

Report No.: 1

Test Time: 15.02.2019 12:22

Luminaire Property

Luminaire Manufacturer: FAROS

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

Lamp Description: LED

Number of Lamps: 1

Luminous Length (mm): 1245

Luminous Width (mm): 55

Luminous Height (mm): 90

Voltage: 221.8 V

Current: 0.493 A

Power: 108.29 W

Power Factor: 0.986

Photometric Results

CIE Class: Direct

Measurement Flux: 13315.5 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 13315.5 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.3, 163.1, 161.9, 161.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.3, 109.9, 109.8, 109.7

Luminaire Efficacy Rating (LER): 123.01

Central Intensity: 4712.98 cd

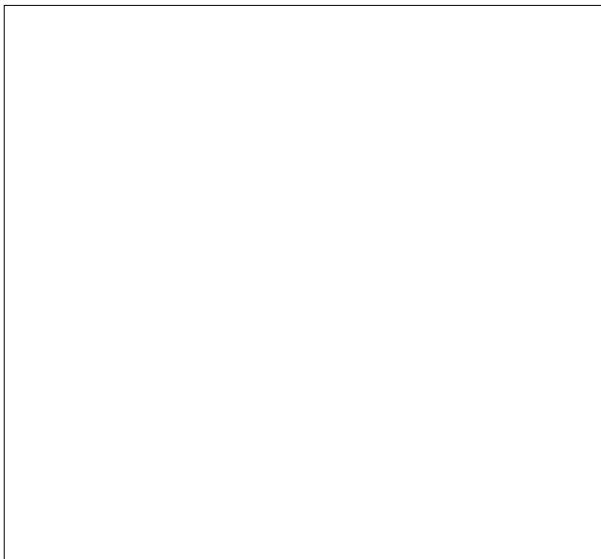
Max. Intensity: 4715.4 cd

Pos of Max. Intensity: H90 V0

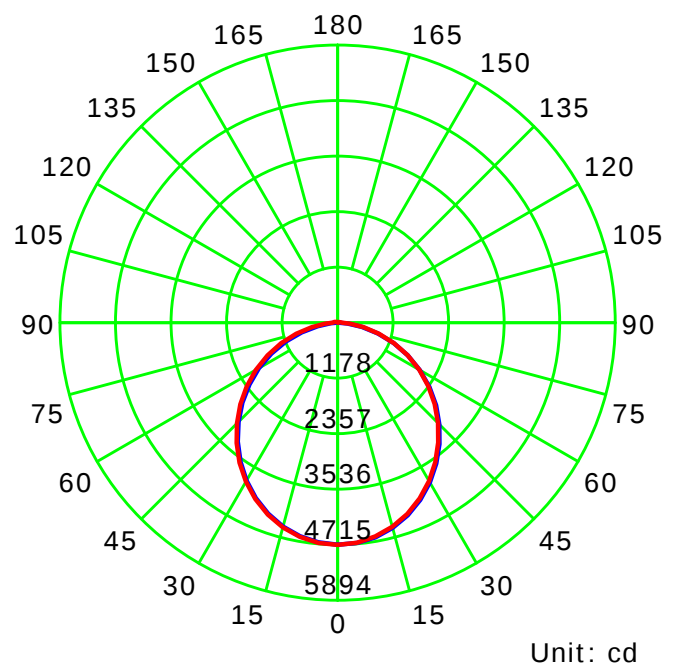
S/MH(C0/C180): 1.23

S/MH(C90/C270): 1.23

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

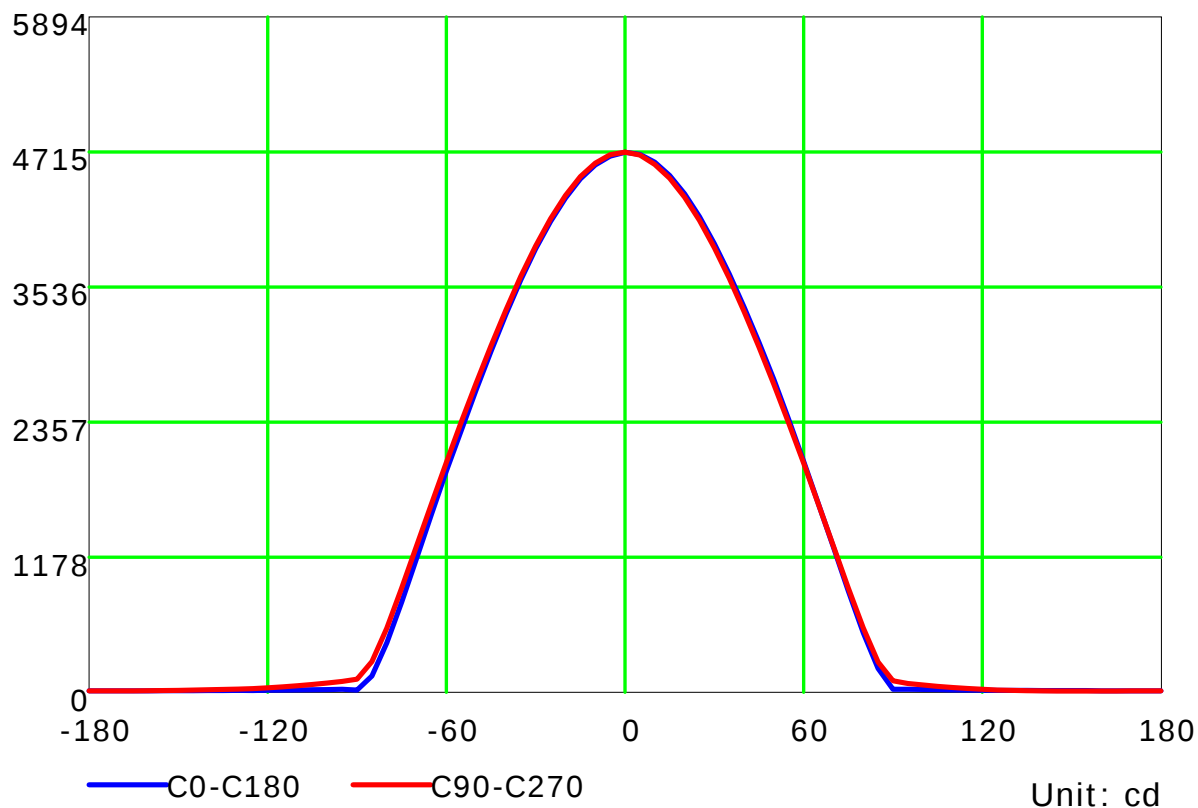
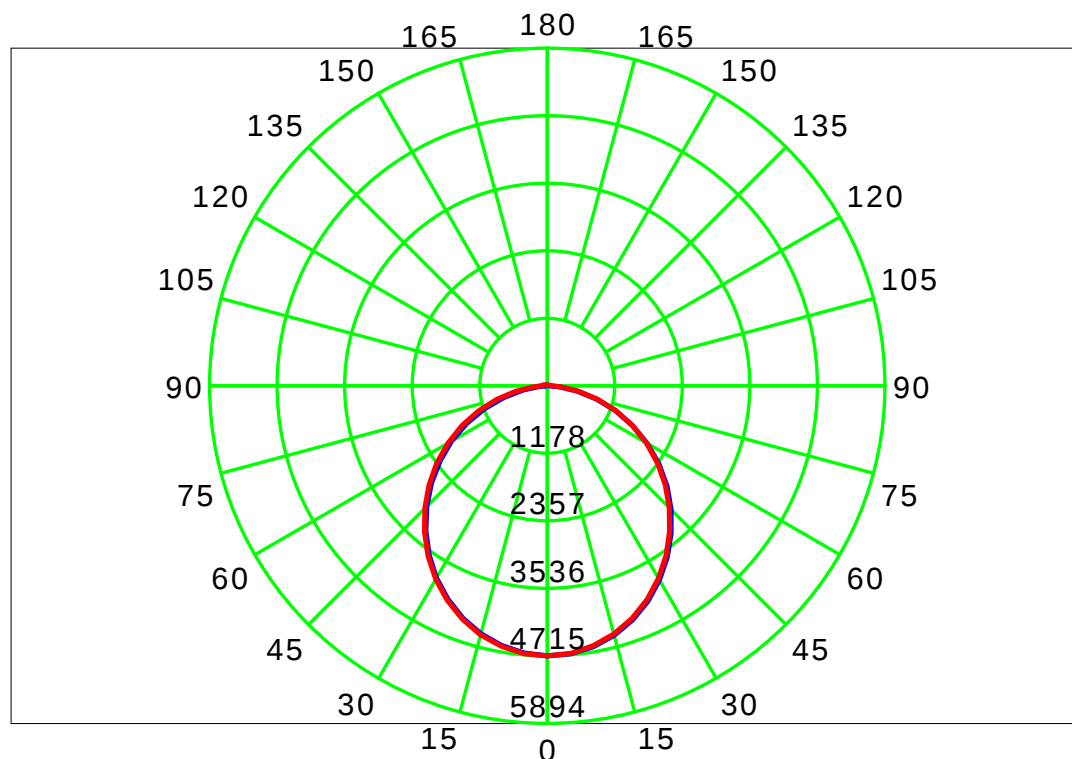
Test Device: LSG-1800B

