

Report No.: 1

Test Time: 24.12.2019 09:33

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 4x24LED 0.3A 32W 5000K matoviy

Luminous Length (mm): 1280

Luminous Width (mm): 350

Luminous Height (mm): 100

Voltage: 221.2 V

Current: 0.149 A

Power: 32.00 W

Power Factor: 0.969

Photometric Results

CIE Class: Direct

Measurement Flux: 4073 lm

Downward Ratio: 92%

Total Rated Lamp Lumens: 4073.0 lm

Efficiency: 100%

Upward Ratio: 8%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.7, 218.1, 194.9, 195.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.2, 125.3, 115.6, 115.7

Luminaire Efficacy Rating (LER): 127.33

Central Intensity: 1197.9 cd

Max. Intensity: 1198.37 cd

Pos of Max. Intensity: H135 V1

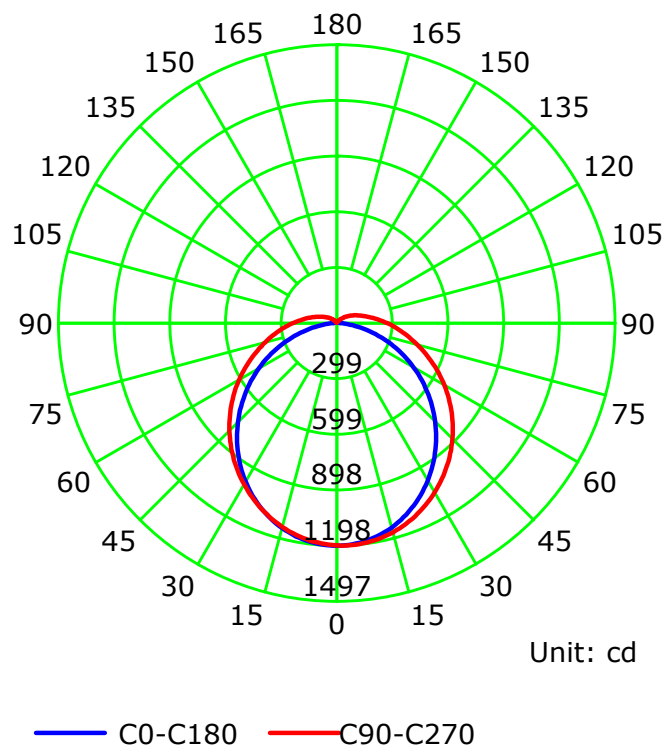
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.28

