

Report No.: 1

Test Time: 27.11.2019 15:12

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 50 (1200) 2x65LED 0.7A 55W 5000K K B opal

Luminous Length (mm): 1245

Luminous Width (mm): 55

Luminous Height (mm): 80

Voltage: 221.5 V

Current: 0.260 A

Power: 56.79 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Measurement Flux: 5280.4 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 5280.4 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 166.4, 161.4, 163.3, 163.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.1, 109.7, 111.8, 111.8

Luminaire Efficacy Rating (LER): 93.03

Central Intensity: 1830.93 cd

Max. Intensity: 1835.85 cd

Pos of Max. Intensity: H112.5 V2

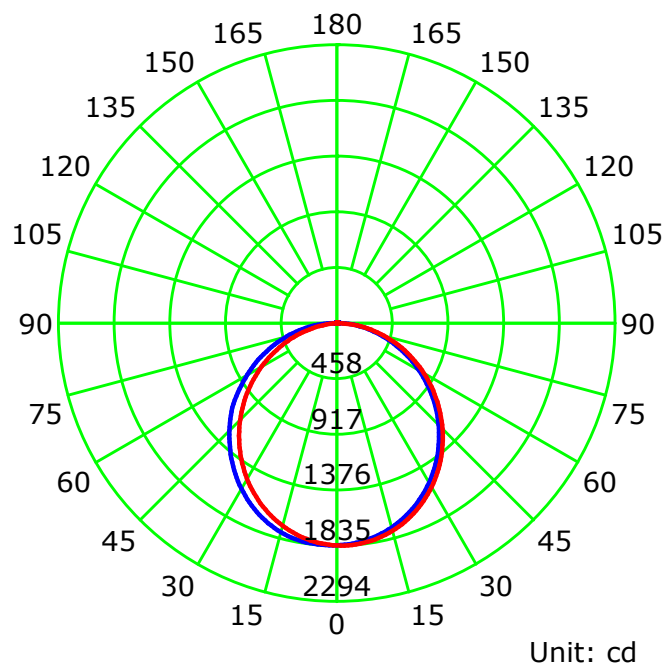
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.24

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

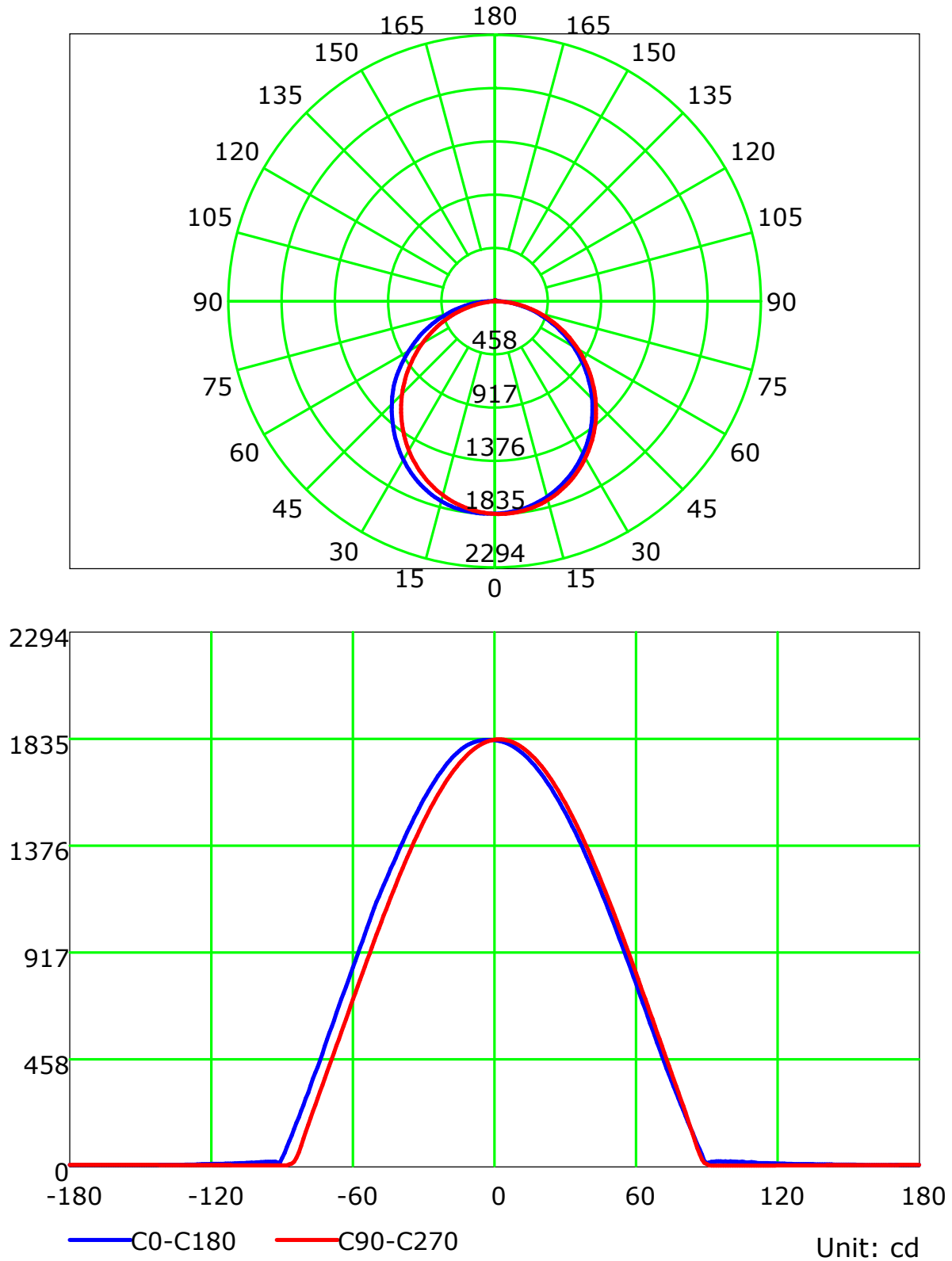
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

