

Report No.: 1

Test Time: 30.01.2020 14:48

Luminaire Property

Luminaire Manufacturer:

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

Luminous Length (mm): 220 mm

Luminous Width (mm): 174 mm

Luminous Height (mm): 338 mm

Voltage: 221.1 V

Current: 0.854 A

Power: 201.51 W

Power Factor: 0.980

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 28663.1 lm

Measurement Flux: 28663.1 lm

Efficiency: 100%

Downward Ratio: 95%

Upward Ratio: 5%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 58.9, 58.3, 61.7, 62.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 30.4, 28.7, 30.7, 30.8

Luminaire Efficacy Rating (LER): 142.29

Central Intensity: 62338.07 cd

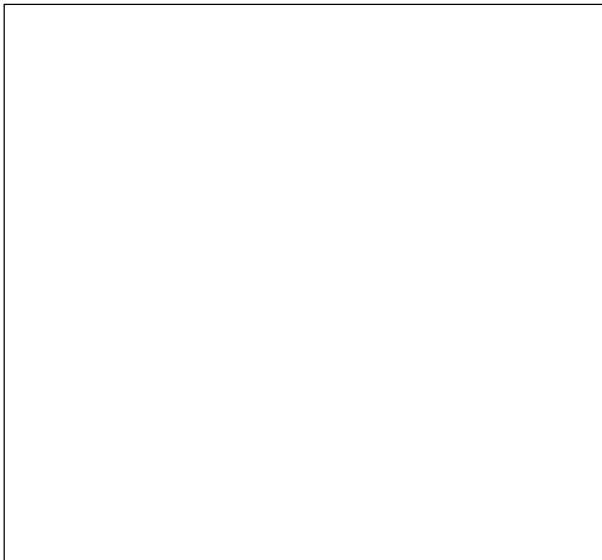
Max. Intensity: 64133.04 cd

Pos of Max. Intensity: H315 V1

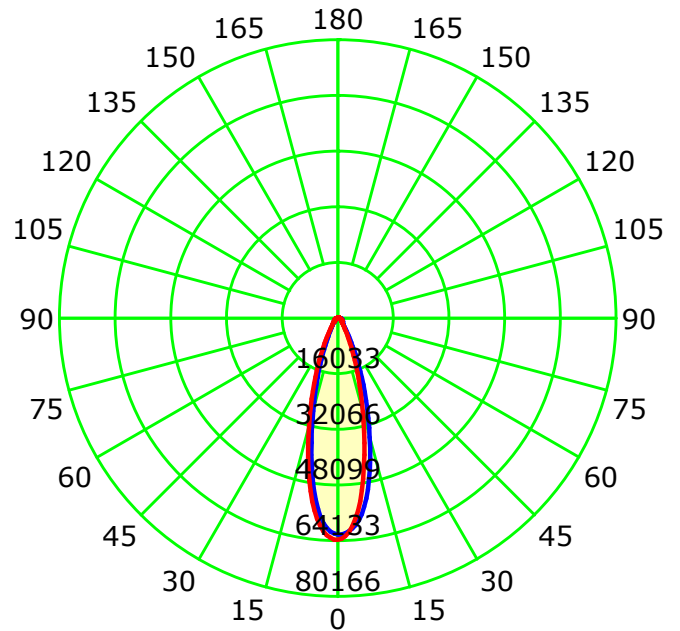
S/MH(C0/C180): 0.50

S/MH(C90/C270): 0.48

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:1.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

