

Report No.: 1

Test Time: 12.02.2019 15:52

Luminaire Property

Luminaire Manufacturer: FAROS

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

Lamp Description: LED

Number of Lamps: 1

Luminous Length (mm): 1545

Luminous Width (mm): 55

Luminous Height (mm): 909

Voltage: 221.6 V

Current: 0.687 A

Power: 151.02 W

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 21756.3 lm

Measurement Flux: 21756.3 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.3, 160.0, 151.2, 152.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 118.2, 124.9, 115.4, 115.6

Luminaire Efficacy Rating (LER): 144.11

Central Intensity: 7438.54 cd

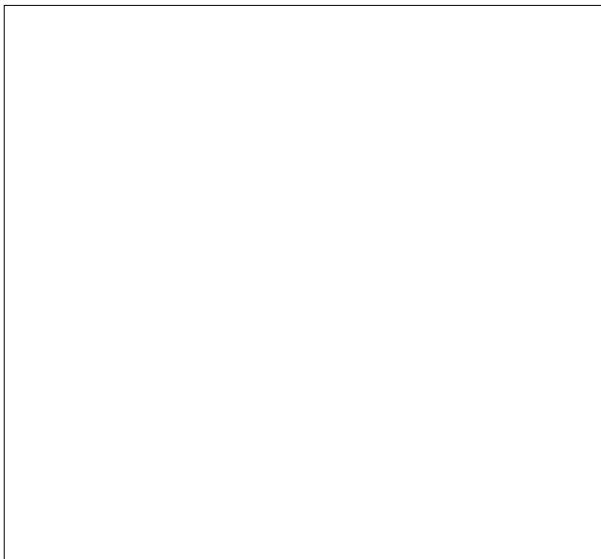
Max. Intensity: 7438.55 cd

Pos of Max. Intensity: H0 V0

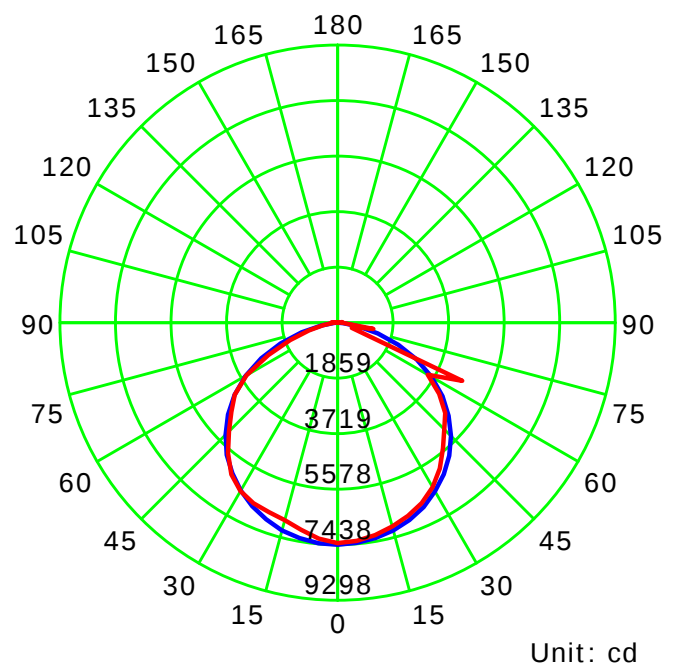
S/MH(C0/C180): 1.30

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

Gamma Plane (°):0.0-180.0:5.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.654 m

