

Report No.: 1

Test Time: 26.11.2019 13:39

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 300 40LED 0,3A 30W 5000K frozen (40) Griliyato

Luminous Length (mm): 286

Luminous Width (mm): 286

Luminous Height (mm): 40

Voltage: 221.2 V

Current: 0.142 A

Power: 30.50 W

Power Factor: 0.967

Photometric Results

CIE Class: Direct

Measurement Flux: 4030.5 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 4030.5 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 148.7, 147.2, 148.9, 148.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.5, 100.8, 101.1, 101.3

Luminaire Efficacy Rating (LER): 132.20

Central Intensity: 1622.45 cd

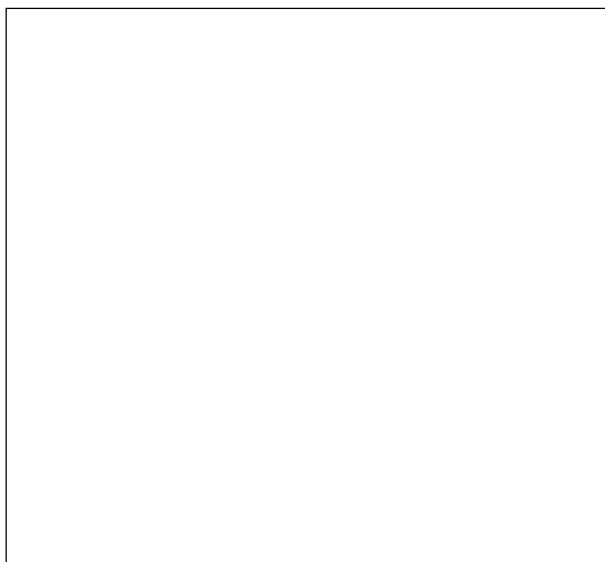
Max. Intensity: 1632.46 cd

Pos of Max. Intensity: H337.5 V4

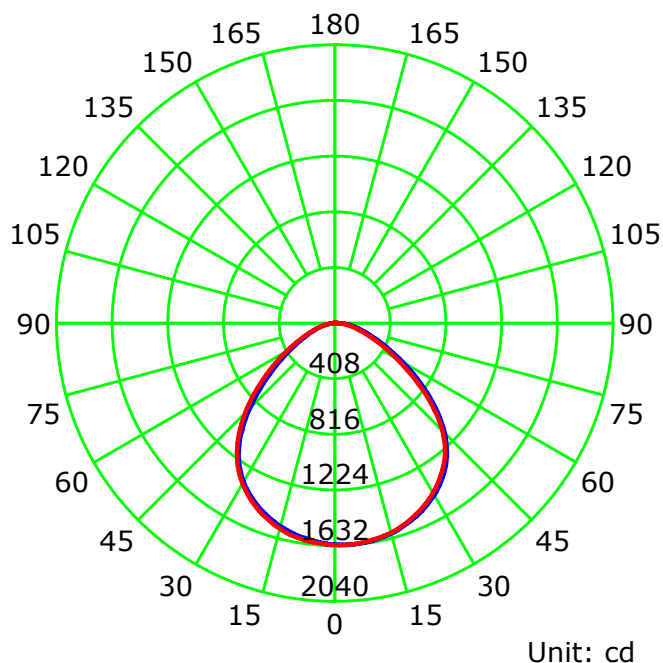
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.27

