

Report No.: 1

Test Time: 19.02.2020 14:30

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 36 LED 1000W 5000K 20 gr.

Number of Lamps: 1

Luminous Width (mm): 565

Voltage: 220.9 V

Power: 998.80 W

Luminous Length (mm): 345

Luminous Height (mm): 695

Current: 4.623 A

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Measurement Flux: 164622.1 lm

Downward Ratio: 94%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 43.8, 40.3, 42.4, 41.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 19.7, 20.1, 20.4, 19.3

Luminaire Efficacy Rating (LER): 164.87

Max. Intensity: 672389.63 cd

S/MH(C0/C180): 0.34

Total Rated Lamp Lumens: 164622.1 lm

Efficiency: 100%

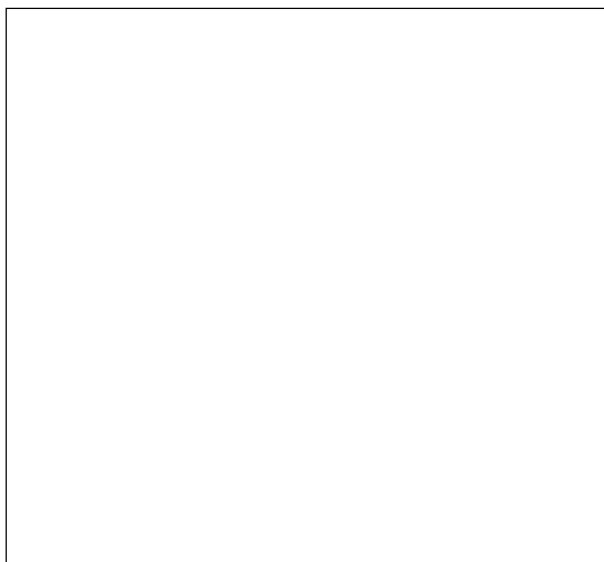
Upward Ratio: 6%

Central Intensity: 656444.69 cd

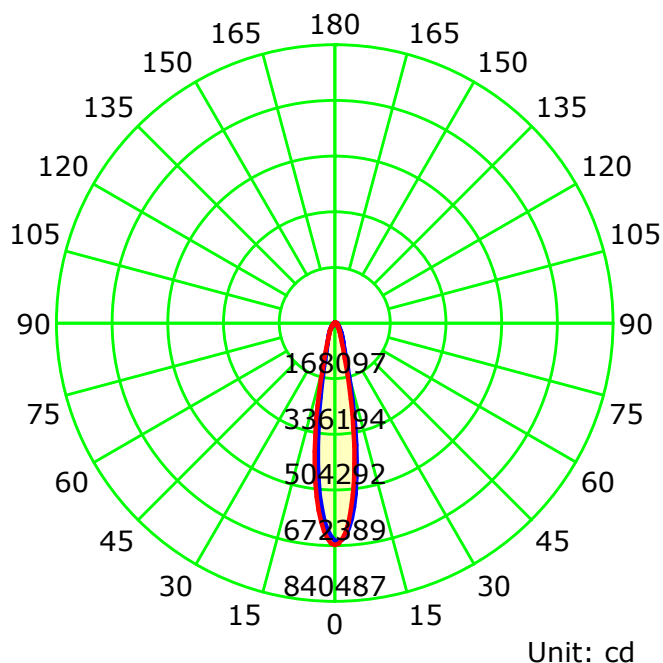
Pos of Max. Intensity: H135 V0

S/MH(C90/C270): 0.34

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 (°):0.0-180.0:1.0

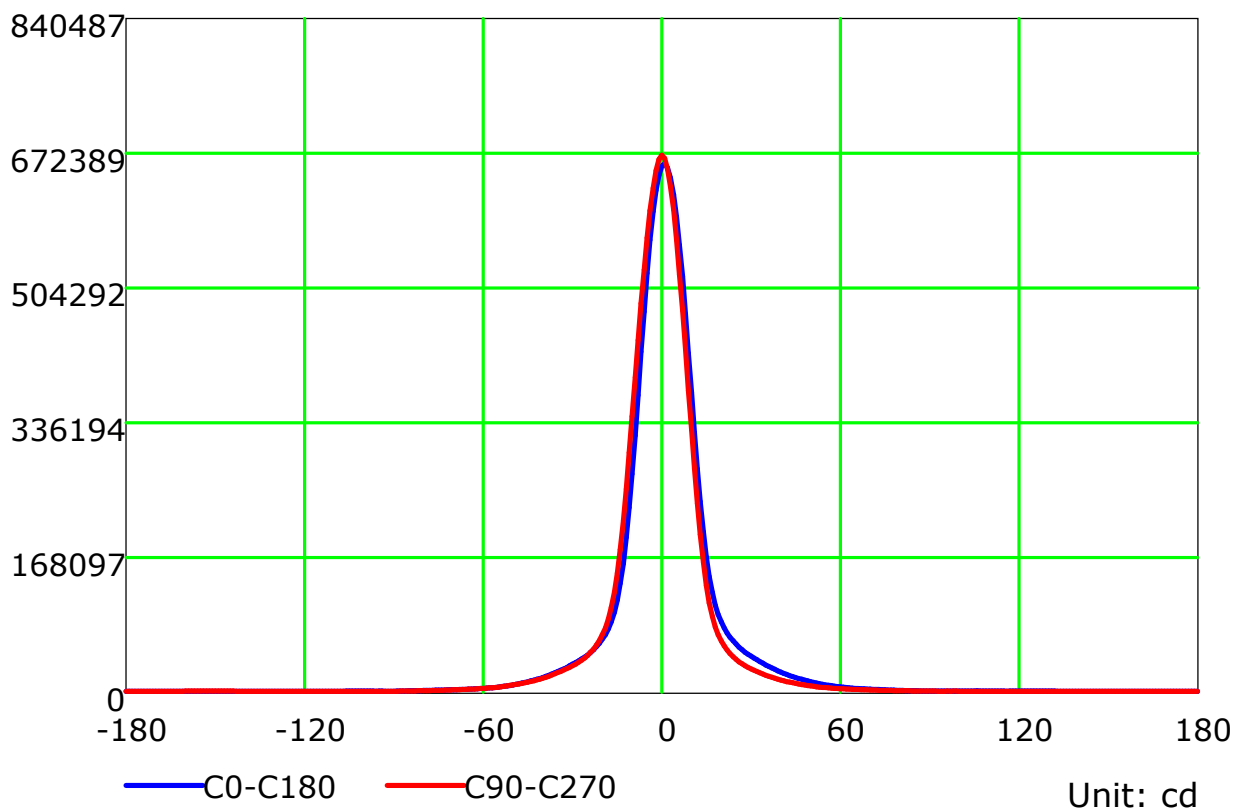
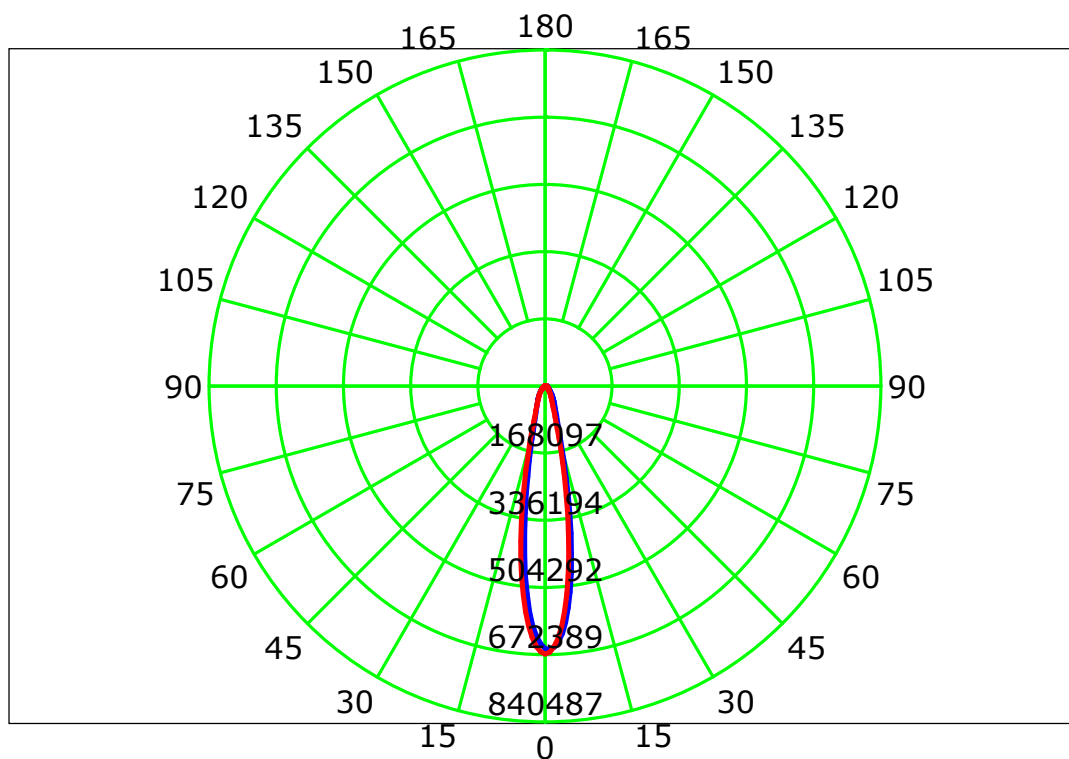
Test Device: LSG-1800B

