

Report No.: 1

Test Time: 26.02.2020 20:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 36LED 200W 5000K 30gr.

Number of Lamps: 1

Luminous Width (mm): 220

Voltage: 228.8 V

Power: 201.70 W

Luminous Length (mm): 174

Luminous Height (mm): 338

Current: 0.904 A

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Measurement Flux: 27768.3 lm

Downward Ratio: 97%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 59.4, 58.9, 62.4, 62.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 31.0, 29.3, 31.6, 31.4

Luminaire Efficacy Rating (LER): 137.72

Max. Intensity: 62190.36 cd

S/MH(C0/C180): 0.52

Total Rated Lamp Lumens: 27768.3 lm

Efficiency: 100%

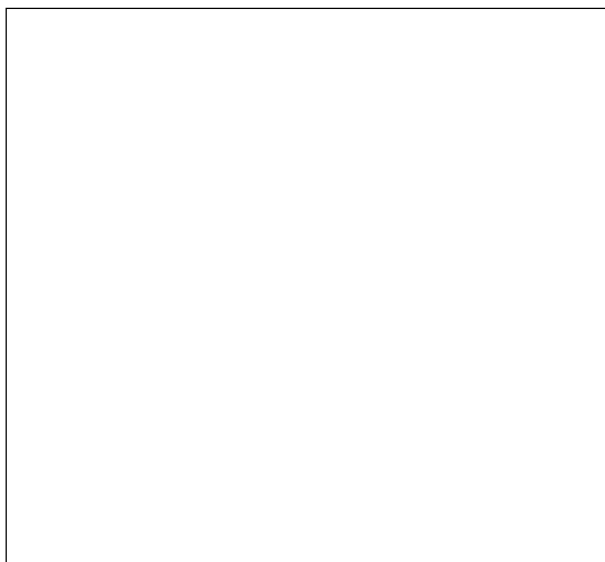
Upward Ratio: 3%

Central Intensity: 60642.62 cd

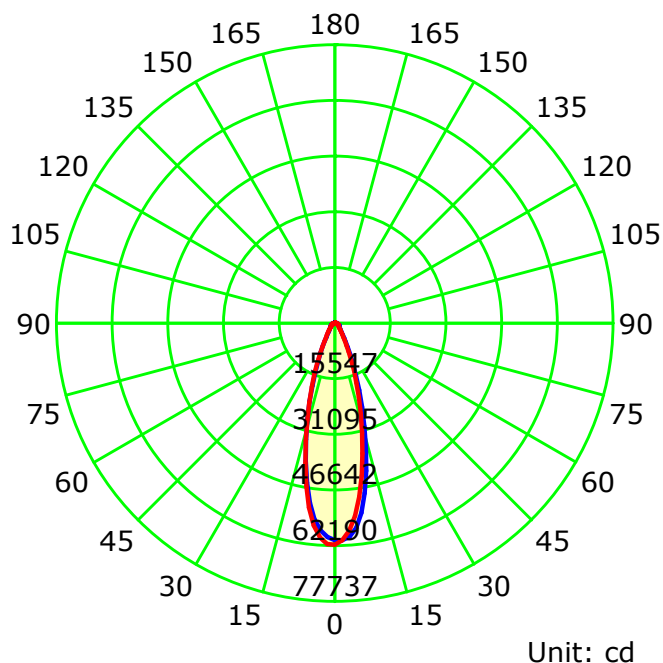
Pos of Max. Intensity: H315 V2

S/MH(C90/C270): 0.49

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

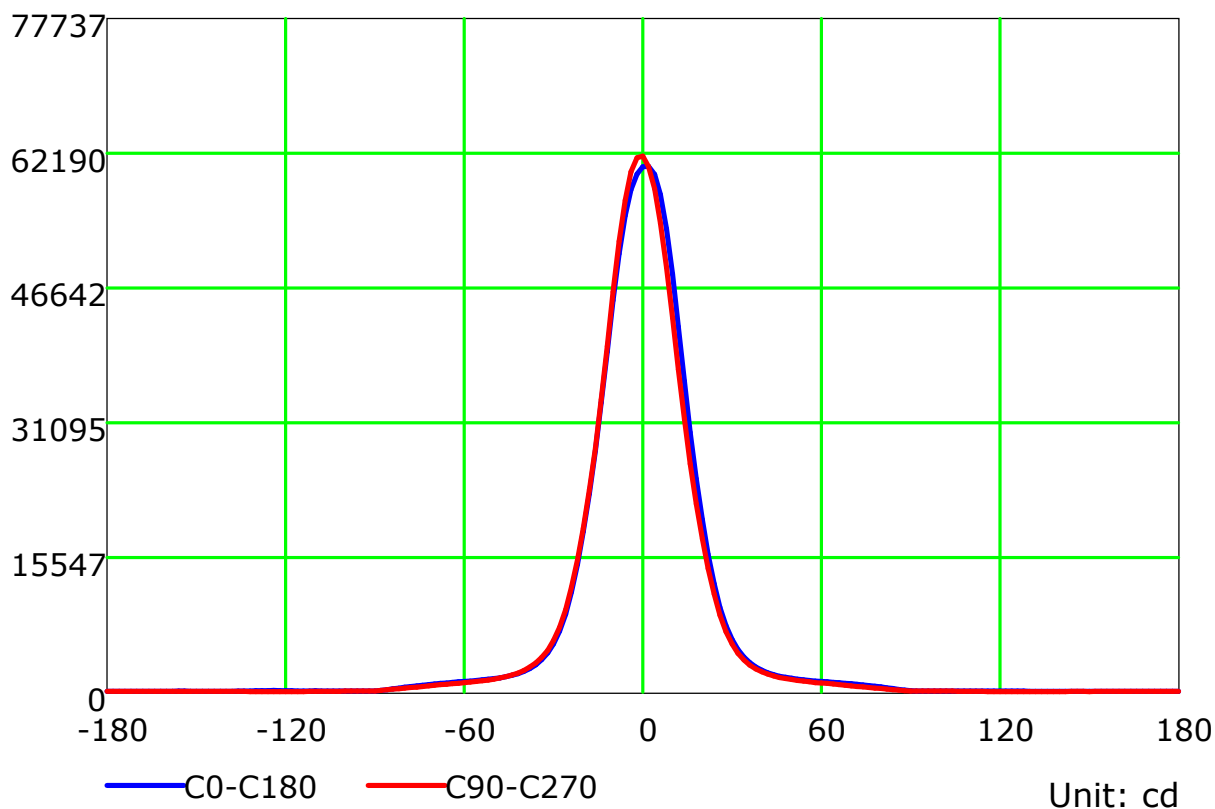
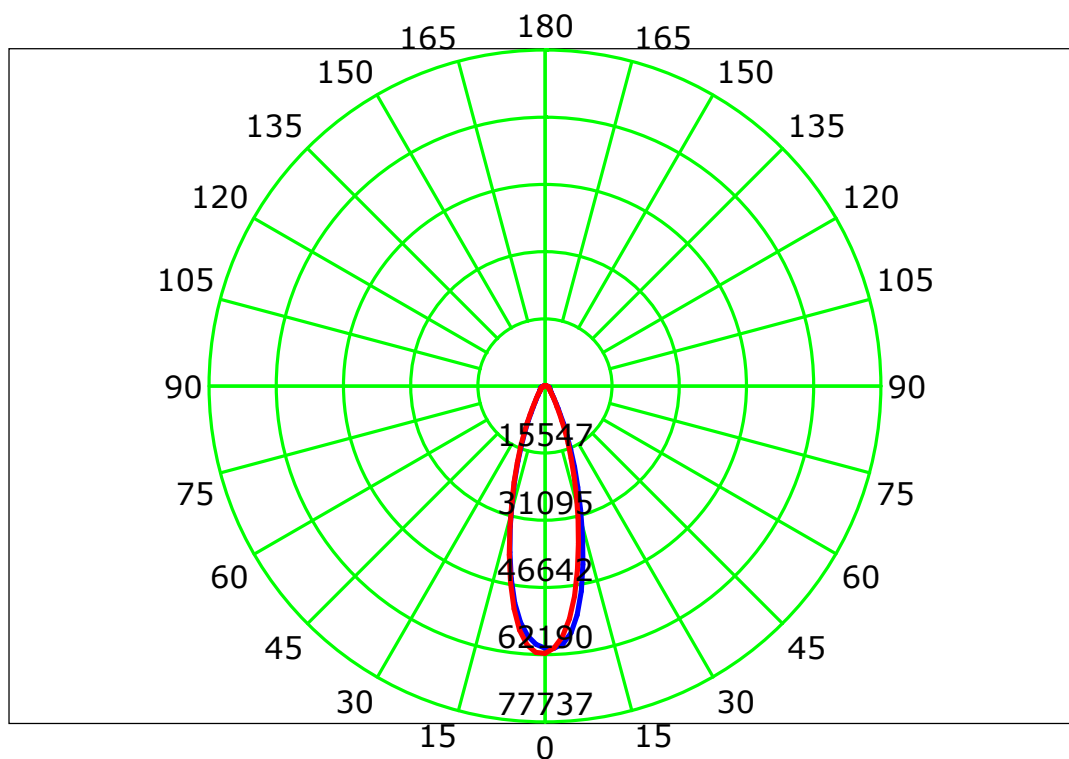
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