Termogramma



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

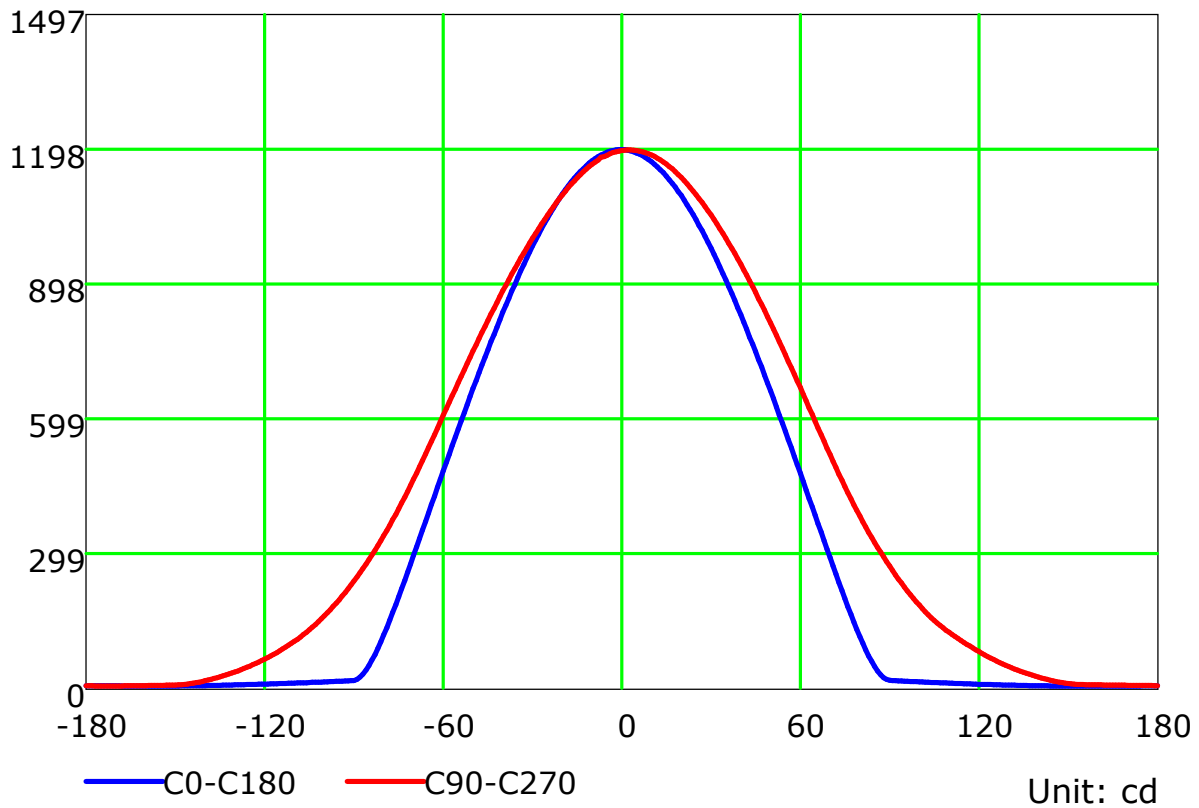
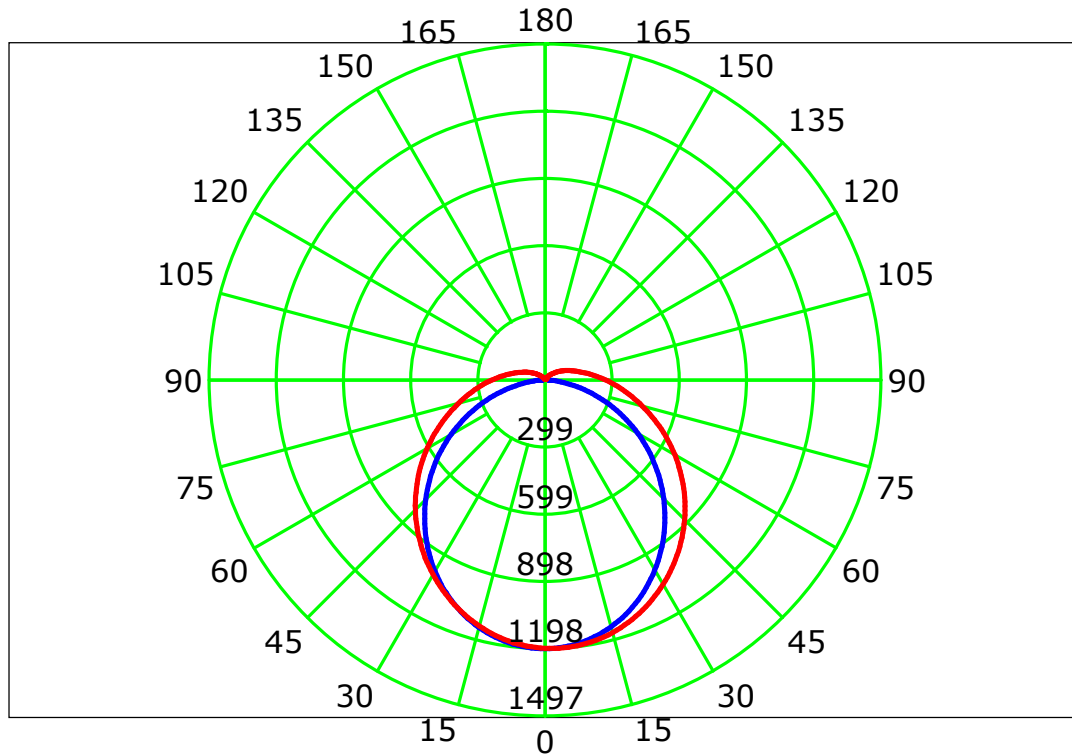
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

