

Report No.: 1

Test Time: 26.02.2020 11:25

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 36LED 600W 5000K 30gr.

Number of Lamps: 1

Luminous Width (mm): 345

Voltage: 229.3 V

Power: 598.54 W

Luminous Length (mm): 345

Luminous Height (mm): 695

Current: 2.655 A

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 86862.1 lm

Downward Ratio: 95%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 60.2, 59.8, 63.1, 63.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 31.6, 29.9, 31.9, 31.7

Luminaire Efficacy Rating (LER): 145.17

Max. Intensity: 186585.11 cd

S/MH(C0/C180): 0.52

Total Rated Lamp Lumens: 86862.1 lm

Efficiency: 100%

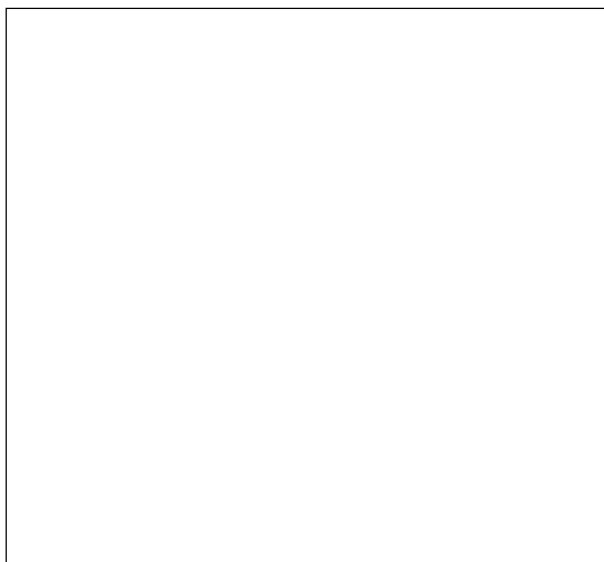
Upward Ratio: 5%

Central Intensity: 180005.45 cd

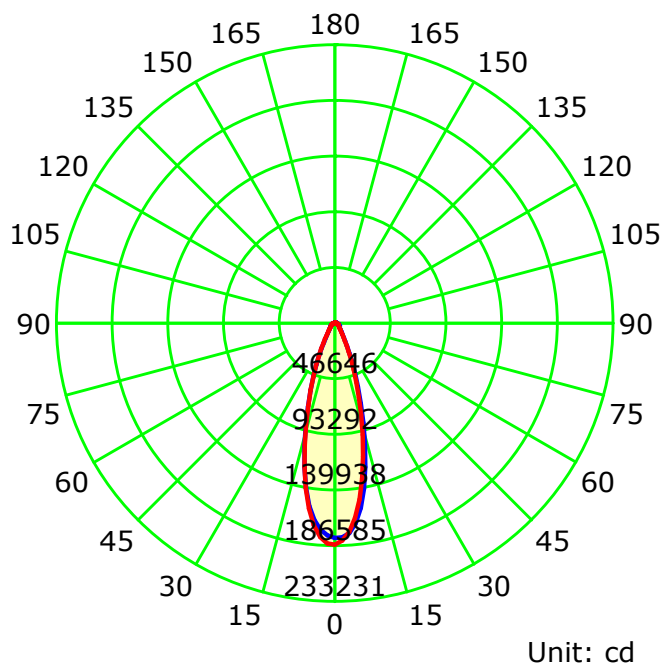
Pos of Max. Intensity: H135 V0

S/MH(C90/C270): 0.50

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 (°):0.0-180.0:2.0

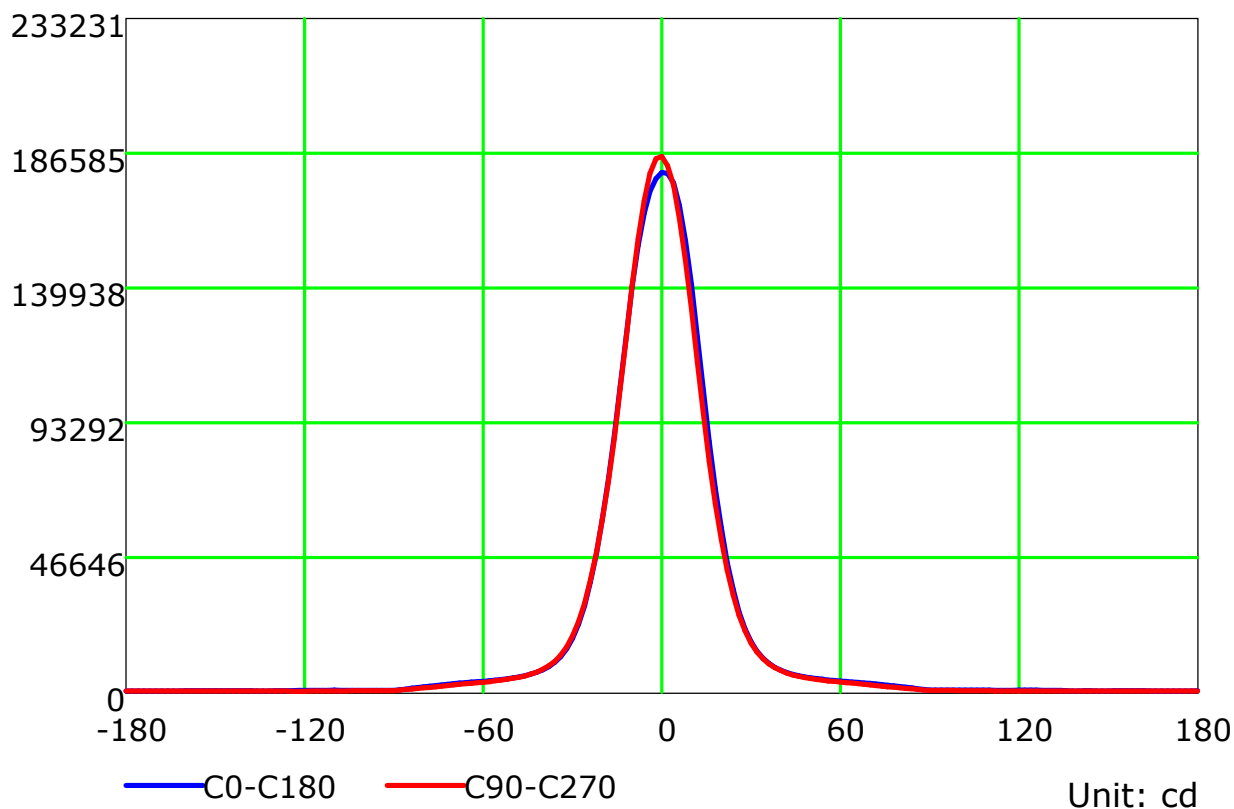
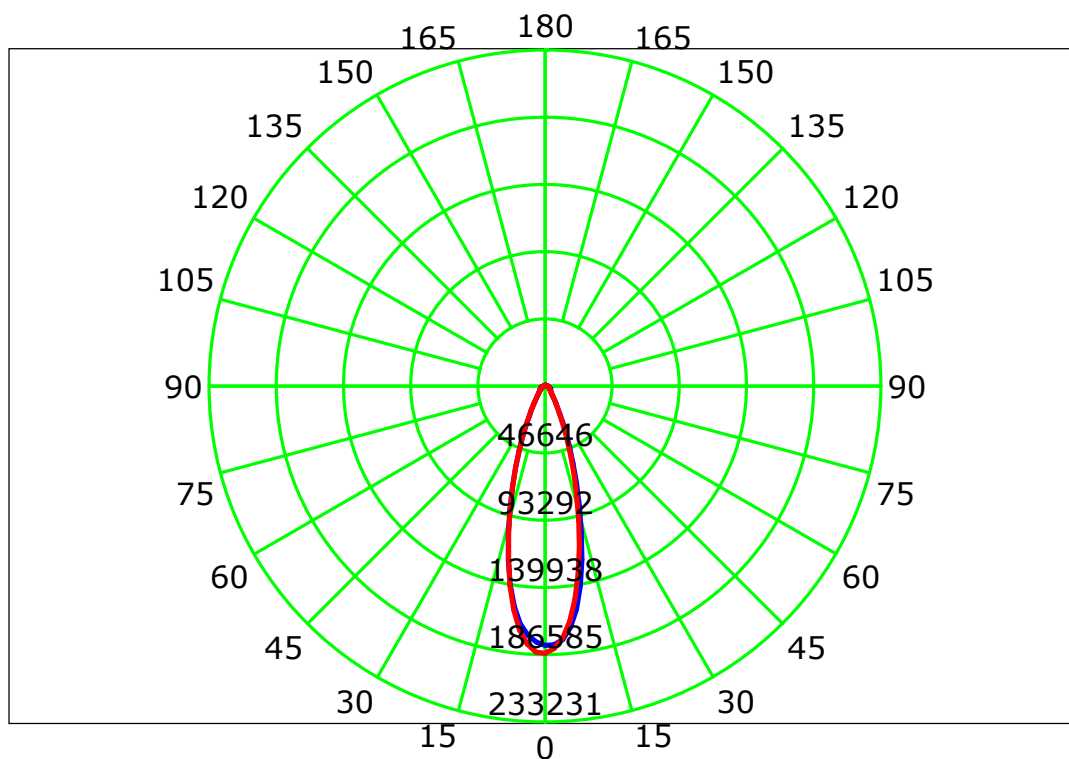
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