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

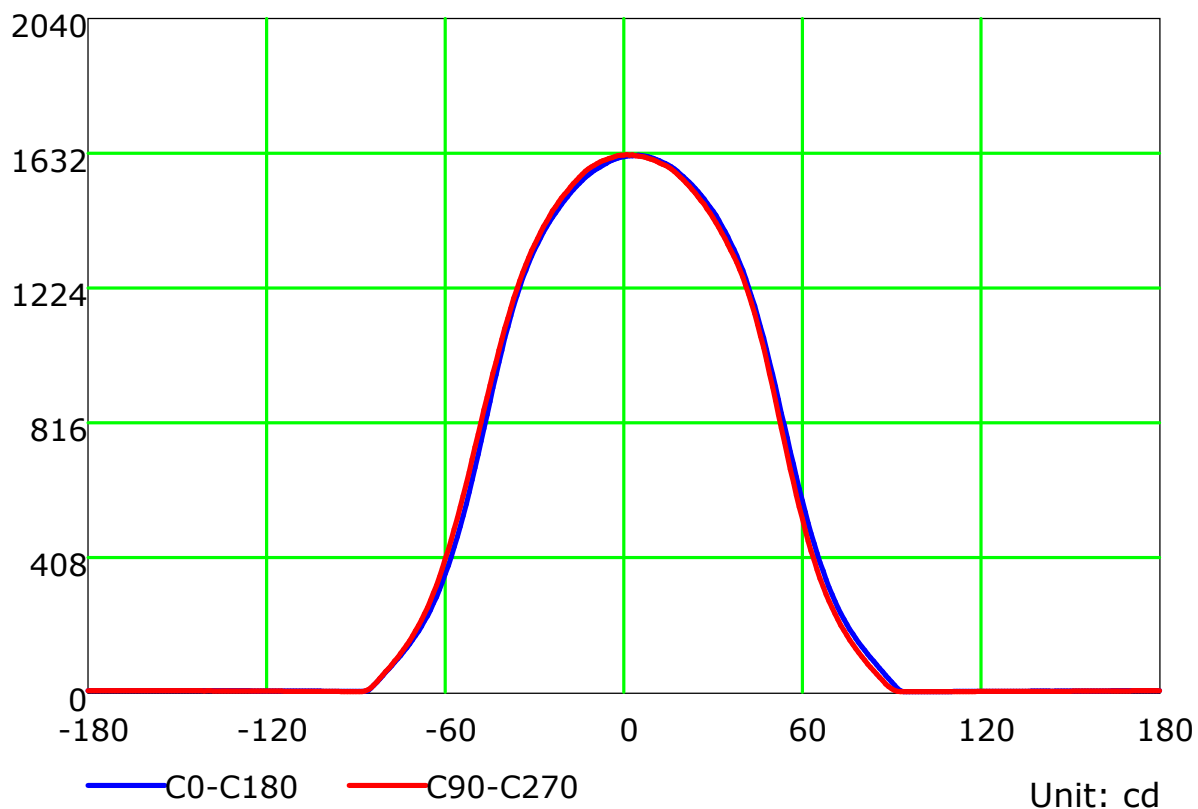
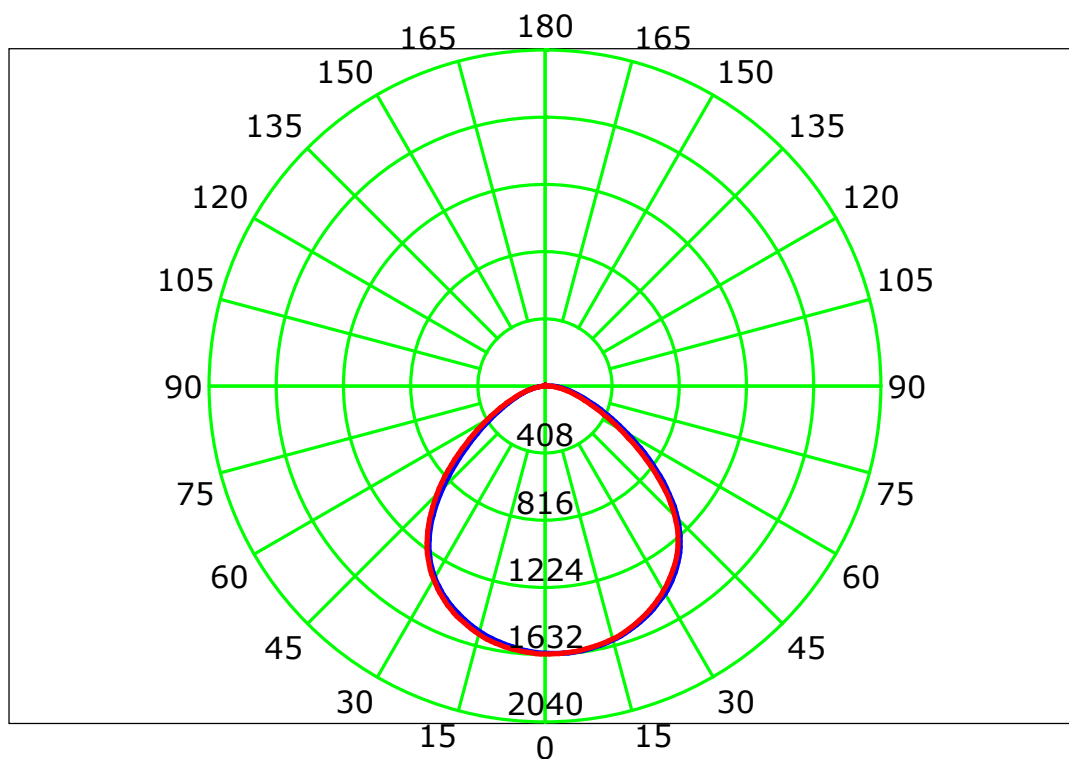
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