Distance: 12.677 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 (°):0.0-180.0:1.0

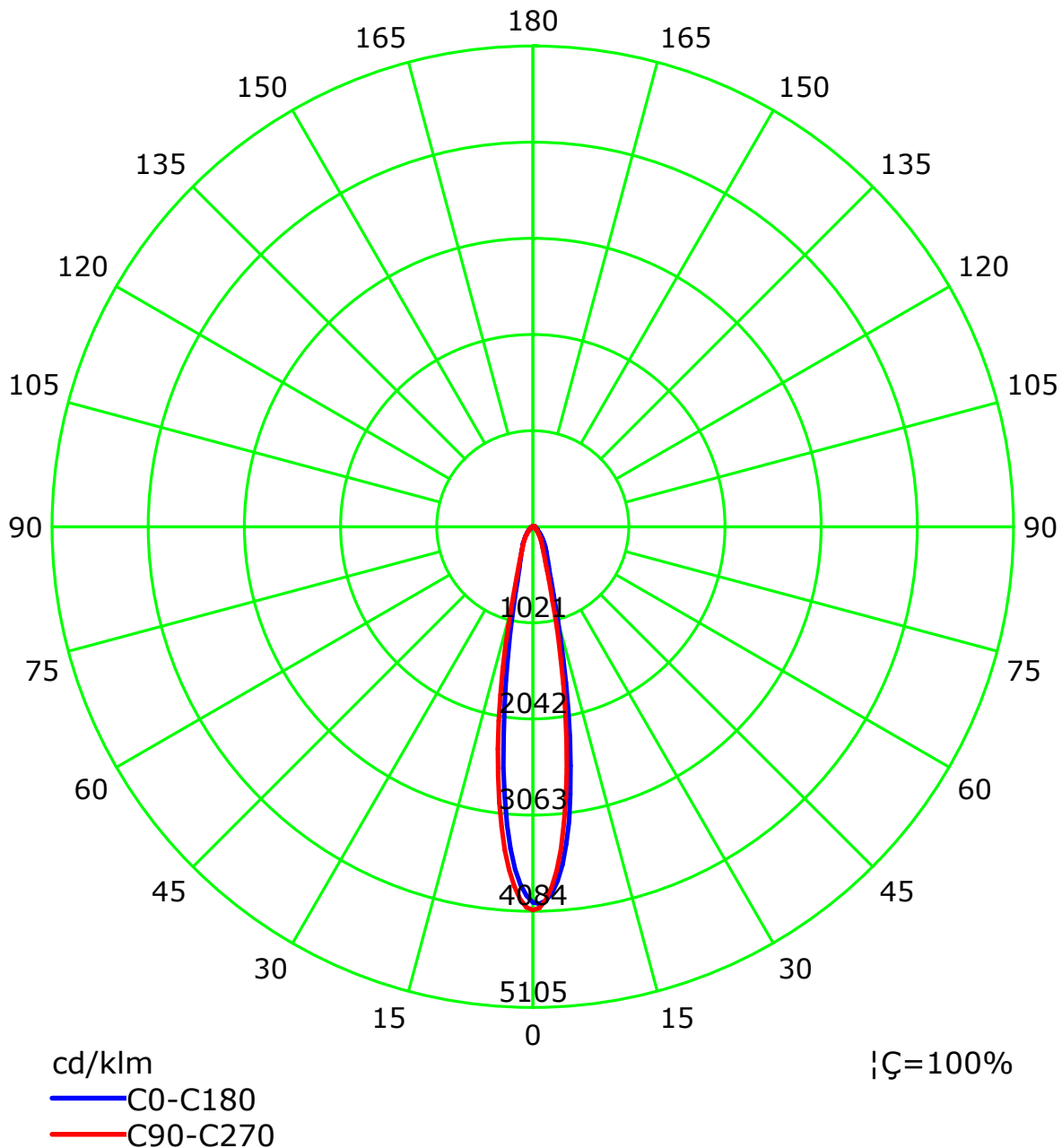
Test Device: LSG-1800B

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 (°):0.0-180.0:1.0

Test Device: LSG-1800B

Distance: 12.677 m

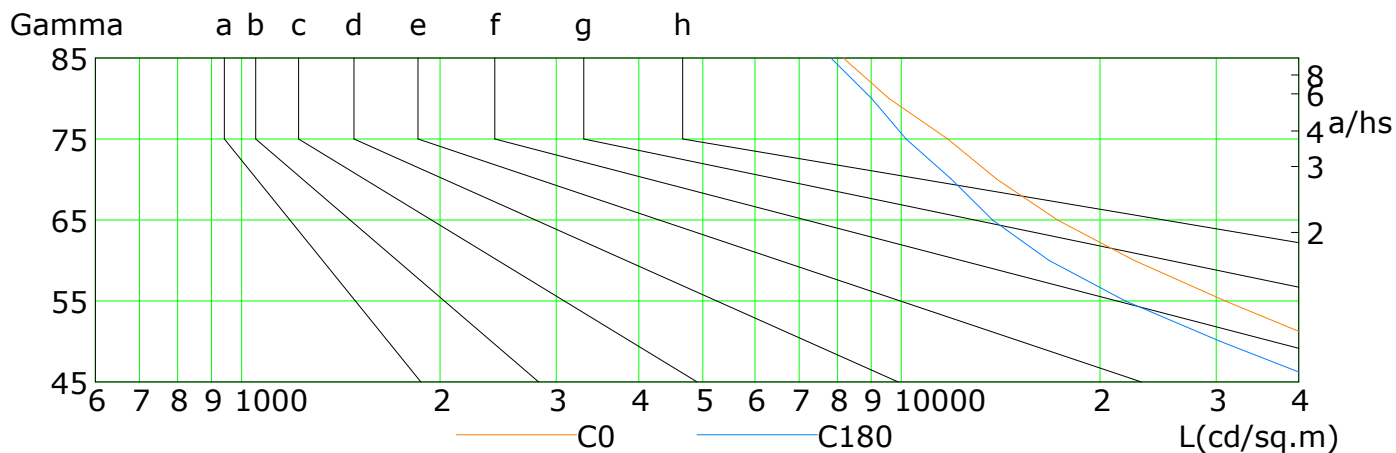
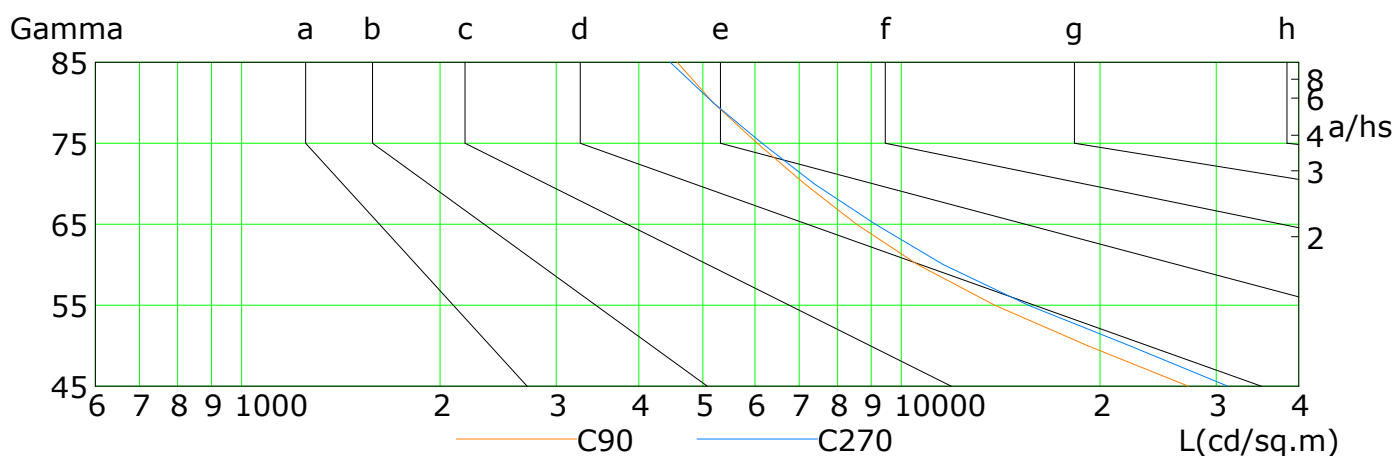
Humidity:

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	60762	43585	30953	22509	17237	13959	11751	9567	8169
C90	27237	19131	13846	10578	8551	7128	6045	5183	4572
C180	43860	30393	21846	16735	13750	11914	10163	9014	7819
C270	31225	22144	15568	11568	9130	7368	6149	5183	4462

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

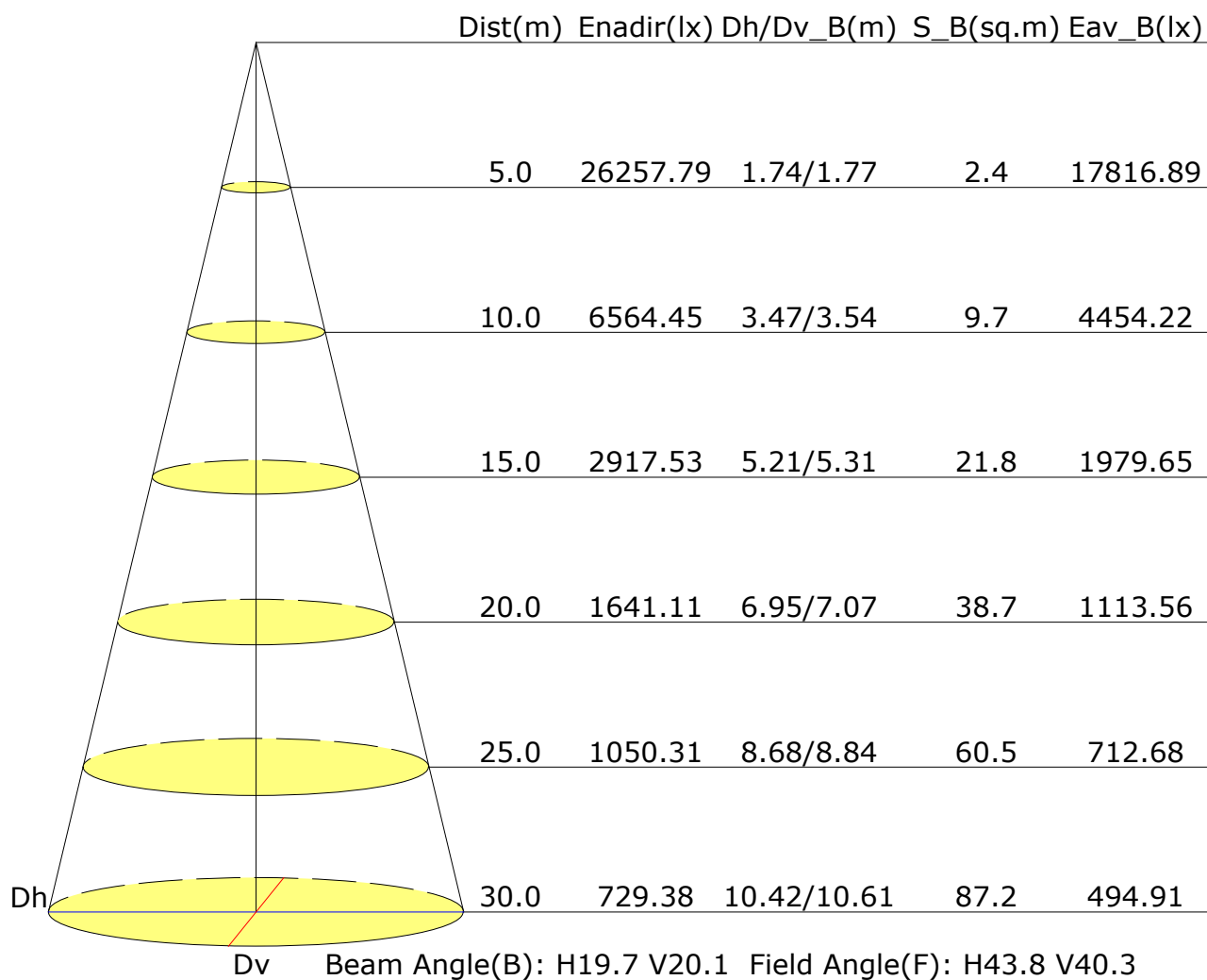
Test Device: LSG-1800B

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	20.9	21.7	21.2	22.0	22.3	18.6	19.4	18.9	19.7	20.0
3H	21.3	22.1	21.7	22.4	22.8	19.0	19.8	19.4	20.1	20.4
4H	21.6	22.3	22.0	22.6	23.0	19.3	19.9	19.7	20.3	20.7
6H	21.8	22.5	22.3	22.9	23.3	19.5	20.1	19.9	20.5	20.9
8H	21.9	22.6	22.4	23.0	23.4	19.6	20.2	20.0	20.6	21.0
12H	22.0	22.6	22.5	23.0	23.5	19.7	20.3	20.2	20.7	21.1
X=4H Y=2H	20.9	21.5	21.3	21.9	22.3	18.8	19.5	19.2	19.8	20.2
