

Report No.: 1

Test Time: 19.12.2019 13:34

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 4x40LED 0,3A 38W 5000K matovyi

Luminous Length (mm): 1262

Luminous Width (mm): 124

Luminous Height (mm): 85

Voltage: 221.3 V

Current: 0.179 A

Power: 39.02 W

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Measurement Flux: 5247.6 lm

Downward Ratio: 92%

Total Rated Lamp Lumens: 5247.6 lm

Efficiency: 100%

Upward Ratio: 8%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.6, 219.4, 194.5, 195.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.3, 125.0, 115.4, 115.8

Luminaire Efficacy Rating (LER): 134.53

Central Intensity: 1545.13 cd

Max. Intensity: 1546.48 cd

Pos of Max. Intensity: H247.5 V1

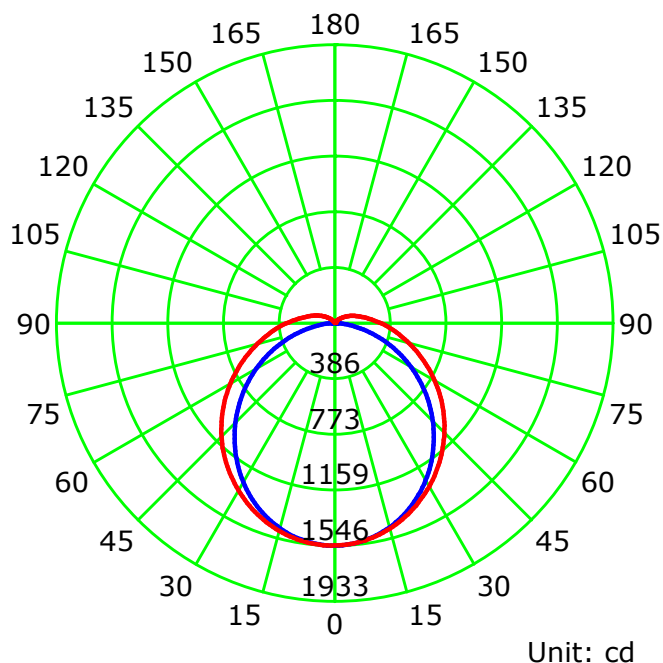
S/MH(C0/C180): 1.22

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

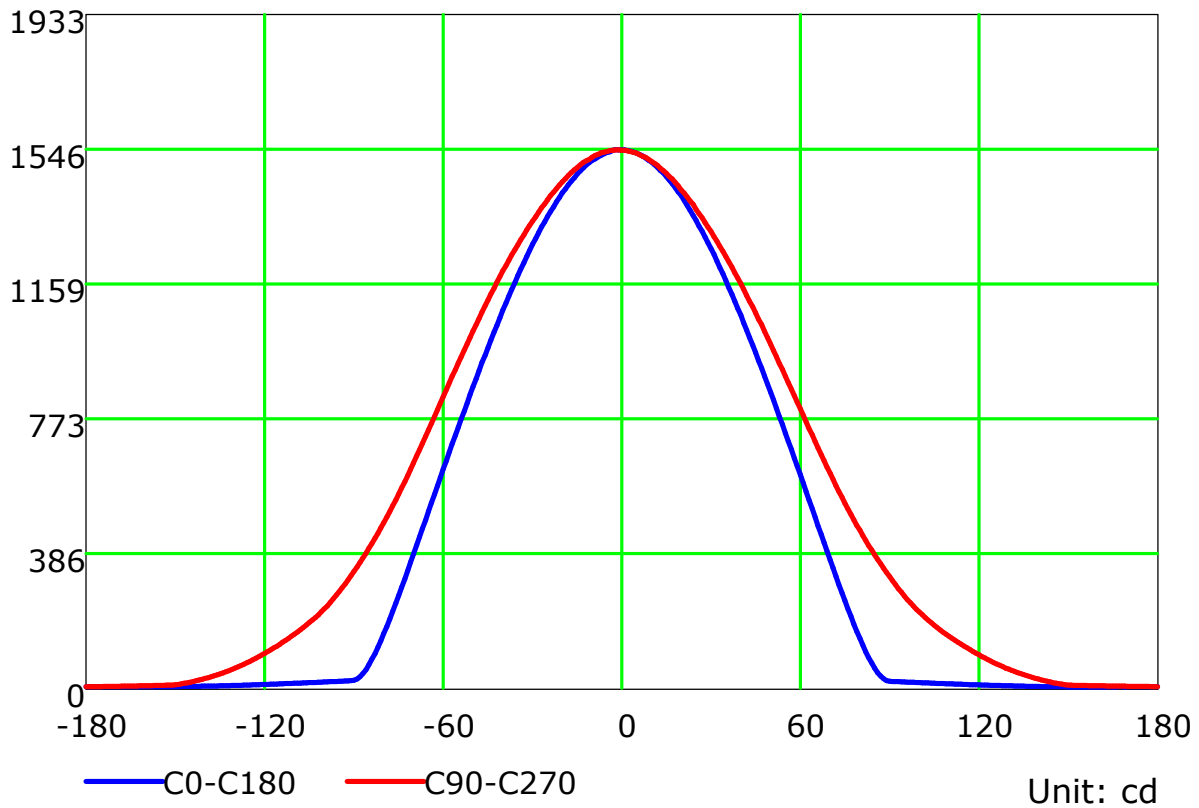
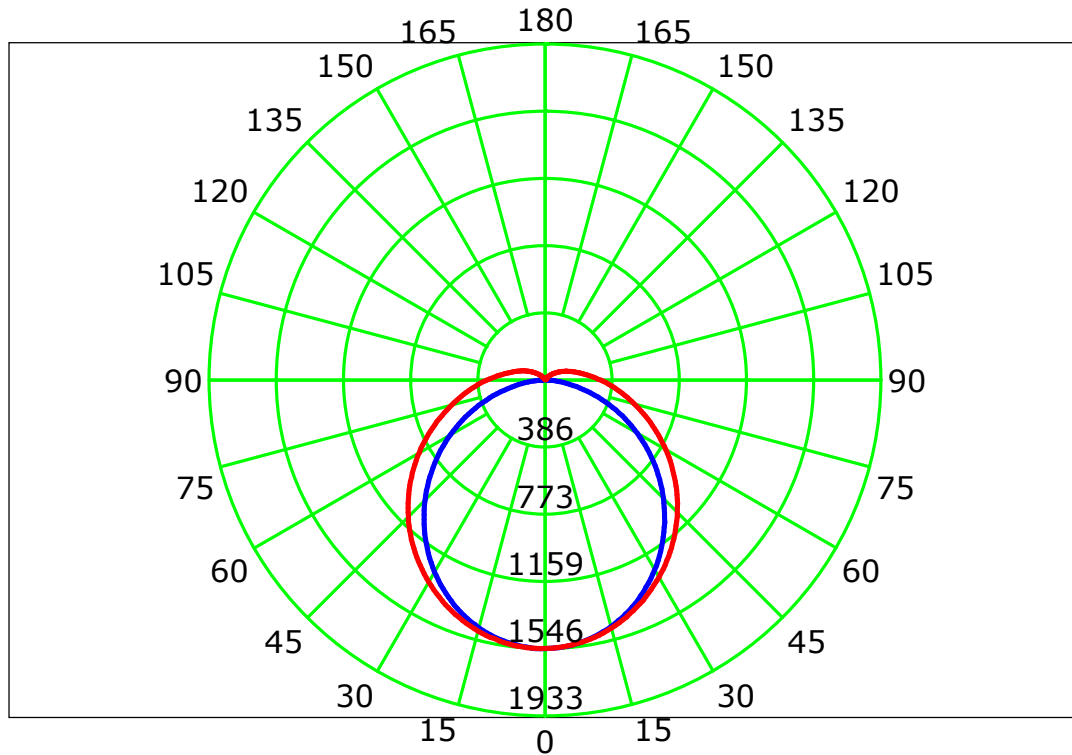
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

