

Report No.: 1

Test Time: 19.12.2019 09:44

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 4x40LED 0,3A 38W 4000K matoviy

Luminous Length (mm): 1280

Luminous Width (mm): 135

Luminous Height (mm): 100

Voltage: 221.2 V

Current: 0.177 A

Power: 38.04 W

Power Factor: 0.970

Photometric Results

CIE Class: Direct

Measurement Flux: 4979.5 lm

Downward Ratio: 92%

Total Rated Lamp Lumens: 4979.5 lm

Efficiency: 100%

Upward Ratio: 8%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.5, 217.3, 191.9, 194.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.2, 124.6, 114.8, 115.7

Luminaire Efficacy Rating (LER): 130.95

Central Intensity: 1476.65 cd

Max. Intensity: 1477.24 cd

Pos of Max. Intensity: H22.5 V0

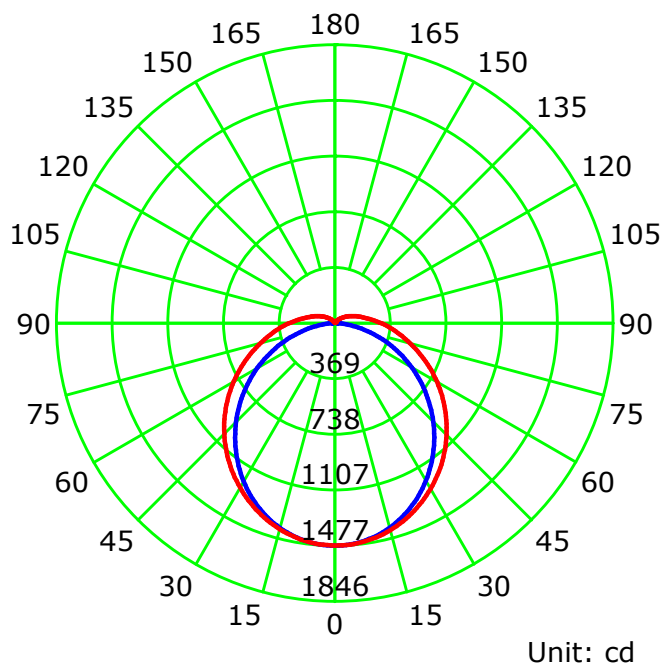
S/MH(C0/C180): 1.22

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

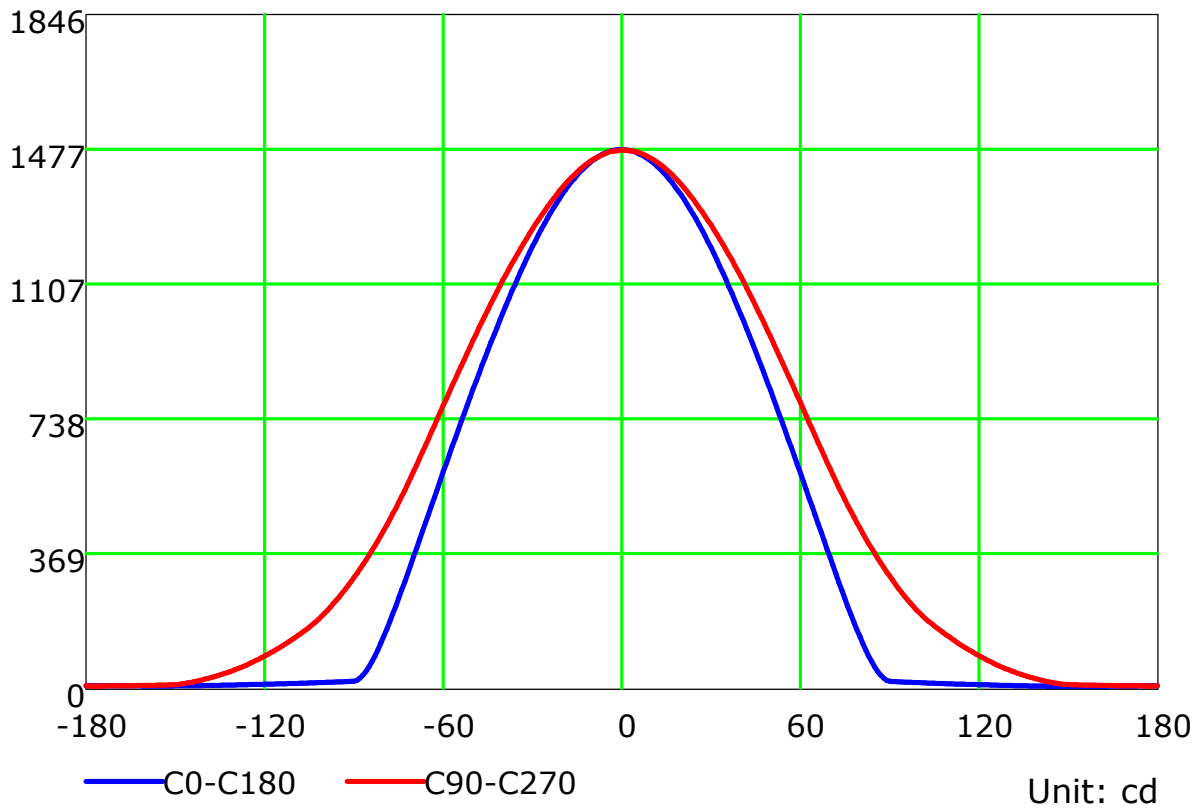
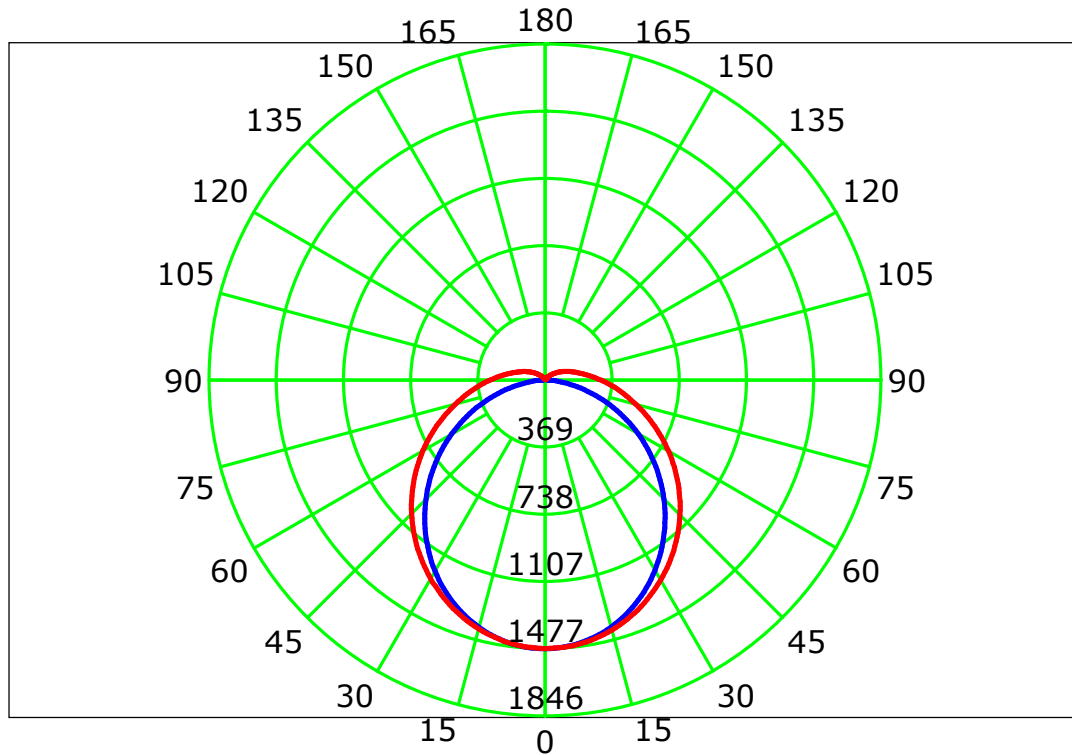
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