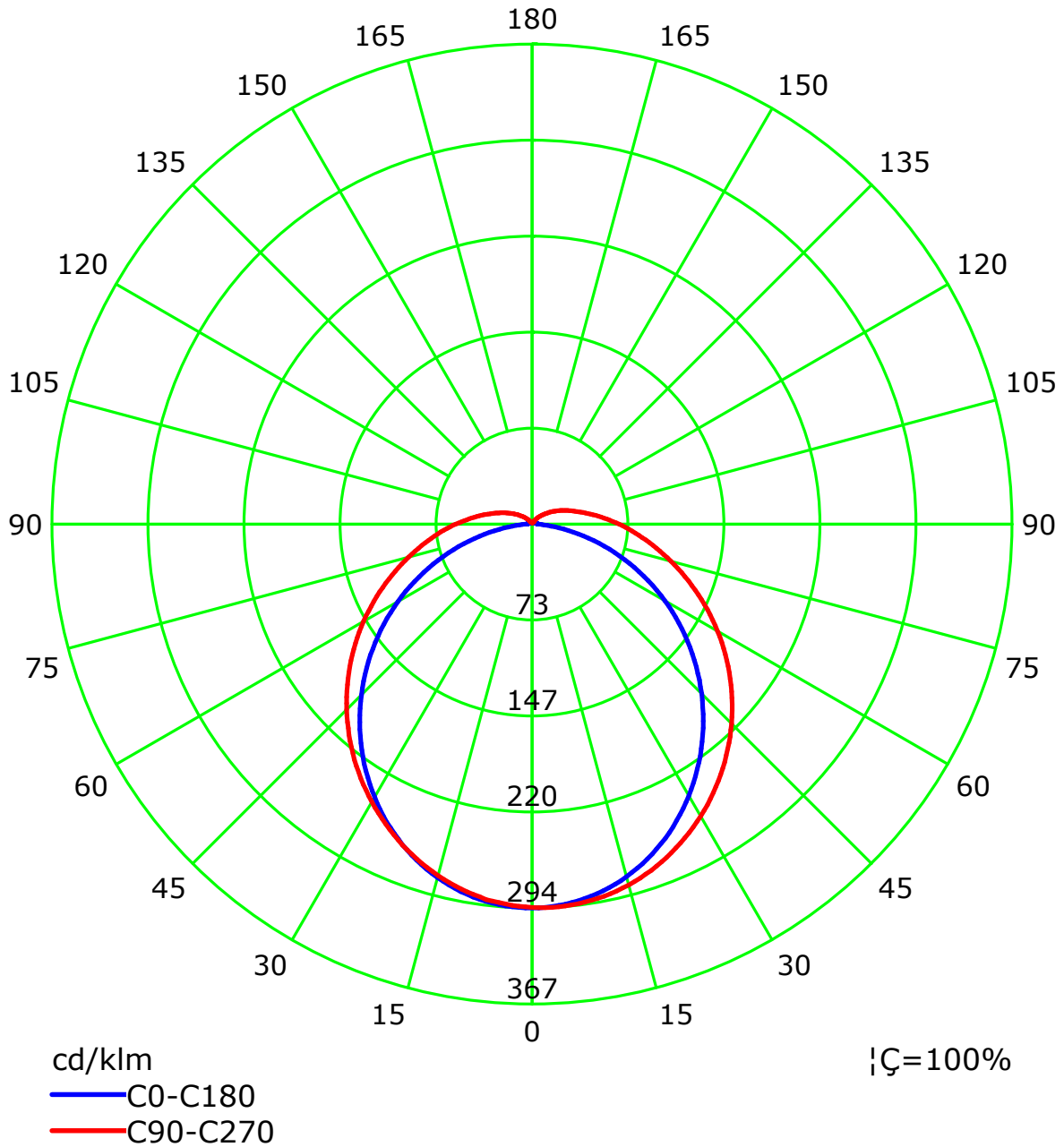
Luminous Intensity Distribution Curve



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)

