

Report No.: 1

Test Time: 23.12.2019 10:34

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 4x40LED 0,47A 60W 4000K matoviy

Luminous Length (mm): 1280

Luminous Width (mm): 135

Luminous Height (mm): 100

Voltage: 221.1 V

Current: 0.269 A

Power: 59.09 W

Power Factor: 0.992

Photometric Results

CIE Class: Direct

Measurement Flux: 6976.1 lm

Downward Ratio: 92%

Total Rated Lamp Lumens: 6976.1 lm

Efficiency: 100%

Upward Ratio: 8%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.3, 217.7, 193.2, 194.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.0, 124.2, 114.9, 115.1

Luminaire Efficacy Rating (LER): 118.11

Central Intensity: 2073.36 cd

Max. Intensity: 2075.77 cd

Pos of Max. Intensity: H22.5 V0

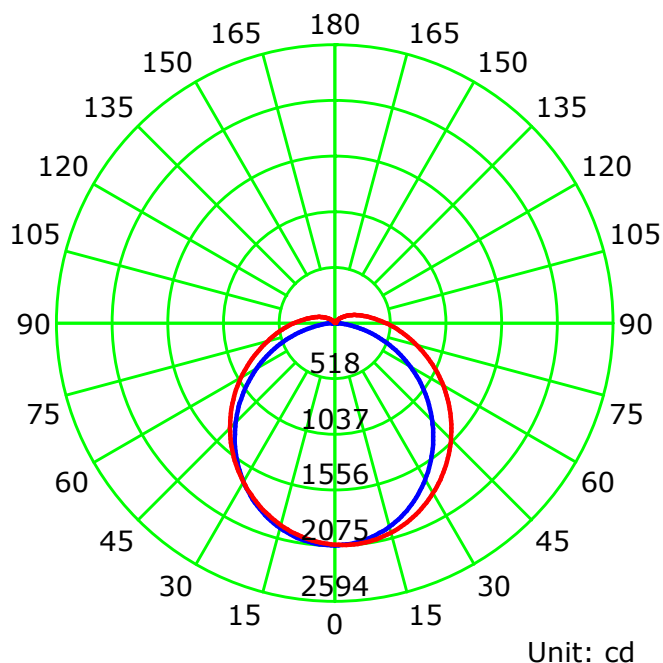
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.28