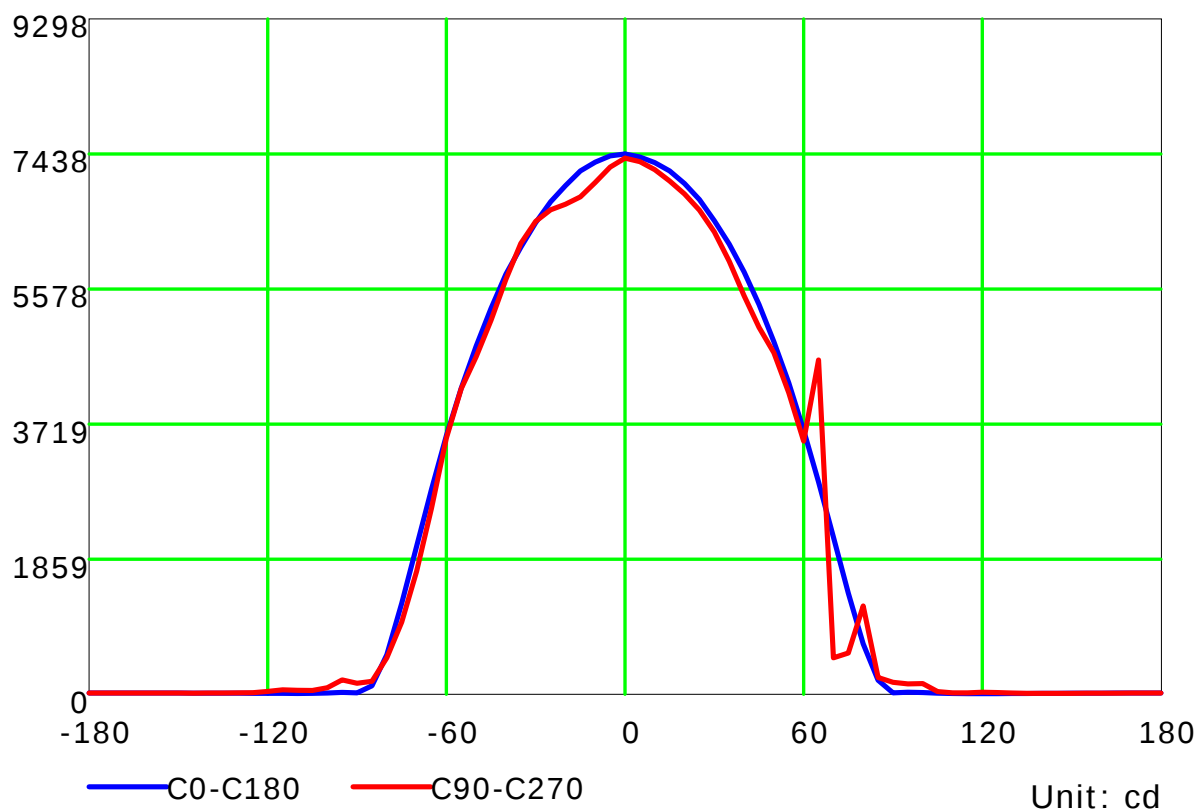
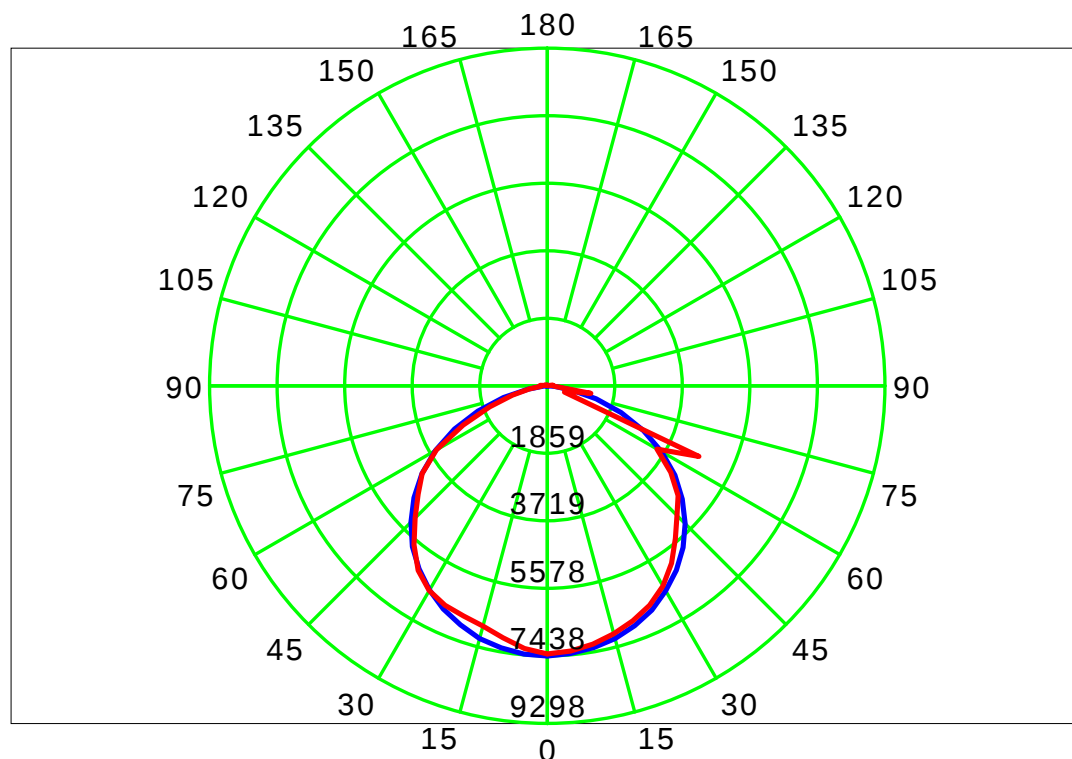
Temperature:

Humidity:

Operator:

Inspector:

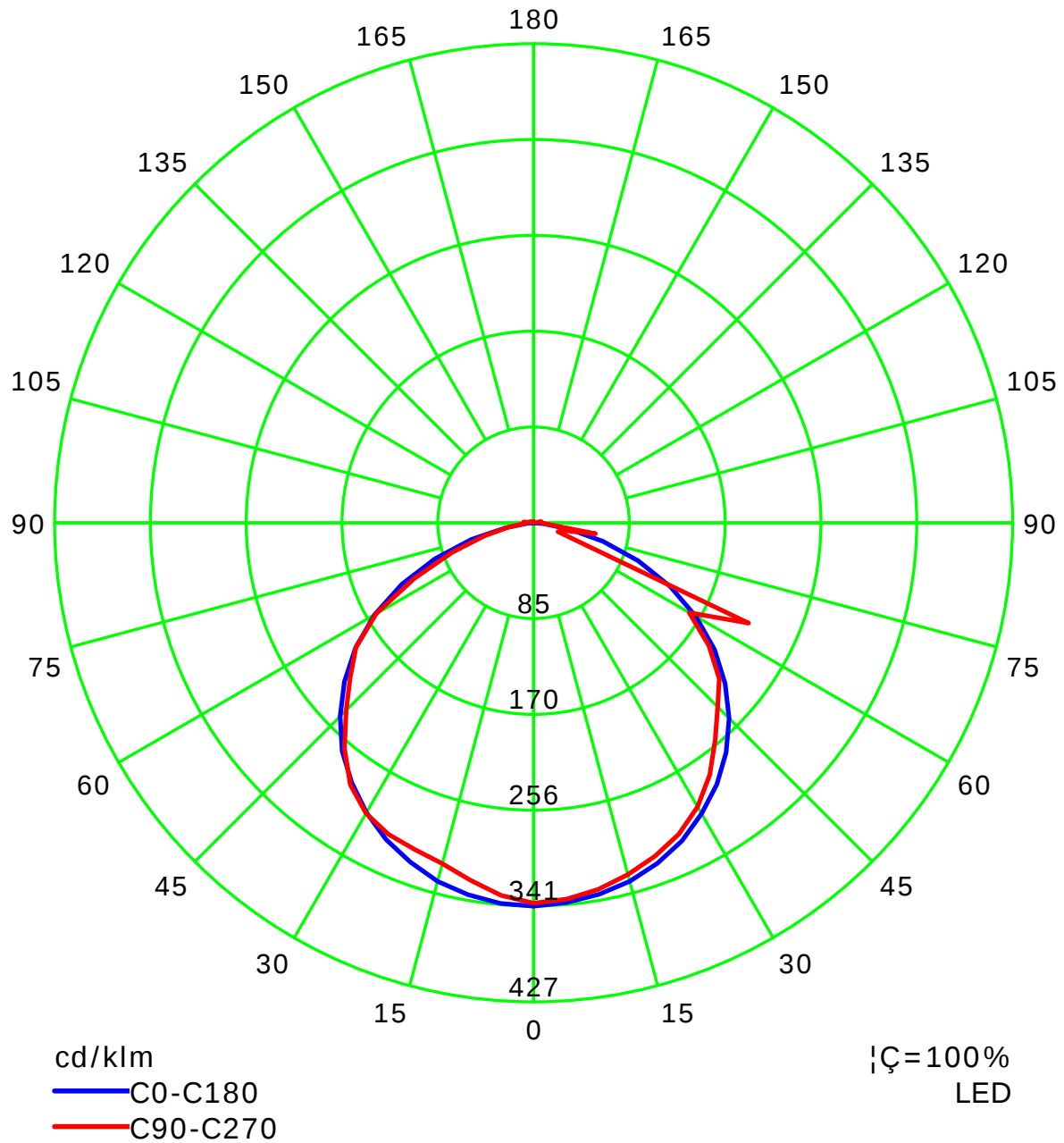
Luminous Intensity Distribution Curve



