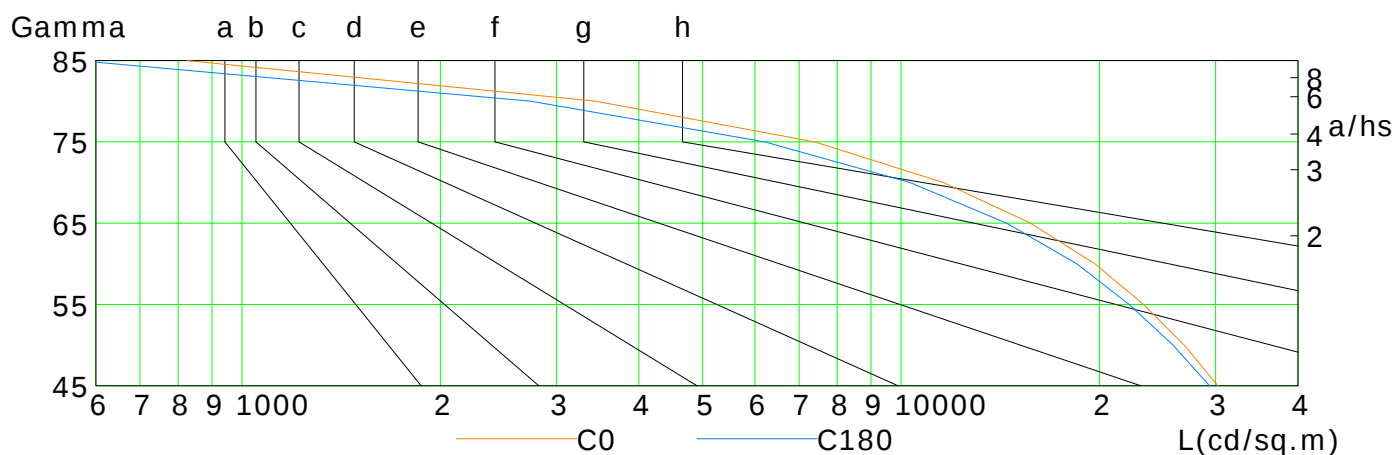
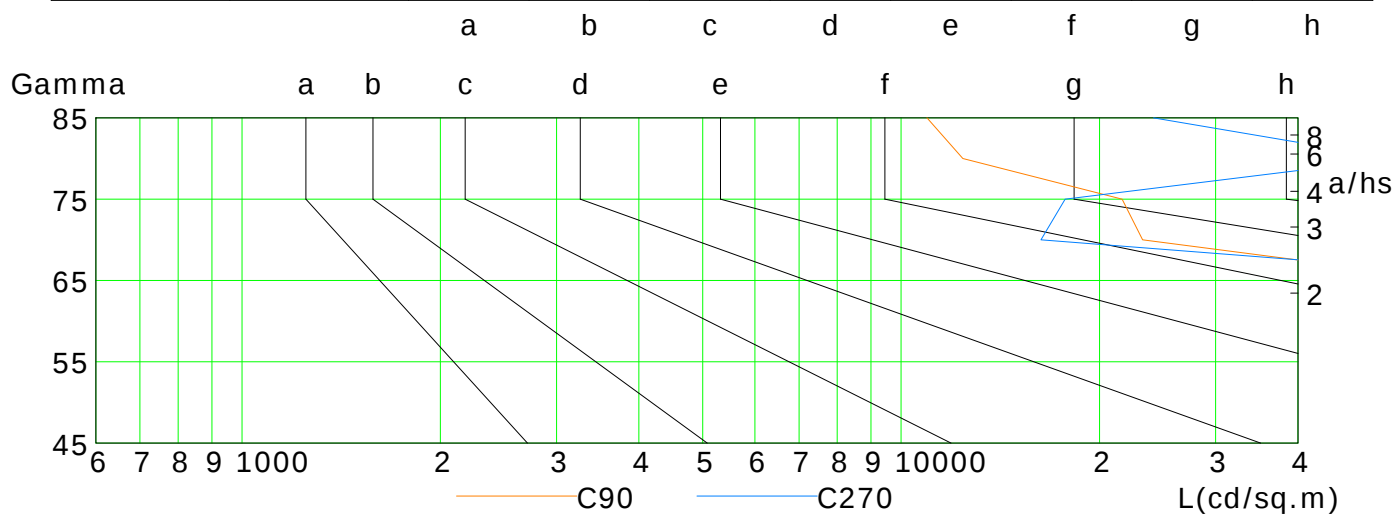
Distance: 12.654 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	30238	26881	23325	19676	15714	11587	7393	3442	825
C90	70337	69562	68201	61493	69809	23248	21647	12408	10948
C180	29368	25854	22185	18477	14451	10316	6208	2743	566
C270	72128	73323	71145	71689	101593	16299	17732	56030	24145

