

Report No.: 1

Test Time: 17.01.2020 15:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 DALI 44LED 800W 5000K 60x150gr.

Luminous Length (mm): 455 mm

Luminous Width (mm): 345 mm

Luminous Height (mm): 695 mm

Voltage: 220.8 V

Current: 3.924 A

Power: 801.86 W

Power Factor: 0.989

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 115693.1 lm

Measurement Flux: 115693.1 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 104.9, 141.7, 126.7, 125.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 44.3, 131.2, 82.4, 58.1

Luminaire Efficacy Rating (LER): 144.33

Central Intensity: 30893.51 cd

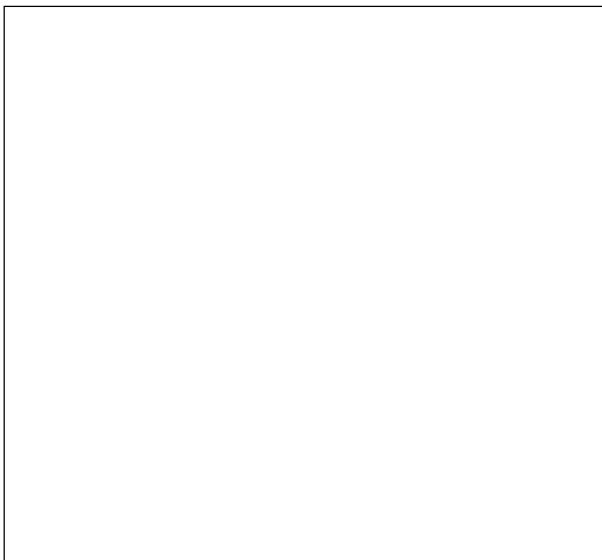
Max. Intensity: 66819.32 cd

Pos of Max. Intensity: H135 V35

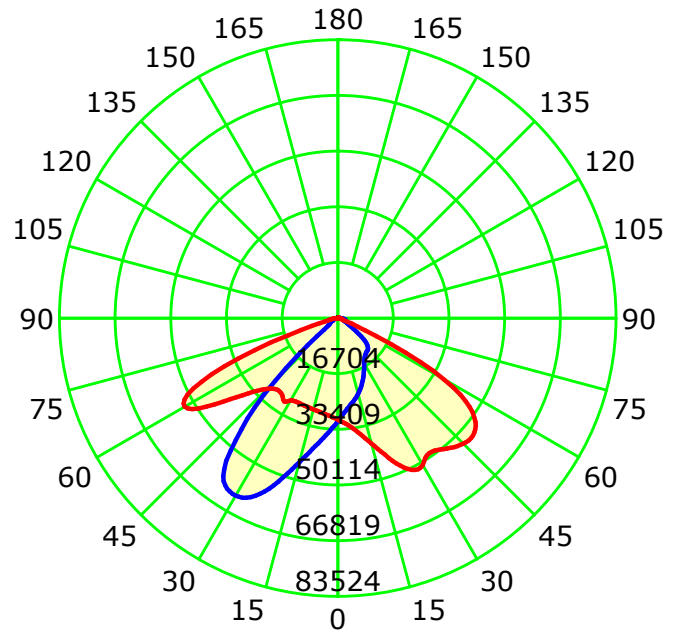
S/MH(C0/C180): 1.61

S/MH(C90/C270): 1.94

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

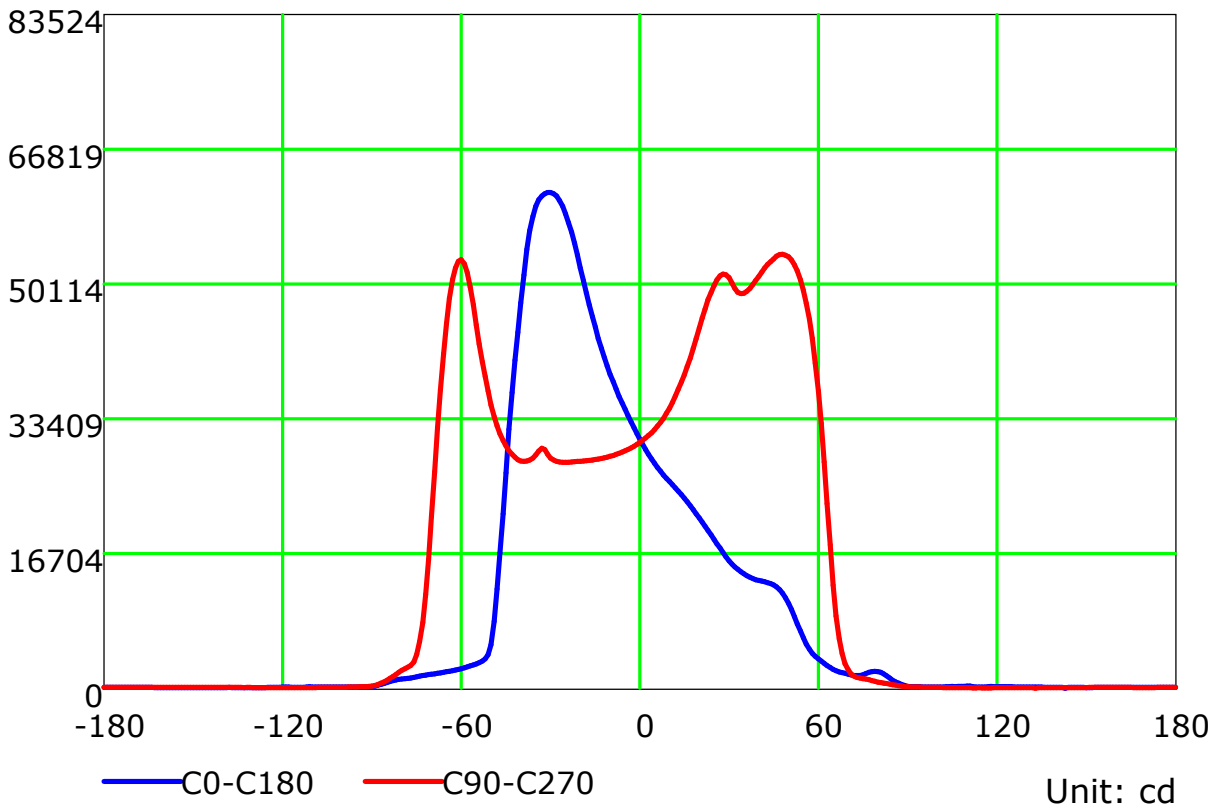
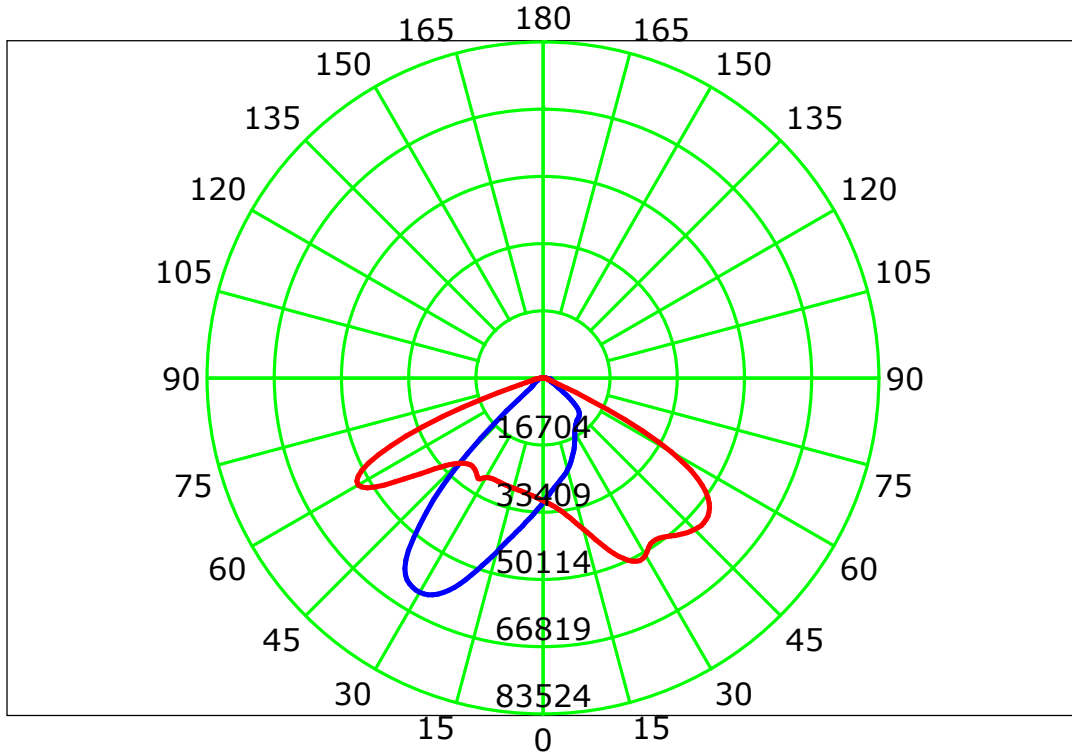
Temperature:

Humidity:

Operator:

Inspector:

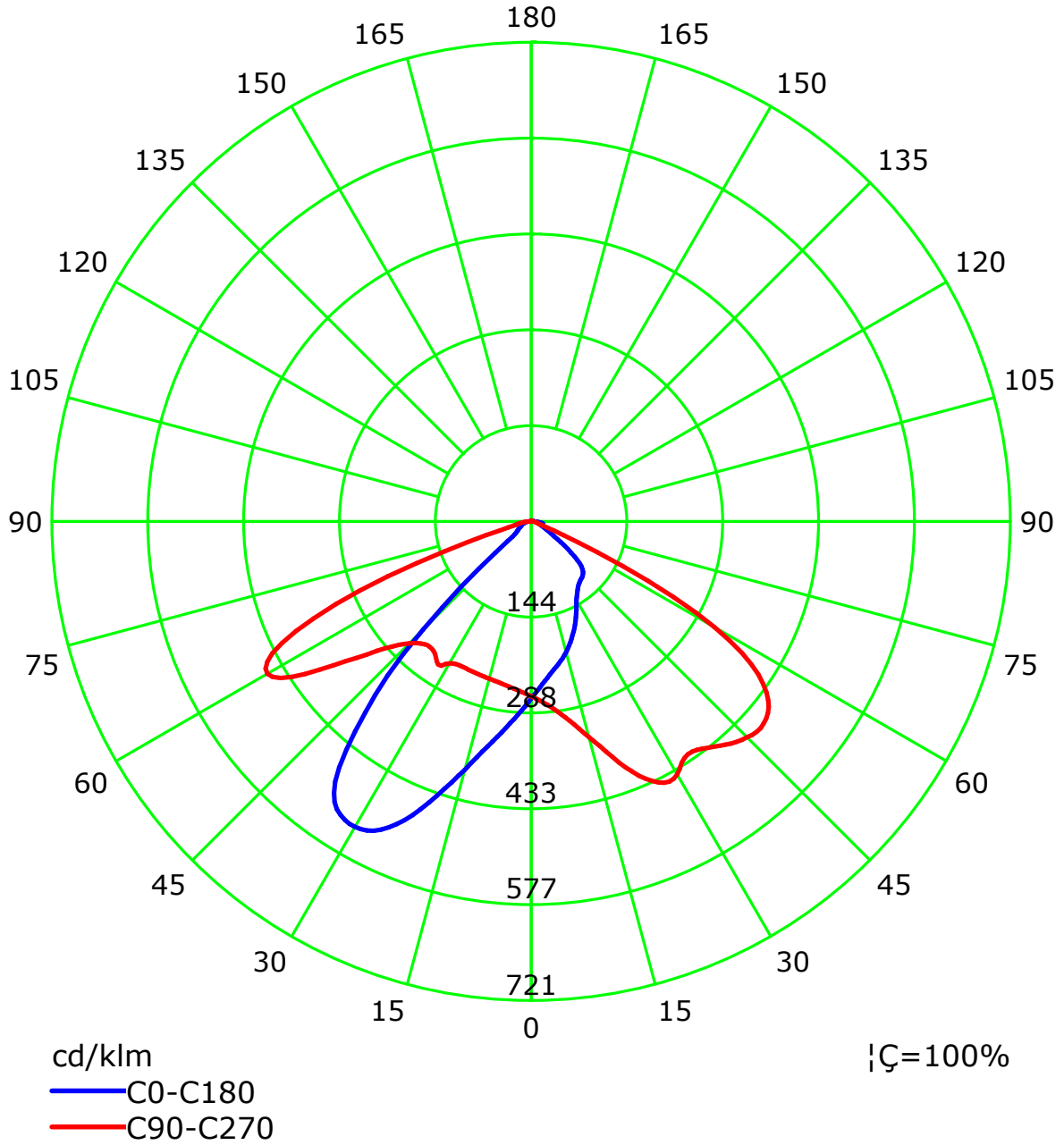
Luminous Intensity Distribution Curve



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)