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

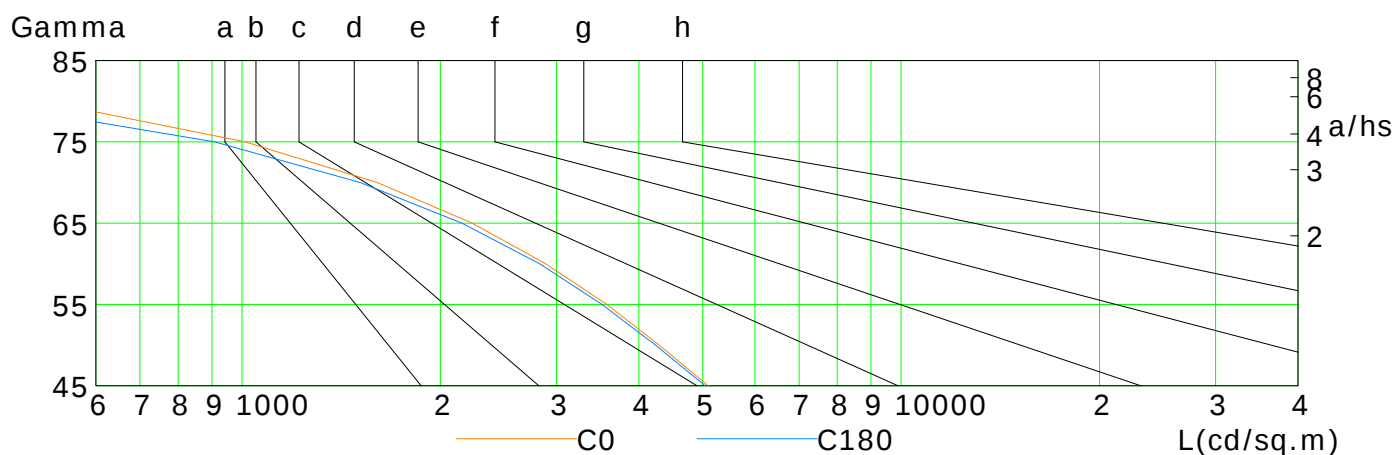
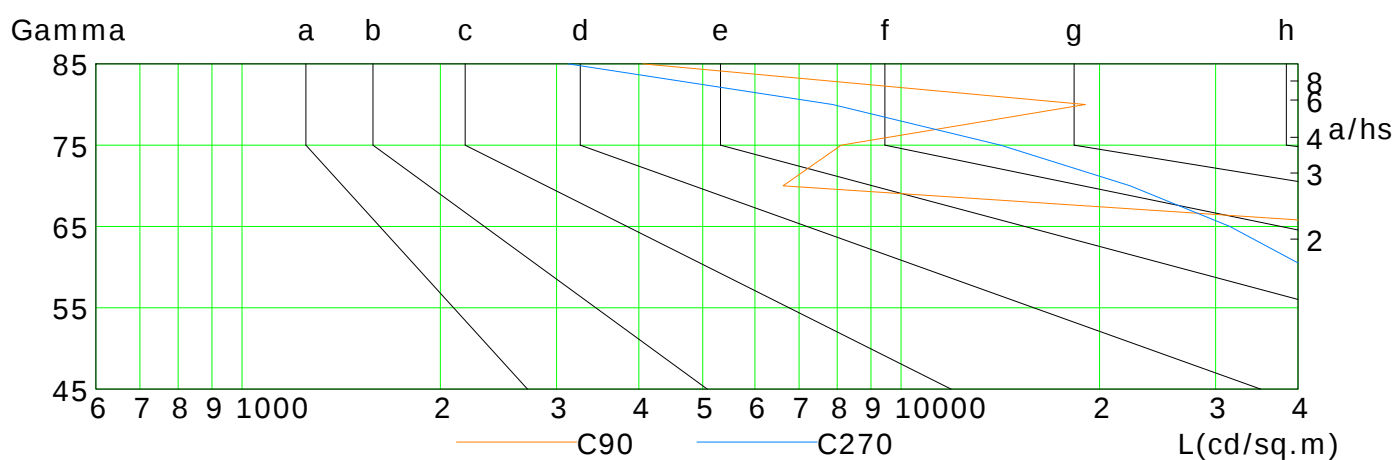
Humidity:

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	5098	4294	3577	2888	2235	1604	1011	498	139
C90	52944	50619	46296	40652	56696	6620	8110	19027	4058
C180	5045	4240	3517	2829	2156	1511	909	390	84
C270	53957	50019	46940	41137	31538	22255	14155	7867	3125

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

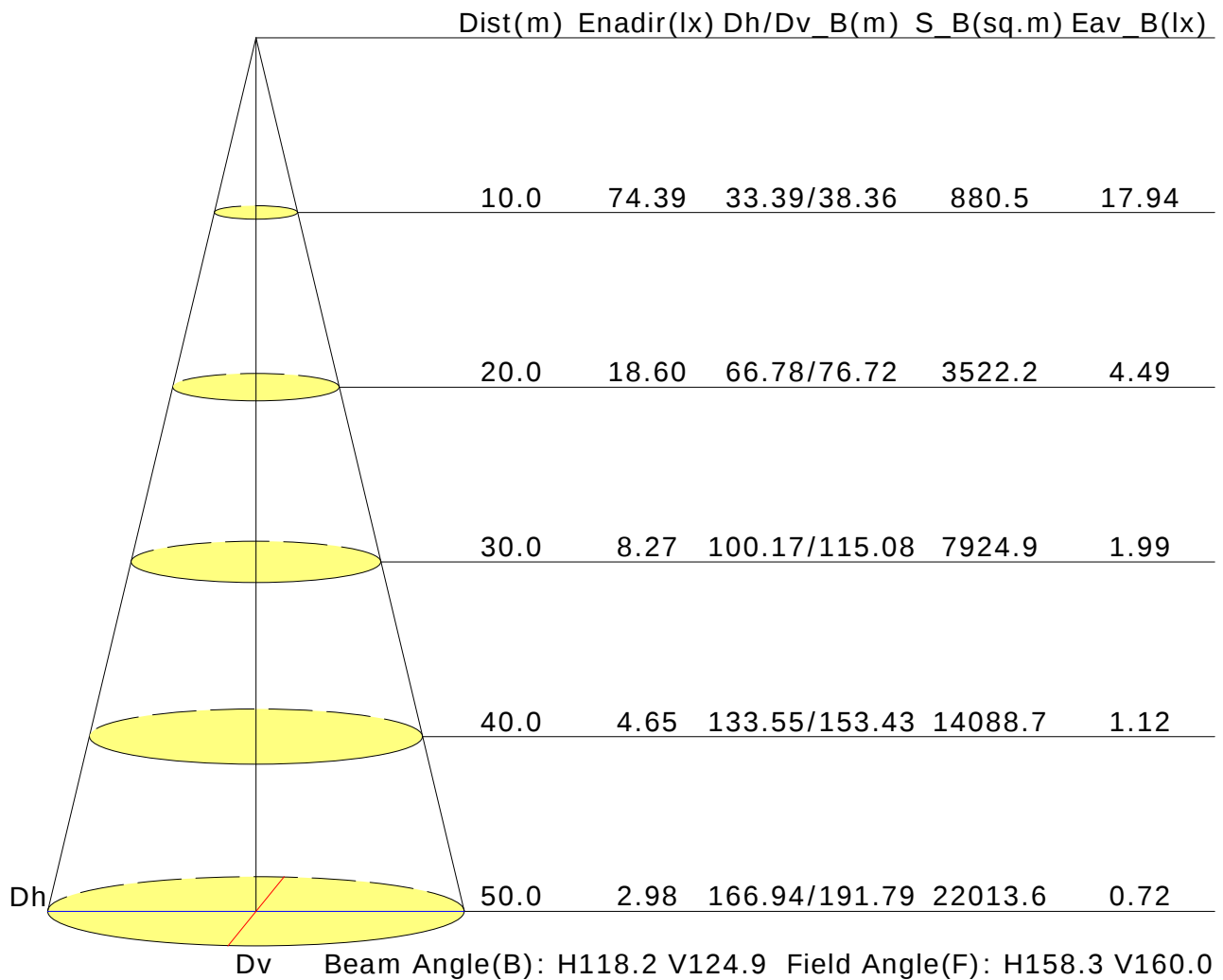
Test Device: LSG-1800B

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	17.4	18.8	17.7	19.0	19.3	21.4	22.8	21.7	23.0	23.3
3H	18.2	19.4	18.5	19.7	20.0	22.8	24.0	23.1	24.3	24.6
4H	18.4	19.6	18.8	19.9	20.2	22.9	24.1	23.3	24.4	24.7
6H	18.5	19.6	18.8	19.9	20.2	23.1	24.2	23.5	24.5	24.9
8H	18.5	19.5	18.8	19.9	20.2	23.2	24.2	23.6	24.6	24.9
12H	18.4	19.4	18.8	19.8	20.2	23.2	24.2	23.6	24.5	24.9
X=4H Y=2H	18.0	19.2	18.4	19.5	19.8	21.5	22.6	21.8	22.9	23.3
3H	18.9	19.9	19.3	20.3	20.6	22.9	23.9	23.3	24.3	24.6
4H	19.2	20.1	19.6	20.5	20.9	23.1	24.0	23.5	24.4	24.8
6H	19.3	20.1	19.8	20.5	20.9	23.3	24.1	23.7	24.5	24.9
8H	19.3	20.1	19.8	20.5	20.9	23.4	24.1	23.9	24.6	25.0
12H	19.3	20.0	19.8	20.4	20.9	23.4	24.1	23.9	24.5	25.0
X=8H Y=4H	19.3	20.0	19.8	20.4	20.9	23.0	23.8	23.5	24.2	24.6
6H	19.5	20.1	20.0	20.5	21.0	23.3	23.9	23.8	24.3	24.8
8H	19.5	20.0	20.0	20.5	21.0	23.4	23.9	23.9	24.4	24.9
12H	19.5	19.9	20.0	20.4	21.0	23.4	23.9	23.9	24.4	24.9
X=12H Y=4H	19.3	19.9	19.7	20.4	20.8	23.0	23.7	23.5	24.1	24.6
6H	19.5	20.0	20.0	20.5	21.0	23.2	23.8	23.7	24.2	24.7
8H	19.5	19.9	20.0	20.4	21.0	23.4	23.8	23.9	24.3	24.8
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.6/-0.7				
S=1.5H	+0.5/-1.0					+1.5/-1.5				
S=2.0H	+1.0/-2.1					+2.6/-2.1				