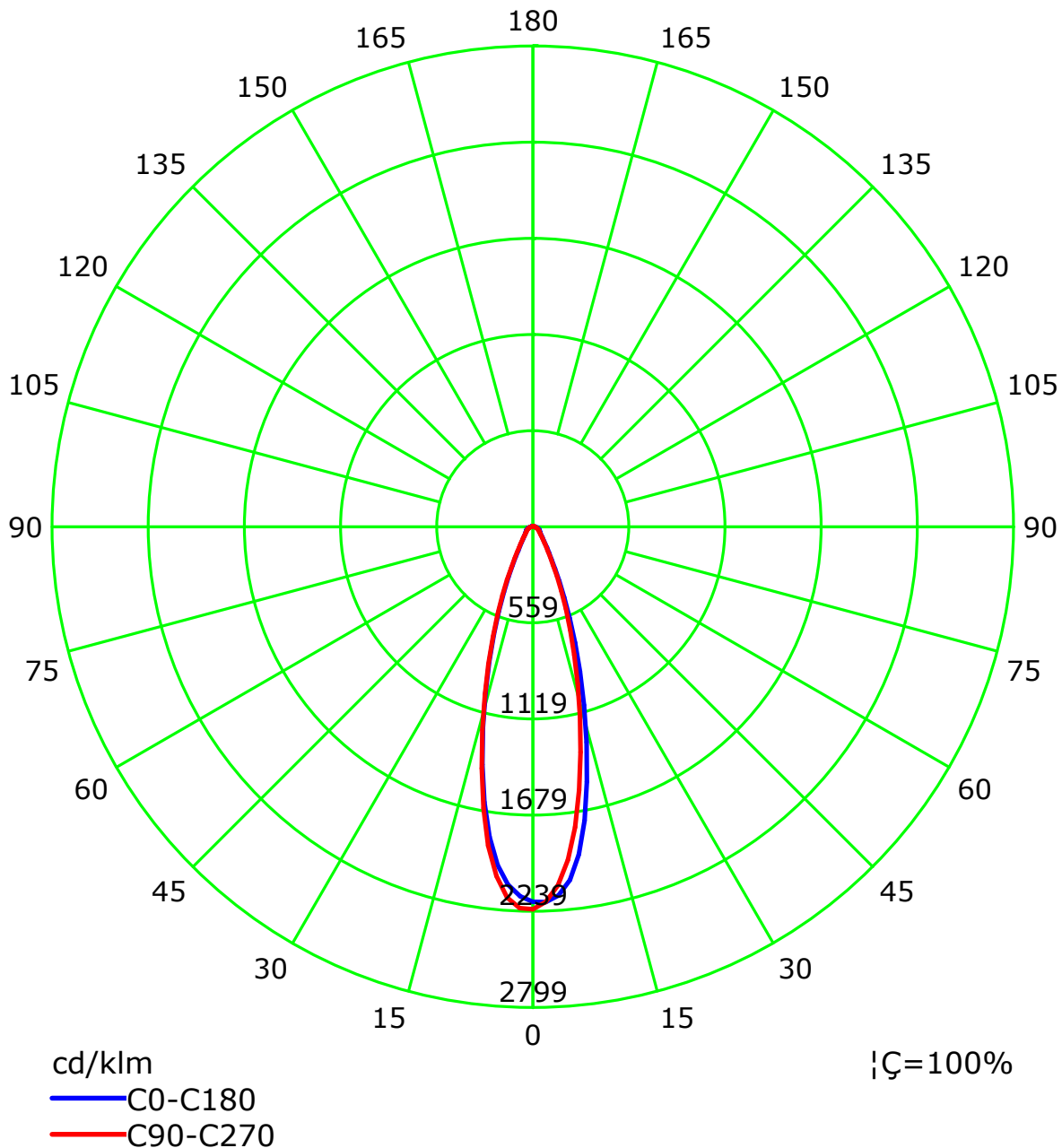
Test Device: LSG-1800B

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

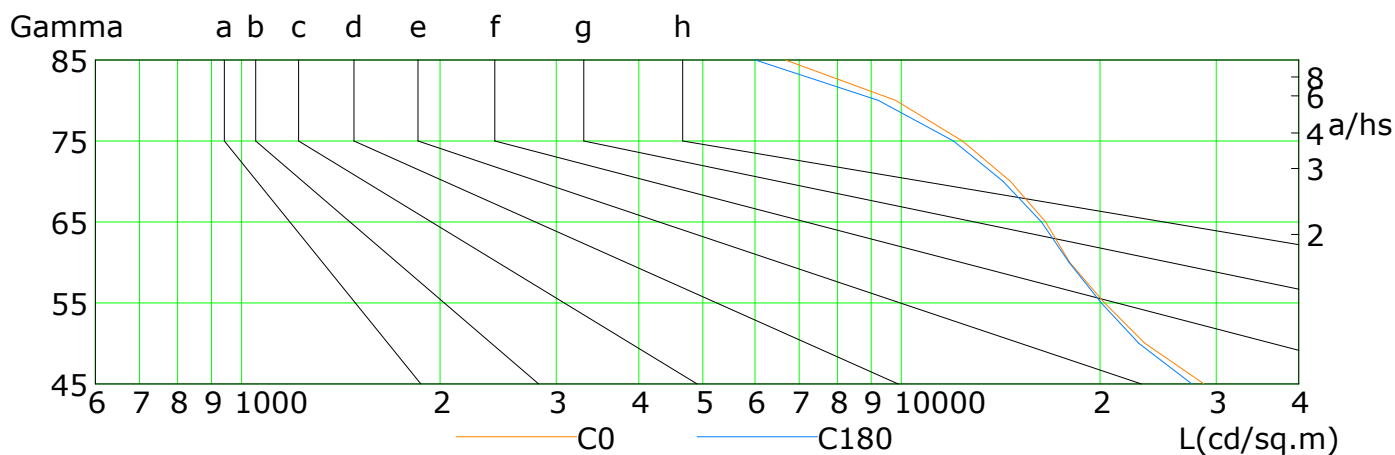
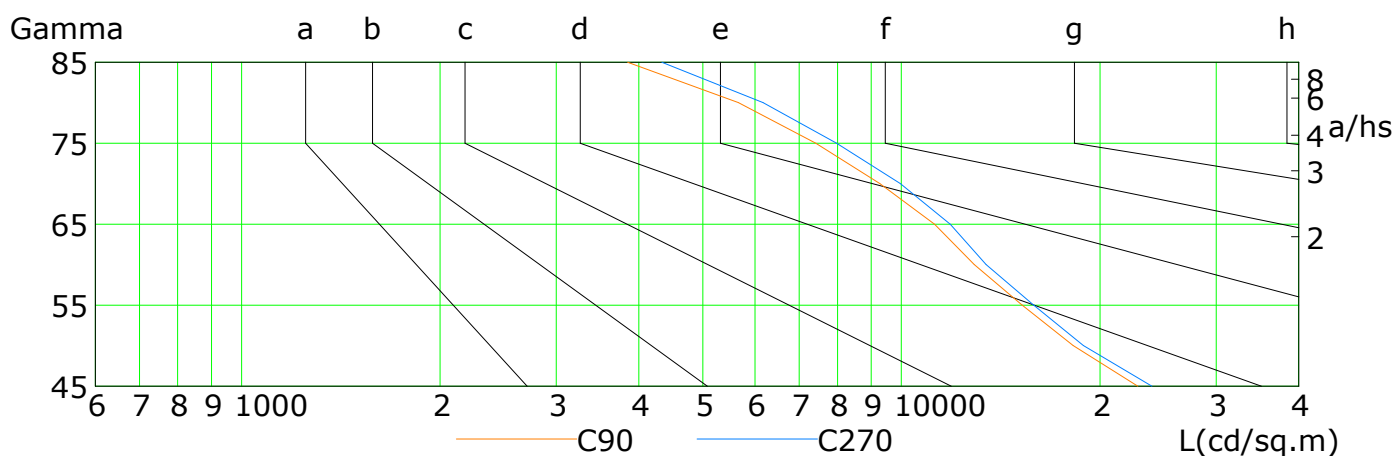
Humidity:

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	28745	23399	20327	17983	16543	14627	12369	9794	6672
C90	22828	18219	15247	12898	11227	9272	7415	5659	3848
C180	27565	22907	20100	17950	16313	14260	11993	9228	6009
C270	23975	18863	15867	13445	11855	9960	7974	6173	4335