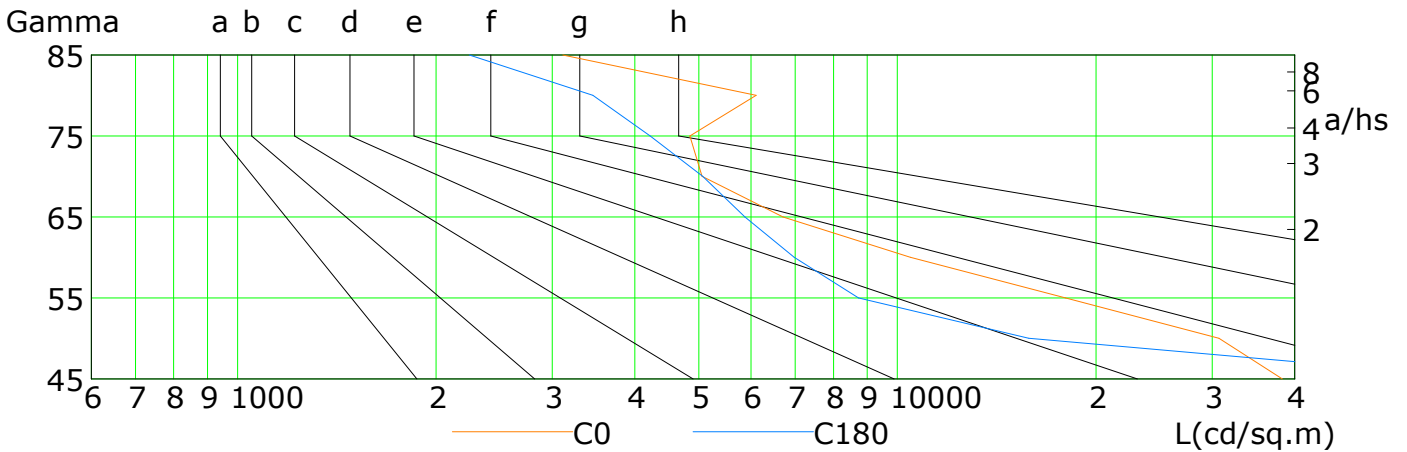
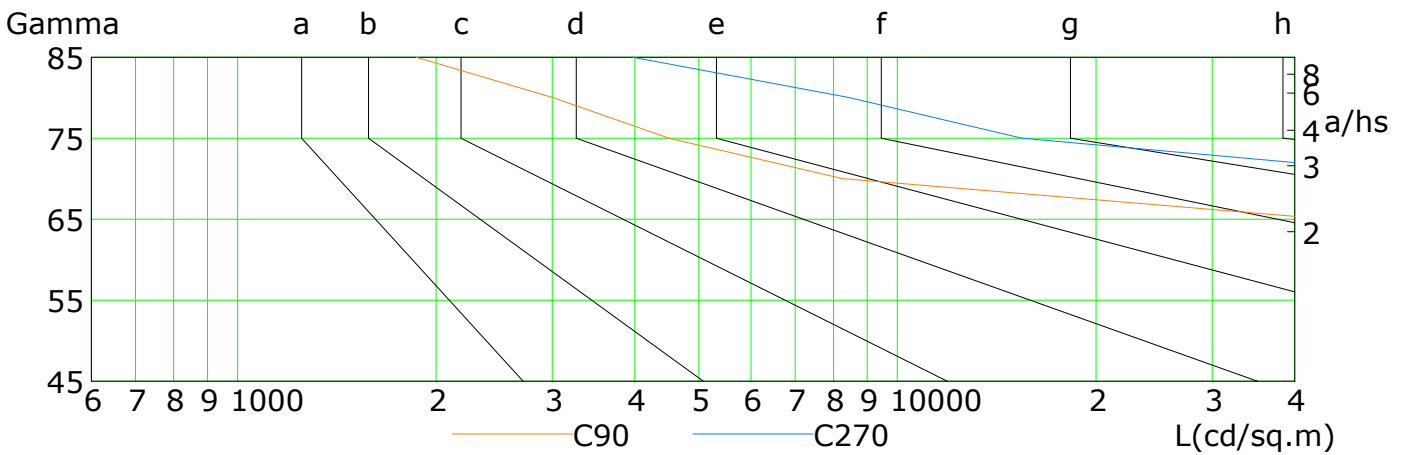
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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	38324	30712	17987	10462	6706	5057	4848	6111	3110
C90	189749	187969	172318	128933	45174	8251	4510	3005	1864
C180	79830	15816	8731	6973	5873	5066	4218	3457	2245
C270	107096	123404	157288	185708	159458	76371	15456	8458	3973

