

Report No.: 1

Test Time: 13.02.2019 15:49

Luminaire Property

Luminaire Manufacturer: FAROS

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

Lamp Description: LED

Number of Lamps: 1

Luminous Length (mm): 1545

Luminous Width (mm): 55

Luminous Height (mm): 90

Voltage: 221.7 V

Current: 0.899 A

Power: 197.91 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Measurement Flux: 27358.7 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 27358.7 lm

Efficiency: 100%

Upward Ratio: 1%

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

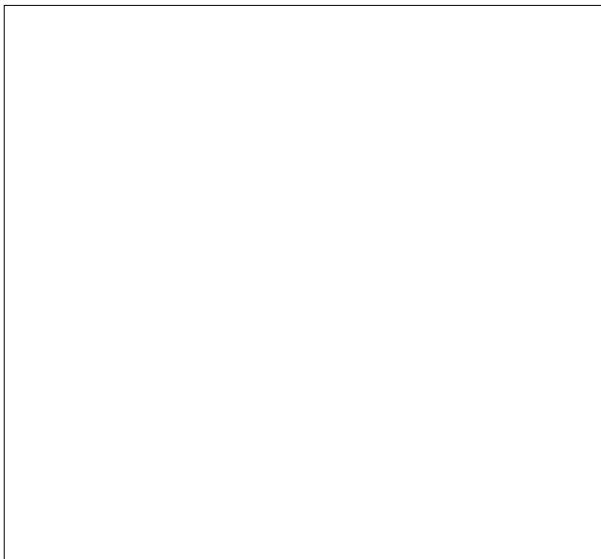
Max. Intensity: 9176.67 cd

Pos of Max. Intensity: H90 V10

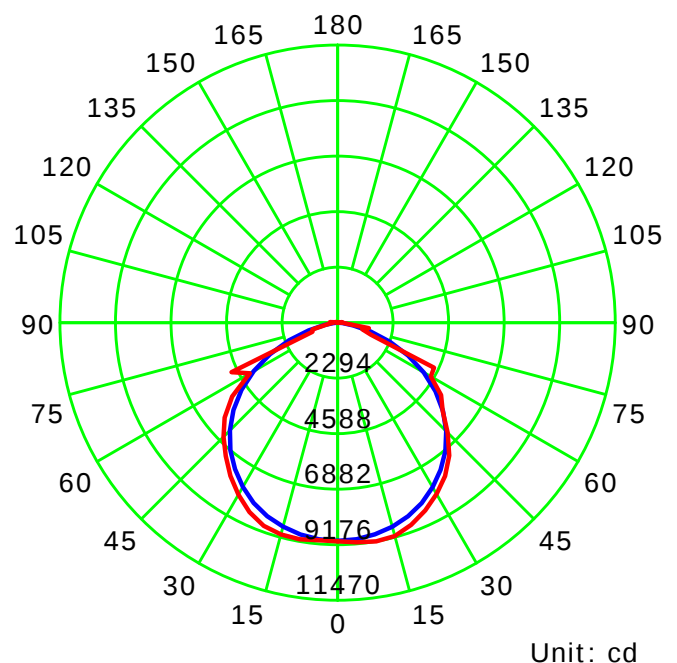
S/MH(C0/C180): 1.29

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

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

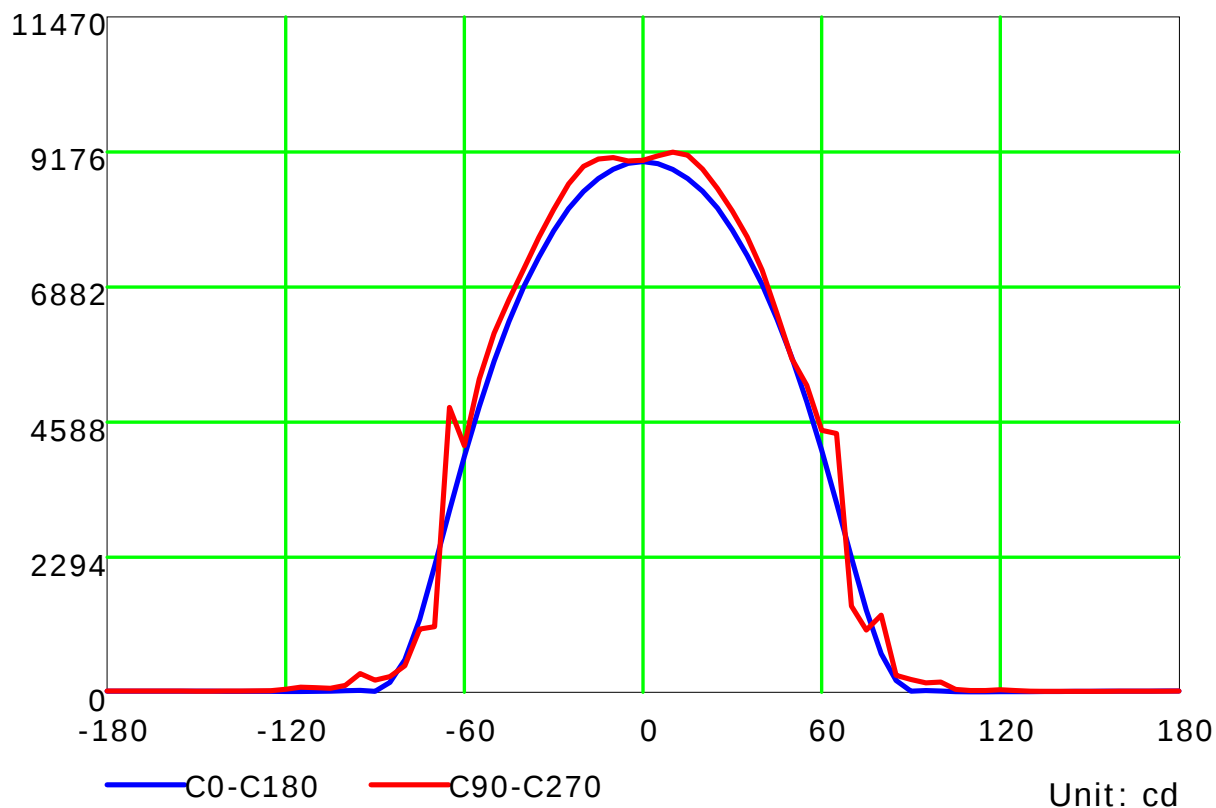
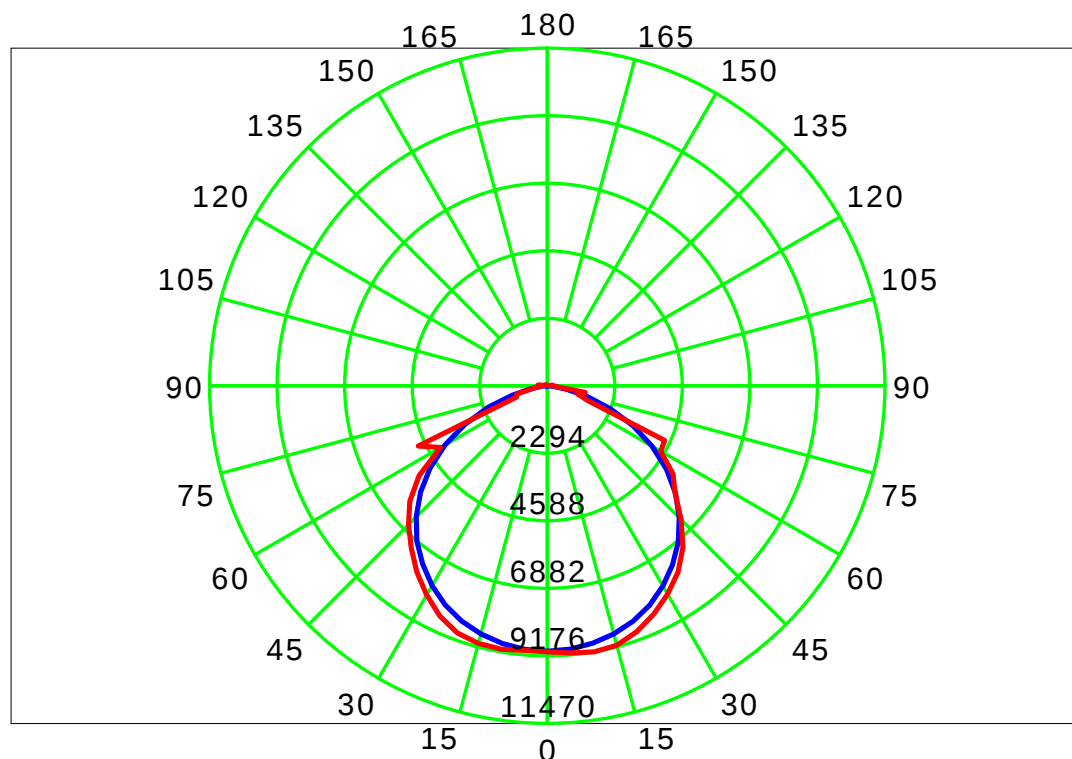
Test Device: LSG-1800B