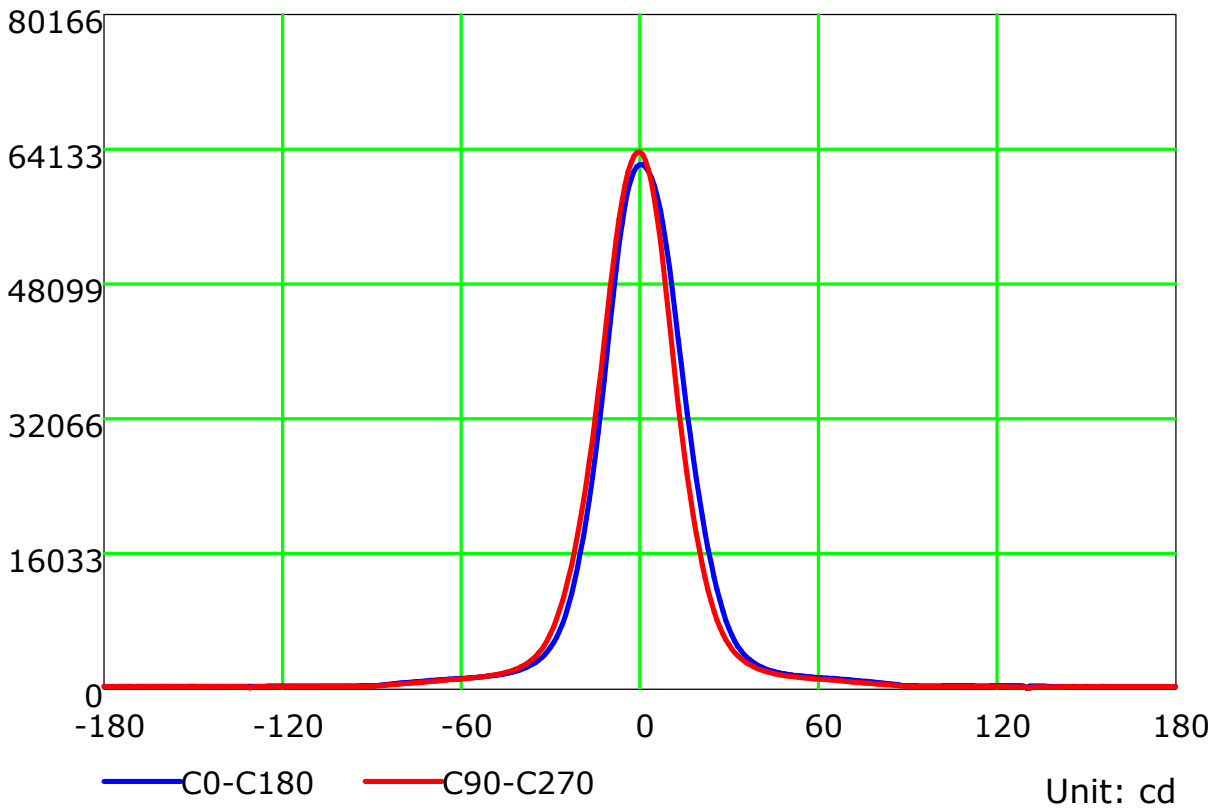
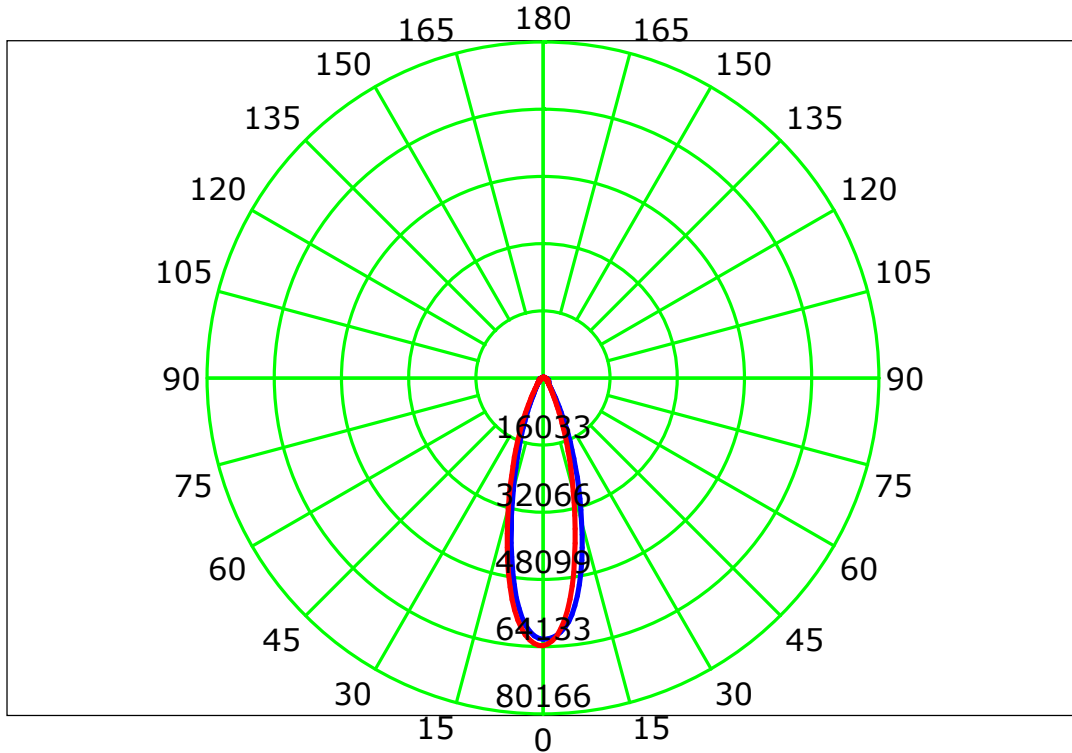
Temperature:

Humidity:

Operator:

Inspector:

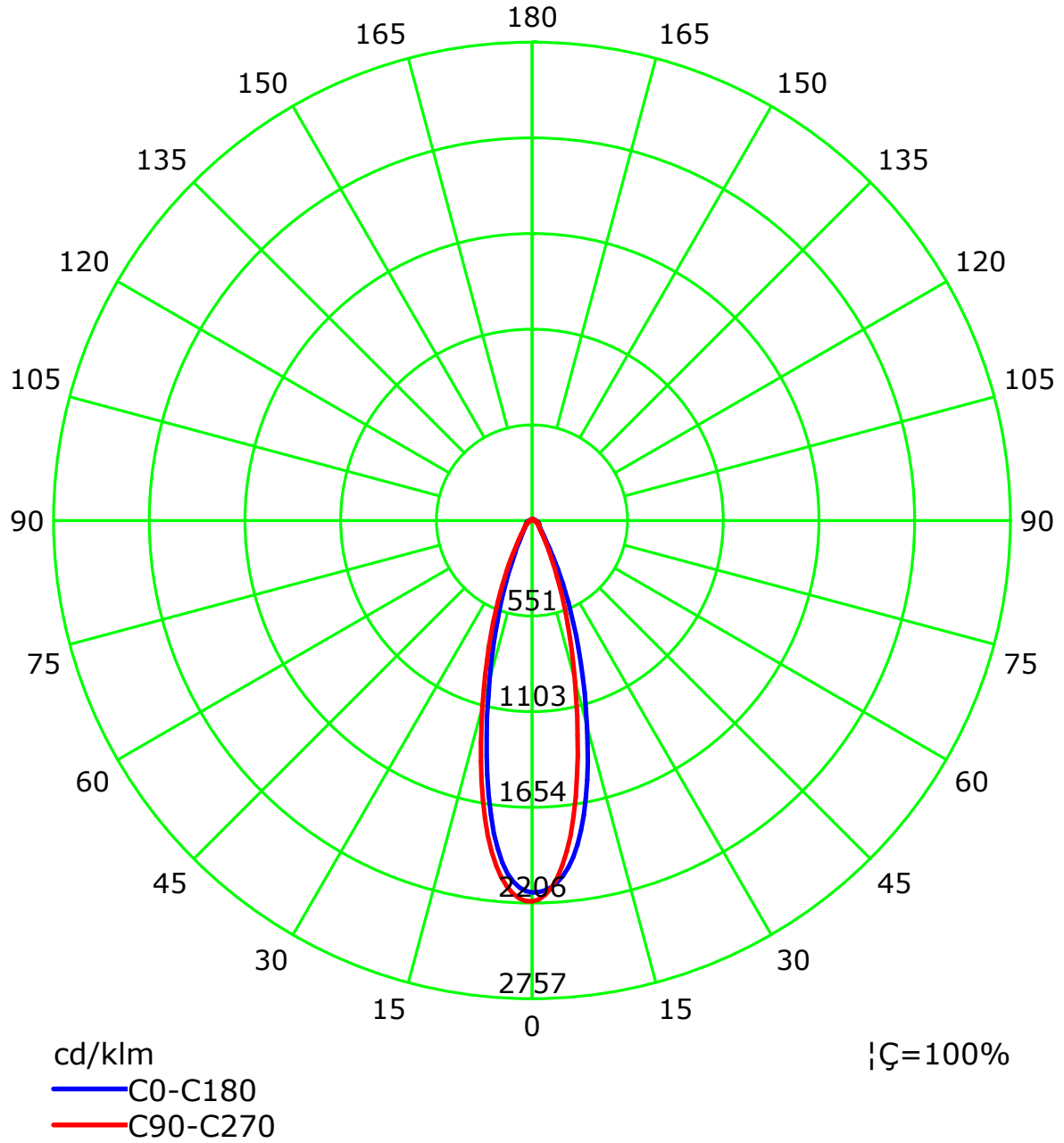
Luminous Intensity Distribution Curve



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)



