

Report No.: 1

Test Time: 19.02.2020 14:30

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 36 LED 600W 5000K 20 gr.

Number of Lamps: 1

Luminous Width (mm): 345

Voltage: 220.7 V

Power: 605.40 W

Luminous Length (mm): 345

Luminous Height (mm): 695

Current: 2.816 A

Power Factor: 0.974

Photometric Results

CIE Class: Direct

Measurement Flux: 100283.6 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): 165.70

Max. Intensity: 409603.04 cd

S/MH(C0/C180): 0.34

Total Rated Lamp Lumens: 100283.6 lm

Efficiency: 100%

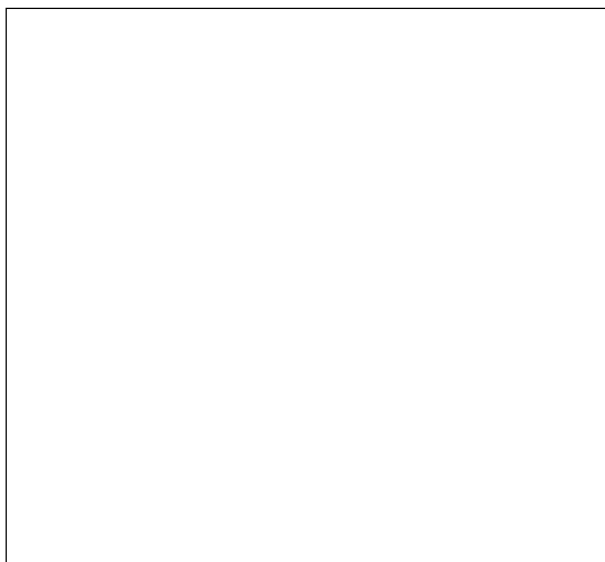
Upward Ratio: 6%

Central Intensity: 399889.78 cd

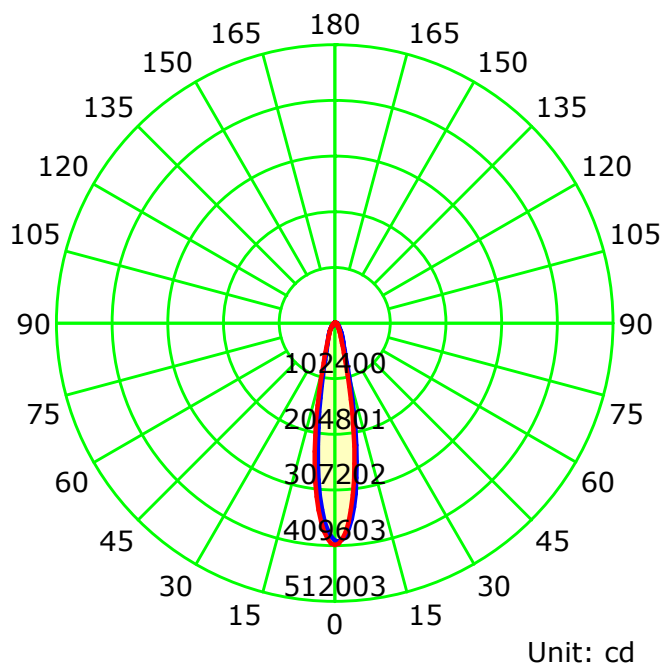
Pos of Max. Intensity: H135 V0

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

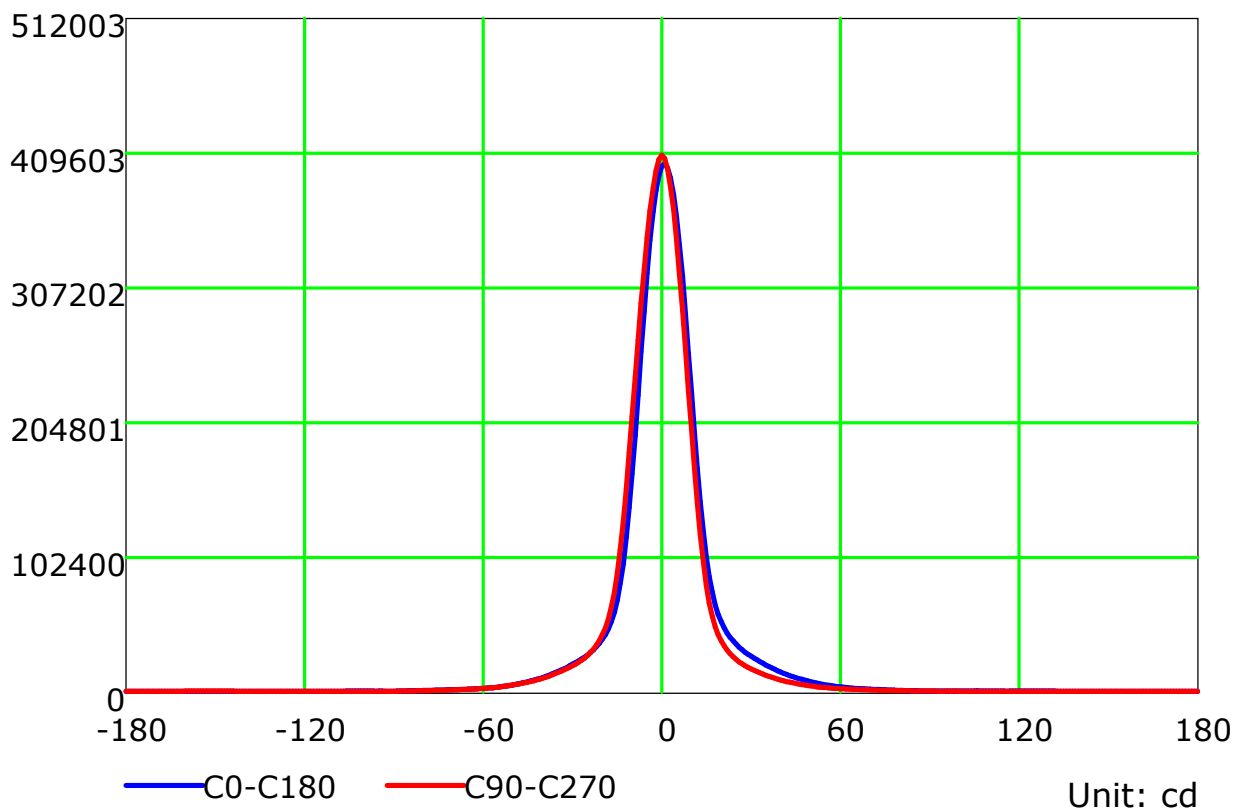
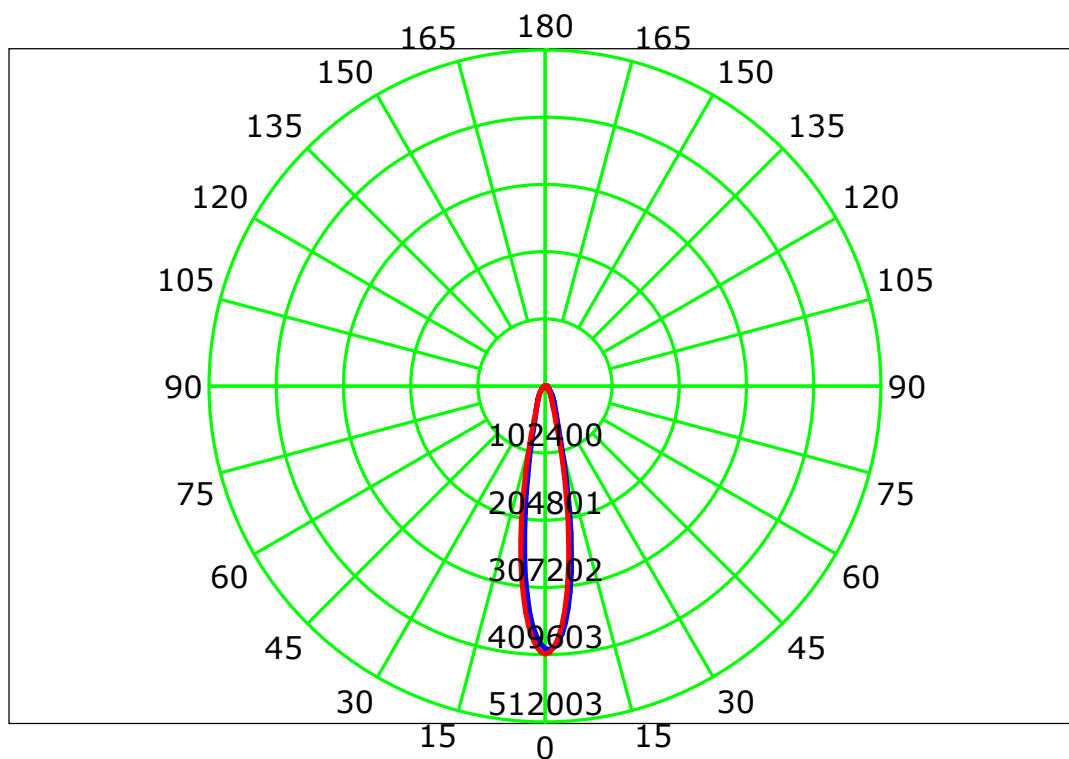
Test Device: LSG-1800B