Test Type: TYPE C

Temperature:

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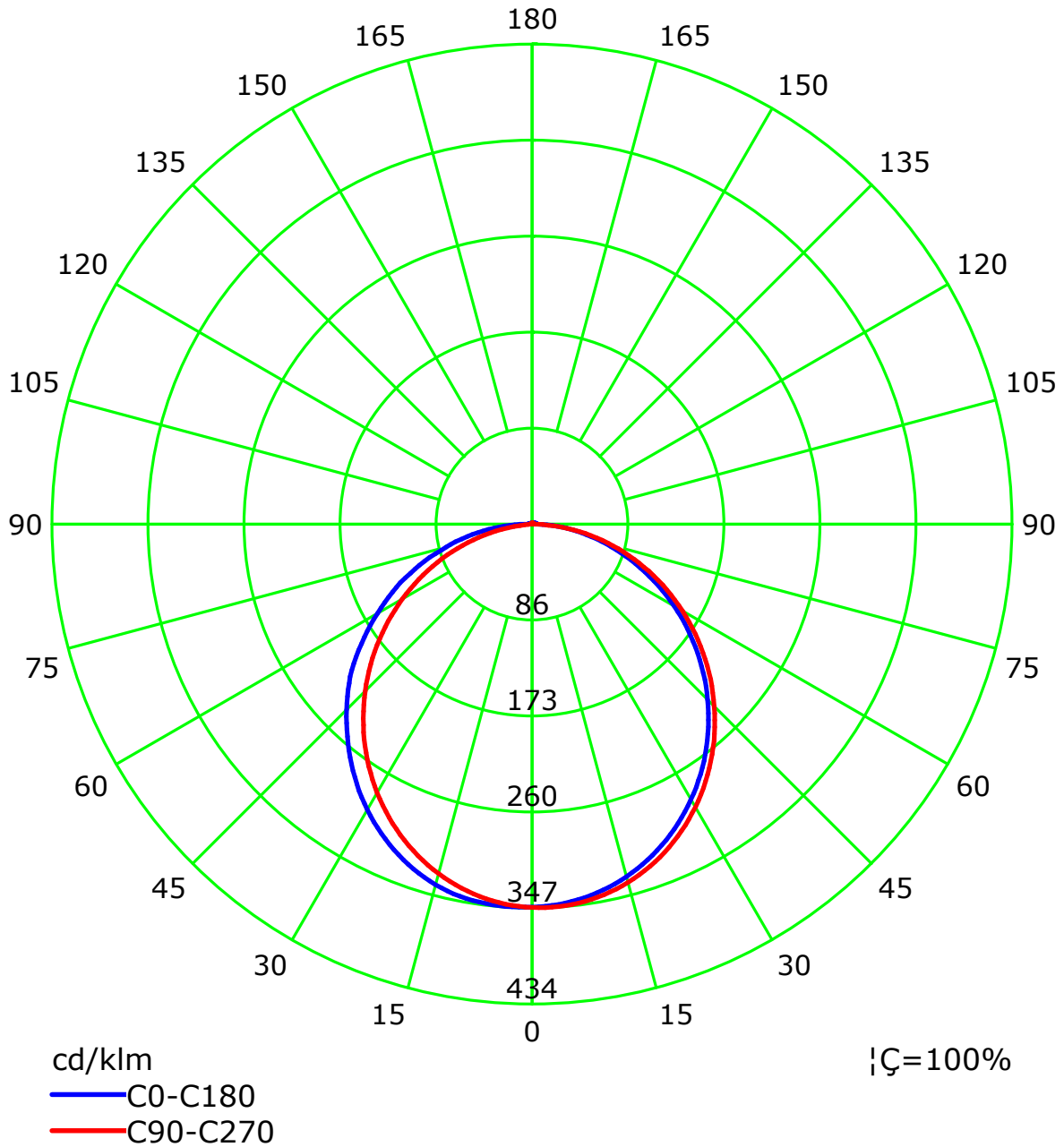
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