3H	21.5	22.1	21.9	22.5	22.9	19.4	20.0	19.9	20.4	20.8
4H	21.8	22.3	22.3	22.8	23.3	19.7	20.3	20.2	20.7	21.2
6H	22.2	22.6	22.7	23.1	23.6	20.1	20.6	20.6	21.0	21.5
8H	22.3	22.8	22.9	23.3	23.8	20.3	20.7	20.8	21.2	21.7
12H	22.5	22.9	23.0	23.4	24.0	20.4	20.8	21.0	21.3	21.9
X=8H Y=4H	21.8	22.3	22.3	22.7	23.3	19.9	20.3	20.4	20.8	21.3
6H	22.3	22.6	22.8	23.1	23.7	20.4	20.7	20.9	21.2	21.8
8H	22.5	22.8	23.1	23.4	24.0	20.6	20.9	21.2	21.5	22.1
12H	22.8	23.1	23.4	23.6	24.2	20.9	21.2	21.5	21.7	22.4
X=12H Y=4H	21.8	22.2	22.3	22.7	23.2	19.9	20.3	20.4	20.8	21.3
6H	22.3	22.6	22.8	23.1	23.7	20.4	20.7	21.0	21.3	21.9
8H	22.6	22.8	23.1	23.4	24.0	20.7	21.0	21.3	21.6	22.2
Variations with the observer position at spacings:										
S=1.0H	+1.0/-1.0					+0.9/-1.1				
S=1.5H	+2.5/-1.8					+2.0/-1.8				
S=2.0H	+3.9/-2.5					+3.3/-2.4				