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

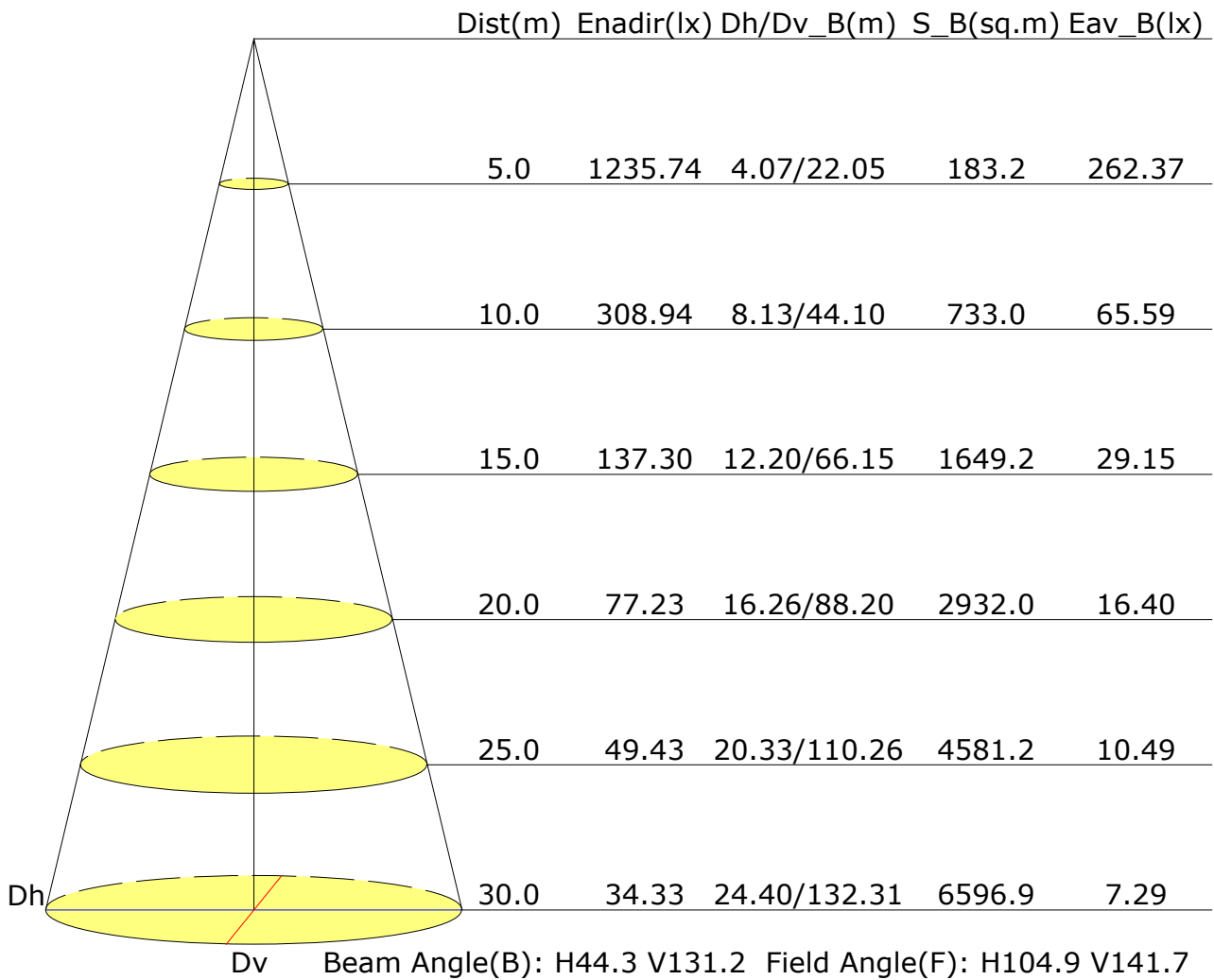
Test Device: LSG-1800B

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	20.5	21.8	20.8	22.1	22.3	29.9	31.2	30.2	31.5	31.7
3H	20.6	21.8	20.9	22.0	22.3	30.8	32.0	31.2	32.3	32.6
4H	20.6	21.7	21.0	22.0	22.3	30.8	31.9	31.2	32.2	32.5
6H	20.8	21.8	21.2	22.1	22.5	30.7	31.8	31.1	32.1	32.4
8H	20.9	21.9	21.2	22.2	22.5	30.7	31.7	31.1	32.0	32.4
12H	20.9	21.9	21.3	22.2	22.5	30.7	31.6	31.1	31.9	32.3
X=4H Y=2H	21.8	22.9	22.1	23.2	23.5	29.7	30.8	30.1	31.1	31.5
3H	21.8	22.8	22.2	23.1	23.5	30.7	31.7	31.1	32.0	32.3
4H	21.9	22.7	22.3	23.1	23.5	30.7	31.5	31.1	31.9	32.3
6H	22.1	22.8	22.5	23.2	23.6	30.6	31.4	31.1	31.8	32.2
8H	22.2	22.8	22.6	23.3	23.7	30.6	31.3	31.1	31.7	32.1
12H	22.2	22.8	22.7	23.3	23.7	30.6	31.2	31.0	31.6	32.1
X=8H Y=4H	22.0	22.7	22.4	23.1	23.5	30.6	31.3	31.0	31.7	32.1
6H	22.2	22.7	22.7	23.2	23.7	30.5	31.1	31.0	31.5	32.0
8H	22.3	22.8	22.8	23.3	23.8	30.5	31.0	31.0	31.5	32.0
12H	22.4	22.8	22.9	23.3	23.8	30.5	30.9	31.0	31.4	31.9
X=12H Y=4H	22.0	22.6	22.4	23.0	23.5	30.6	31.2	31.0	31.6	32.0
6H	22.2	22.7	22.7	23.1	23.6	30.5	31.0	31.0	31.5	32.0
8H	22.3	22.7	22.8	23.2	23.7	30.5	30.9	31.0	31.4	31.9
Variations with the observer position at spacings:										
S=1.0H	+0.5/-1.3					+0.7/-0.7				
S=1.5H	+1.6/-3.9					+2.4/-2.6				
S=2.0H	+2.4/-5.6					+4.2/-5.8				

Calculate in accordance with CIE Pub.117. The table is revised with 115693lm ($8\log(F/F_0) = 16.5$).

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 = 1.75									
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	NA	0.75	0.82	0.87	0.94	0.98	1.01	1.04	1.06	
	0.30		NA	0.69	0.76	0.81	0.89	0.93	0.97	1.01	1.04	
	0.20		NA	0.64	0.71	0.77	0.85	0.90	0.93	0.98	1.01	
0.50	0.50	0.20	NA	0.73	0.80	0.85	0.91	0.94	0.97	1.00	1.02	