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

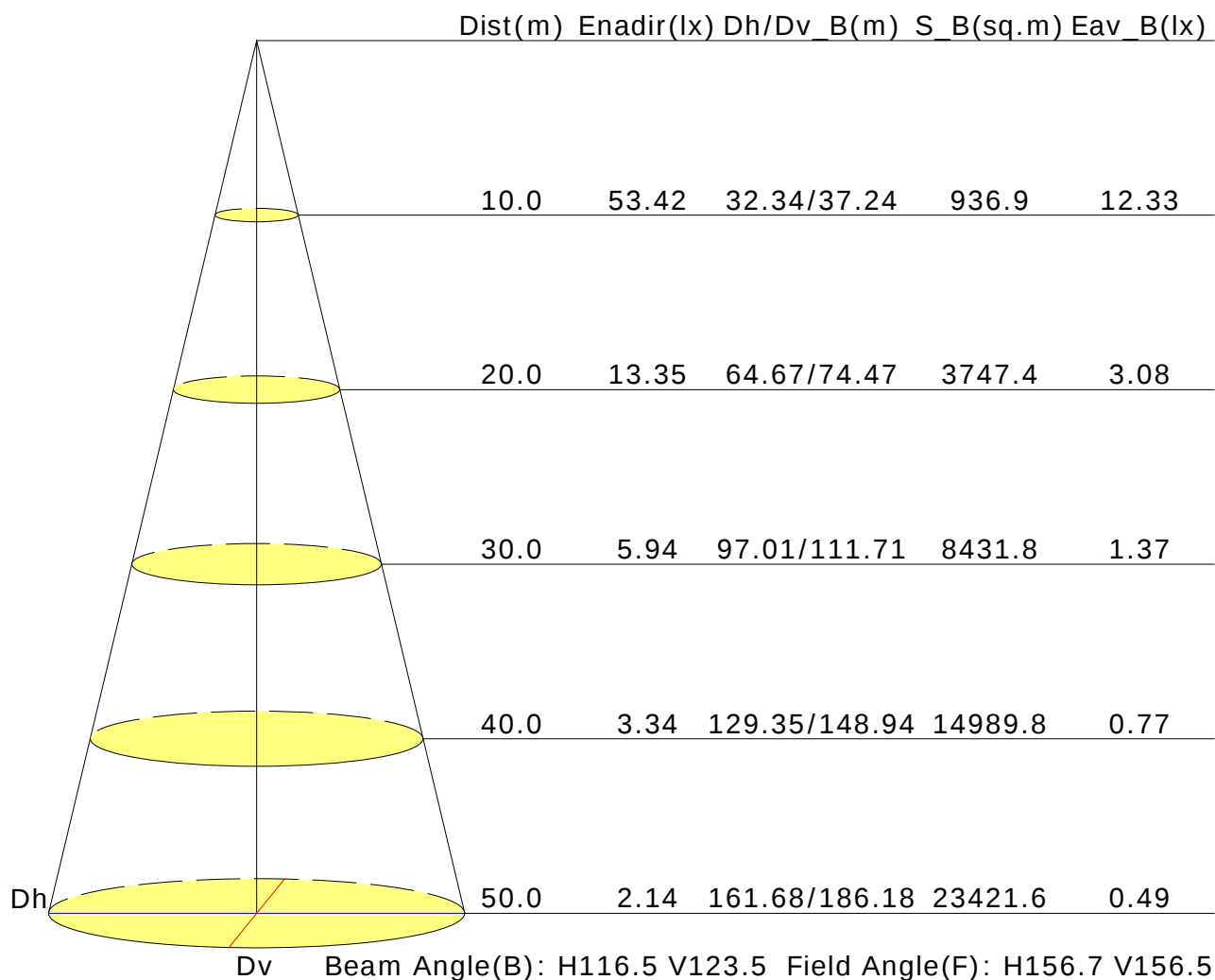
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