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

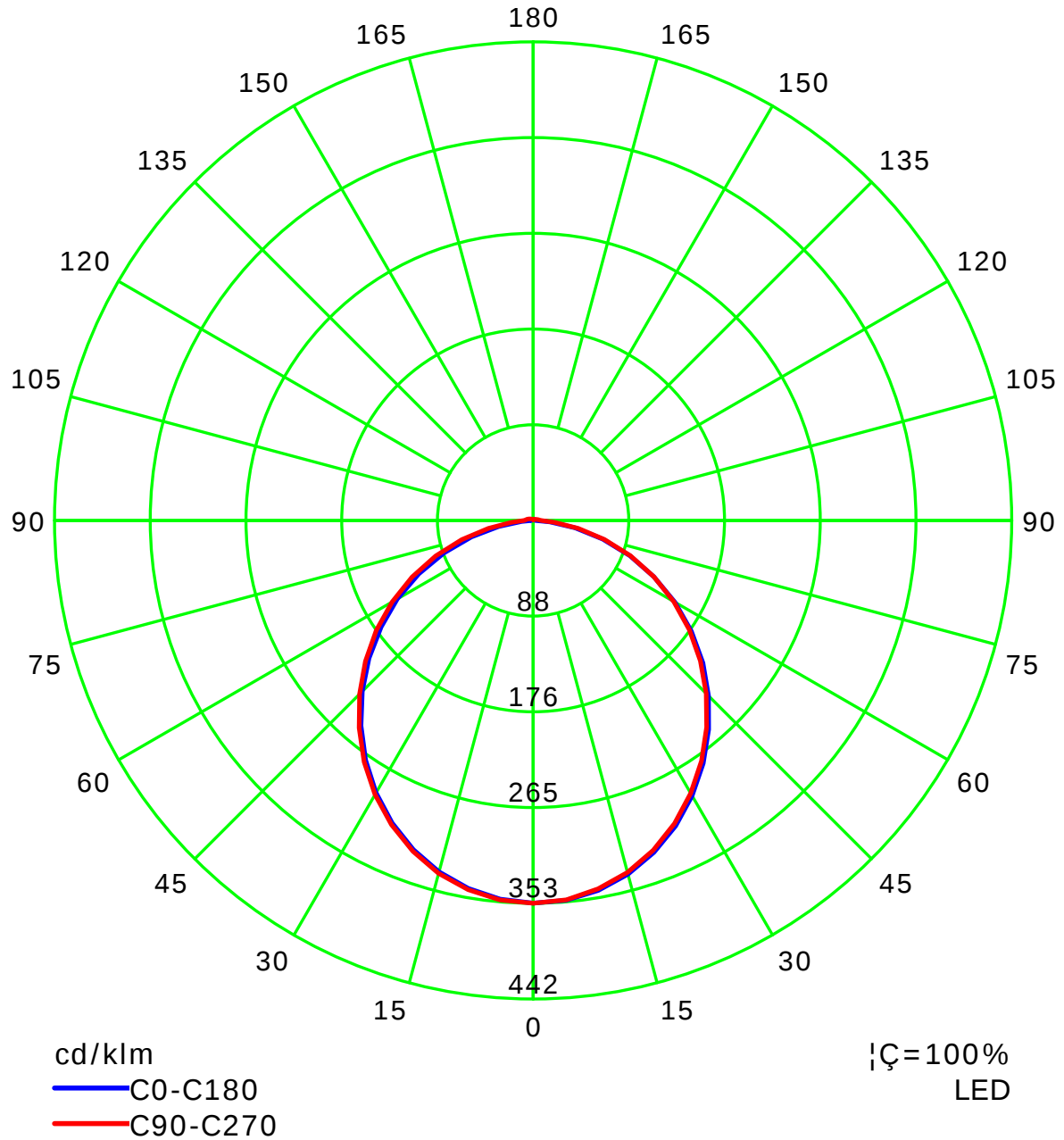
Test Device: LSG-1800B