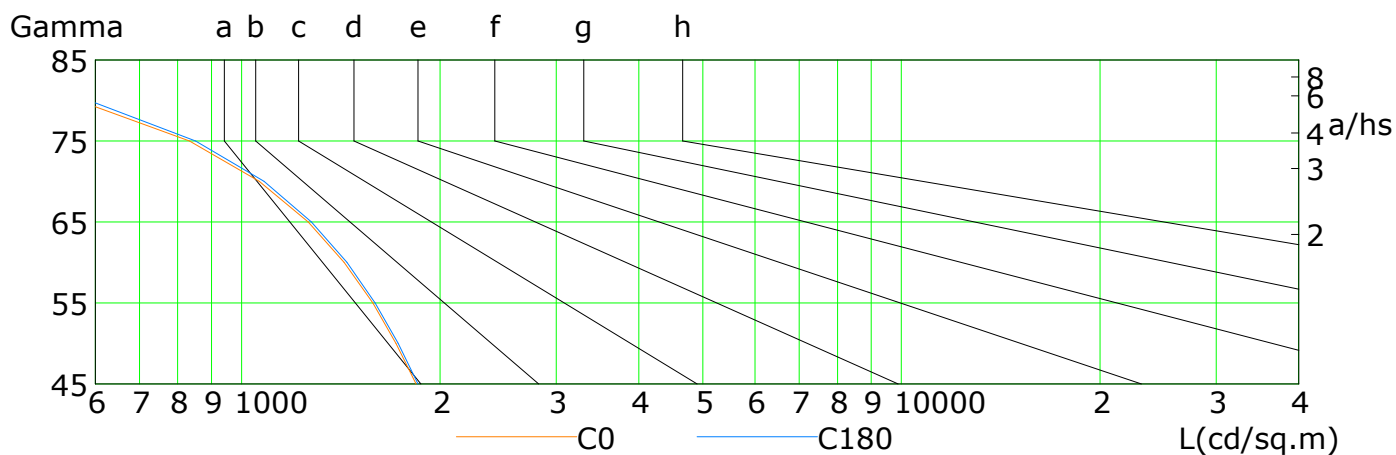
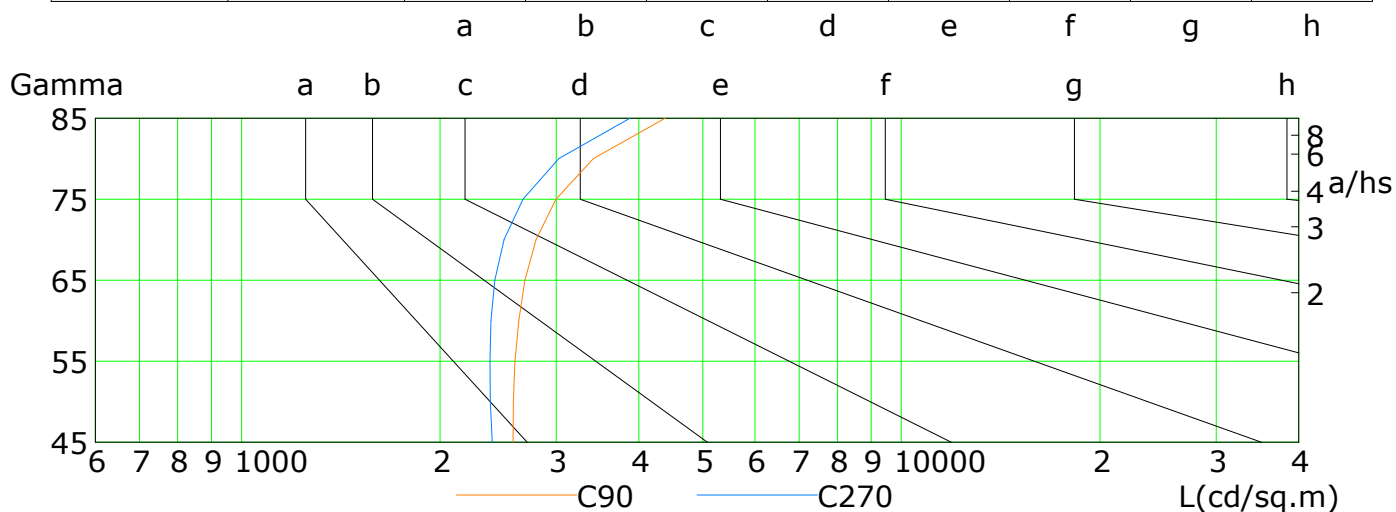