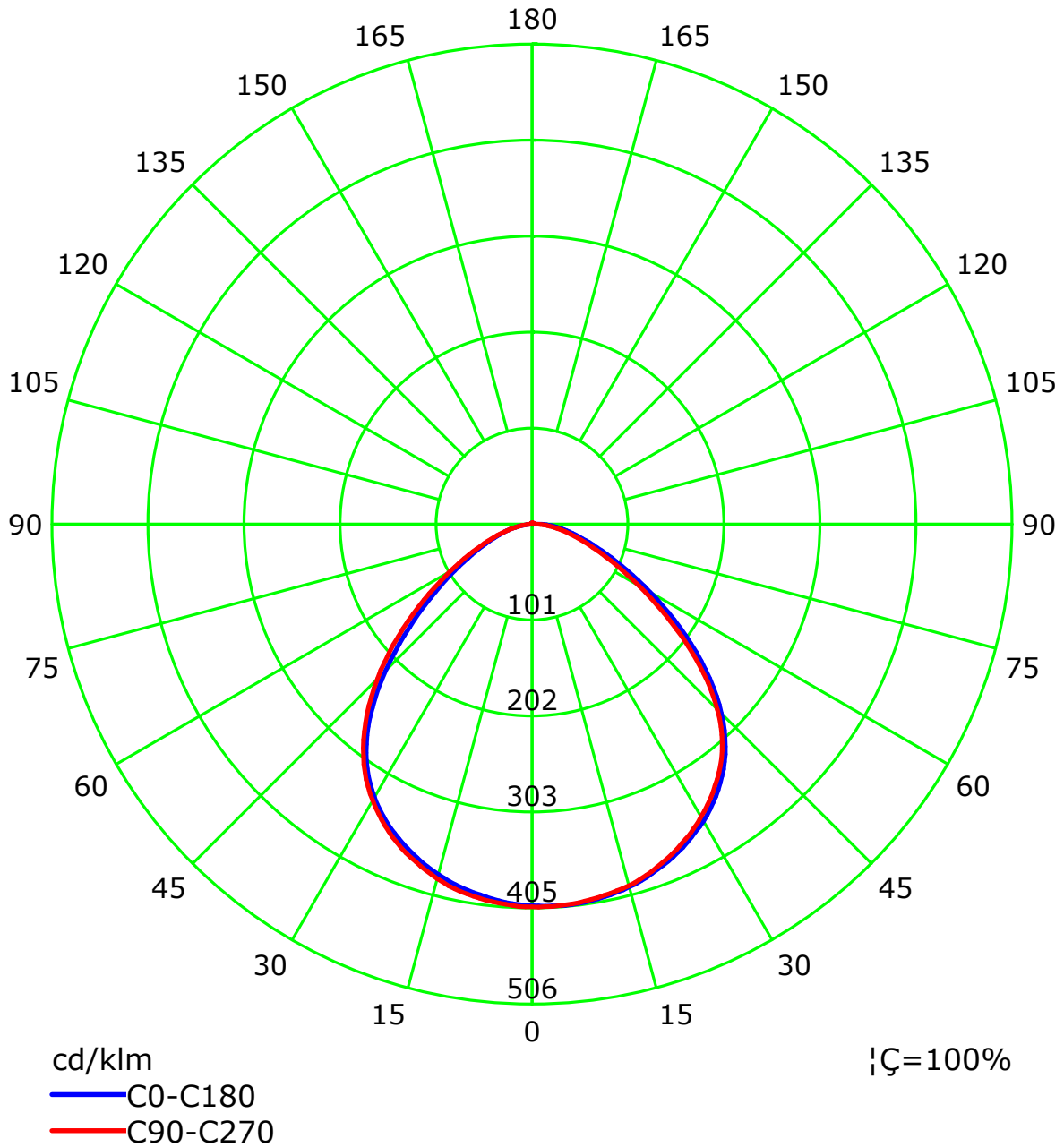
Luminous Intensity Distribution Curve



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:

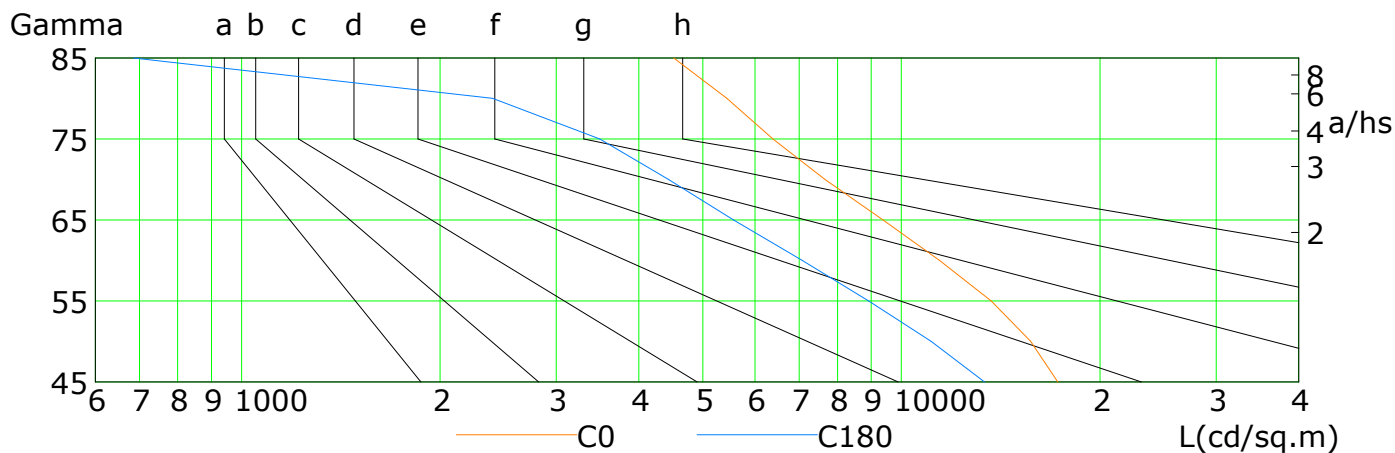
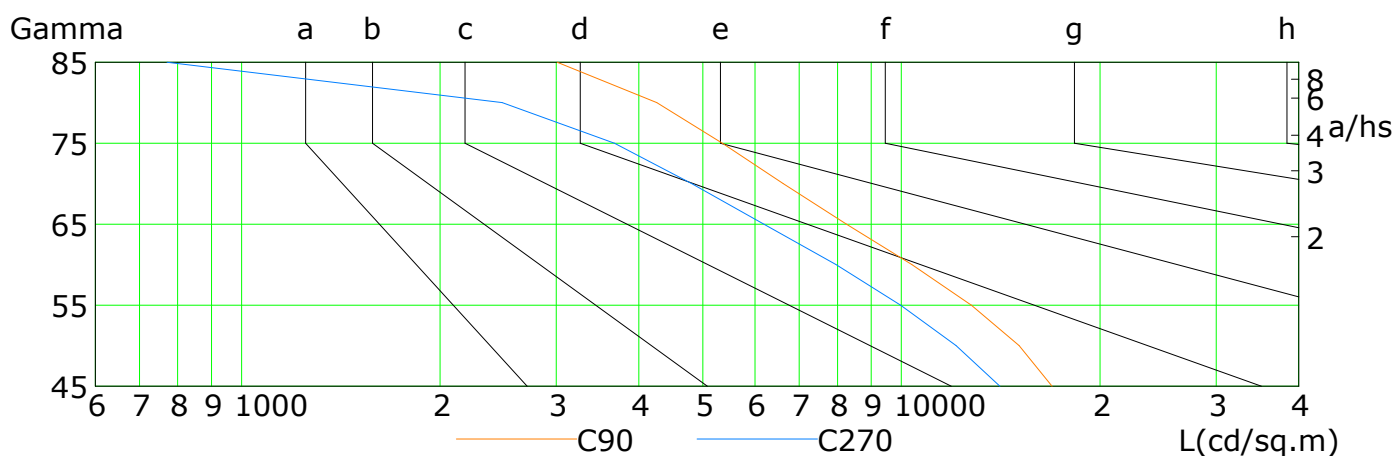
Luminous Intensity Distribution Curve(cd/klm)