Unit: cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

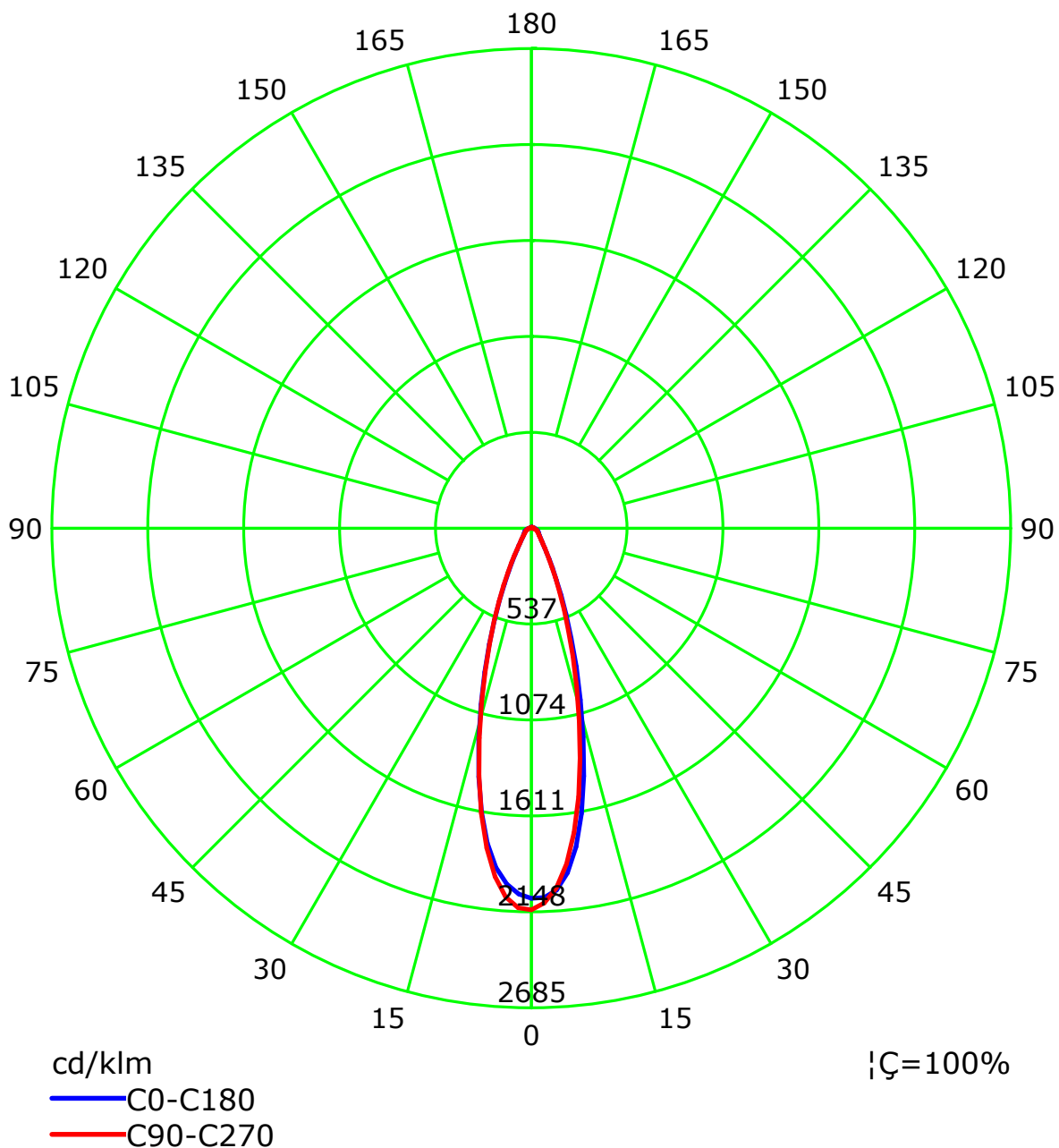
Test Device: LSG-1800B

Distance: 12.677 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 (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.677 m

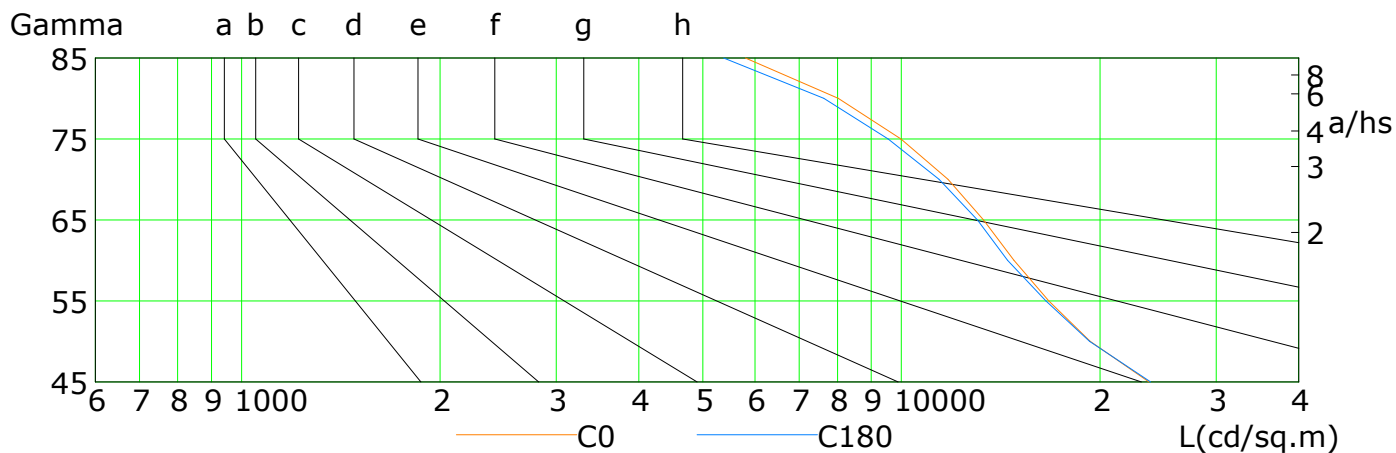
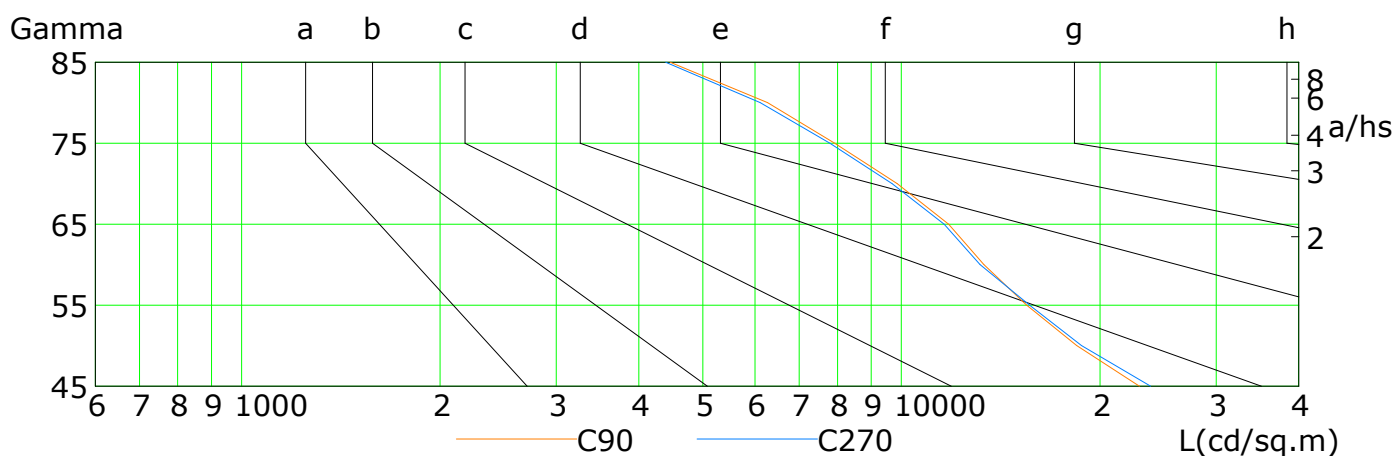
Humidity:

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	23730	19330	16721	14817	13321	11766	9989	8018	5805
C90	22937	18443	15492	13333	11796	9853	7926	6267	4463
C180	23858	19285	16554	14484	13034	11410	9549	7627	5377
C270	23858	18739	15648	13156	11608	9675	7791	6106	4392

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

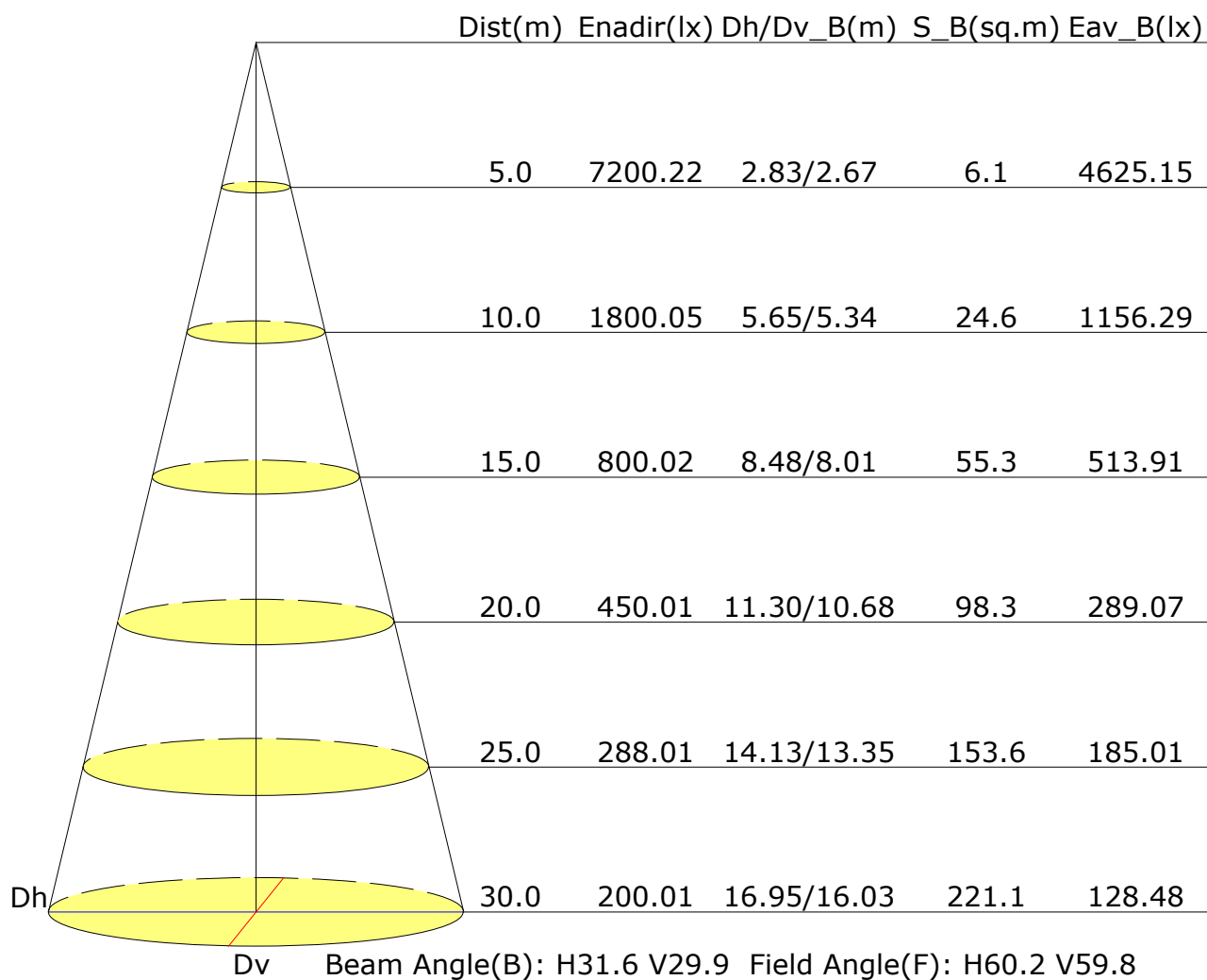
Test Device: LSG-1800B

Distance: 12.677 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	18.3	19.2	18.6	19.5	19.8	18.1	19.0	18.4	19.3	19.6
3H	19.6	20.4	20.0	20.8	21.1	19.2	20.0	19.6	20.3	20.7
4H	20.3	21.0	20.7	21.4	21.7	19.7	20.4	20.1	20.8	21.1
6H	20.8	21.5	21.2	21.9	22.3	20.1	20.8	20.5	21.1	21.5
8H	21.0	21.7	21.4	22.1	22.5	20.2	20.9	20.6	21.3	21.7
12H	21.2	21.8	21.6	22.2	22.6	20.3	21.0	20.8	21.4	21.8
X=4H Y=2H	18.7	19.4	19.1	19.8	20.2	18.5	19.3	18.9	19.6	20.0