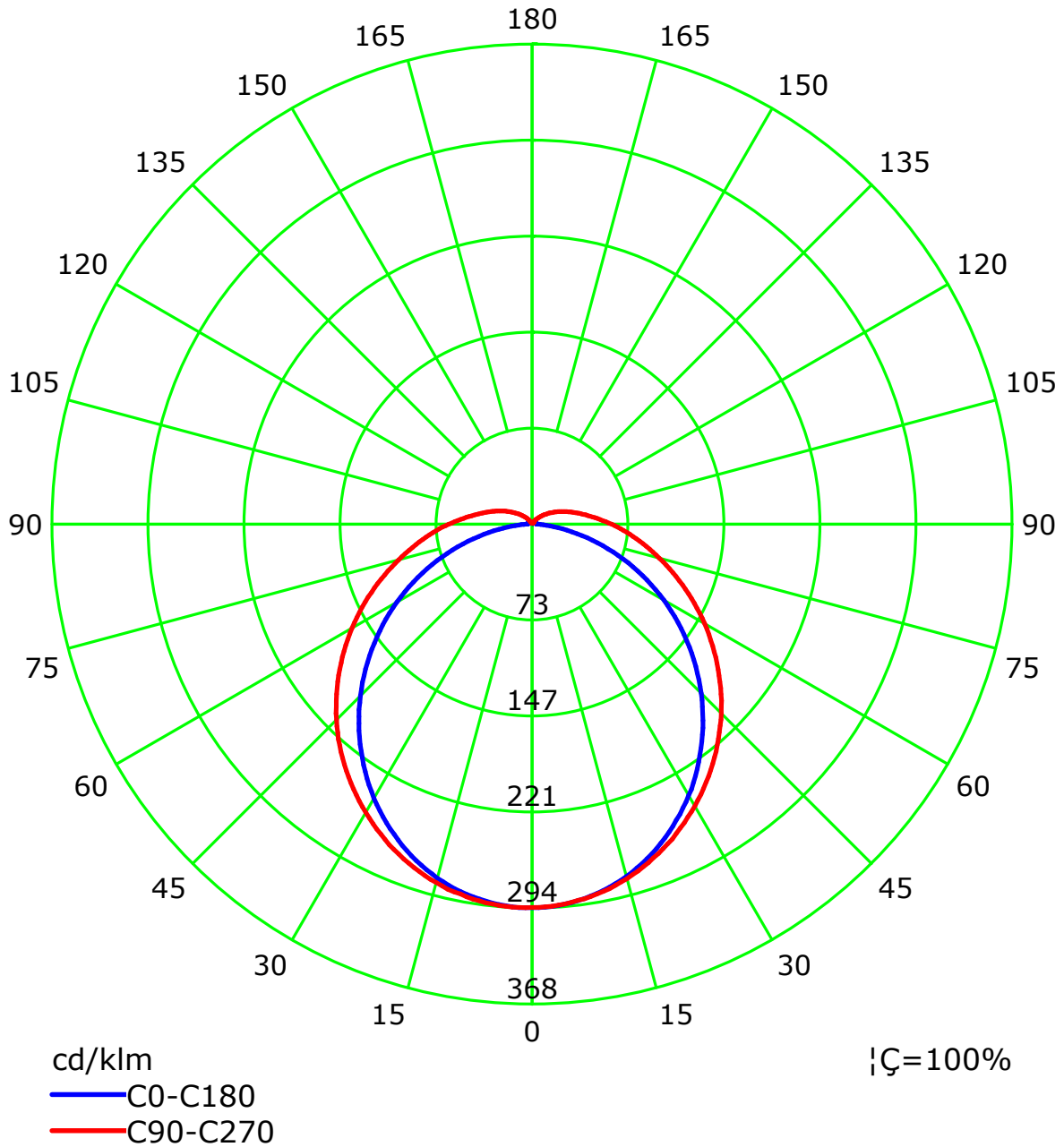
Luminous Intensity Distribution Curve



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)