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

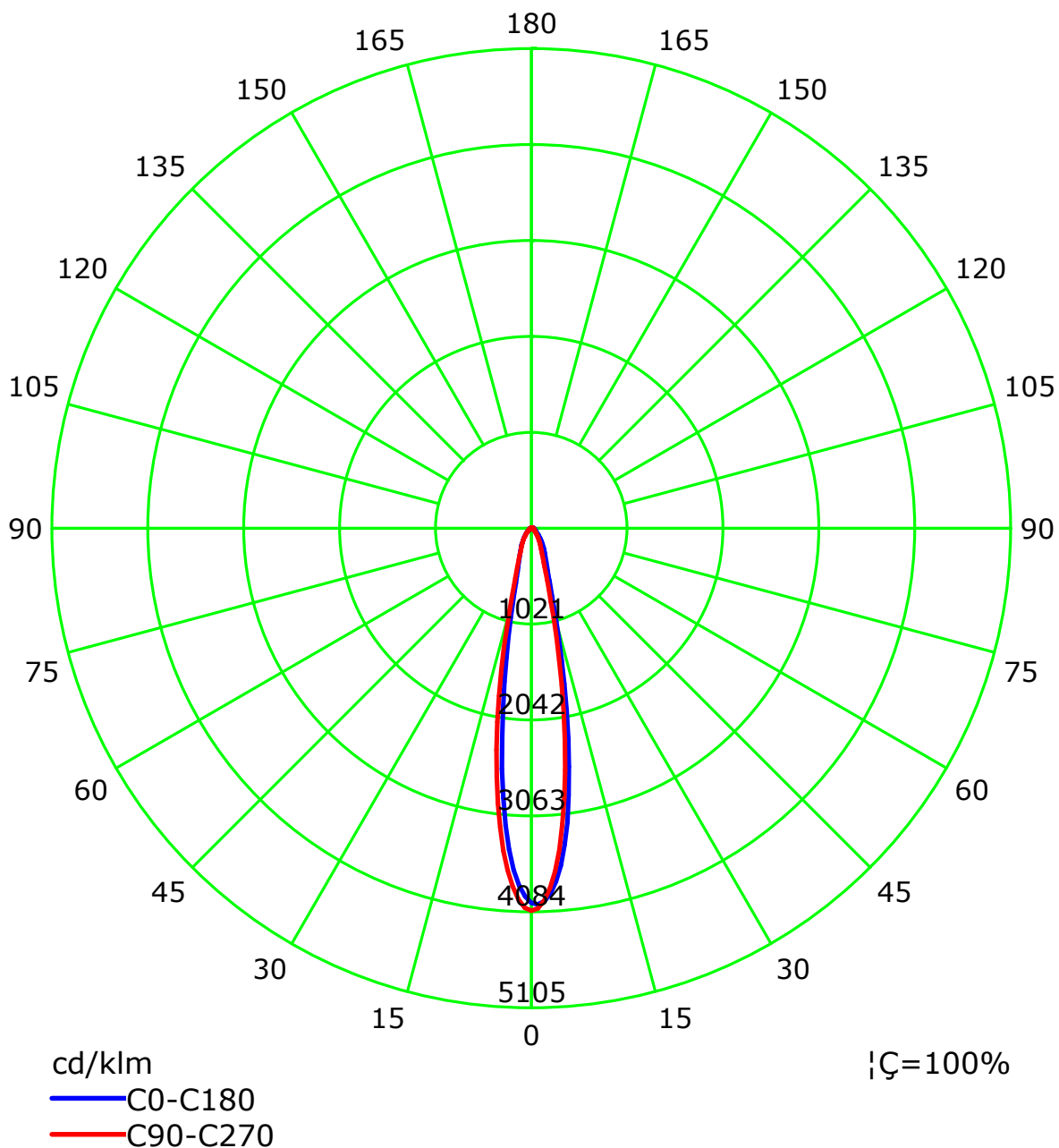
Test Device: LSG-1800B