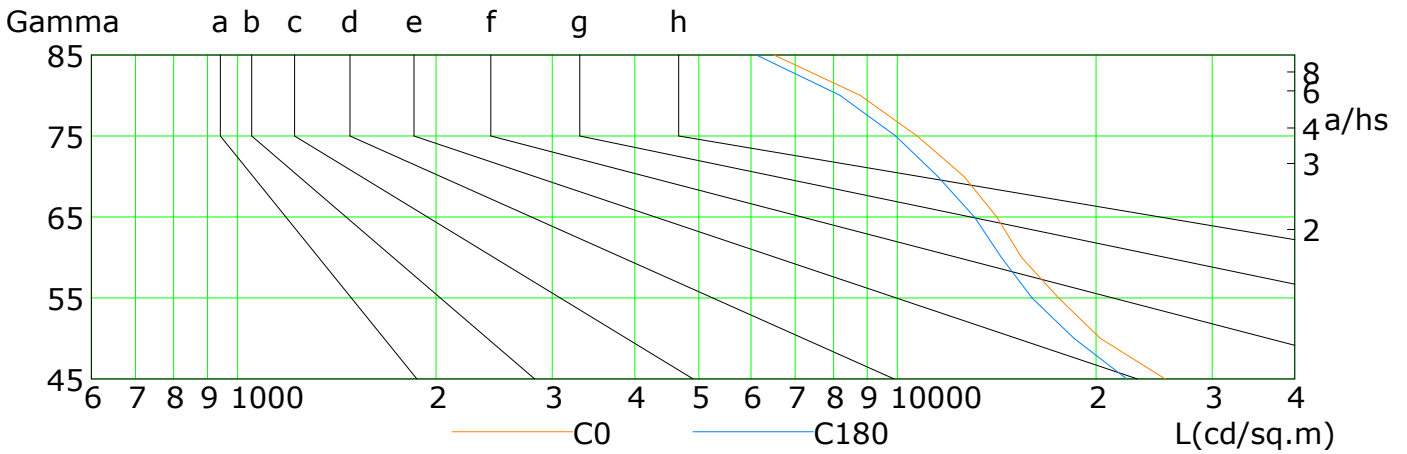
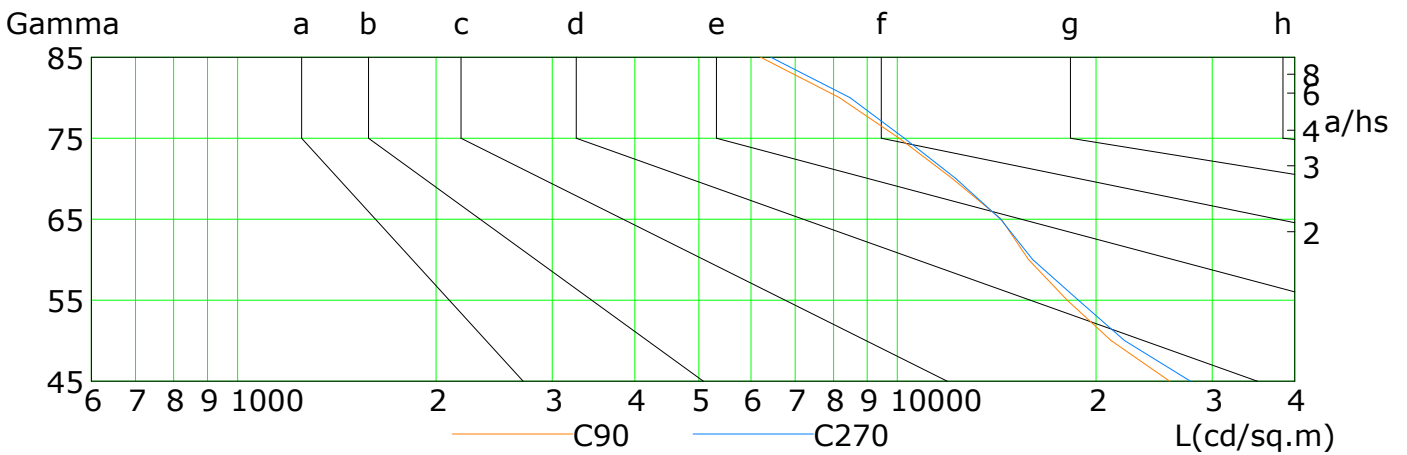
C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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)							
		2000	1000	500	<=300				
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