Calculate in accordance with CIE Pub.117. The table is revised with 21756lm ($8\log(F/F_0) = 10.7$).

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	0.66	0.74	0.80	0.87	0.92	0.96	1.00	1.03	
	0.30		0.48	0.59	0.67	0.73	0.81	0.87	0.91	0.96	1.00	
	0.20		0.42	0.53	0.61	0.67	0.76	0.82	0.87	0.93	0.97	
0.50	0.50	0.20	0.54	0.64	0.71	0.77	0.84	0.89	0.92	0.96	0.99	
	0.30		0.47	0.57	0.65	0.71	0.79	0.84	0.88	0.93	0.96	
	0.20		0.42	0.52	0.60	0.66	0.74	0.80	0.84	0.90	0.93	
0.30	0.50	0.20	0.53	0.62	0.69	0.74	0.81	0.85	0.88	0.92	0.95	
	0.30		0.46	0.56	0.64	0.69	0.76	0.81	0.85	0.90	0.92	
	0.20		0.41	0.52	0.59	0.65	0.73	0.78	0.82	0.87	0.90	
0.00	0.00	0.00	0.39	0.49	0.56	0.62	0.69	0.74	0.78	0.83	0.85	
Rating:151W 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	0.48	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		0.71	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	0.58	0.45	0.41	0.32	0.24	0.20	
	0.30		0.81	0.68	0.59	0.52	0.41	0.35	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	0.36	0.30	0.23	0.19	
	0.30		0.80	0.67	0.57	0.50	0.40	0.33	0.29	0.22	0.18	
	0.20		0.70	0.59	0.52	0.46	0.37	0.31	0.27	0.21	0.18	
0.00	0.00	0.00	0.60	0.50	0.42	0.37	0.30	0.24	0.21	0.16	0.13	
Rating:151W 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	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	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	0.20	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.19	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	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		0.05	0.07	0.08	0.10	0.11	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:151W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												