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

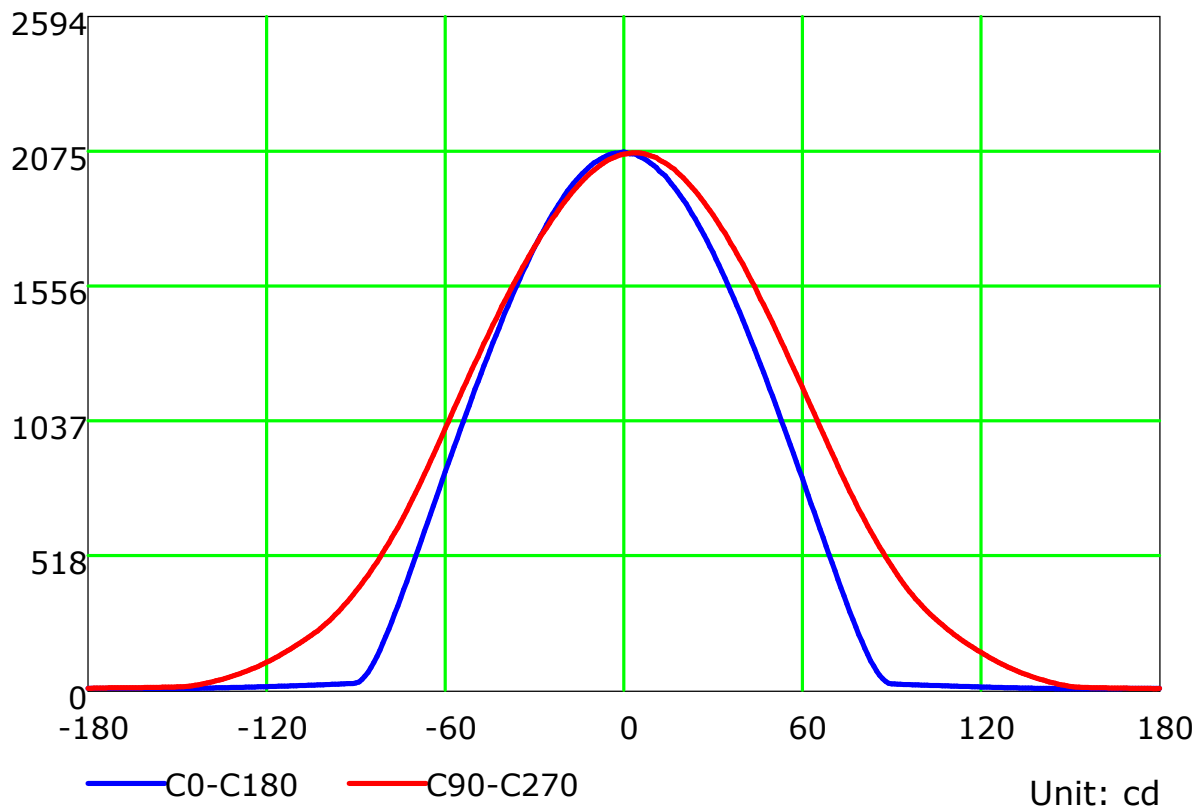
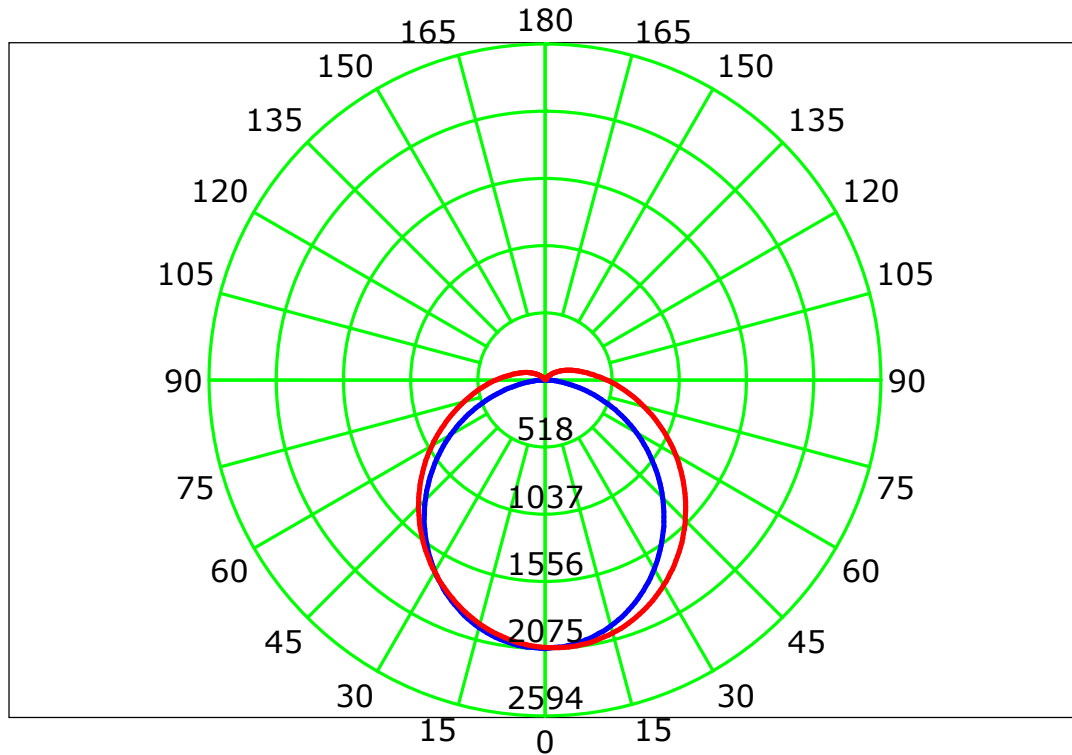
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