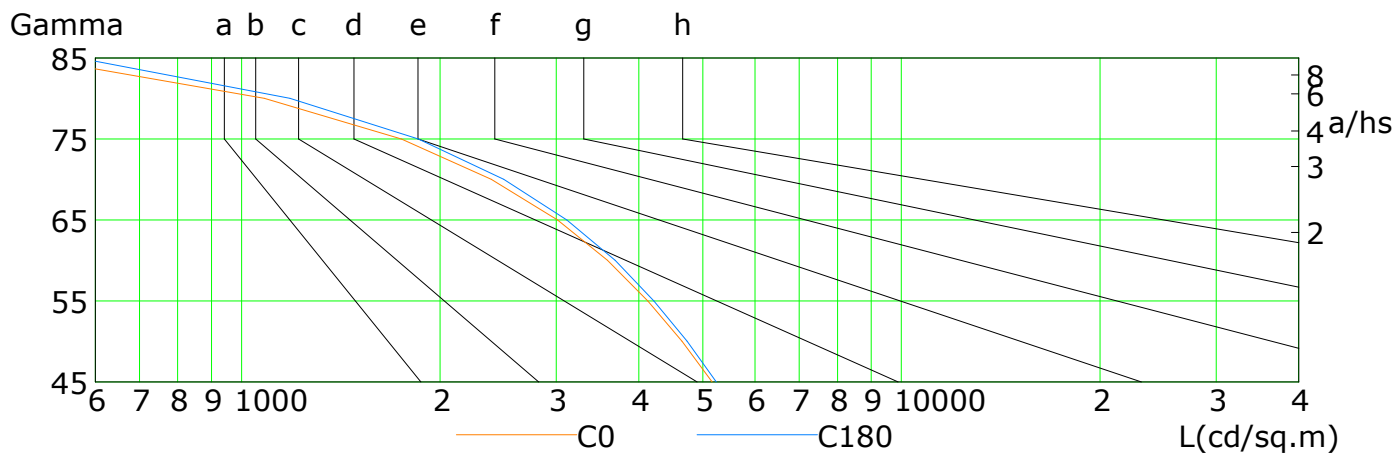
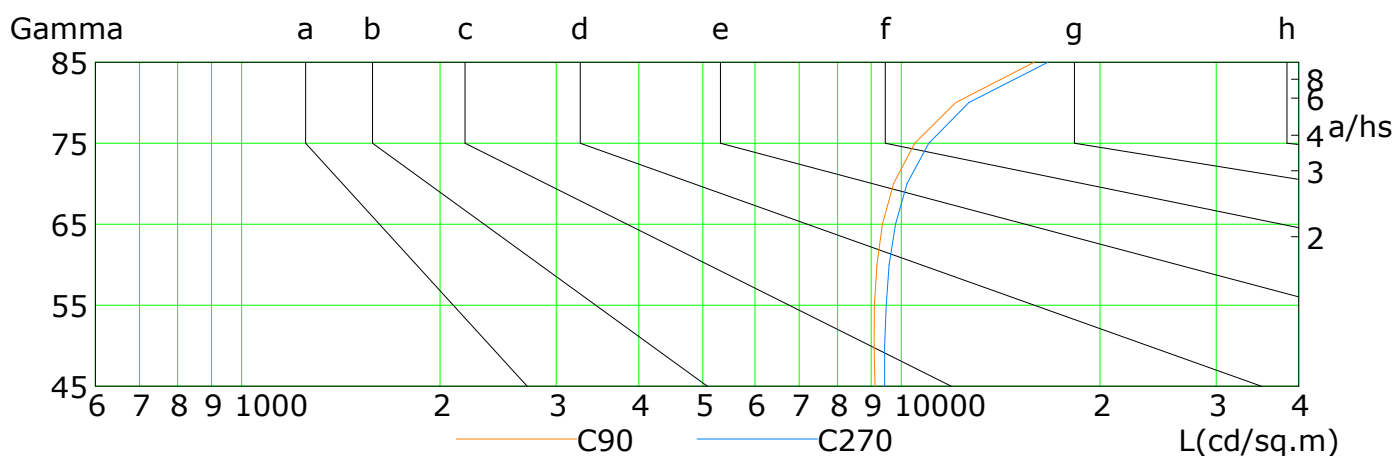
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