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

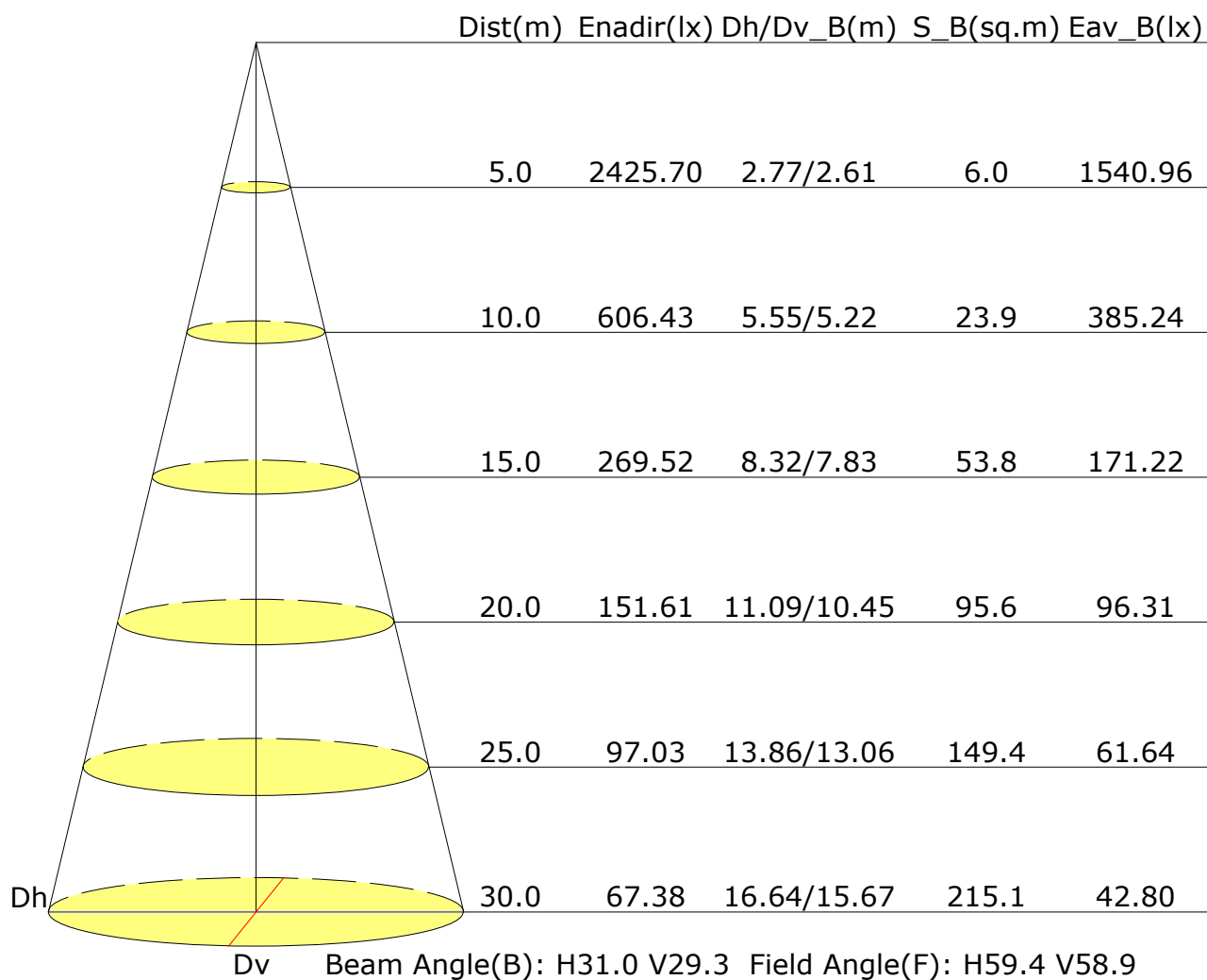
Test Device: LSG-1800B

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	18.9	19.8	19.2	20.1	20.3	18.2	19.1	18.6	19.4	19.6
3H	20.3	21.1	20.6	21.4	21.7	19.3	20.1	19.6	20.4	20.7
4H	20.9	21.7	21.3	22.0	22.3	19.8	20.5	20.1	20.8	21.2
6H	21.5	22.2	21.8	22.5	22.9	20.1	20.8	20.5	21.2	21.5
8H	21.6	22.3	22.0	22.7	23.1	20.3	20.9	20.7	21.3	21.7
12H	21.8	22.4	22.2	22.8	23.2	20.3	21.0	20.8	21.4	21.8
X=4H Y=2H	19.3	20.0	19.7	20.4	20.7	18.7	19.5	19.1	19.8	20.1
3H	20.8	21.5	21.3	21.9	22.3	20.0	20.6	20.4	21.0	21.4
4H	21.6	22.2	22.0	22.6	23.0	20.6	21.1	21.0	21.5	22.0
6H	22.3	22.8	22.7	23.2	23.7	21.0	21.6	21.5	22.0	22.5
8H	22.5	23.0	23.0	23.5	23.9	21.2	21.7	21.7	22.2	22.6
12H	22.7	23.2	23.2	23.6	24.1	21.4	21.8	21.9	22.3	22.8
X=8H Y=4H	21.8	22.3	22.3	22.7	23.2	20.8	21.3	21.3	21.8	22.2
6H	22.6	23.0	23.1	23.5	24.0	21.5	21.9	22.0	22.4	22.9
8H	22.9	23.3	23.4	23.8	24.3	21.8	22.1	22.3	22.6	23.1
12H	23.2	23.5	23.7	24.0	24.6	22.0	22.3	22.5	22.8	23.4
X=12H Y=4H	21.8	22.2	22.3	22.7	23.2	20.9	21.3	21.4	21.8	22.3
6H	22.6	23.0	23.1	23.5	24.0	21.6	21.9	22.1	22.4	23.0
8H	23.0	23.3	23.5	23.8	24.4	21.9	22.2	22.4	22.7	23.3
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.3					+0.7/-0.4				
S=1.5H	+1.2/-0.6					+1.4/-0.8				
S=2.0H	+2.0/-1.0					+2.3/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 27768lm ($8\log(F/F_0) = 11.5$).

