

Report No.: 1

Test Time: 28.10.2019 09:30

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 75 220LED 75W 4000K Edison 36-38lm

Luminous Length (mm): 1560

Luminous Width (mm): 80

Luminous Height (mm): 75

Voltage: 221.1 V

Current: 0.345 A

Power: 74.79 W

Power Factor: 0.979

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 9039.3 lm

Downward Ratio: 86%

Total Rated Lamp Lumens: 9039.3 lm

Efficiency: 100%

Upward Ratio: 14%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.3, 270.7, 227.0, 221.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.4, 136.5, 124.5, 123.4

Luminaire Efficacy Rating (LER): 120.91

Central Intensity: 2301.75 cd

Max. Intensity: 2303.04 cd

Pos of Max. Intensity: H22.5 V0

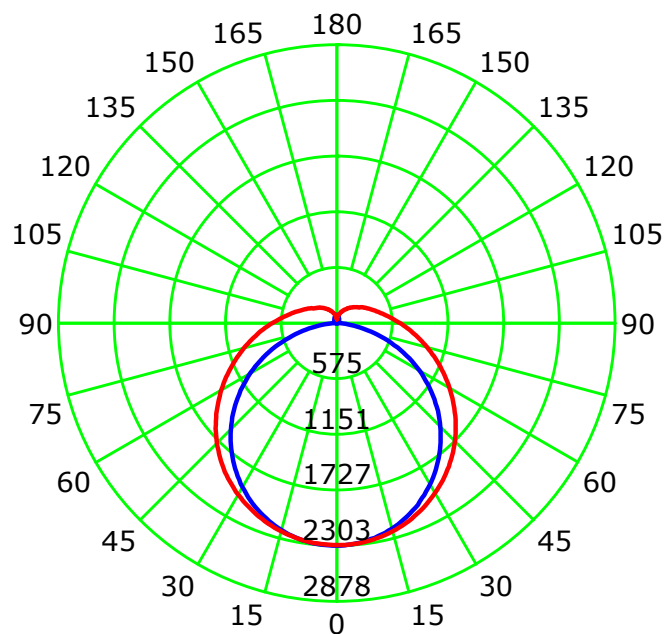
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.32