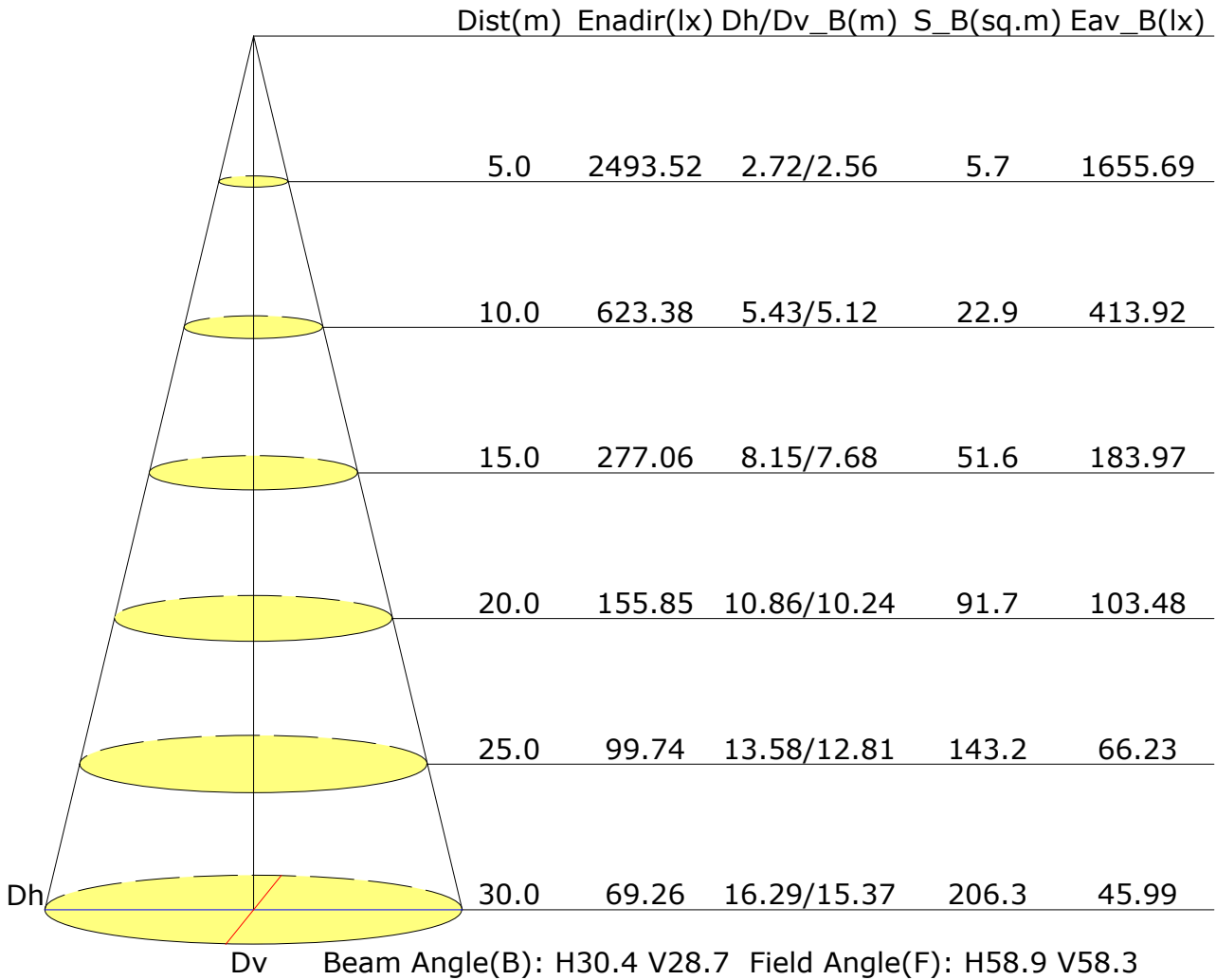


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	25446	20305	17548	15415	14153	12608	10714	8780	6500
C90	25856	21075	18080	15805	14371	12115	10067	8162	6207
C180	22262	18508	15994	14372	13086	11510	9938	8185	6117
C270	27818	22099	18814	16031	14343	12260	10245	8469	6431