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

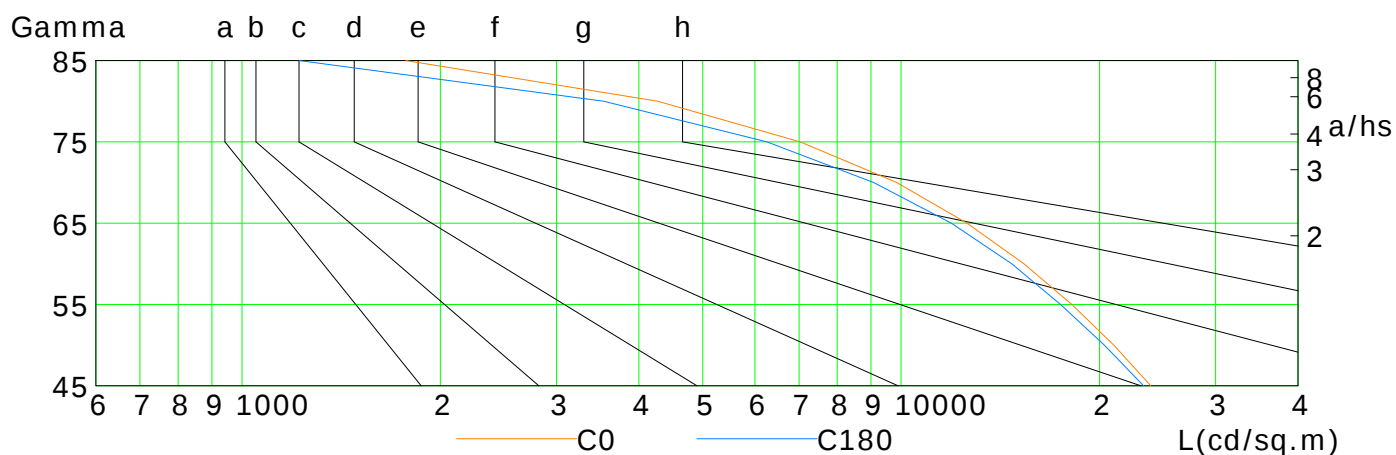
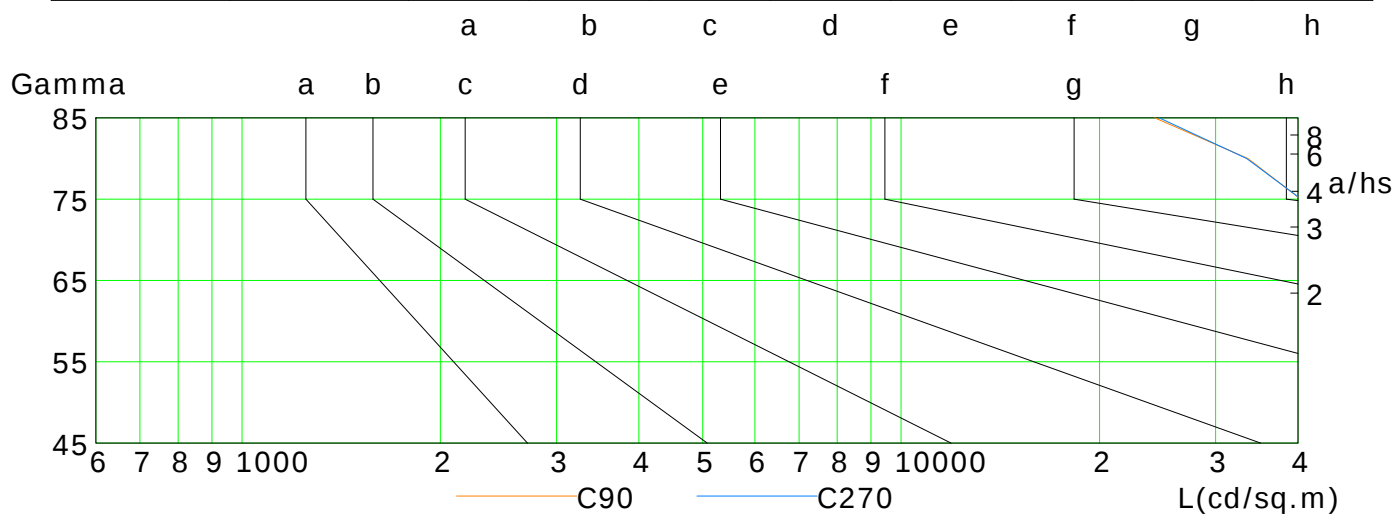
Distance: 12.654 m