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

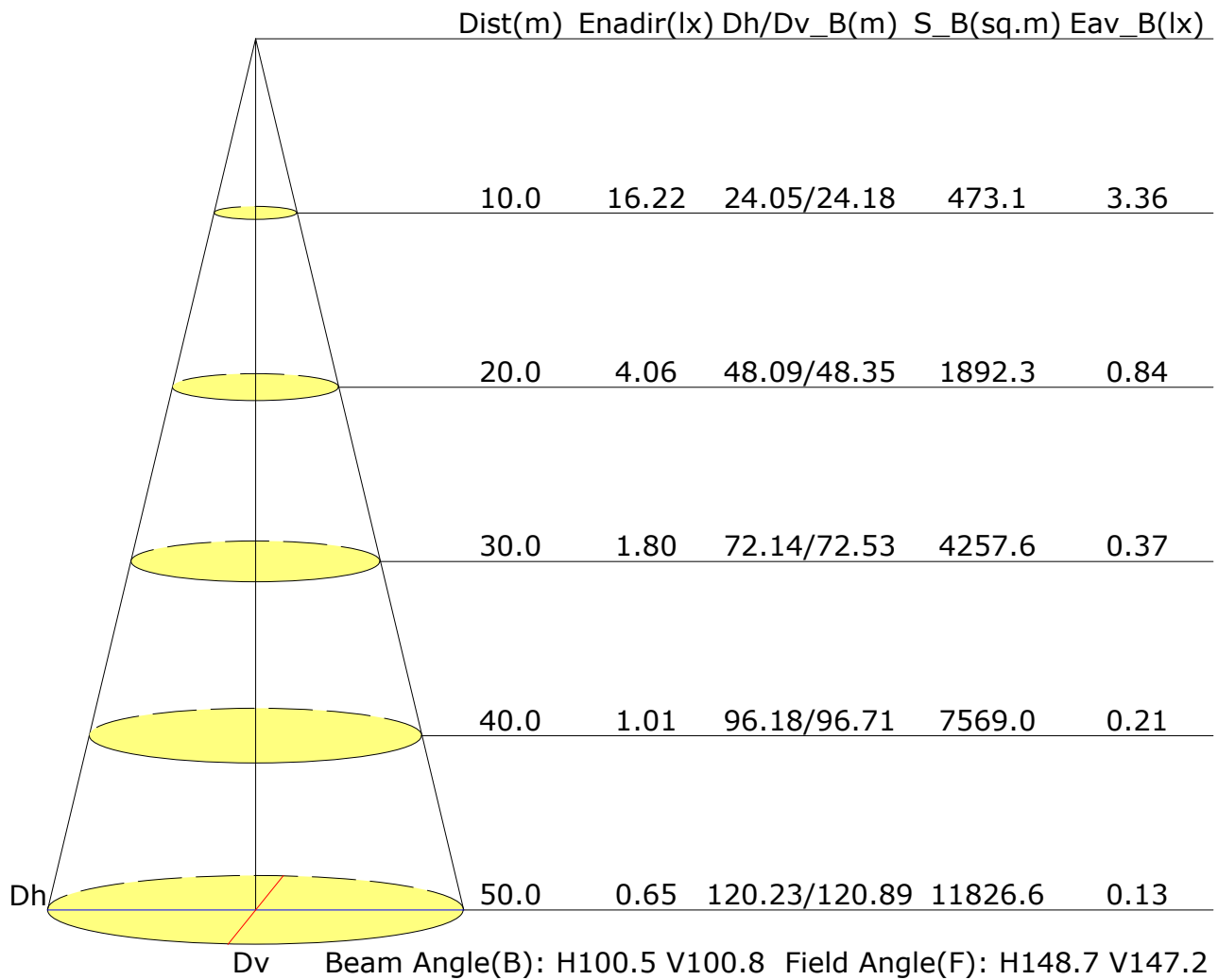


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	17267	15703	13675	11417	9378	7654	6387	5437	4518
C90	16907	15077	12761	10368	8261	6621	5357	4260	3008
C180	13361	11093	8924	7071	5566	4434	3490	2401	686
C270	14106	12106	9973	7959	6193	4811	3675	2482	771

