

Report No.: 1

Test Time: 25.02.2020 11:20

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 63 44W 4000K opal

Number of Lamps: 1

Luminous Width (mm): 63

Voltage: 220.3 V

Power: 44.87 W

Luminous Length (mm): 850

Luminous Height (mm): 40

Current: 0.213 A

Power Factor: 0.958

Photometric Results

CIE Class: Direct

Measurement Flux: 4582.3 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.0, 159.7, 159.7, 159.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 105.8, 103.4, 104.7, 104.7

Luminaire Efficacy Rating (LER): 102.17

Max. Intensity: 1733.32 cd

S/MH(C0/C180): 1.21

Total Rated Lamp Lumens: 4582.3 lm

Efficiency: 100%

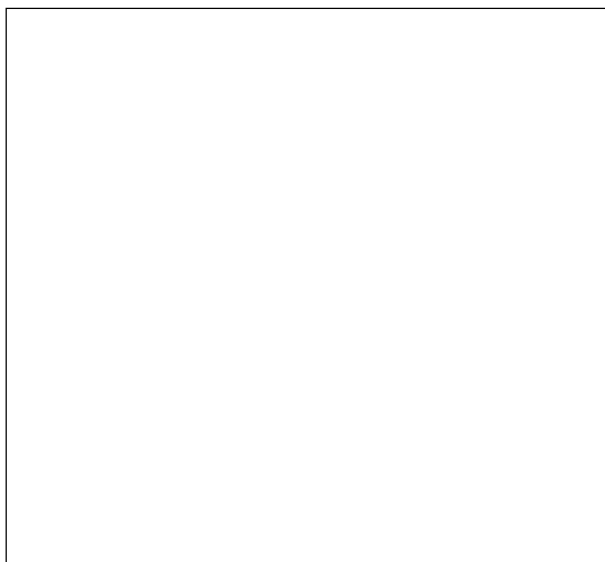
Upward Ratio: 1%

Central Intensity: 1731.81 cd

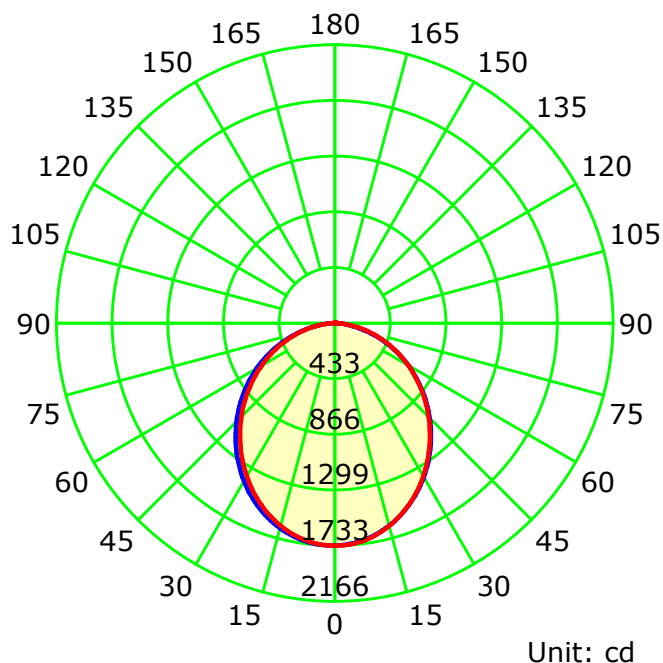
Pos of Max. Intensity: H90 V0

S/MH(C90/C270): 1.19

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

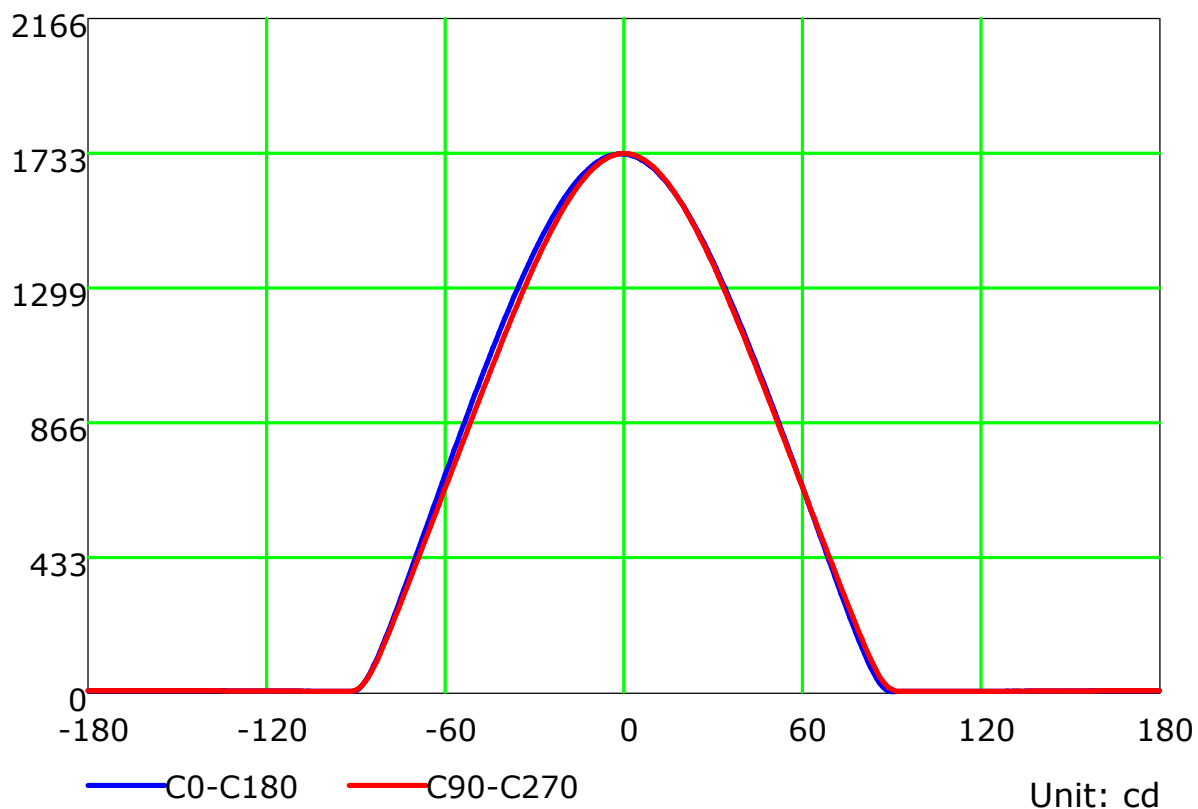
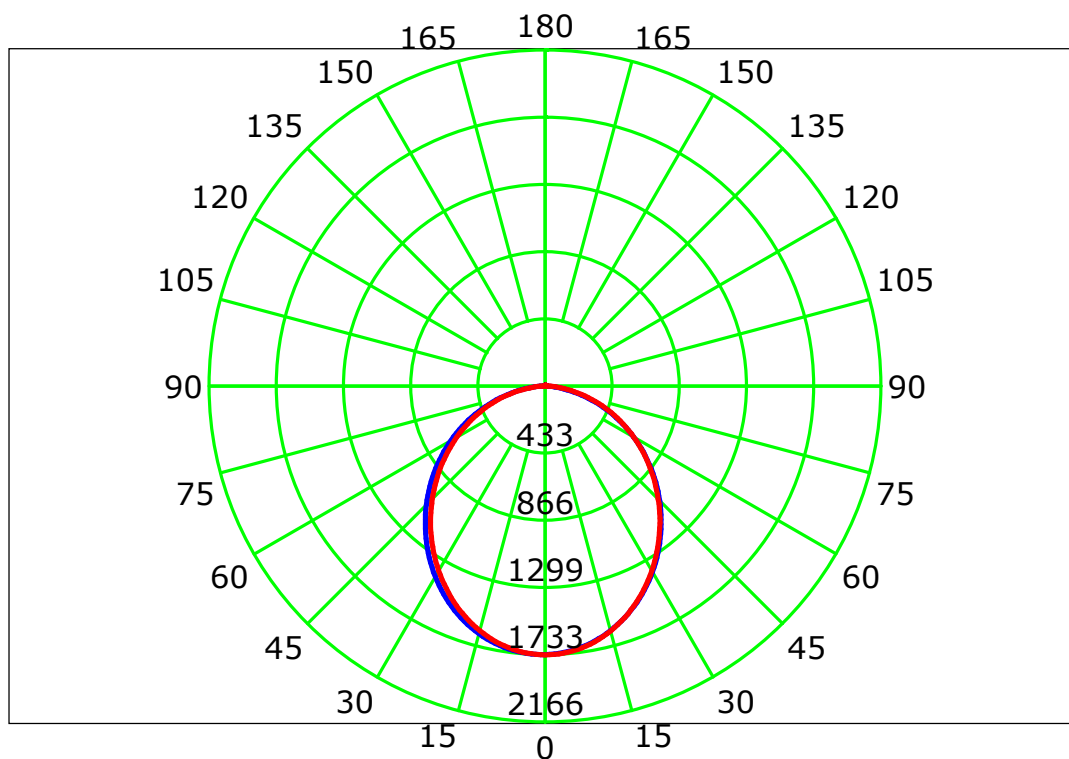
Test Device: LSG-1800B