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	23923	21022	18152	15357	12586	9846	7030	4272	1772
C90	58039	56231	54203	51933	49039	45441	40411	33594	24251
C180	23327	20334	17445	14723	11916	9087	6257	3537	1221
C270	58249	56429	54451	52068	49209	45532	40483	33428	24644

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

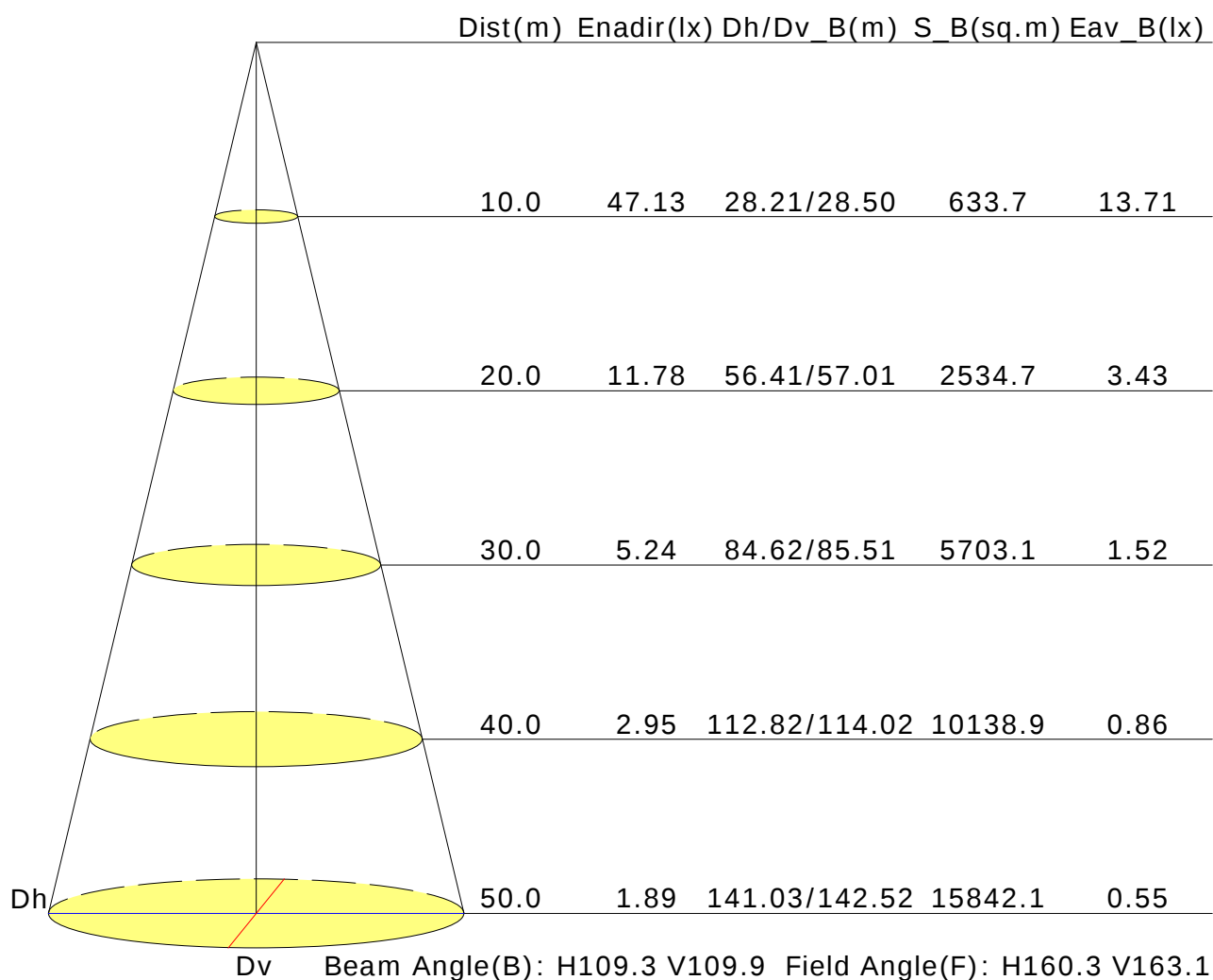
Test Device: LSG-1800B

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	22.8	24.2	23.1	24.4	24.7	24.8	26.2	25.1	26.5	26.7
3H	23.8	25.1	24.2	25.4	25.7	26.3	27.6	26.7	27.9	28.2
4H	24.1	25.3	24.5	25.6	26.0	27.0	28.1	27.3	28.4	28.8
6H	24.3	25.4	24.7	25.7	26.1	27.4	28.5	27.8	28.8	29.2
8H	24.3	25.4	24.7	25.7	26.1	27.5	28.6	27.9	28.9	29.3
12H	24.3	25.3	24.7	25.7	26.1	27.6	28.6	28.0	29.0	29.4
X=4H Y=2H	23.4	24.6	23.8	24.9	25.2	25.1	26.3	25.5	26.6	26.9
3H	24.6	25.6	25.0	26.0	26.3	26.7	27.8	27.1	28.1	28.5
4H	25.0	25.9	25.4	26.3	26.7	27.4	28.3	27.9	28.7	29.1
6H	25.3	26.1	25.7	26.5	26.9	28.0	28.8	28.4	29.2	29.6
8H	25.3	26.1	25.8	26.5	26.9	28.1	28.9	28.6	29.3	29.8
12H	25.3	26.0	25.8	26.4	26.9	28.3	28.9	28.7	29.4	29.9
X=8H Y=4H	25.3	26.0	25.7	26.4	26.9	27.5	28.2	28.0	28.7	29.1
6H	25.6	26.2	26.1	26.6	27.1	28.1	28.7	28.6	29.1	29.6
8H	25.7	26.2	26.2	26.7	27.2	28.3	28.8	28.8	29.3	29.8
12H	25.7	26.2	26.2	26.7	27.2	28.5	28.9	29.0	29.4	30.0
X=12H Y=4H	25.3	25.9	25.7	26.4	26.9	27.5	28.1	27.9	28.6	29.1
6H	25.6	26.2	26.1	26.6	27.1	28.1	28.6	28.6	29.1	29.6
8H	25.7	26.2	26.3	26.7	27.2	28.3	28.8	28.8	29.3	29.8
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/-0.7				