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

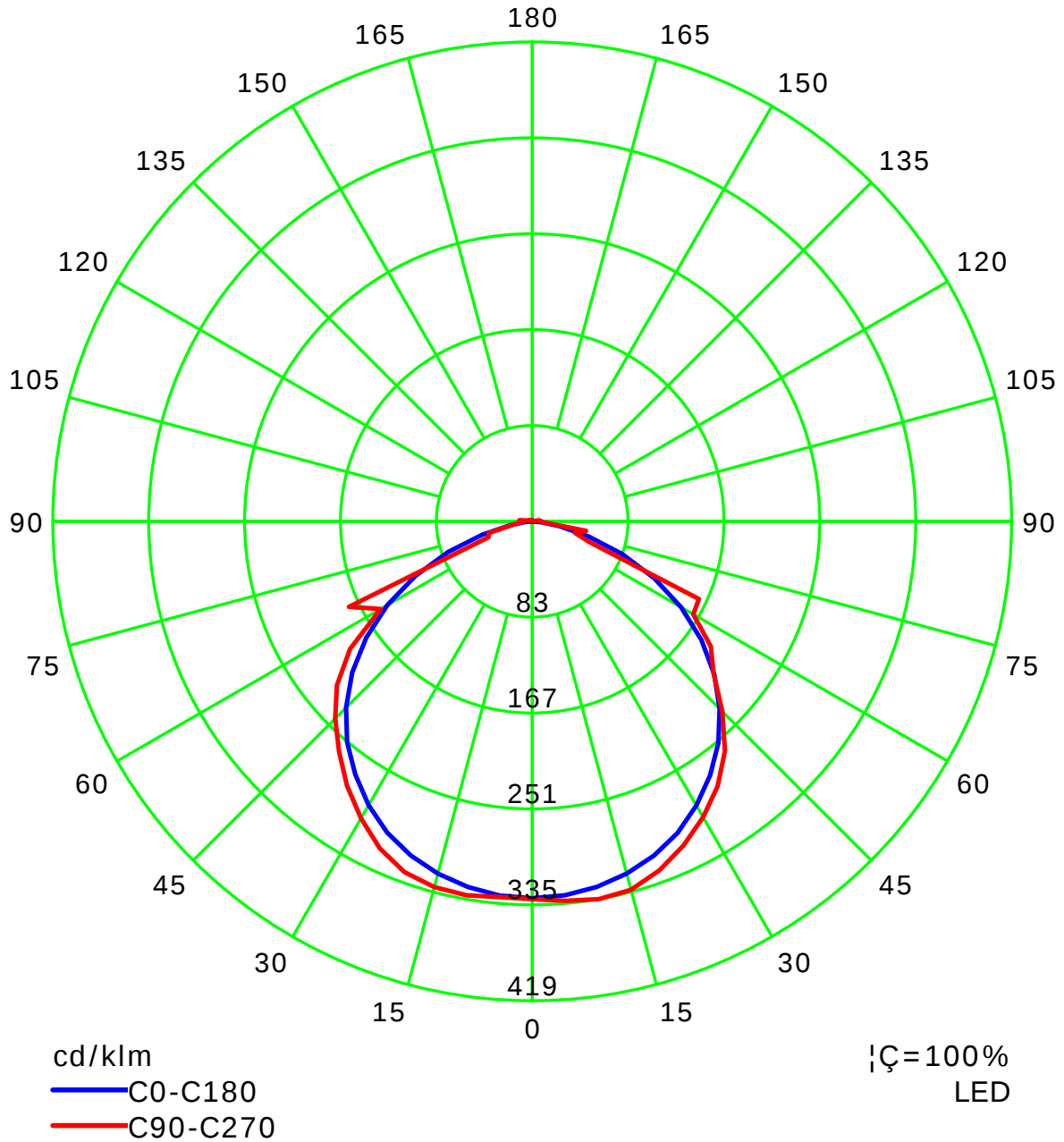
Test Device: LSG-1800B

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

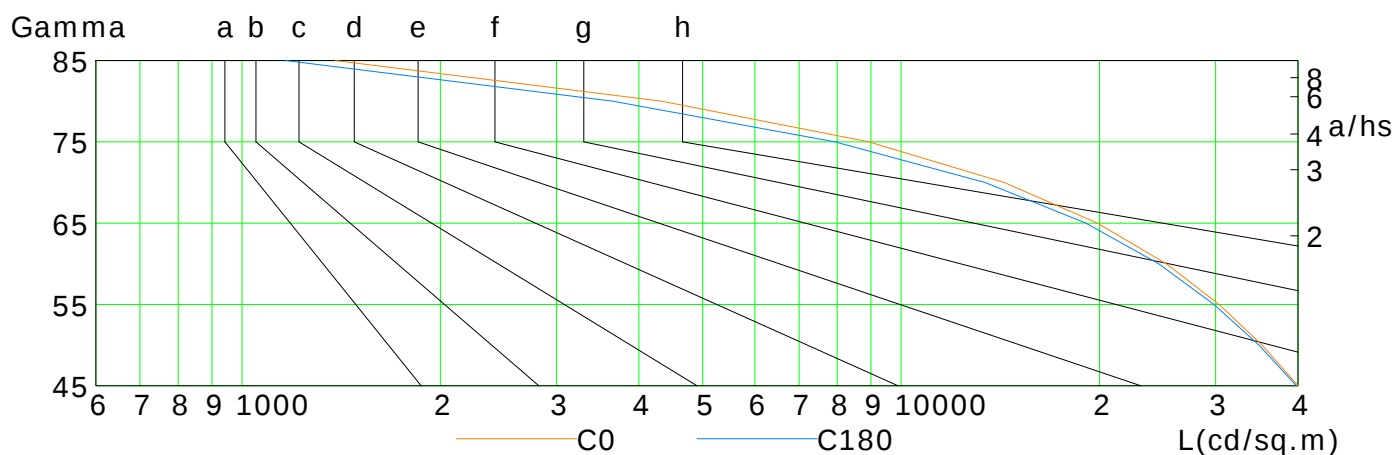
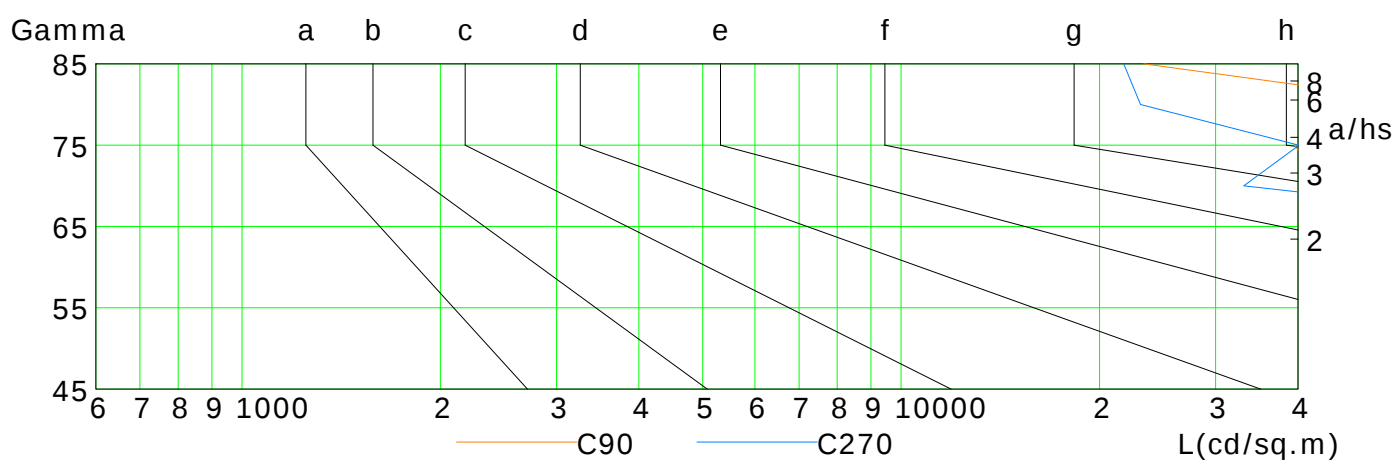
Humidity:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	40031	35281	30367	25248	19860	14338	8935	4336	1387
C90	101144	97003	98784	95148	108866	43501	39541	66759	23355
C180	39778	34902	29833	24592	19068	13411	7935	3653	1165
C270	104909	104453	100795	89606	119823	33095	40154	23077	21762