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

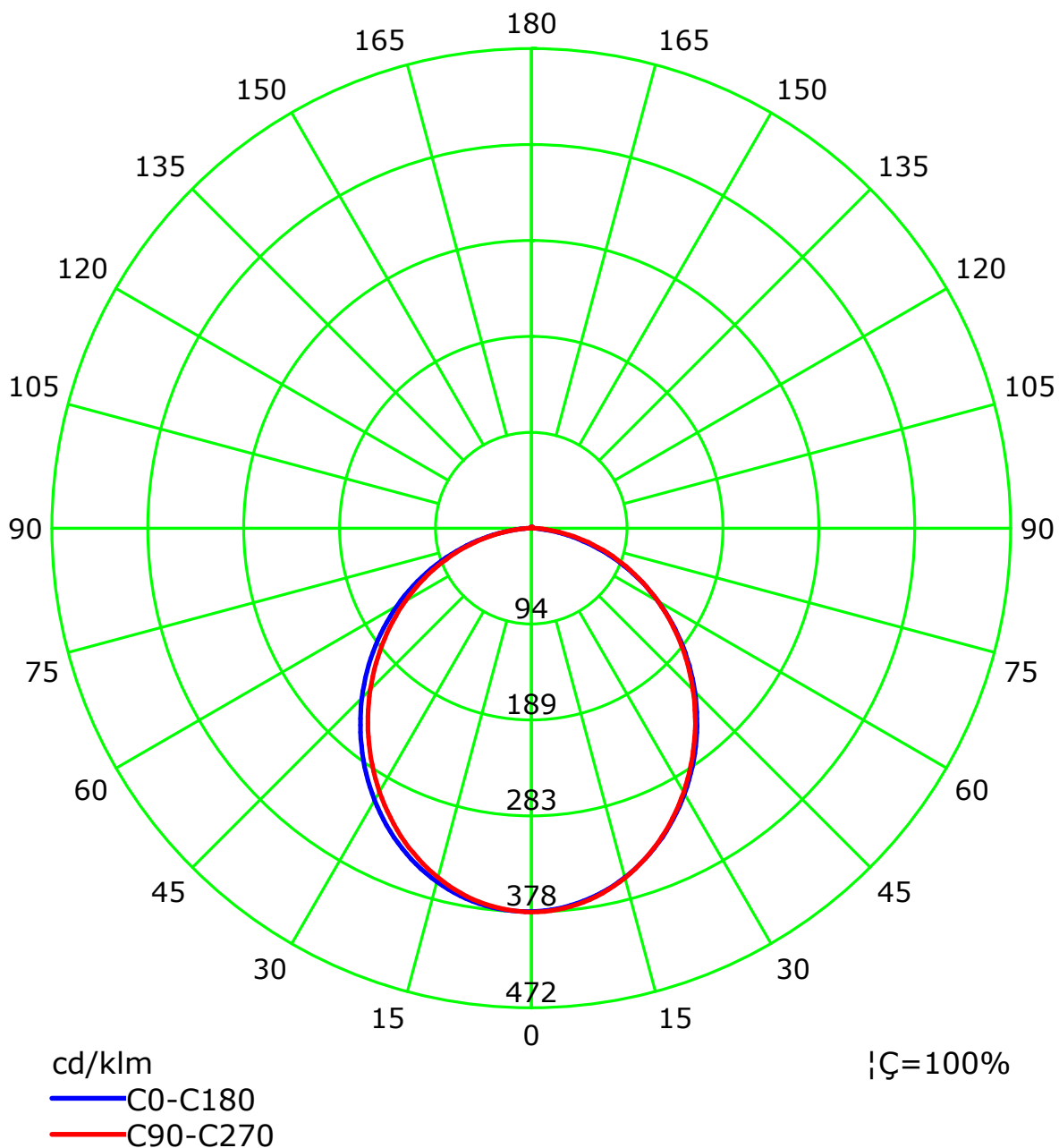
Test Device: LSG-1800B