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	18.8	19.6	19.1	19.9	20.2	18.5	19.4	18.8	19.7	20.0
3H	20.0	20.8	20.4	21.2	21.5	19.6	20.4	20.0	20.8	21.1
4H	20.6	21.4	21.0	21.8	22.1	20.2	20.9	20.6	21.3	21.6
6H	21.2	21.9	21.6	22.3	22.7	20.6	21.3	21.0	21.7	22.1
8H	21.4	22.1	21.8	22.5	22.9	20.8	21.5	21.2	21.9	22.3
12H	21.6	22.2	22.0	22.6	23.1	21.0	21.6	21.4	22.0	22.4
X=4H Y=2H	19.1	19.9	19.5	20.2	20.6	18.9	19.7	19.3	20.0	20.4
3H	20.6	21.3	21.1	21.7	22.1	20.3	20.9	20.7	21.3	21.8
4H	21.4	22.0	21.8	22.4	22.9	20.9	21.5	21.4	21.9	22.4
6H	22.1	22.6	22.6	23.0	23.5	21.5	22.0	22.0	22.5	23.0
8H	22.3	22.8	22.9	23.3	23.8	21.8	22.3	22.3	22.7	23.3
12H	22.6	23.0	23.1	23.5	24.1	22.0	22.4	22.5	22.9	23.5
X=8H Y=4H	21.6	22.1	22.1	22.6	23.1	21.2	21.7	21.7	22.2	22.7
6H	22.4	22.8	23.0	23.3	23.9	21.9	22.3	22.5	22.9	23.4
8H	22.8	23.2	23.4	23.7	24.3	22.3	22.6	22.9	23.2	23.8
12H	23.1	23.5	23.7	24.0	24.6	22.6	22.9	23.2	23.5	24.1
X=12H Y=4H	21.6	22.0	22.1	22.5	23.1	21.2	21.6	21.7	22.1	22.7
6H	22.5	22.8	23.1	23.4	24.0	22.0	22.4	22.6	22.9	23.5
8H	22.9	23.2	23.5	23.8	24.4	22.4	22.7	23.0	23.3	23.9
Variations with the observer position at spacings:										
S=1.0H	+0.6/-0.4					+0.8/-0.4				
S=1.5H	+1.4/-0.7					+1.6/-0.8				
S=2.0H	+2.3/-1.0					+2.6/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 28663lm ($8\log(F/F_0) = 11.7$).

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 = 0.75									
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	0.81	0.86	0.91	0.94	0.98	1.01	1.03	1.06	1.08	
	0.30		0.76	0.82	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	0.84	0.88	0.91	0.92	0.95	0.96	
	0.20		0.71	0.76	0.79	0.82	0.86	0.88	0.91	0.93	0.95	
0.00	0.00	0.00	0.68	0.73	0.76	0.78	0.82	0.84	0.86	0.88	0.89	
<p>Rating:202W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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	0.63	0.53	0.45	0.40	0.32	0.27	0.23	0.18	0.15
	0.30		0.53	0.45	0.39	0.35	0.29	0.25	0.21	0.17	0.14
	0.20		0.45	0.39	0.35	0.31	0.26	0.23	0.20	0.16	0.14
0.50	0.50	0.20	0.59	0.49	0.42	0.37	0.30	0.28	0.21	0.17	0.14
	0.30		0.50	0.42	0.37	0.33	0.27	0.23	0.20	0.16	0.13
	0.20		0.43	0.38	0.33	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	0.19	0.15	0.13
	0.30		0.48	0.40	0.35	0.31	0.25	0.21	0.18	0.15	0.12
	0.20		0.42	0.36	0.32	0.28	0.23	0.20	0.17	0.14	0.12
0.00	0.00	0.00	0.28	0.23	0.20	0.18	0.14	0.12	0.11	0.08	0.07
<p>Rating:202W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

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	0.19	0.20	0.21	0.22	0.24	0.25	0.25	0.26	0.26
	0.30		0.14	0.16	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	0.19	0.20	0.22	0.23
0.50	0.50	0.20	0.18	0.20	0.21	0.22	0.23	0.24	0.24	0.25	0.25
	0.30		0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.24
	0.20		0.11	0.13	0.14	0.16	0.17	0.19	0.20	0.21	0.22
0.30	0.50	0.20	0.17	0.19	0.20	0.21	0.22	0.23	0.23	0.24	0.24
	0.30		0.14	0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23
	0.20		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.21	0.22
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:202W Photometrically tested without ceiling board.
 Multiply UF values by service correction factors
 Calculate in accordance with CIBSE Technical Memorandum NO.5 1980