3H	20.2	20.9	20.6	21.3	21.7	19.8	20.5	20.3	20.9	21.3
4H	21.0	21.6	21.4	22.0	22.4	20.4	21.0	20.9	21.4	21.9
6H	21.6	22.2	22.1	22.6	23.1	21.0	21.5	21.4	21.9	22.4
8H	21.9	22.4	22.4	22.9	23.4	21.2	21.6	21.7	22.1	22.6
12H	22.1	22.6	22.7	23.1	23.6	21.3	21.8	21.8	22.3	22.8
X=8H Y=4H	21.2	21.7	21.7	22.1	22.6	20.7	21.2	21.2	21.6	22.1
6H	22.0	22.4	22.5	22.9	23.4	21.3	21.7	21.9	22.3	22.8
8H	22.3	22.7	22.9	23.2	23.8	21.7	22.0	22.2	22.5	23.1
12H	22.7	23.0	23.2	23.5	24.1	21.9	22.2	22.5	22.8	23.4
X=12H Y=4H	21.2	21.6	21.7	22.1	22.6	20.7	21.1	21.2	21.6	22.2
6H	22.0	22.4	22.6	22.9	23.5	21.4	21.8	22.0	22.3	22.9
8H	22.4	22.7	23.0	23.3	23.9	21.8	22.1	22.3	22.6	23.2
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.3					+0.7/-0.4				
S=1.5H	+1.1/-0.6					+1.5/-0.8				
S=2.0H	+1.8/-1.0					+2.5/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 86862lm ($8\log(F/F_0) = 15.5$).