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

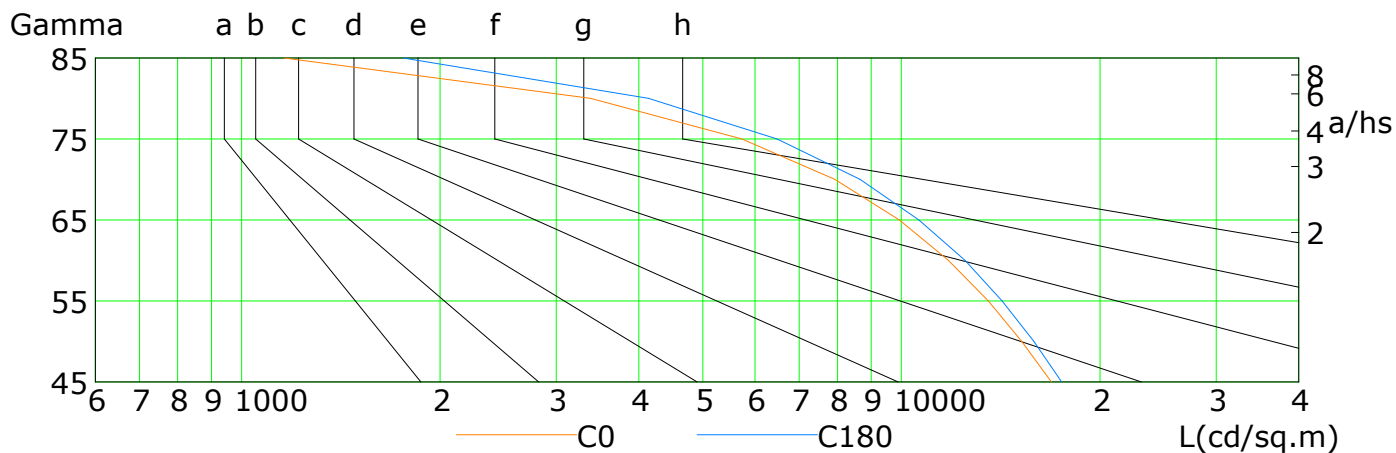
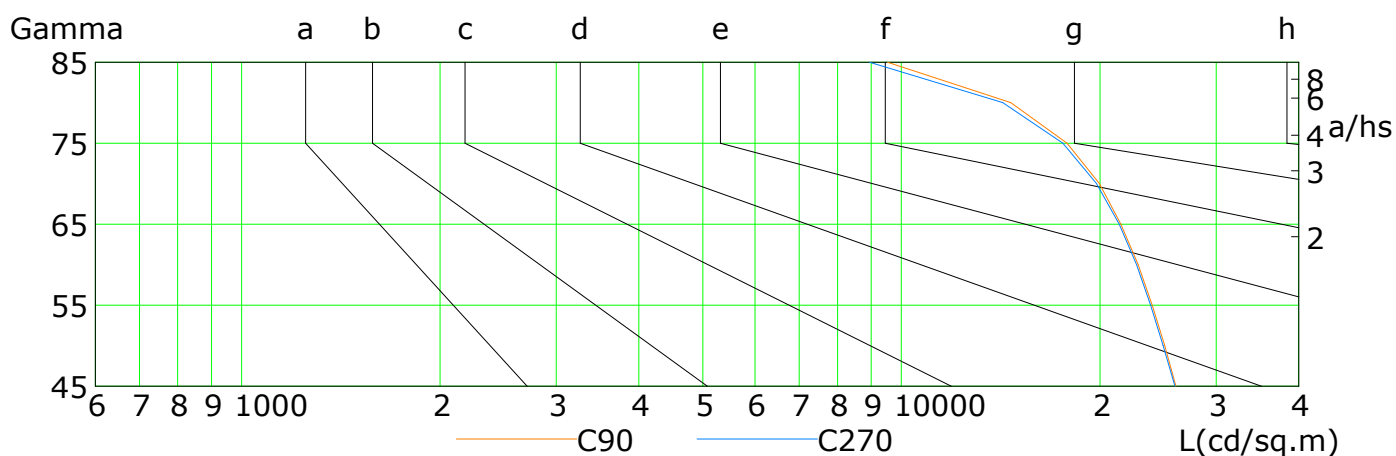
Humidity:

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	16888	15219	13548	11781	9925	7924	5731	3379	1161
C90	26055	25056	23989	22852	21517	19957	17822	14648	9525
C180	17501	15873	14206	12484	10629	8655	6483	4135	1759
C270	25984	24936	23867	22714	21398	19765	17571	14237	8954

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

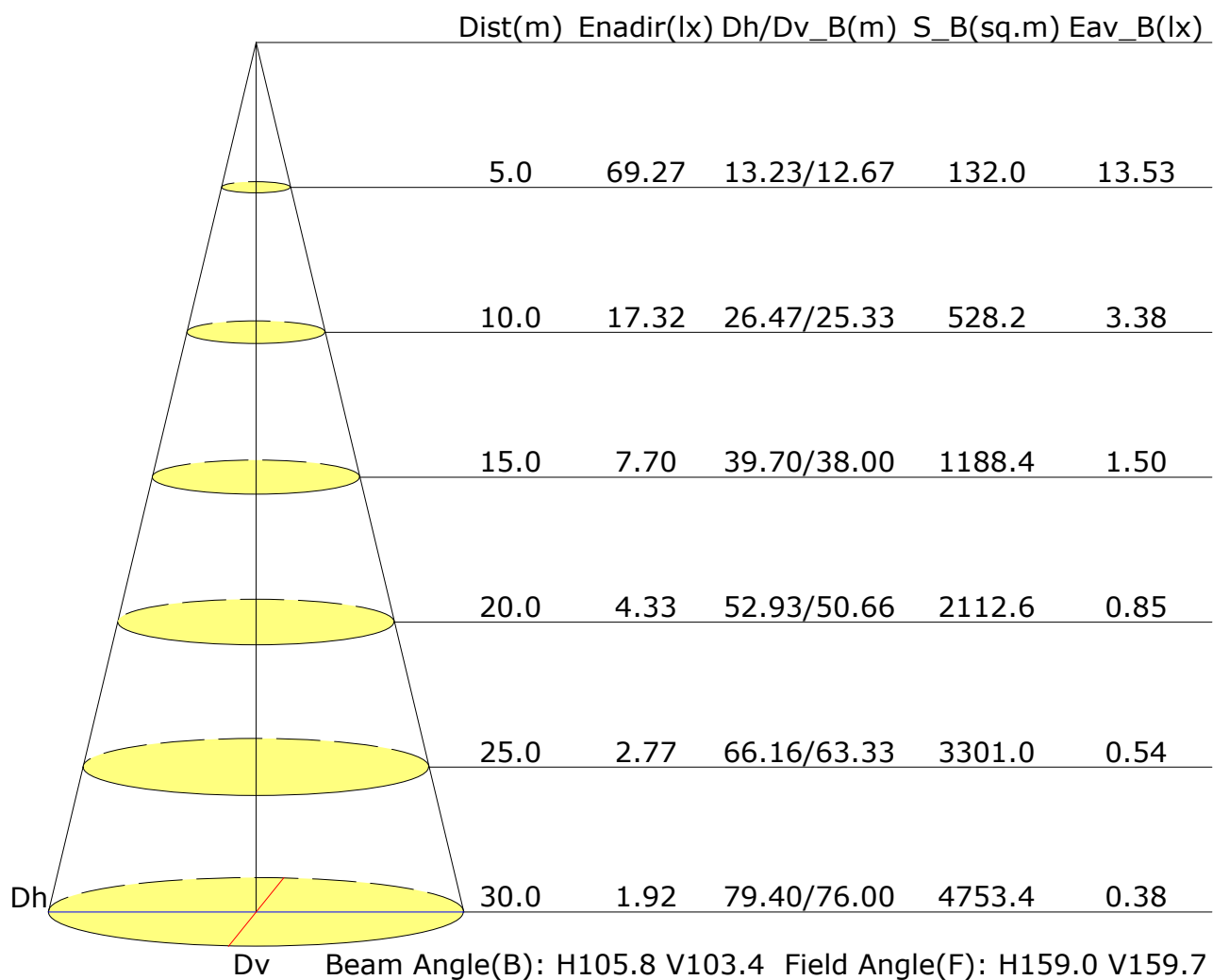
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Illuminance at a Distance



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:

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	23.0	21.9	23.2	23.5	22.7	24.1	23.0	24.3	24.6
3H	22.7	23.9	23.0	24.2	24.5	24.2	25.4	24.5	25.7	26.0
4H	23.0	24.2	23.4	24.5	24.8	24.7	25.9	25.1	26.2	26.5
6H	23.2	24.3	23.5	24.6	24.9	25.1	26.2	25.5	26.6	26.9
8H	23.2	24.2	23.6	24.6	24.9	25.2	26.3	25.6	26.6	27.0
12H	23.2	24.2	23.6	24.5	24.9	25.3	26.3	25.7	26.6	27.0
X=4H Y=2H	22.2	23.4	22.6	23.7	24.0	23.1	24.3	23.5	24.6	24.9
3H	23.4	24.4	23.8	24.8	25.1	24.7	25.7	25.1	26.1	26.4
4H	23.9	24.8	24.3	25.1	25.5	25.4	26.3	25.8	26.7	27.0
6H	24.1	24.9	24.5	25.3	25.7	25.9	26.7	26.3	27.1	27.5
8H	24.1	24.9	24.6	25.3	25.7	26.0	26.7	26.5	27.2	27.6
12H	24.1	24.8	24.6	25.2	25.7	26.1	26.8	26.6	27.2	27.6
X=8H Y=4H	24.1	24.8	24.5	25.2	25.7	25.5	26.2	25.9	26.6	27.1
6H	24.4	25.0	24.9	25.4	25.9	26.1	26.6	26.5	27.1	27.6
8H	24.5	25.0	25.0	25.5	26.0	26.2	26.8	26.7	27.2	27.7
12H	24.5	25.0	25.0	25.4	25.9	26.4	26.8	26.9	27.3	27.8
X=12H Y=4H	24.1	24.8	24.6	25.2	25.6	25.5	26.1	25.9	26.6	27.0
6H	24.4	25.0	24.9	25.4	25.9	26.1	26.6	26.5	27.0	27.5
8H	24.5	25.0	25.0	25.5	26.0	26.3	26.7	26.8	27.2	27.7
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.1/-0.1				
S=1.5H	+0.4/-0.7					+0.3/-0.4				
S=2.0H	+0.7/-1.3					+0.8/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 4582lm ($8\log(F/F_0) = 5.3$).

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 Test Lab:
 Test Type: TYPE C
 Temperature:
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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	0.58	0.68	0.75	0.80	0.88	0.93	0.96	1.01	1.03	
	0.30		0.50	0.60	0.68	0.73	0.82	0.87	0.91	0.96	1.00	
	0.20		0.44	0.55	0.62	0.68	0.76	0.82	0.87	0.93	0.97	
0.50	0.50	0.20	0.56	0.66	0.73	0.78	0.84	0.89	0.92	0.96	0.99	
	0.30		0.49	0.59	0.66	0.72	0.79	0.84	0.88	0.93	0.96	
	0.20		0.44	0.54	0.61	0.67	0.75	0.80	0.85	0.90	0.94	
0.30	0.50	0.20	0.54	0.64	0.70	0.75	0.81	0.86	0.89	0.93	0.95	
	0.30		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93	
	0.20		0.44	0.53	0.60	0.66	0.73	0.79	0.82	0.87	0.91	
0.00	0.00	0.00	0.41	0.51	0.58	0.63	0.70	0.75	0.78	0.83	0.86	
Rating:45W 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	0.98	0.81	0.69	0.60	0.48	0.40	0.34	0.26	0.21	
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.70	0.60	0.53	0.48	0.39	0.34	0.29	0.23	0.19	
0.50	0.50	0.20	0.95	0.78	0.66	0.57	0.46	0.41	0.32	0.25	0.20	
	0.30		0.80	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.19	
	0.20		0.69	0.60	0.52	0.47	0.38	0.33	0.28	0.22	0.19	
0.30	0.50	0.20	0.92	0.75	0.63	0.55	0.44	0.36	0.31	0.24	0.19	
	0.30		0.78	0.66	0.57	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.69	0.59	0.51	0.46	0.37	0.32	0.27	0.22	0.18	
0.00	0.00	0.00	0.58	0.49	0.42	0.37	0.30	0.25	0.21	0.17	0.14	
Rating:45W 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	0.17	0.18	0.19	0.20	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	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	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	0.08	0.10	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.19	0.20	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	0.09	0.11	0.13	0.14	0.15	0.16	
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:45W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												