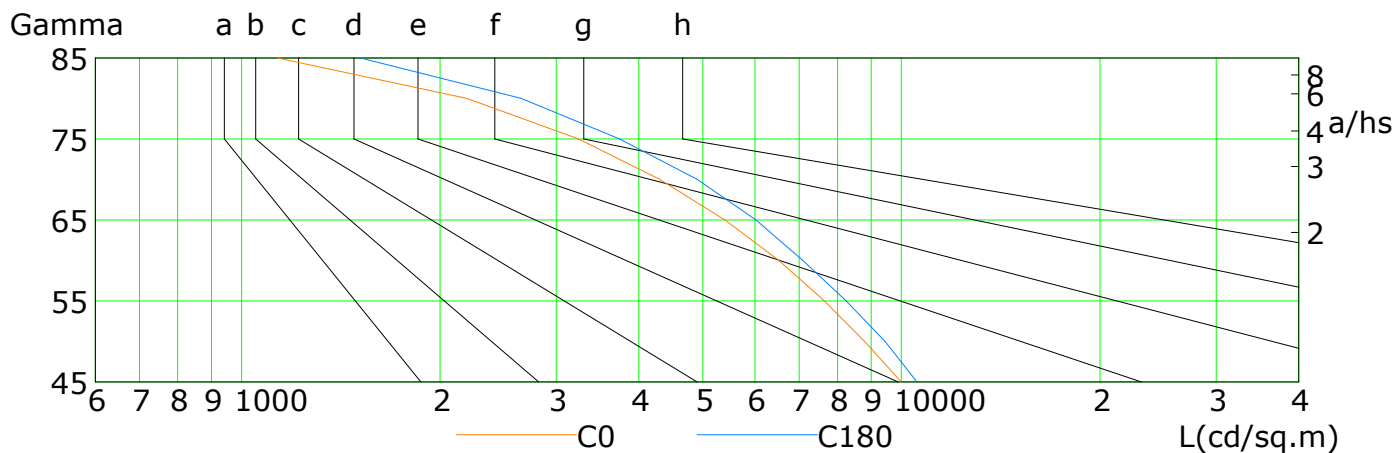
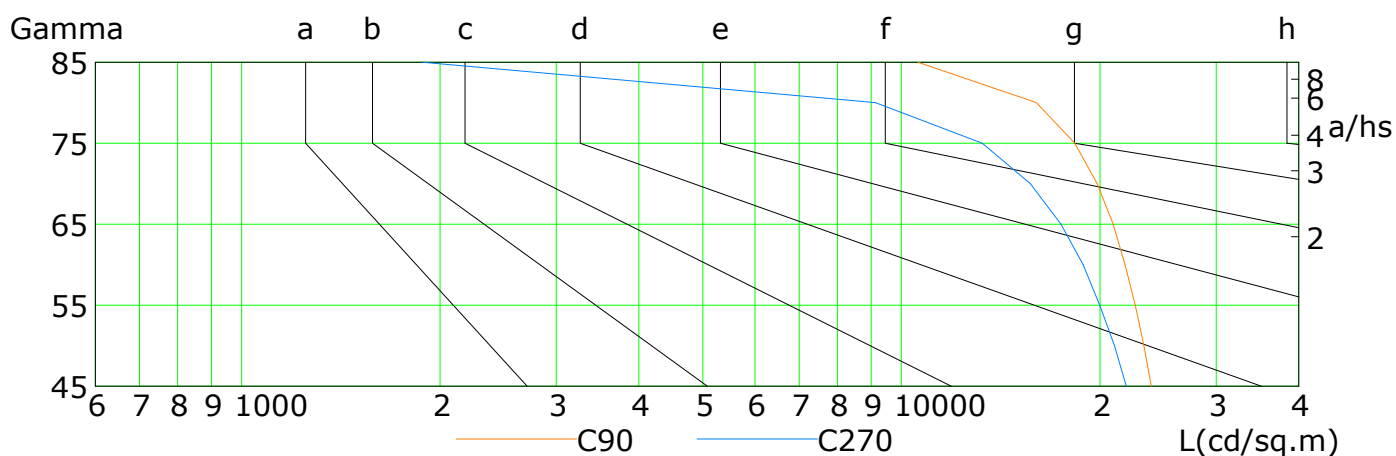
Luminous Intensity Distribution Curve(cd/klm)