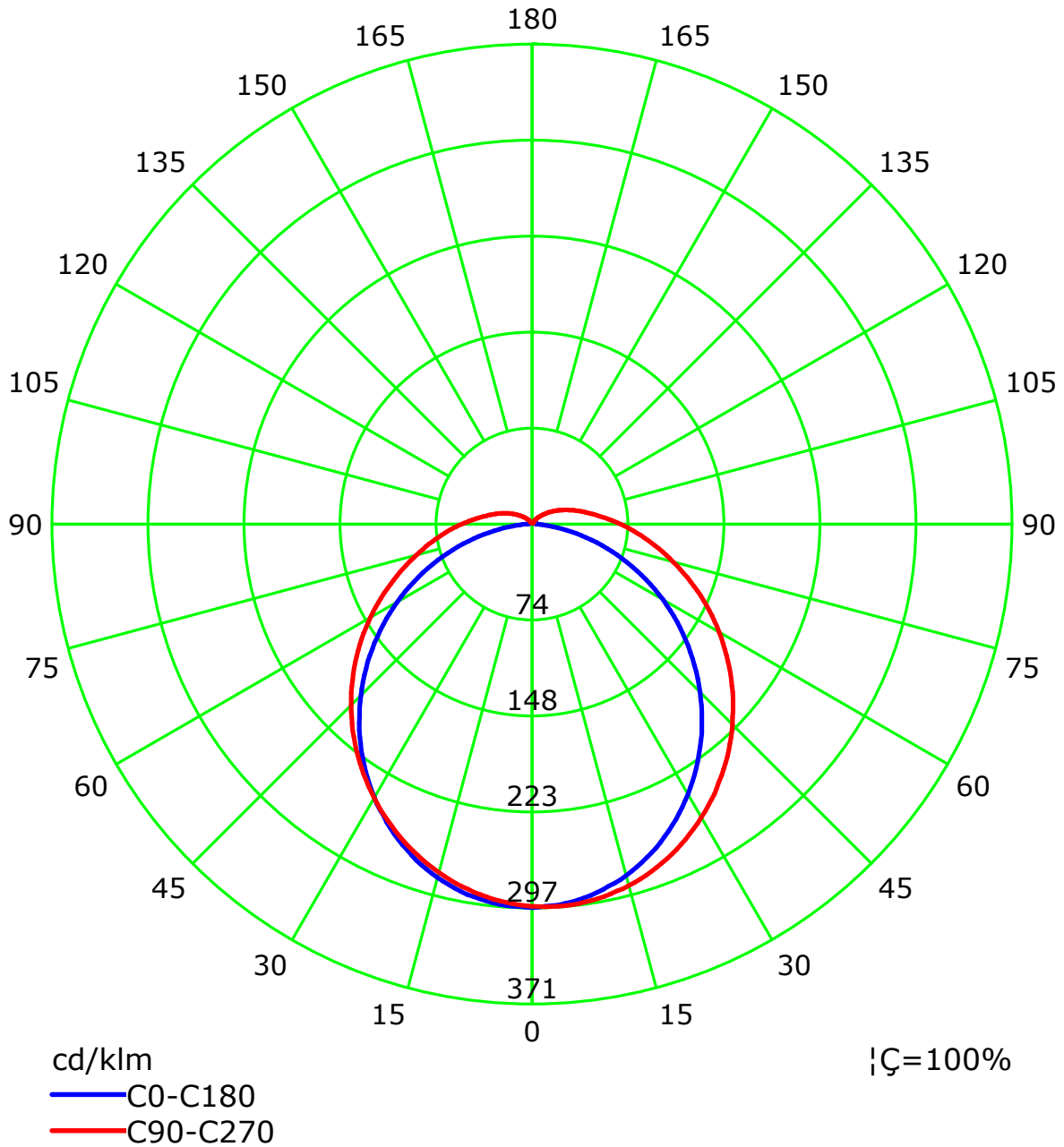
Luminous Intensity Distribution Curve



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)