	0.30		NA	0.68	0.75	0.80	0.87	0.91	0.94	0.97	1.00	
	0.20		NA	0.63	0.70	0.76	0.83	0.88	0.91	0.95	0.98	
0.30	0.50	0.20	NA	0.71	0.78	0.82	0.88	0.91	0.93	0.96	0.98	
	0.30		NA	0.67	0.73	0.78	0.84	0.88	0.91	0.94	0.96	
	0.20		NA	0.63	0.69	0.75	0.81	0.86	0.88	0.92	0.95	
0.00	0.00	0.00	NA	0.60	0.67	0.72	0.78	0.82	0.84	0.88	0.90	
<p>Rating:802W 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 = 1.75									
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	NA	0.69	0.58	0.50	0.38	0.32	0.27	0.21	0.17	
	0.30		NA	0.59	0.51	0.44	0.35	0.29	0.25	0.20	0.16	
	0.20		NA	0.52	0.45	0.39	0.32	0.27	0.23	0.18	0.15	
0.50	0.50	0.20	NA	0.66	0.55	0.47	0.36	0.34	0.25	0.19	0.16	
	0.30		NA	0.58	0.49	0.42	0.33	0.28	0.24	0.18	0.15	
	0.20		NA	0.51	0.44	0.38	0.31	0.26	0.22	0.18	0.15	
0.30	0.50	0.20	NA	0.63	0.53	0.45	0.34	0.28	0.24	0.18	0.15	
	0.30		NA	0.56	0.47	0.41	0.32	0.26	0.23	0.17	0.14	
	0.20		NA	0.50	0.43	0.37	0.30	0.25	0.21	0.17	0.14	
0.00	0.00	0.00	0.99	0.39	0.33	0.28	0.21	0.18	0.15	0.12	0.09	
<p>Rating:802W 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 = 1.75									
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	NA	0.17	0.18	0.19	0.20	0.20	0.21	0.22	0.22	
	0.30		NA	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		NA	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	NA	0.17	0.17	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		NA	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		NA	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	NA	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		NA	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		NA	0.07	0.09	0.10	0.12	0.14	0.15	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	
<p>Rating:802W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												