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

Gamma Plane (°):0.0-180.0:2.0
 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.75									
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	0.80	0.86	0.91	0.94	0.98	1.01	1.03	1.06	1.08	
	0.30		0.75	0.81	0.86	0.89	0.94	0.97	1.00	1.03	1.05	
	0.20		0.72	0.78	0.82	0.86	0.91	0.94	0.97	1.01	1.03	
0.50	0.50	0.20	0.79	0.84	0.88	0.91	0.94	0.97	0.99	1.01	1.03	
	0.30		0.74	0.80	0.84	0.87	0.91	0.94	0.96	0.99	1.01	
	0.20		0.71	0.77	0.81	0.84	0.88	0.91	0.94	0.97	0.99	
0.30	0.50	0.20	0.77	0.82	0.85	0.88	0.91	0.93	0.95	0.97	0.98	
	0.30		0.73	0.78	0.82	0.85	0.88	0.91	0.93	0.95	0.97	
	0.20		0.70	0.75	0.79	0.82	0.86	0.89	0.91	0.93	0.95	
0.00	0.00	0.00	0.68	0.73	0.76	0.79	0.82	0.84	0.86	0.88	0.90	
Rating:599W 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 = 0.75									
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	0.64	0.53	0.46	0.40	0.32	0.27	0.23	0.18	0.15	
	0.30		0.53	0.45	0.40	0.35	0.29	0.25	0.22	0.17	0.14	
	0.20		0.45	0.40	0.35	0.32	0.27	0.23	0.20	0.16	0.14	
0.50	0.50	0.20	0.60	0.49	0.42	0.37	0.30	0.29	0.21	0.17	0.14	
	0.30		0.51	0.43	0.37	0.33	0.27	0.23	0.20	0.16	0.13	
	0.20		0.44	0.38	0.34	0.30	0.25	0.21	0.19	0.15	0.13	
0.30	0.50	0.20	0.56	0.46	0.39	0.34	0.27	0.23	0.20	0.15	0.13	
	0.30		0.48	0.41	0.35	0.31	0.25	0.21	0.18	0.15	0.12	
	0.20		0.42	0.36	0.32	0.28	0.24	0.20	0.17	0.14	0.12	
0.00	0.00	0.00	0.28	0.24	0.21	0.18	0.15	0.12	0.11	0.09	0.07	
Rating:599W 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 = 0.75									
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	0.20	0.21	0.22	0.23	0.24	0.24	0.25	0.26	
	0.30		0.14	0.15	0.17	0.18	0.20	0.21	0.22	0.23	0.24	
	0.20		0.10	0.12	0.14	0.15	0.17	0.19	0.20	0.21	0.22	
0.50	0.50	0.20	0.17	0.19	0.20	0.21	0.22	0.23	0.23	0.24	0.25	
	0.30		0.13	0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23	
	0.20		0.10	0.12	0.14	0.15	0.17	0.18	0.19	0.21	0.22	
0.30	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.23	0.24	
	0.30		0.13	0.15	0.16	0.17	0.19	0.20	0.21	0.22	0.22	
	0.20		0.10	0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	
0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
Rating:599W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												