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

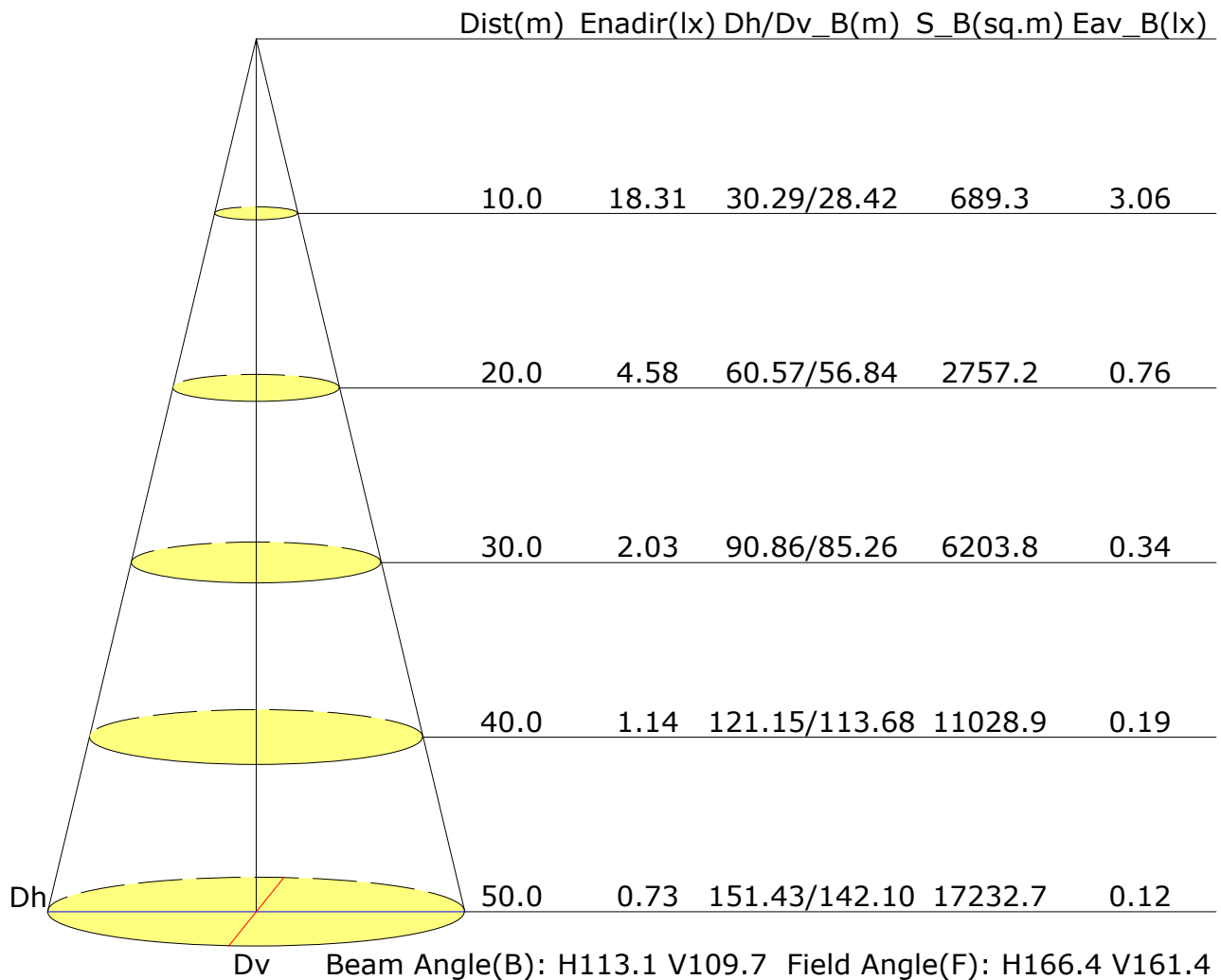


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	9992	8796	7648	6520	5400	4302	3243	2192	1133
C90	23907	23301	22608	21830	20940	19799	18310	16018	10597
C180	10555	9442	8247	7088	6019	4899	3741	2653	1513
C270	21913	21023	19989	18846	17459	15683	13260	9131	1883