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

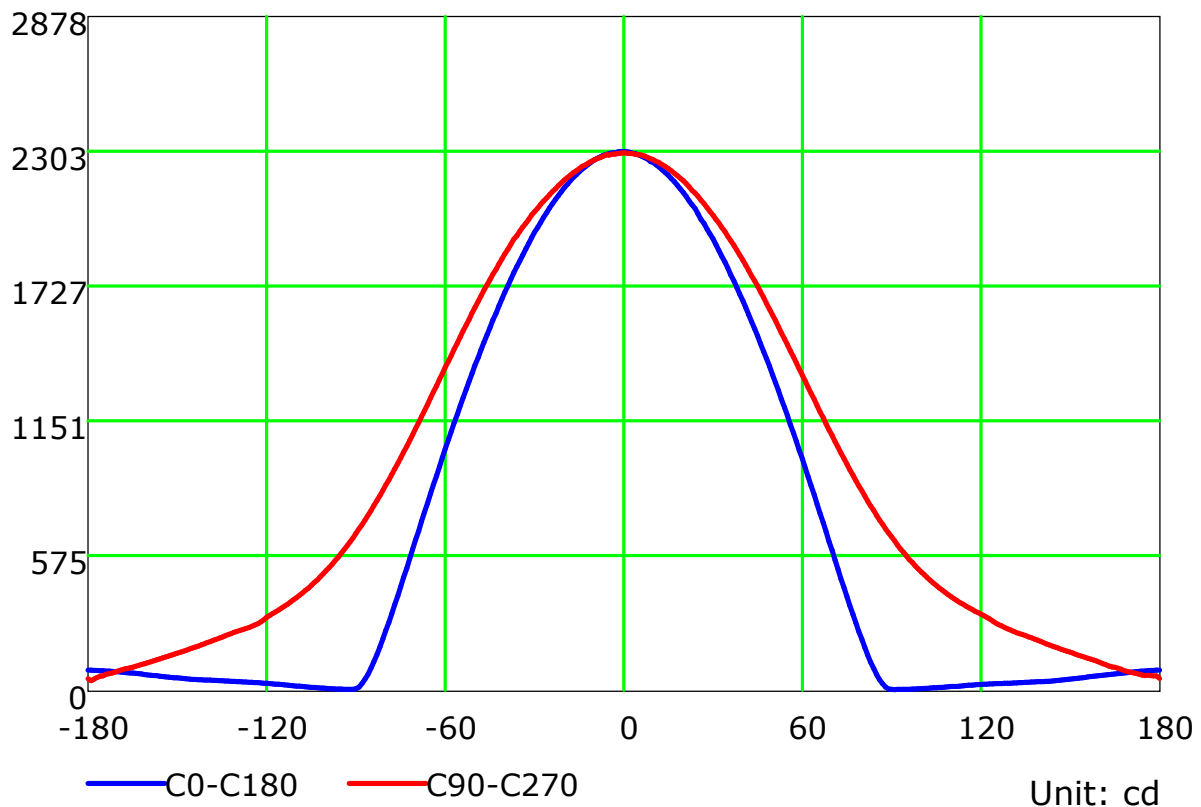
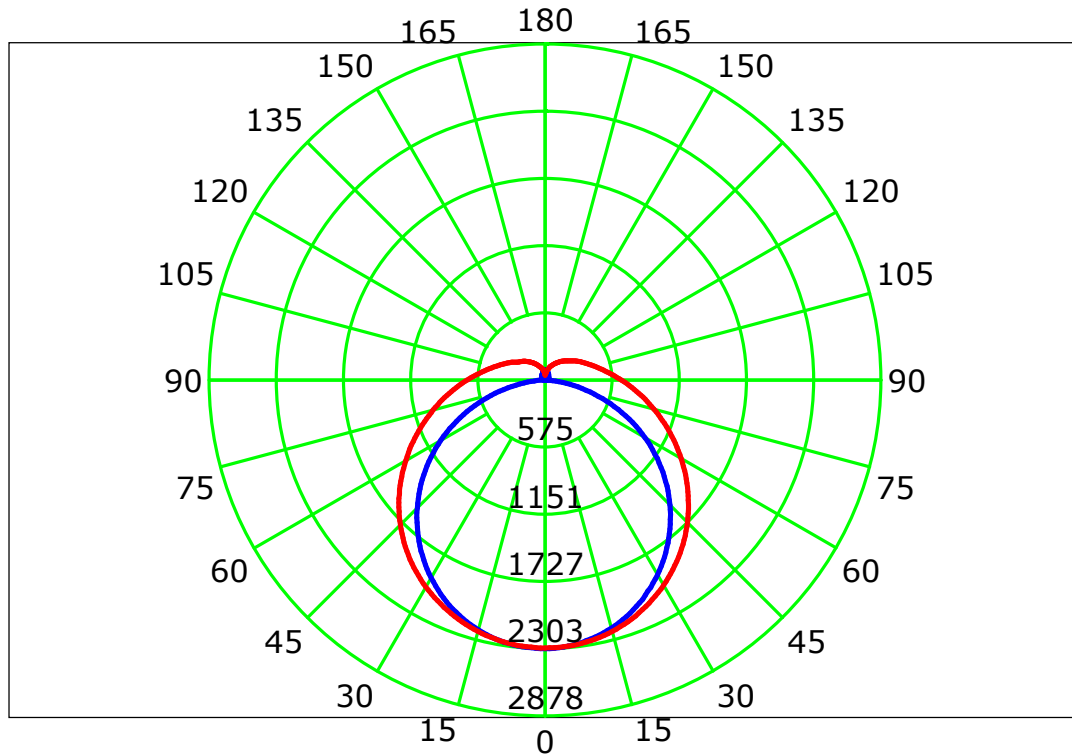
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