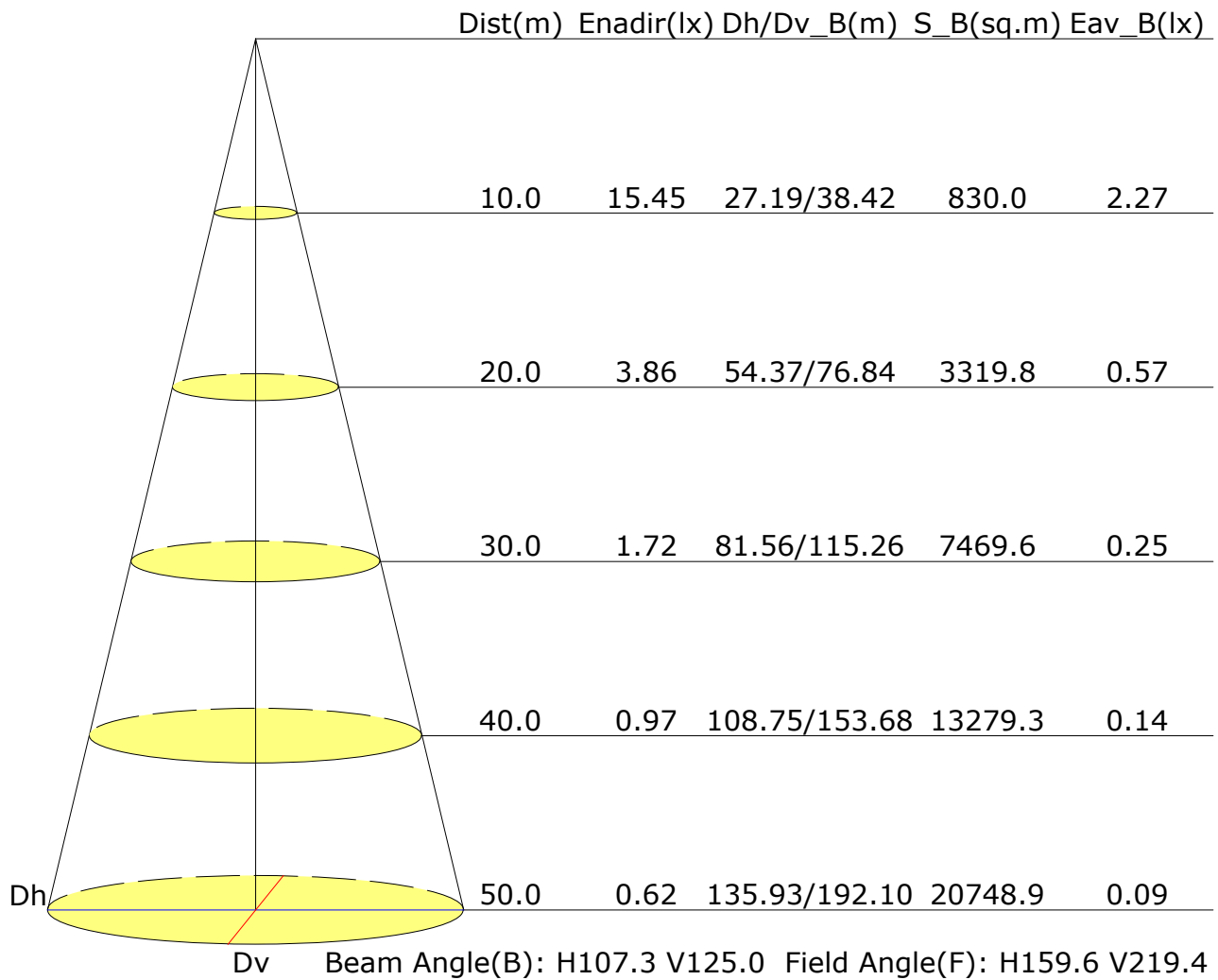


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5168	4650	4125	3583	3012	2391	1746	1083	484
C90	9124	9092	9103	9186	9357	9731	10481	12083	15884
C180	5244	4737	4216	3681	3111	2496	1852	1184	567
C270	9433	9434	9489	9585	9799	10203	11005	12659	16670