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

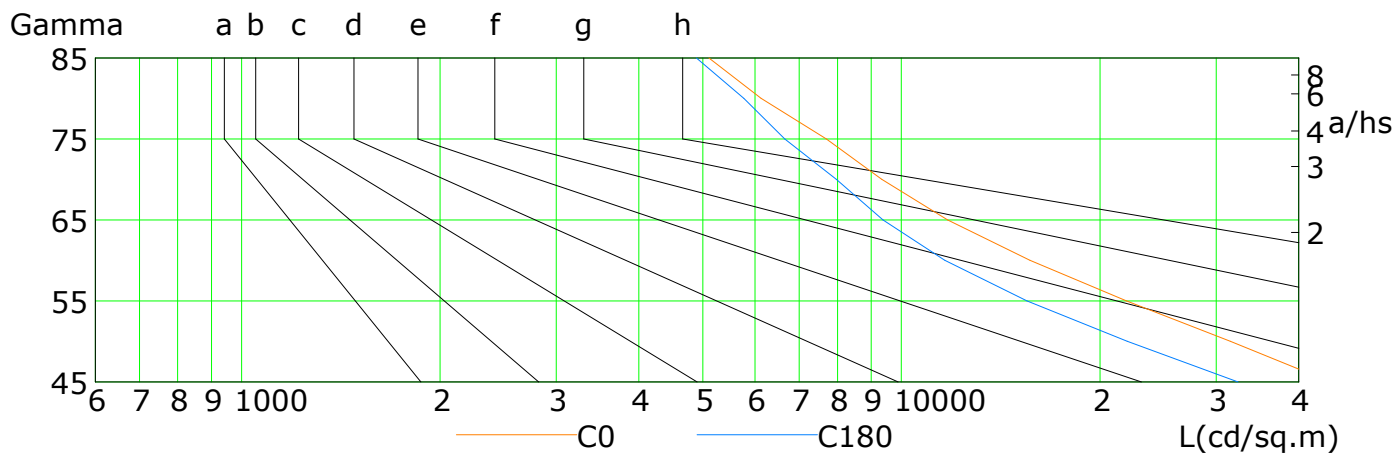
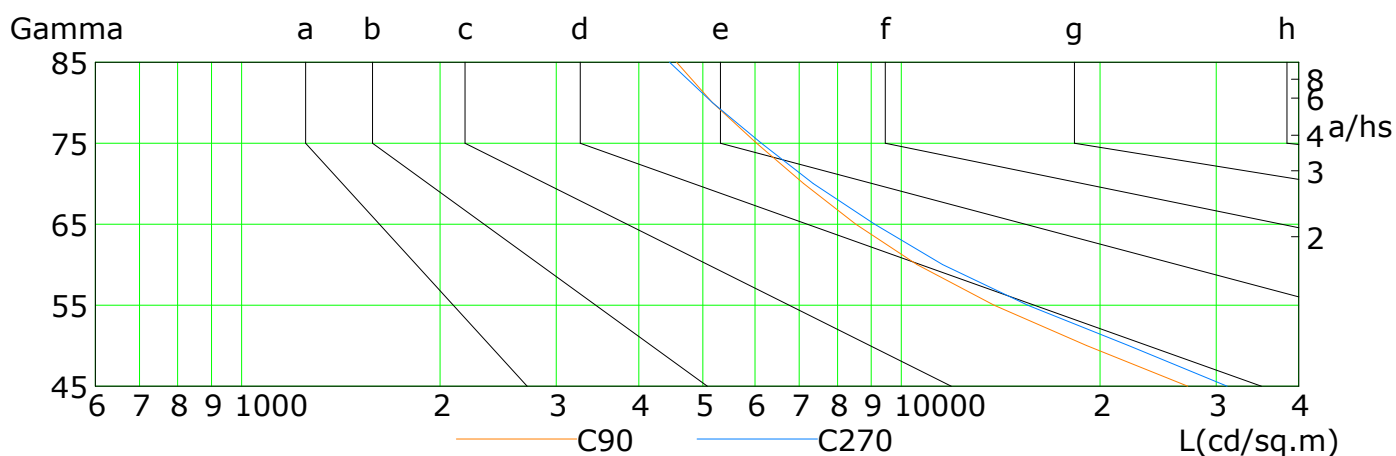
Humidity:

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	44845	31529	21957	15659	11759	9333	7694	6127	5109
C90	27172	19085	13813	10553	8530	7111	6031	5171	4561
C180	32370	21987	15497	11642	9380	7966	6654	5773	4890
C270	31151	22092	15531	11540	9108	7350	6135	5171	4452

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

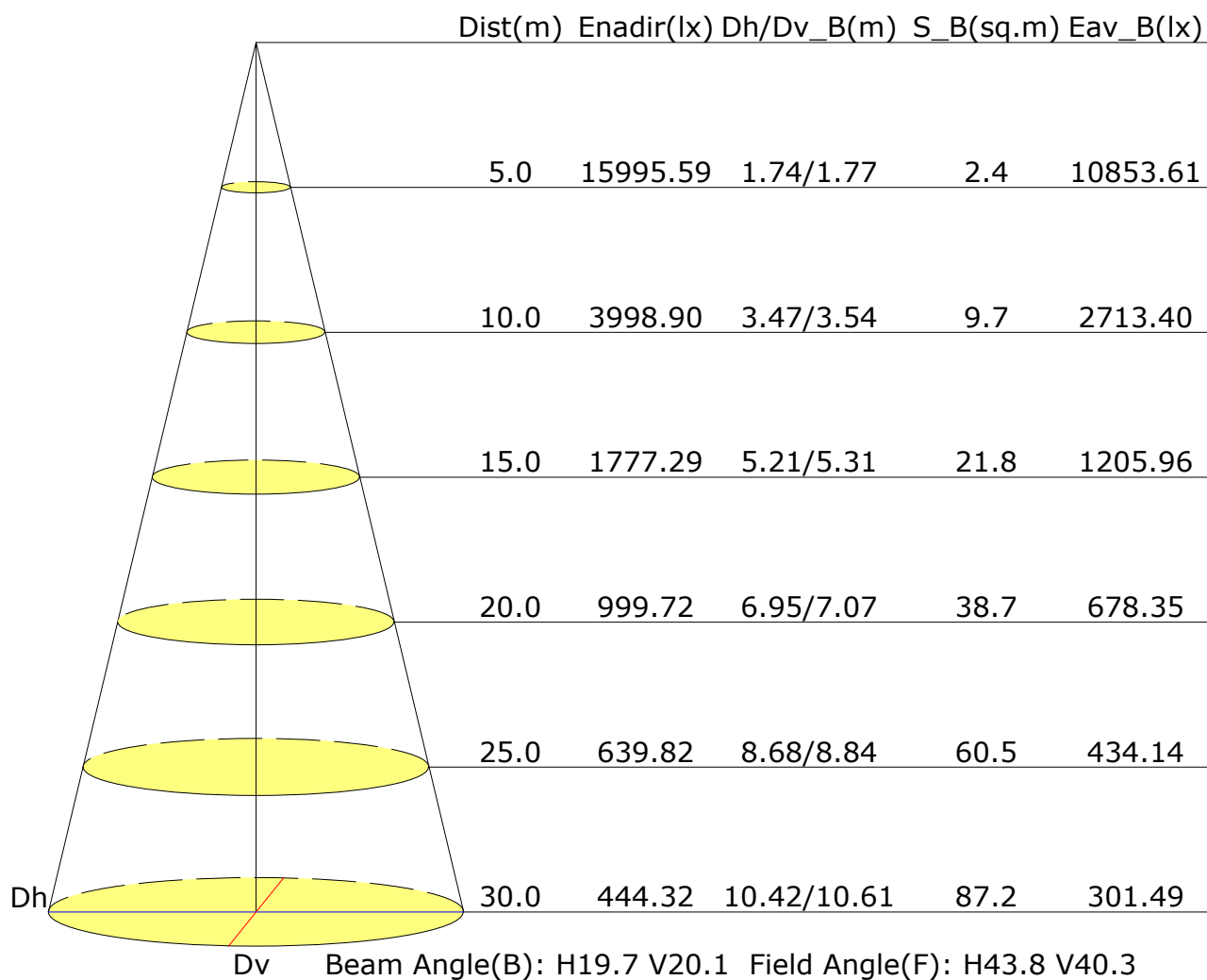
Test Device: LSG-1800B

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	20.0	20.8	20.4	21.1	21.4	18.3	19.1	18.6	19.4	19.7
3H	20.4	21.2	20.8	21.5	21.9	18.8	19.5	19.1	19.8	20.2
4H	20.7	21.3	21.1	21.7	22.1	19.0	19.7	19.4	20.0	20.4
6H	20.9	21.5	21.3	21.9	22.3	19.2	19.9	19.7	20.3	20.7
8H	20.9	21.6	21.4	22.0	22.4	19.4	20.0	19.8	20.4	20.8
12H	21.0	21.6	21.5	22.0	22.5	19.5	20.1	19.9	20.5	20.9
X=4H Y=2H	20.0	20.7	20.4	21.1	21.4	18.5	19.2	18.9	19.5	19.9
3H	20.6	21.2	21.0	21.6	22.0	19.1	19.7	19.5	20.1	20.5
4H	20.9	21.4	21.4	21.9	22.3	19.4	20.0	19.9	20.4	20.9
6H	21.2	21.7	21.7	22.1	22.6	19.8	20.3	20.3	20.7	21.2