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	21.6	22.9	21.9	23.2	23.4	21.0	22.3	21.3	22.5	22.8
3H	22.5	23.6	22.8	23.9	24.2	21.7	22.8	22.0	23.1	23.4
4H	22.8	23.9	23.1	24.2	24.5	21.9	23.0	22.2	23.3	23.6
6H	23.0	24.0	23.4	24.4	24.7	22.0	23.0	22.4	23.3	23.7
8H	23.1	24.1	23.5	24.4	24.8	22.0	23.0	22.4	23.3	23.7
12H	23.2	24.1	23.6	24.5	24.8	22.0	23.0	22.4	23.3	23.7
X=4H Y=2H	22.0	23.1	22.3	23.4	23.7	21.4	22.5	21.8	22.8	23.1
3H	23.0	23.9	23.4	24.3	24.6	22.3	23.2	22.7	23.5	23.9
4H	23.4	24.2	23.8	24.6	25.0	22.6	23.4	23.0	23.8	24.2
6H	23.7	24.5	24.2	24.9	25.3	22.8	23.5	23.2	23.9	24.3
8H	23.9	24.6	24.3	25.0	25.4	22.9	23.5	23.3	24.0	24.4
12H	24.0	24.6	24.5	25.1	25.5	22.9	23.5	23.4	23.9	24.4
X=8H Y=4H	23.5	24.2	23.9	24.6	25.0	22.7	23.4	23.2	23.8	24.3
6H	24.0	24.5	24.4	25.0	25.4	23.1	23.6	23.6	24.1	24.5
8H	24.2	24.7	24.7	25.1	25.6	23.2	23.7	23.7	24.1	24.6
12H	24.4	24.8	24.9	25.3	25.8	23.3	23.7	23.8	24.2	24.7
X=12H Y=4H	23.5	24.1	24.0	24.5	25.0	22.8	23.4	23.2	23.8	24.2
6H	24.0	24.5	24.5	24.9	25.4	23.1	23.6	23.6	24.1	24.6
8H	24.2	24.6	24.7	25.1	25.6	23.3	23.7	23.8	24.2	24.7
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.4/-0.5				
S=1.5H	+0.6/-0.9					+0.8/-1.4				
S=2.0H	+1.2/-1.6					+1.1/-2.3				

Calculate in accordance with CIE Pub.117. The table is revised with 4030lm ($8\log(F/F_0) = 4.8$).

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 = 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	0.62	0.72	0.79	0.84	0.91	0.95	0.98	1.02	1.05	
	0.30		0.54	0.65	0.72	0.78	0.85	0.90	0.94	0.99	1.02	
	0.20		0.49	0.60	0.67	0.73	0.81	0.86	0.90	0.96	0.99	
0.50	0.50	0.20	0.60	0.70	0.77	0.81	0.88	0.92	0.95	0.98	1.01	
	0.30		0.53	0.64	0.71	0.76	0.83	0.88	0.91	0.95	0.98	
	0.20		0.49	0.59	0.66	0.72	0.79	0.84	0.88	0.93	0.96	
0.30	0.50	0.20	0.59	0.68	0.74	0.79	0.85	0.88	0.91	0.95	0.97	
	0.30		0.53	0.63	0.69	0.74	0.81	0.85	0.88	0.92	0.95	
	0.20		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93	
0.00	0.00	0.00	0.46	0.56	0.63	0.67	0.74	0.78	0.81	0.85	0.88	
Rating:31W 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	0.92	0.75	0.63	0.54	0.43	0.36	0.30	0.23	0.19	
	0.30		0.77	0.64	0.55	0.48	0.39	0.33	0.28	0.22	0.18	
	0.20		0.66	0.56	0.49	0.43	0.36	0.30	0.26	0.21	0.17	
0.50	0.50	0.20	0.89	0.72	0.60	0.52	0.41	0.37	0.29	0.22	0.18	
	0.30		0.75	0.62	0.53	0.47	0.37	0.31	0.27	0.21	0.17	
	0.20		0.65	0.55	0.48	0.42	0.35	0.29	0.25	0.20	0.17	
0.30	0.50	0.20	0.86	0.69	0.58	0.50	0.39	0.32	0.27	0.21	0.17	
	0.30		0.73	0.60	0.52	0.45	0.36	0.30	0.26	0.20	0.16	
	0.20		0.64	0.54	0.47	0.41	0.33	0.28	0.24	0.19	0.16	
0.00	0.00	0.00	0.53	0.44	0.37	0.32	0.26	0.21	0.18	0.14	0.12	
Rating:31W 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	0.16	0.18	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	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	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	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	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	0.07	0.08	0.10	0.12	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:31W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												