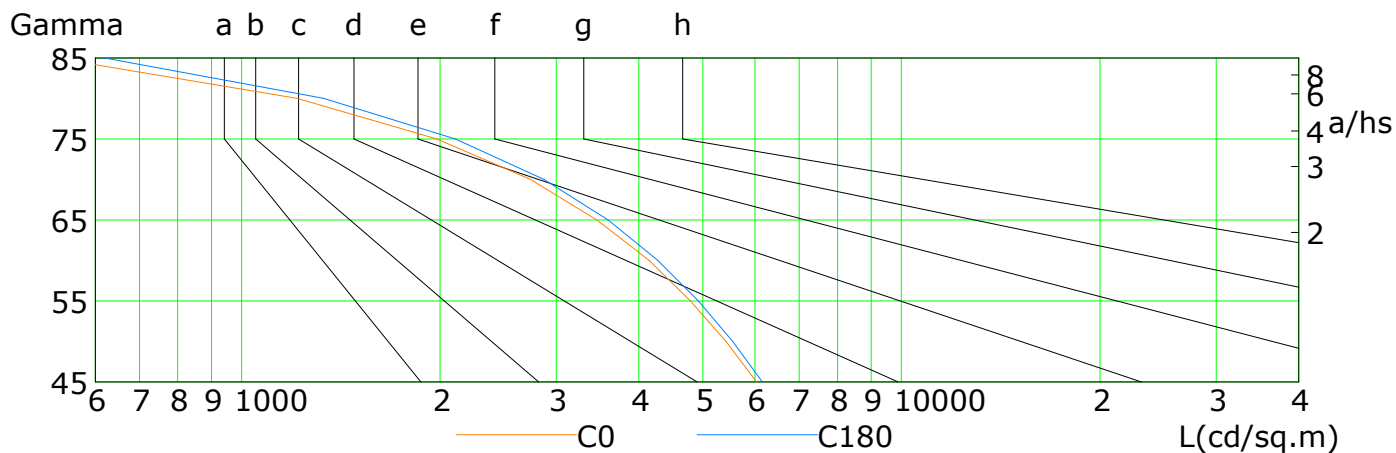
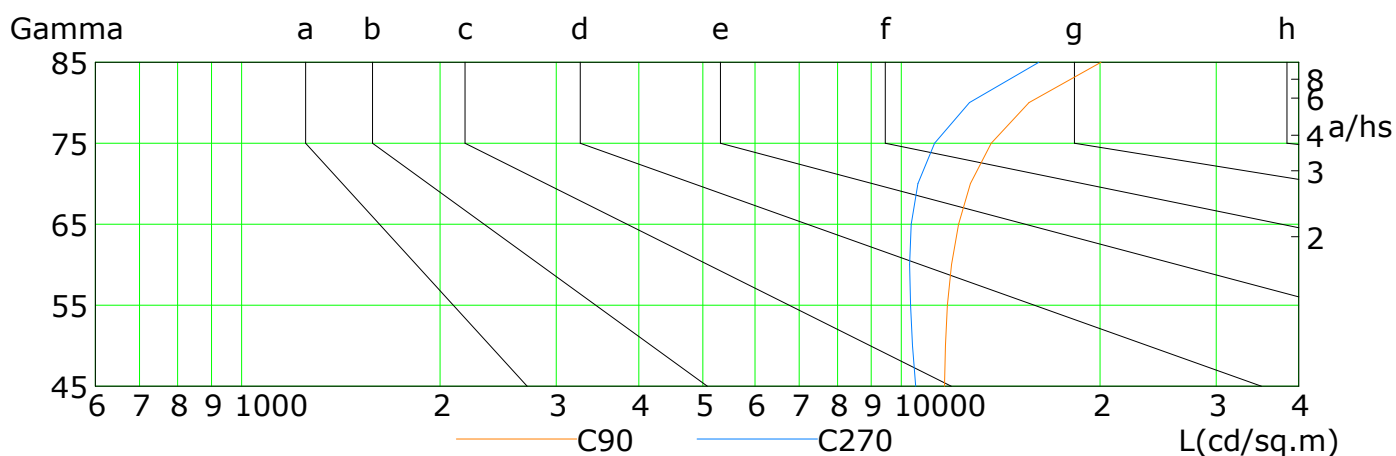
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