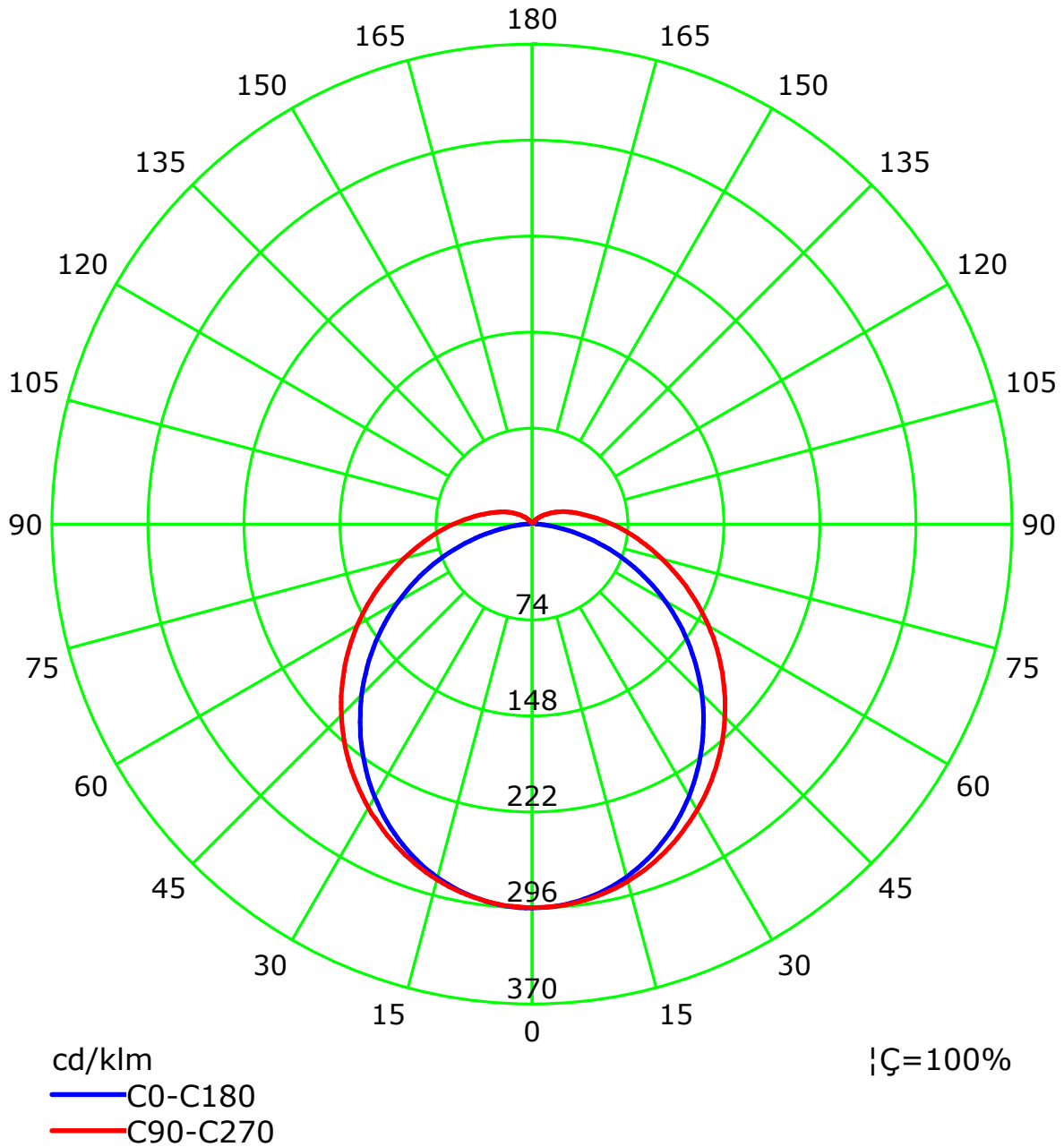
Luminous Intensity Distribution Curve



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)