S=2.0H	+0.7/-1.4					+1.3/-1.4				

Calculate in accordance with CIE Pub.117. The table is revised with 13315lm ($8\log(F/F_0) = 9.0$).

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	0.86	0.92	0.95	1.00	1.03	
	0.30		0.48	0.59	0.66	0.72	0.80	0.86	0.90	0.95	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	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.95	0.98	
	0.30		0.47	0.58	0.65	0.70	0.78	0.83	0.87	0.92	0.95	
	0.20		0.42	0.52	0.60	0.65	0.73	0.79	0.83	0.89	0.92	
0.30	0.50	0.20	0.53	0.62	0.69	0.73	0.80	0.84	0.87	0.91	0.94	
	0.30		0.47	0.56	0.63	0.68	0.76	0.80	0.84	0.89	0.92	
	0.20		0.42	0.52	0.59	0.64	0.72	0.77	0.81	0.86	0.89	
0.00	0.00	0.00	0.40	0.49	0.56	0.61	0.68	0.73	0.77	0.81	0.84	
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	0.99	0.82	0.70	0.61	0.49	0.41	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	0.49	0.40	0.34	0.30	0.24	0.20	
0.50	0.50	0.20	0.96	0.79	0.67	0.58	0.47	0.42	0.33	0.26	0.21	
	0.30		0.81	0.68	0.59	0.52	0.43	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	0.58	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	0.31	0.26	0.22	0.17	0.14	
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	0.18	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	0.18	0.18	0.20	0.21
	0.20		0.06	0.08	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	0.20	0.21	0.21	0.21	0.22	0.22
	0.30		0.11	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	0.17	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	0.18	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											