Calculate in accordance with CIE Pub.117. The table is revised with 164622lm ($8\log(F/F_0) = 17.7$).

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.50									
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	0.81	0.88	0.92	0.95	1.00	1.03	1.05	1.08	1.10	
	0.30		0.76	0.83	0.87	0.91	0.96	0.99	1.02	1.05	1.07	
	0.20		0.72	0.79	0.84	0.87	0.93	0.96	0.99	1.03	1.05	
0.50	0.50	0.20	0.79	0.85	0.89	0.92	0.96	0.99	1.00	1.03	1.04	
	0.30		0.75	0.81	0.85	0.88	0.93	0.96	0.98	1.01	1.02	
	0.20		0.72	0.78	0.82	0.85	0.90	0.93	0.95	0.99	1.01	
0.30	0.50	0.20	0.78	0.83	0.87	0.89	0.93	0.95	0.96	0.98	1.00	
	0.30		0.74	0.79	0.83	0.86	0.90	0.92	0.94	0.97	0.98	
	0.20		0.71	0.77	0.81	0.84	0.88	0.90	0.92	0.95	0.97	
0.00	0.00	0.00	0.69	0.74	0.77	0.80	0.83	0.86	0.87	0.89	0.91	
Rating:999W 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 = 0.50									
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	0.65	0.53	0.45	0.40	0.32	0.26	0.23	0.18	0.14	
	0.30		0.54	0.46	0.40	0.35	0.29	0.24	0.21	0.17	0.14	
	0.20		0.46	0.40	0.35	0.31	0.26	0.22	0.20	0.16	0.13	
0.50	0.50	0.20	0.61	0.50	0.42	0.36	0.29	0.28	0.21	0.16	0.13	
	0.30		0.51	0.43	0.37	0.33	0.26	0.22	0.19	0.15	0.13	
	0.20		0.44	0.38	0.33	0.30	0.24	0.21	0.18	0.15	0.12	
0.30	0.50	0.20	0.57	0.46	0.39	0.34	0.27	0.22	0.19	0.15	0.12	
	0.30		0.49	0.41	0.35	0.30	0.25	0.21	0.18	0.14	0.12	
	0.20		0.43	0.36	0.32	0.28	0.23	0.19	0.17	0.13	0.11	
0.00	0.00	0.00	0.29	0.23	0.20	0.17	0.14	0.12	0.10	0.08	0.06	
Rating:999W 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 = 0.50									
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	0.19	0.21	0.22	0.23	0.24	0.25	0.26	0.26	0.27	
	0.30		0.15	0.17	0.18	0.19	0.21	0.22	0.23	0.24	0.25	
	0.20		0.11	0.13	0.15	0.16	0.18	0.20	0.21	0.23	0.24	
0.50	0.50	0.20	0.18	0.20	0.21	0.22	0.23	0.24	0.25	0.25	0.26	
	0.30		0.14	0.16	0.18	0.19	0.20	0.21	0.22	0.24	0.24	
	0.20		0.11	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23	
0.30	0.50	0.20	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.24	0.25	
	0.30		0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.23	
	0.20		0.11	0.13	0.15	0.16	0.18	0.19	0.20	0.21	0.22	
0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	
Rating:999W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												