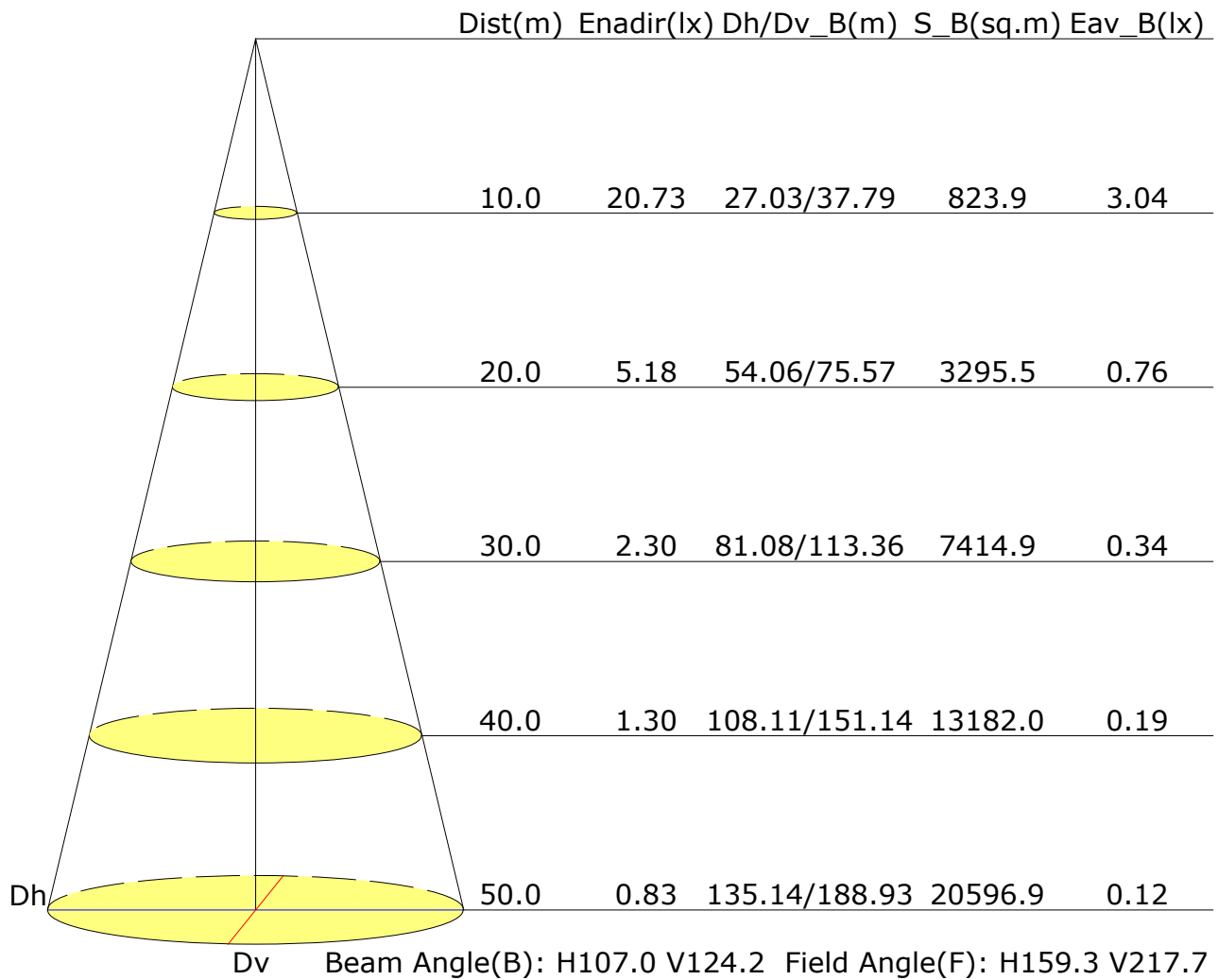


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	6037	5421	4788	4146	3456	2739	1977	1213	525
C90	11627	11663	11734	11906	12212	12719	13679	15616	20068
C180	6157	5550	4922	4270	3592	2871	2109	1332	620
C270	10508	10393	10320	10290	10354	10593	11222	12676	16159

C Plane (°):0.0-360.0: 22.5
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 Temperature:
 Operator:

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 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	17.3	18.7	17.7	19.0	19.4	19.7	21.1	20.2	21.5	21.9
3H	18.4	19.6	18.8	20.0	20.5	21.8	23.0	22.3	23.5	23.9
4H	18.7	19.9	19.2	20.3	20.8	22.9	24.0	23.3	24.5	24.9
6H	18.9	20.0	19.4	20.5	20.9	24.0	25.1	24.5	25.5	26.0
8H	19.0	20.0	19.4	20.5	21.0	24.5	25.6	25.0	26.0	26.5
12H	18.9	19.9	19.4	20.4	20.9	25.1	26.1	25.6	26.6	27.1
X=4H Y=2H	18.2	19.3	18.6	19.8	20.2	20.1	21.2	20.5	21.7	22.1
3H	19.4	20.4	19.9	20.9	21.4	22.3	23.3	22.8	23.8	24.3
4H	19.9	20.8	20.4	21.3	21.9	23.5	24.5	24.1	24.9	25.5
6H	20.2	21.0	20.7	21.5	22.1	24.8	25.6	25.4	26.1	26.7
8H	20.3	21.0	20.8	21.6	22.1	25.5	26.2	26.0	26.8	27.3
12H	20.3	21.0	20.9	21.5	22.1	26.2	26.9	26.8	27.4	28.0
X=8H Y=4H	20.5	21.2	21.0	21.8	22.4	23.7	24.4	24.2	25.0	25.5
6H	21.0	21.6	21.6	22.2	22.8	25.1	25.7	25.7	26.3	26.9
8H	21.1	21.7	21.7	22.3	22.9	25.9	26.4	26.5	27.0	27.7
12H	21.2	21.7	21.8	22.3	23.0	26.8	27.3	27.4	27.9	28.5
X=12H Y=4H	20.6	21.3	21.2	21.9	22.5	23.7	24.3	24.2	24.9	25.5
6H	21.2	21.8	21.8	22.3	23.0	25.1	25.7	25.7	26.3	26.9
8H	21.4	21.9	22.1	22.5	23.2	26.0	26.5	26.6	27.1	27.7
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.3				
S=1.5H	+0.4/-0.6					+0.4/-0.4				
S=2.0H	+0.5/-1.2					+0.6/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 6976lm ($8\log(F/F_0) = 6.7$).

C Plane (°):0.0-360.0: 22.5
 Test Lab:
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 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	0.52	0.62	0.69	0.74	0.81	0.86	0.90	0.95	0.98	
	0.30		0.44	0.54	0.61	0.66	0.74	0.80	0.84	0.90	0.94	
	0.20		0.38	0.48	0.55	0.61	0.69	0.75	0.79	0.86	0.90	
0.50	0.50	0.20	0.50	0.59	0.65	0.70	0.77	0.82	0.85	0.89	0.92	
	0.30		0.42	0.52	0.59	0.64	0.71	0.76	0.80	0.85	0.89	
	0.20		0.37	0.47	0.53	0.59	0.66	0.72	0.76	0.82	0.86	
0.30	0.50	0.20	0.48	0.56	0.62	0.67	0.73	0.77	0.80	0.84	0.87	
	0.30		0.41	0.50	0.56	0.61	0.68	0.73	0.76	0.81	0.84	
	0.20		0.36	0.45	0.52	0.57	0.64	0.69	0.73	0.78	0.82	
0.00	0.00	0.00	0.34	0.42	0.48	0.53	0.59	0.64	0.67	0.72	0.75	
Rating:59W 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	1.03	0.86	0.74	0.66	0.53	0.45	0.39	0.31	0.26	
	0.30		0.86	0.74	0.65	0.58	0.48	0.41	0.36	0.29	0.25	
	0.20		0.73	0.64	0.58	0.52	0.44	0.38	0.34	0.28	0.23	
0.50	0.50	0.20	0.97	0.82	0.70	0.62	0.50	0.45	0.37	0.29	0.24	
	0.30		0.83	0.71	0.62	0.56	0.46	0.39	0.35	0.28	0.23	
	0.20		0.72	0.63	0.56	0.50	0.42	0.37	0.32	0.26	0.22	
0.30	0.50	0.20	0.93	0.77	0.67	0.59	0.48	0.40	0.35	0.28	0.23	
	0.30		0.80	0.68	0.60	0.53	0.44	0.38	0.33	0.26	0.22	
	0.20		0.70	0.61	0.54	0.49	0.41	0.35	0.31	0.25	0.21	
0.00	0.00	0.00	0.59	0.51	0.45	0.40	0.33	0.29	0.25	0.20	0.17	
Rating:59W 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	0.24	0.25	0.26	0.27	0.28	0.28	0.29	0.29	0.29	
	0.30		0.17	0.18	0.20	0.21	0.22	0.23	0.24	0.26	0.26	
	0.20		0.12	0.13	0.15	0.16	0.18	0.19	0.21	0.22	0.23	
0.50	0.50	0.20	0.23	0.24	0.25	0.26	0.27	0.27	0.27	0.28	0.28	
	0.30		0.17	0.18	0.19	0.20	0.22	0.23	0.23	0.25	0.25	
	0.20		0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23	
0.30	0.50	0.20	0.22	0.24	0.24	0.25	0.26	0.26	0.26	0.27	0.27	
	0.30		0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.24	
	0.20		0.12	0.13	0.14	0.15	0.17	0.19	0.20	0.21	0.22	
0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
Rating:59W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												