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

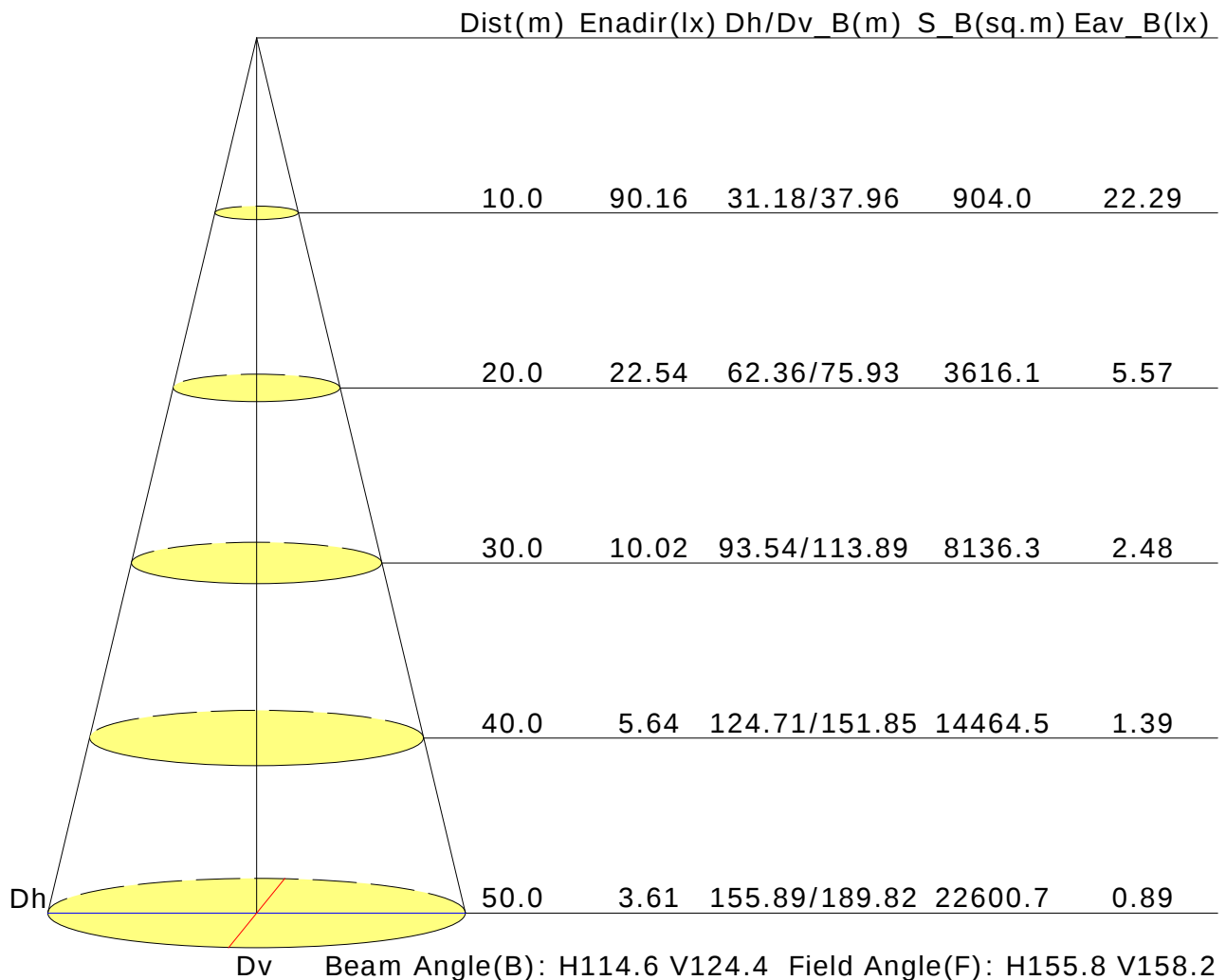
Test Device: LSG-1800B

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	24.9	26.2	25.2	26.5	26.7	27.1	28.5	27.4	28.7	29.0
3H	25.7	26.9	26.0	27.2	27.5	28.4	29.7	28.8	29.9	30.2
4H	25.9	27.1	26.3	27.4	27.7	28.6	29.7	28.9	30.1	30.4
6H	26.0	27.0	26.3	27.4	27.7	28.8	29.8	29.1	30.2	30.5
8H	25.9	27.0	26.3	27.3	27.7	28.8	29.9	29.2	30.2	30.6
12H	25.9	26.9	26.3	27.3	27.6	28.9	29.9	29.2	30.2	30.6
X=4H Y=2H	25.5	26.7	25.9	27.0	27.3	27.4	28.5	27.7	28.8	29.1
3H	26.5	27.5	26.9	27.8	28.2	28.8	29.8	29.2	30.1	30.5
4H	26.7	27.6	27.2	28.0	28.4	29.0	29.9	29.4	30.2	30.6
6H	26.9	27.7	27.3	28.1	28.5	29.2	30.0	29.6	30.4	30.8
8H	26.9	27.6	27.3	28.0	28.5	29.3	30.0	29.7	30.4	30.9
12H	26.9	27.5	27.3	28.0	28.4	29.3	30.0	29.8	30.4	30.9
X=8H Y=4H	26.8	27.5	27.3	28.0	28.4	29.0	29.7	29.4	30.1	30.5
6H	27.0	27.6	27.5	28.1	28.6	29.2	29.8	29.7	30.2	30.7
8H	27.1	27.6	27.6	28.1	28.6	29.3	29.8	29.8	30.3	30.8
12H	27.1	27.5	27.6	28.0	28.5	29.4	29.8	29.9	30.3	30.8
X=12H Y=4H	26.8	27.5	27.3	27.9	28.4	28.9	29.6	29.4	30.0	30.5
6H	27.0	27.5	27.5	28.0	28.5	29.2	29.7	29.7	30.2	30.7
8H	27.1	27.5	27.6	28.0	28.5	29.3	29.8	29.8	30.2	30.8
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.5/-0.2				
S=1.5H	+0.5/-1.0					+1.2/-0.8				
S=2.0H	+1.0/-2.0					+2.1/-1.4				

Calculate in accordance with CIE Pub.117. The table is revised with 27359lm ($8\log(F/F_0) = 11.5$).

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	0.79	0.83	0.86	0.91	0.93	
	0.20		0.47	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	0.55	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												