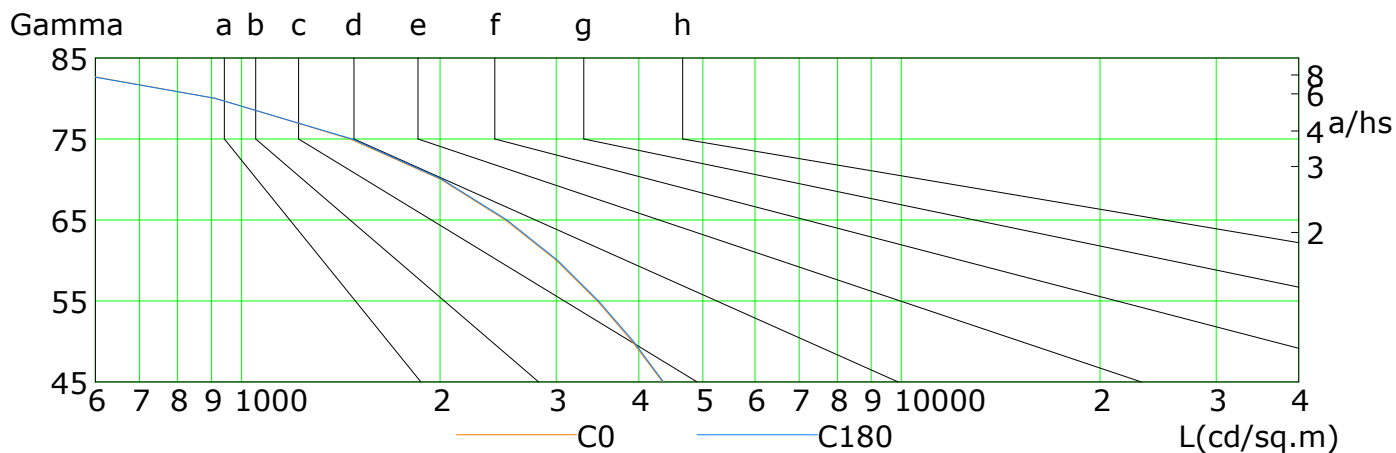
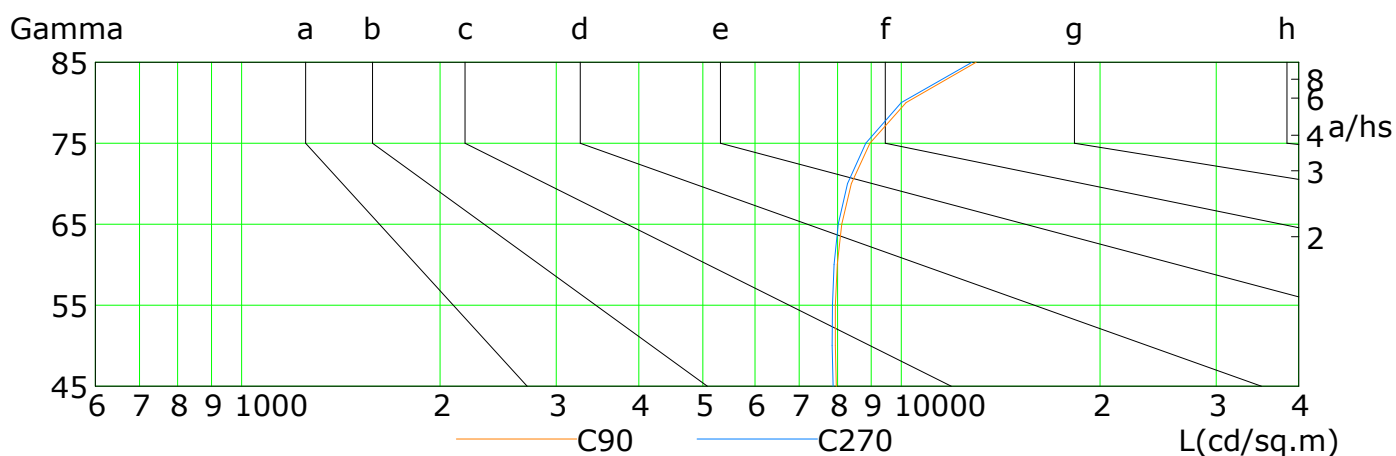
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