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	0.82	0.88	0.92	0.95	0.99	1.02	1.04	1.07	1.09	
	0.30		0.77	0.83	0.87	0.90	0.95	0.98	1.01	1.04	1.06	
	0.20		0.73	0.79	0.83	0.87	0.92	0.95	0.98	1.02	1.04	
0.50	0.50	0.20	0.80	0.85	0.89	0.92	0.96	0.98	1.00	1.02	1.04	
	0.30		0.76	0.81	0.85	0.88	0.92	0.95	0.97	1.00	1.02	
	0.20		0.73	0.78	0.82	0.85	0.90	0.93	0.95	0.98	1.00	
0.30	0.50	0.20	0.79	0.84	0.87	0.89	0.93	0.95	0.96	0.98	1.00	
	0.30		0.75	0.80	0.84	0.86	0.90	0.92	0.94	0.97	0.98	
	0.20		0.72	0.77	0.81	0.84	0.88	0.90	0.92	0.95	0.97	
0.00	0.00	0.00	0.70	0.75	0.78	0.80	0.84	0.86	0.88	0.90	0.91	
Rating:202W 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	0.62	0.52	0.45	0.39	0.31	0.26	0.23	0.18	0.15	
	0.30		0.52	0.44	0.39	0.35	0.28	0.24	0.21	0.17	0.14	
	0.20		0.45	0.39	0.34	0.31	0.26	0.22	0.20	0.16	0.13	
0.50	0.50	0.20	0.59	0.49	0.42	0.36	0.29	0.28	0.21	0.16	0.13	
	0.30		0.50	0.42	0.37	0.33	0.27	0.23	0.20	0.15	0.13	
	0.20		0.43	0.37	0.33	0.30	0.25	0.21	0.18	0.15	0.12	
0.30	0.50	0.20	0.56	0.46	0.39	0.34	0.27	0.22	0.19	0.15	0.12	
	0.30		0.48	0.40	0.35	0.31	0.25	0.21	0.18	0.14	0.12	
	0.20		0.42	0.36	0.32	0.28	0.23	0.20	0.17	0.14	0.11	
0.00	0.00	0.00	0.28	0.24	0.20	0.18	0.14	0.12	0.11	0.08	0.07	
Rating:202W 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	0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.24	
	0.30		0.12	0.14	0.15	0.17	0.18	0.20	0.20	0.22	0.23	
	0.20		0.09	0.11	0.12	0.14	0.16	0.17	0.18	0.20	0.21	
0.50	0.50	0.20	0.16	0.17	0.19	0.19	0.21	0.21	0.22	0.23	0.23	
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22	
	0.20		0.09	0.11	0.12	0.14	0.15	0.17	0.18	0.19	0.20	
0.30	0.50	0.20	0.15	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.21	
	0.20		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.19	0.20	
0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	
Rating:202W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												