C Plane (°):0.0-360.0: 22.5
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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	16.8	18.1	17.2	18.5	18.9	19.2	20.5	19.6	20.9	21.3
3H	17.9	19.1	18.3	19.5	20.0	21.3	22.5	21.7	22.9	23.3
4H	18.2	19.4	18.7	19.8	20.3	22.3	23.5	22.8	23.9	24.4
6H	18.4	19.5	18.9	20.0	20.5	23.5	24.5	23.9	25.0	25.5
8H	18.5	19.5	19.0	20.0	20.5	24.0	25.1	24.5	25.5	26.0
12H	18.5	19.5	19.0	19.9	20.4	24.7	25.7	25.2	26.1	26.6
X=4H Y=2H	17.7	18.8	18.1	19.2	19.7	19.5	20.7	20.0	21.1	21.6
3H	18.9	19.9	19.4	20.4	20.9	21.8	22.8	22.3	23.3	23.8
4H	19.4	20.3	19.9	20.8	21.4	23.0	23.9	23.5	24.4	25.0
6H	19.7	20.5	20.3	21.1	21.6	24.3	25.1	24.8	25.6	26.2
8H	19.8	20.5	20.4	21.1	21.7	25.0	25.7	25.5	26.3	26.9
12H	19.8	20.5	20.4	21.1	21.7	25.7	26.4	26.3	27.0	27.6
X=8H Y=4H	20.0	20.8	20.6	21.3	21.9	23.2	23.9	23.7	24.4	25.0
6H	20.5	21.1	21.1	21.7	22.3	24.6	25.2	25.2	25.8	26.4
8H	20.7	21.2	21.3	21.8	22.5	25.4	26.0	26.0	26.6	27.2
12H	20.8	21.2	21.4	21.8	22.5	26.3	26.8	26.9	27.4	28.1
X=12H Y=4H	20.2	20.8	20.7	21.4	22.0	23.1	23.8	23.7	24.4	25.0
6H	20.8	21.3	21.4	21.9	22.5	24.6	25.2	25.2	25.8	26.4
8H	21.0	21.5	21.6	22.1	22.8	25.5	26.0	26.1	26.6	27.2
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					+0.5/-0.5				
S=2.0H	+0.5/-1.1					+0.8/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 5248lm ($8\log(F/F_0) = 5.8$).

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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	0.47	0.55	0.60	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	0.81	0.85	0.89	0.92	
	0.30		0.42	0.52	0.58	0.64	0.71	0.76	0.80	0.85	0.89	
	0.20		0.37	0.46	0.53	0.58	0.66	0.72	0.76	0.82	0.86	
0.30	0.50	0.20	0.47	0.56	0.62	0.66	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	0.33	0.42	0.48	0.52	0.59	0.64	0.67	0.72	0.75	
Rating:39W 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	0.75	0.66	0.54	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	0.46	0.37	0.29	0.24	
	0.30		0.83	0.71	0.62	0.56	0.46	0.40	0.35	0.28	0.23	
	0.20		0.72	0.63	0.56	0.50	0.43	0.37	0.33	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	0.27	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:39W 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	0.30	
	0.30		0.17	0.19	0.20	0.21	0.22	0.24	0.24	0.26	0.26	
	0.20		0.12	0.14	0.15	0.16	0.18	0.20	0.21	0.22	0.24	
0.50	0.50	0.20	0.23	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.28	
	0.30		0.17	0.18	0.19	0.20	0.22	0.23	0.24	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	0.23	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	0.25	
	0.20		0.12	0.13	0.15	0.16	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:39W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												