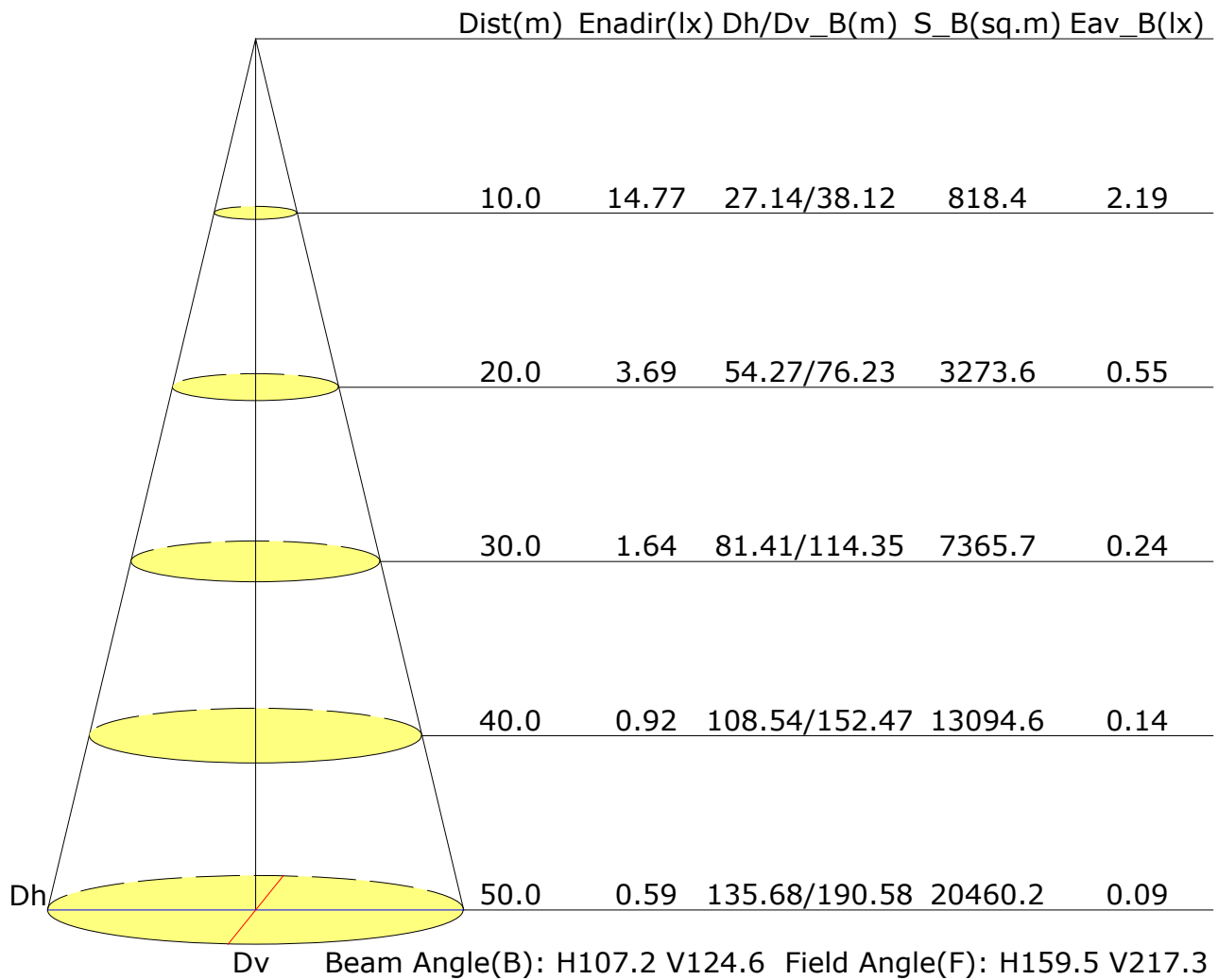


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4346	3905	3458	2997	2512	2003	1460	913	417
C90	7964	7939	7943	7996	8119	8395	8956	10167	12985
C180	4361	3923	3474	3011	2524	2012	1471	912	415
C270	7882	7856	7861	7909	8023	8281	8835	9994	12792

C Plane (°):0.0-360.0: 22.5
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 Temperature:
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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	16.2	17.6	16.6	17.9	18.3	18.6	19.9	19.0	20.3	20.7
3H	17.3	18.5	17.7	18.9	19.4	20.6	21.9	21.1	22.3	22.7
4H	17.7	18.8	18.1	19.2	19.7	21.7	22.9	22.2	23.3	23.7
6H	17.9	18.9	18.3	19.4	19.9	22.8	23.9	23.3	24.3	24.8
8H	17.9	18.9	18.4	19.4	19.9	23.3	24.4	23.8	24.8	25.3
12H	17.9	18.9	18.4	19.4	19.9	23.9	24.9	24.4	25.4	25.9
X=4H Y=2H	17.1	18.2	17.5	18.6	19.1	18.9	20.1	19.4	20.5	21.0
3H	18.3	19.3	18.8	19.8	20.3	21.2	22.2	21.7	22.6	23.1
4H	18.8	19.7	19.3	20.2	20.8	22.4	23.3	22.9	23.8	24.3
6H	19.1	19.9	19.7	20.4	21.0	23.6	24.4	24.2	24.9	25.5
8H	19.2	19.9	19.7	20.5	21.1	24.3	25.0	24.8	25.6	26.1
12H	19.2	19.9	19.8	20.4	21.1	25.0	25.7	25.6	26.2	26.8
X=8H Y=4H	19.4	20.1	19.9	20.7	21.2	22.5	23.2	23.0	23.8	24.4
6H	19.9	20.5	20.5	21.0	21.7	23.9	24.5	24.5	25.1	25.7
8H	20.0	20.6	20.6	21.2	21.8	24.7	25.2	25.3	25.8	26.5
12H	20.1	20.6	20.7	21.2	21.9	25.6	26.0	26.2	26.6	27.3
X=12H Y=4H	19.5	20.2	20.1	20.7	21.4	22.5	23.2	23.0	23.7	24.3
6H	20.1	20.7	20.7	21.2	21.9	23.9	24.5	24.5	25.1	25.7
8H	20.3	20.8	21.0	21.4	22.1	24.8	25.3	25.4	25.8	26.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.6					+0.4/-0.4				
S=2.0H	+0.5/-1.1					+0.7/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4980lm ($8\log(F/F_0) = 5.6$).

C Plane (°):0.0-360.0: 22.5
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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	0.68	0.72	0.75	
Rating:38W 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	0.98	0.82	0.70	0.62	0.51	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	0.43	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:38W 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	0.28	0.29	0.29	
	0.30		0.17	0.18	0.20	0.21	0.22	0.23	0.24	0.25	0.26	
	0.20		0.12	0.13	0.15	0.16	0.18	0.19	0.20	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	0.17	0.19	0.20	0.22	0.23	
0.30	0.50	0.20	0.22	0.23	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	0.18	0.19	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:38W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												