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	23.8	25.2	24.1	25.4	25.7	26.1	27.4	26.4	27.7	28.0
3H	24.7	25.9	25.0	26.2	26.5	27.3	28.5	27.6	28.8	29.1
4H	24.9	26.1	25.3	26.4	26.7	27.4	28.5	27.7	28.8	29.2
6H	25.0	26.1	25.4	26.4	26.8	27.6	28.7	28.0	29.0	29.4
8H	25.0	26.1	25.4	26.4	26.8	27.7	28.8	28.1	29.1	29.5
12H	25.0	26.0	25.4	26.3	26.7	27.8	28.8	28.2	29.1	29.5
X=4H Y=2H	24.5	25.6	24.8	25.9	26.3	26.3	27.5	26.7	27.8	28.1
3H	25.5	26.5	25.9	26.9	27.2	27.6	28.6	28.0	29.0	29.3
4H	25.8	26.7	26.2	27.1	27.5	27.7	28.6	28.2	29.0	29.4
6H	26.0	26.8	26.4	27.2	27.6	28.1	28.8	28.5	29.2	29.7
8H	26.0	26.7	26.4	27.1	27.6	28.2	28.9	28.7	29.4	29.8
12H	26.0	26.6	26.4	27.1	27.5	28.3	28.9	28.8	29.4	29.9
X=8H Y=4H	25.9	26.6	26.3	27.0	27.5	27.7	28.5	28.2	28.9	29.3
6H	26.1	26.7	26.6	27.1	27.6	28.1	28.7	28.6	29.1	29.6
8H	26.1	26.7	26.6	27.1	27.6	28.3	28.8	28.8	29.3	29.8
12H	26.1	26.6	26.6	27.1	27.6	28.4	28.8	28.9	29.3	29.9
X=12H Y=4H	25.9	26.5	26.3	27.0	27.4	27.7	28.4	28.2	28.8	29.3
6H	26.1	26.6	26.6	27.1	27.6	28.1	28.6	28.6	29.1	29.6
8H	26.2	26.6	26.7	27.1	27.6	28.3	28.7	28.8	29.2	29.8
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.8/-0.6				
S=1.5H	+0.4/-0.7					+1.9/-1.1				
S=2.0H	+0.9/-1.7					+2.9/-3.0				

Calculate in accordance with CIE Pub.117. The table is revised with 15668lm ($8\log(F/F_0) = 9.6$).

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	0.75	0.80	0.88	0.93	0.96	1.01	1.04	
	0.30		0.48	0.59	0.67	0.73	0.82	0.87	0.91	0.97	1.00	
	0.20		0.43	0.54	0.62	0.68	0.77	0.83	0.87	0.93	0.97	
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.84	0.89	0.92	0.97	0.99	
	0.30		0.47	0.58	0.66	0.71	0.79	0.85	0.88	0.93	0.97	
	0.20		0.42	0.53	0.61	0.67	0.75	0.81	0.85	0.91	0.94	
0.30	0.50	0.20	0.53	0.63	0.70	0.75	0.81	0.86	0.89	0.93	0.95	
	0.30		0.47	0.57	0.64	0.70	0.77	0.82	0.86	0.90	0.93	
	0.20		0.42	0.52	0.60	0.66	0.73	0.79	0.83	0.88	0.91	
0.00	0.00	0.00	0.40	0.50	0.57	0.62	0.70	0.75	0.78	0.83	0.86	
Rating:108W 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	1.00	0.82	0.69	0.60	0.47	0.39	0.33	0.26	0.21	
	0.30		0.83	0.70	0.61	0.53	0.43	0.36	0.31	0.24	0.20	
	0.20		0.72	0.61	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	0.96	0.79	0.66	0.57	0.45	0.41	0.32	0.24	0.20	
	0.30		0.82	0.68	0.59	0.51	0.41	0.34	0.30	0.23	0.19	
	0.20		0.71	0.60	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
0.30	0.50	0.20	0.93	0.76	0.64	0.55	0.43	0.35	0.30	0.23	0.19	
	0.30		0.80	0.67	0.57	0.50	0.40	0.33	0.28	0.22	0.18	
	0.20		0.70	0.59	0.52	0.46	0.37	0.31	0.27	0.21	0.17	
0.00	0.00	0.00	0.60	0.50	0.42	0.37	0.29	0.24	0.21	0.16	0.13	
Rating:108W 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	0.21	0.22	0.22	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.20	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	0.14	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:108W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												