8H	21.3	21.8	21.9	22.3	22.8	20.0	20.4	20.5	20.9	21.4
12H	21.5	21.9	22.0	22.4	22.9	20.2	20.6	20.7	21.1	21.6
X=8H Y=4H	20.9	21.3	21.4	21.8	22.4	19.5	20.0	20.1	20.5	21.0
6H	21.3	21.7	21.9	22.2	22.8	20.0	20.4	20.6	20.9	21.5
8H	21.5	21.9	22.1	22.4	23.0	20.3	20.6	20.9	21.2	21.8
12H	21.8	22.1	22.4	22.6	23.2	20.6	20.9	21.2	21.4	22.0
X=12H Y=4H	20.9	21.3	21.4	21.8	22.3	19.5	19.9	20.1	20.4	21.0
6H	21.3	21.6	21.9	22.2	22.8	20.1	20.4	20.6	20.9	21.5
8H	21.6	21.9	22.2	22.4	23.0	20.4	20.7	21.0	21.2	21.8
Variations with the observer position at spacings:										
S=1.0H	+1.1/-1.0					+1.0/-1.1				
S=1.5H	+2.6/-1.8					+2.2/-1.8				
S=2.0H	+4.0/-2.6					+3.5/-2.4				

Calculate in accordance with CIE Pub.117. The table is revised with 100284lm ($8\log(F/F_0) = 16.0$).

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:605W 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:605W 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:605W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												