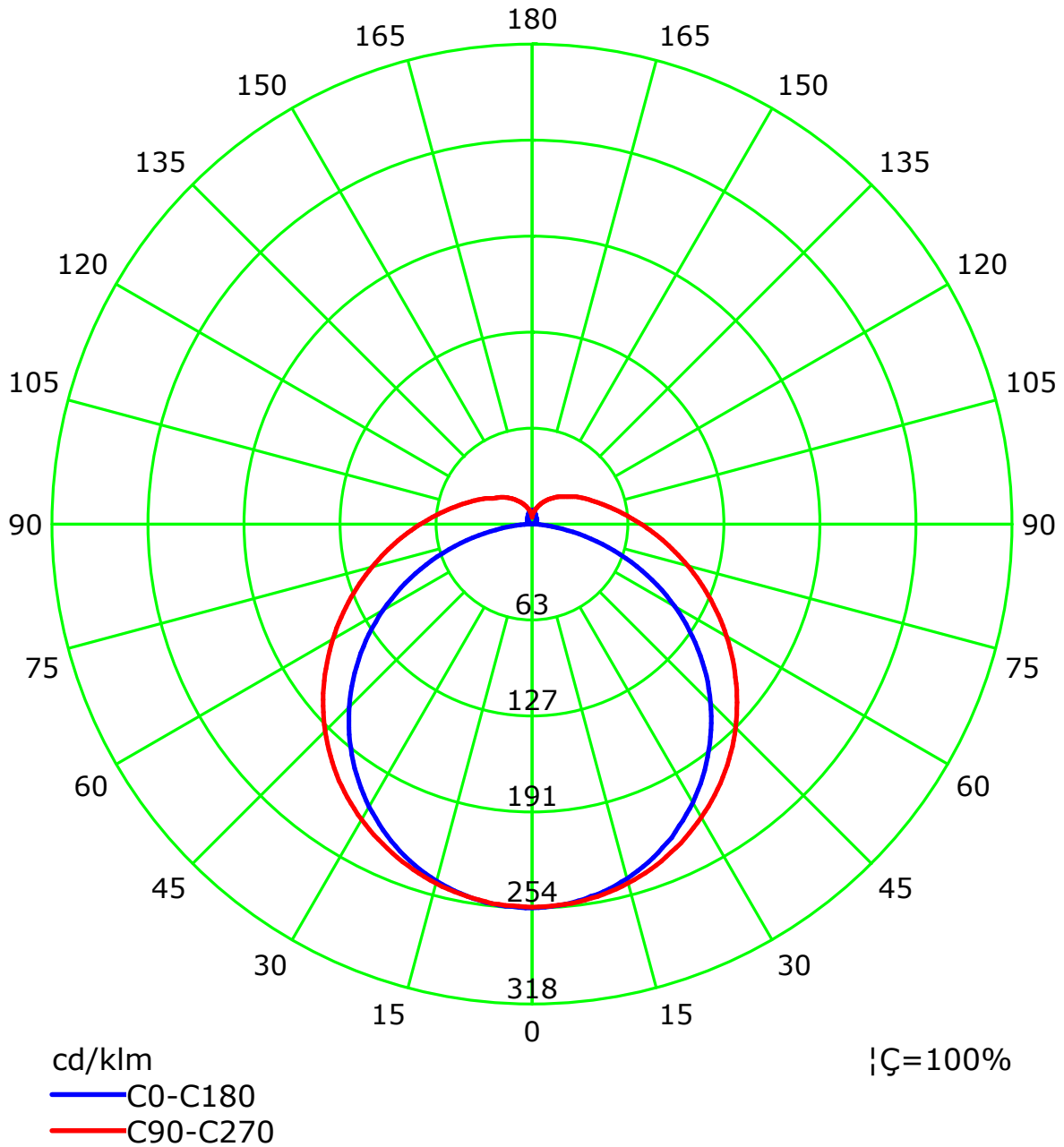
Luminous Intensity Distribution Curve



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:

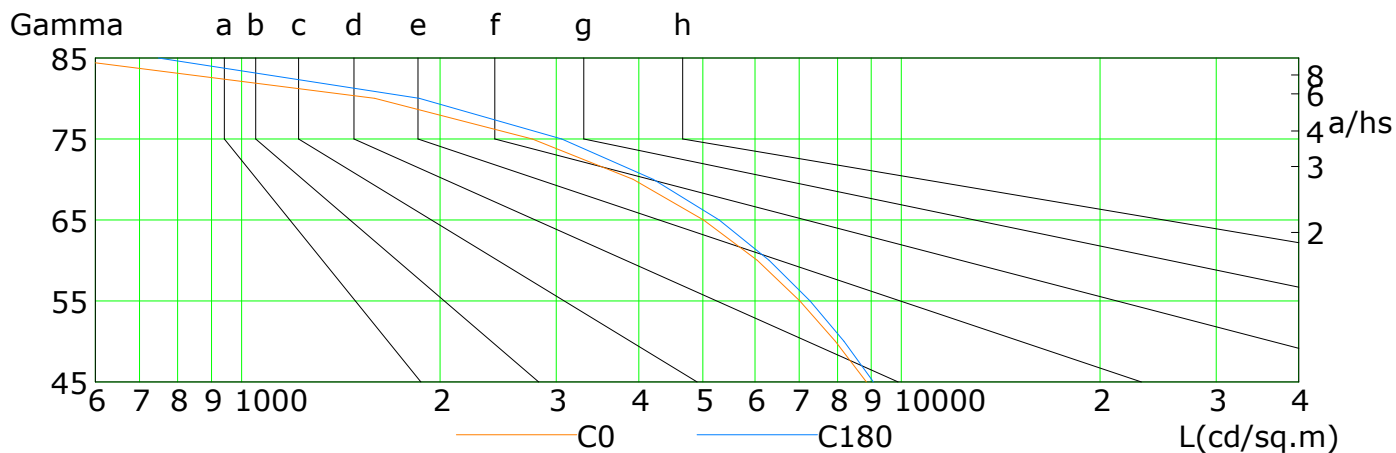
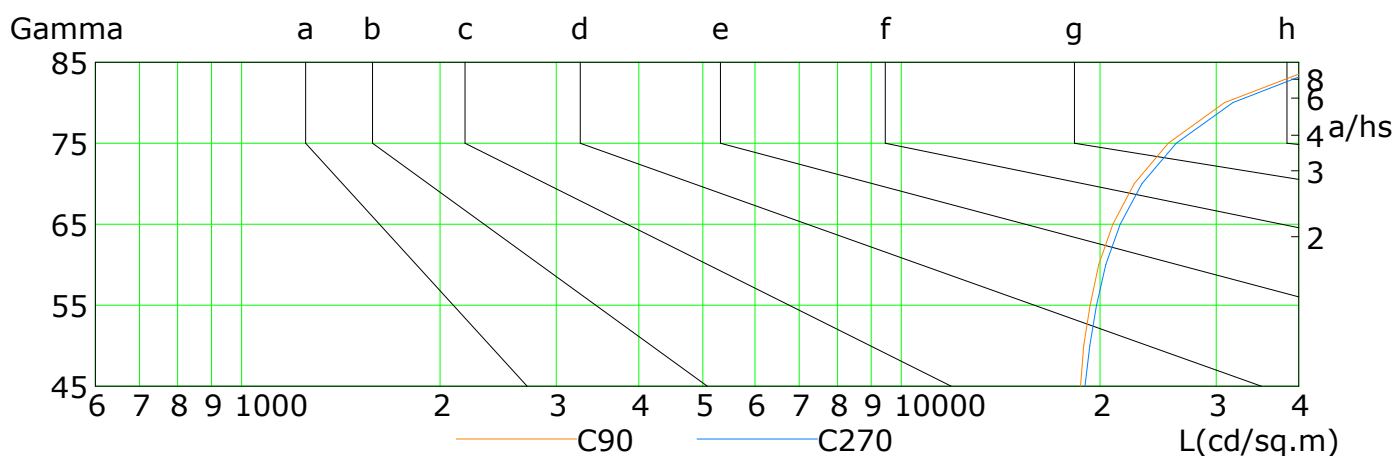
Luminous Intensity Distribution Curve(cd/klm)