C Plane (°):0.0-360.0: 22.5
 Test Lab:
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 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	19.7	21.1	20.0	21.4	21.6	21.6	23.0	21.9	23.3	23.5
3H	20.8	22.0	21.1	22.3	22.6	23.1	24.4	23.5	24.7	25.0
4H	21.2	22.3	21.5	22.7	23.0	23.7	24.9	24.1	25.2	25.6
6H	21.4	22.5	21.8	22.8	23.2	24.2	25.3	24.5	25.6	25.9
8H	21.4	22.5	21.8	22.9	23.2	24.3	25.4	24.7	25.7	26.0
12H	21.5	22.5	21.9	22.8	23.2	24.3	25.4	24.7	25.7	26.1
X=4H Y=2H	20.3	21.5	20.7	21.8	22.2	21.9	23.1	22.3	23.4	23.7
3H	21.6	22.6	22.0	22.9	23.3	23.5	24.6	23.9	24.9	25.3
4H	22.0	23.0	22.5	23.3	23.7	24.2	25.2	24.7	25.5	25.9
6H	22.4	23.2	22.8	23.6	24.0	24.7	25.6	25.2	26.0	26.4
8H	22.4	23.2	22.9	23.6	24.1	24.9	25.6	25.3	26.1	26.5
12H	22.5	23.2	23.0	23.6	24.1	25.0	25.7	25.4	26.1	26.5
X=8H Y=4H	22.3	23.0	22.7	23.4	23.9	24.3	25.1	24.8	25.5	25.9
6H	22.7	23.3	23.2	23.8	24.2	24.9	25.5	25.4	25.9	26.4
8H	22.8	23.4	23.3	23.8	24.3	25.1	25.6	25.6	26.1	26.6
12H	22.9	23.4	23.4	23.9	24.4	25.2	25.6	25.7	26.1	26.7
X=12H Y=4H	22.3	23.0	22.8	23.4	23.9	24.3	25.0	24.8	25.4	25.9
6H	22.7	23.3	23.2	23.7	24.2	24.9	25.4	25.4	25.9	26.4
8H	22.9	23.3	23.4	23.8	24.4	25.1	25.6	25.6	26.0	26.6
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.2				
S=1.5H	+0.4/-0.7					+0.4/-0.4				
S=2.0H	+0.7/-1.3					+1.1/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 5280lm ($8\log(F/F_0) = 5.8$).

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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	0.56	0.66	0.74	0.79	0.86	0.92	0.95	1.00	1.03	
	0.30		0.48	0.59	0.66	0.72	0.80	0.86	0.90	0.96	0.99	
	0.20		0.42	0.53	0.60	0.66	0.75	0.81	0.86	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.98	
	0.30		0.47	0.57	0.65	0.70	0.78	0.83	0.87	0.92	0.95	
	0.20		0.42	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.93	
0.30	0.50	0.20	0.53	0.62	0.69	0.74	0.80	0.85	0.88	0.92	0.94	
	0.30		0.46	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.92	
	0.20		0.42	0.51	0.59	0.64	0.72	0.77	0.81	0.86	0.90	
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85	
Rating:57W 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	1.00	0.83	0.71	0.62	0.50	0.41	0.35	0.27	0.22	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	0.59	0.47	0.43	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		0.71	0.61	0.54	0.48	0.40	0.34	0.29	0.23	0.20	
0.30	0.50	0.20	0.94	0.77	0.65	0.57	0.45	0.37	0.32	0.25	0.20	
	0.30		0.80	0.68	0.58	0.51	0.42	0.35	0.30	0.24	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.51	0.44	0.39	0.31	0.26	0.23	0.18	0.15	
Rating:57W 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	0.21	0.21	0.22	0.22	0.23	
	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	0.15	0.16	0.17	
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.12	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	0.20	0.20	0.20	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	0.09	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:57W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												