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

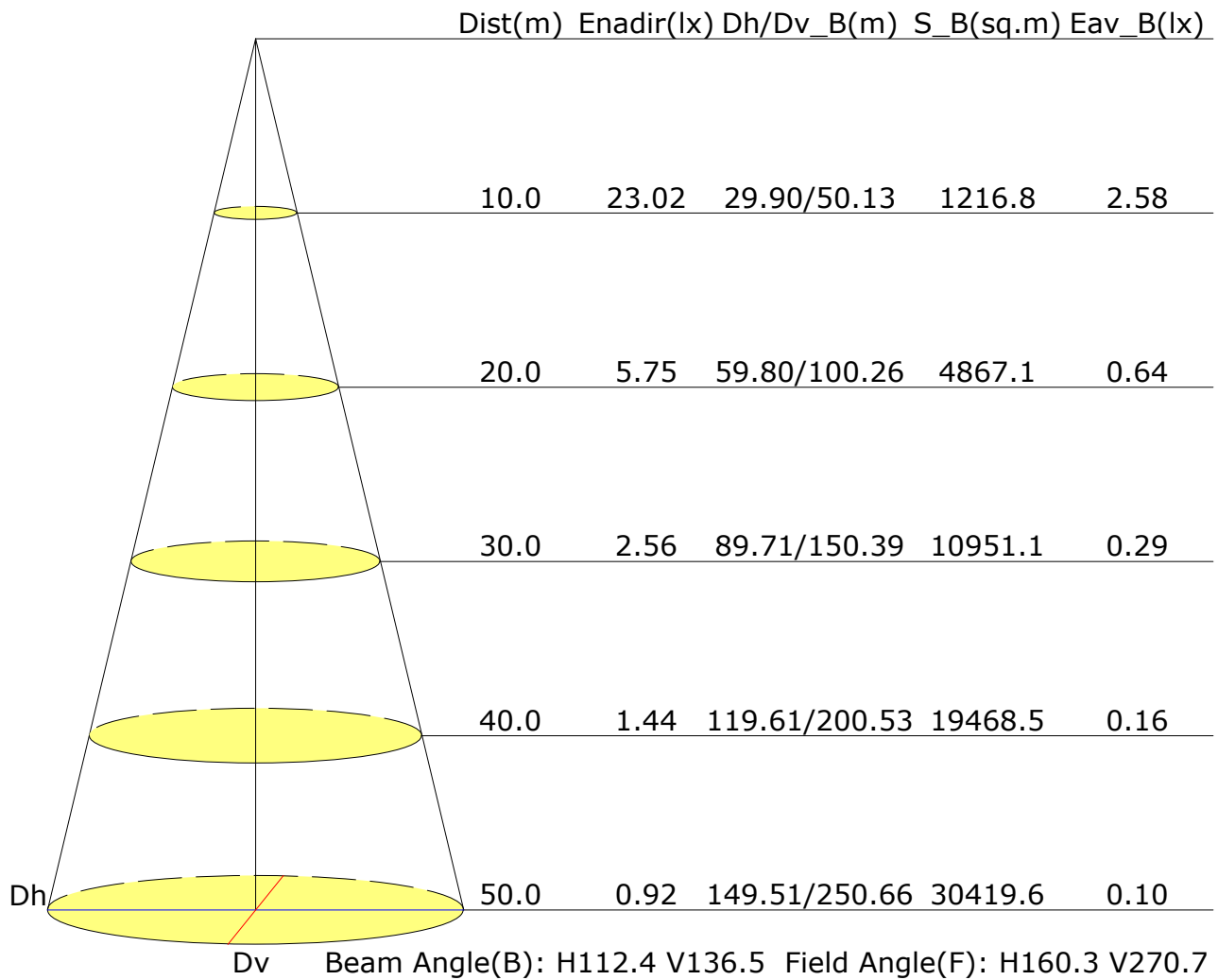


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	8855	7939	7018	6045	5011	3921	2759	1591	530
C90	18684	18903	19316	19921	20917	22539	25385	30899	44385
C180	9070	8181	7269	6305	5293	4208	3057	1859	748
C270	18978	19298	19747	20417	21461	23148	26094	31803	45531

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	18.3	19.6	18.8	20.1	20.6	21.2	22.5	21.7	22.9	23.5
3H	19.4	20.6	19.9	21.1	21.6	23.5	24.6	24.0	25.1	25.7
4H	19.7	20.8	20.3	21.3	21.9	24.7	25.8	25.2	26.3	26.9
6H	19.9	20.9	20.4	21.4	22.0	26.0	27.0	26.5	27.5	28.1
8H	19.9	20.9	20.4	21.4	22.0	26.7	27.7	27.2	28.2	28.8
12H	19.9	20.8	20.4	21.4	22.0	27.4	28.4	28.0	28.9	29.6
X=4H Y=2H	19.3	20.4	19.8	20.9	21.5	21.5	22.6	22.0	23.1	23.7
3H	20.5	21.4	21.1	22.0	22.6	23.9	24.9	24.5	25.4	26.1
4H	20.9	21.8	21.5	22.4	23.0	25.3	26.1	25.9	26.7	27.4
6H	21.2	22.0	21.8	22.6	23.3	26.7	27.5	27.4	28.1	28.8
8H	21.2	21.9	21.9	22.6	23.3	27.5	28.2	28.2	28.9	29.6
12H	21.2	21.9	21.9	22.5	23.3	28.4	29.0	29.0	29.7	30.4
X=8H Y=4H	21.6	22.3	22.2	22.9	23.6	25.4	26.1	26.0	26.7	27.4
6H	22.0	22.6	22.7	23.3	24.0	27.0	27.6	27.7	28.2	29.0
8H	22.2	22.7	22.8	23.4	24.1	27.9	28.4	28.6	29.1	29.9
12H	22.2	22.7	22.9	23.4	24.2	28.9	29.4	29.6	30.1	30.9
X=12H Y=4H	21.8	22.4	22.4	23.0	23.8	25.3	26.0	26.0	26.6	27.4
6H	22.3	22.8	23.0	23.5	24.3	27.0	27.5	27.7	28.2	29.0
8H	22.5	23.0	23.2	23.7	24.5	28.0	28.4	28.6	29.1	29.9
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.3				
S=1.5H	+0.3/-0.6					+0.6/-0.6				
S=2.0H	+0.5/-1.1					+0.9/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 9039Im ($8\log(F/F_0) = 7.6$).

C Plane (°):0.0-360.0: 22.5
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 Test Type: TYPE C
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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 = 1.50									
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	0.52	0.60	0.67	0.72	0.79	0.84	0.88	0.93	0.96	
	0.30		0.44	0.52	0.60	0.65	0.73	0.78	0.82	0.88	0.92	
	0.20		0.39	0.46	0.54	0.59	0.67	0.73	0.77	0.84	0.88	
0.50	0.50	0.20	0.49	0.57	0.63	0.68	0.74	0.79	0.82	0.86	0.89	
	0.30		0.43	0.50	0.57	0.61	0.69	0.74	0.77	0.82	0.86	
	0.20		0.38	0.45	0.51	0.56	0.64	0.69	0.73	0.79	0.83	
0.30	0.50	0.20	0.47	0.53	0.59	0.63	0.69	0.73	0.76	0.80	0.83	
	0.30		0.41	0.47	0.54	0.58	0.65	0.69	0.72	0.77	0.80	
	0.20		0.36	0.43	0.49	0.54	0.61	0.66	0.69	0.74	0.78	
0.00	0.00	0.00	0.33	0.39	0.45	0.49	0.55	0.59	0.62	0.67	0.70	
Rating:75W 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 = 1.50									
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	0.99	0.85	0.73	0.65	0.53	0.45	0.39	0.31	0.26	
	0.30		0.82	0.73	0.64	0.57	0.48	0.41	0.36	0.29	0.25	
	0.20		0.71	0.64	0.57	0.51	0.44	0.38	0.34	0.28	0.23	
0.50	0.50	0.20	0.93	0.80	0.68	0.60	0.49	0.44	0.36	0.29	0.24	
	0.30		0.78	0.69	0.60	0.54	0.45	0.39	0.34	0.27	0.23	
	0.20		0.68	0.61	0.54	0.49	0.42	0.36	0.32	0.26	0.22	
0.30	0.50	0.20	0.87	0.74	0.64	0.56	0.46	0.39	0.34	0.27	0.23	
	0.30		0.74	0.66	0.57	0.51	0.43	0.37	0.32	0.26	0.22	
	0.20		0.65	0.58	0.52	0.47	0.40	0.34	0.30	0.25	0.21	
0.00	0.00	0.00	0.53	0.48	0.42	0.38	0.31	0.27	0.24	0.20	0.16	
Rating:75W 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 = 1.50									
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	0.30	0.31	0.32	0.33	0.33	0.34	0.34	0.35	0.35	
	0.30		0.23	0.24	0.26	0.27	0.28	0.29	0.30	0.31	0.32	
	0.20		0.18	0.19	0.21	0.22	0.24	0.25	0.26	0.28	0.29	
0.50	0.50	0.20	0.29	0.30	0.31	0.31	0.32	0.33	0.33	0.33	0.34	
	0.30		0.22	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	
	0.20		0.18	0.19	0.20	0.21	0.23	0.25	0.26	0.27	0.28	
0.30	0.50	0.20	0.28	0.29	0.30	0.30	0.31	0.31	0.32	0.32	0.32	
	0.30		0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	
	0.20		0.18	0.19	0.20	0.21	0.23	0.24	0.25	0.26	0.27	
0.00	0.00	0.00	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	
Rating:75W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												