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

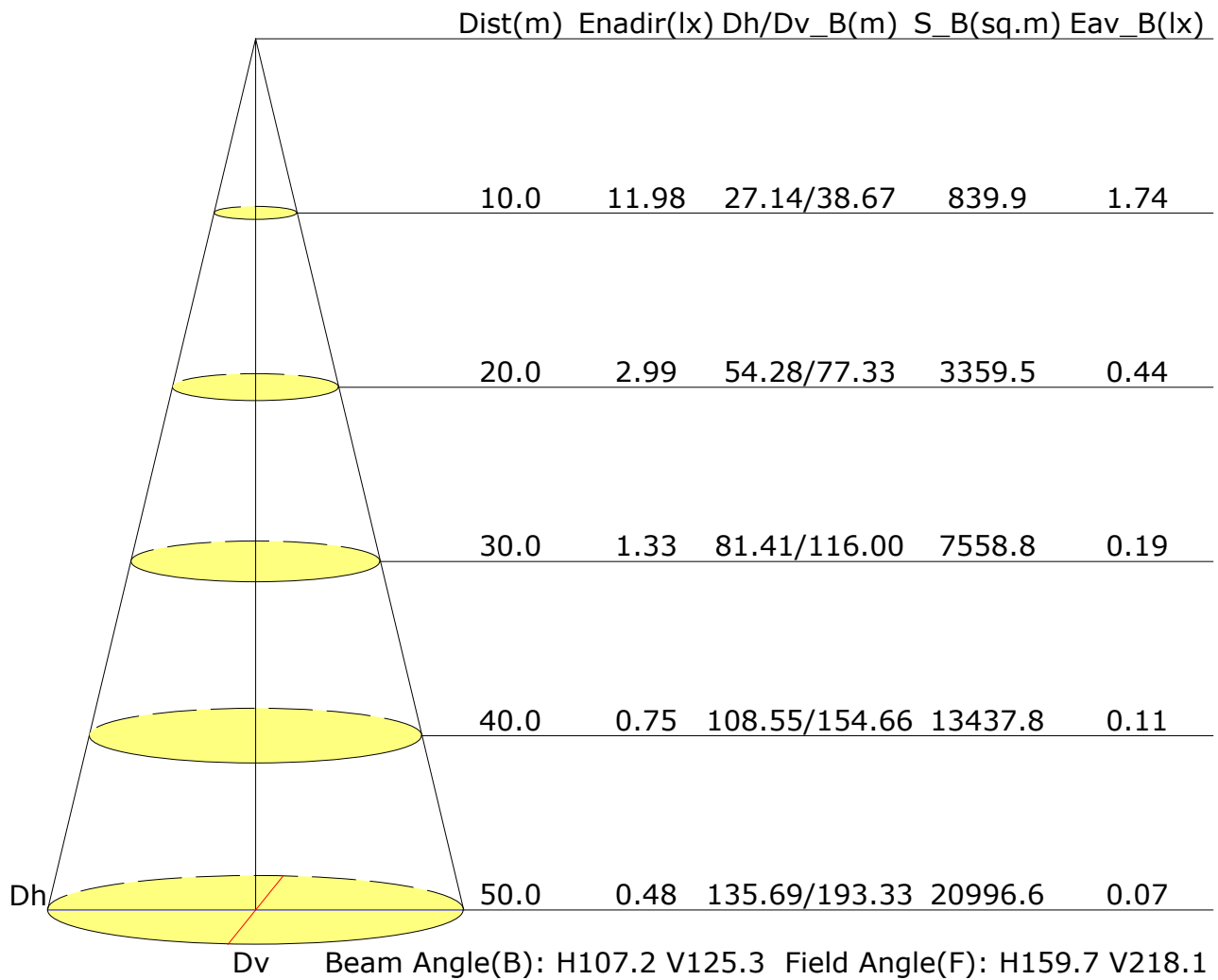


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1839	1713	1580	1430	1262	1063	833	565	291
C90	2578	2581	2597	2631	2687	2794	2996	3414	4383
C180	1850	1728	1594	1444	1276	1082	852	586	304
C270	2397	2383	2380	2388	2421	2500	2669	3025	3875

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	13.4	14.7	13.8	15.1	15.5	15.1	16.4	15.5	16.8	17.2
3H	14.6	15.9	15.1	16.3	16.7	17.1	18.4	17.6	18.8	19.2
4H	15.1	16.2	15.5	16.7	17.1	18.2	19.4	18.7	19.8	20.3
6H	15.3	16.4	15.8	16.9	17.4	19.3	20.4	19.8	20.8	21.3
8H	15.4	16.4	15.9	16.9	17.4	19.9	20.9	20.3	21.4	21.9
12H	15.4	16.4	15.9	16.9	17.4	20.4	21.5	20.9	21.9	22.4
X=4H Y=2H	14.2	15.4	14.7	15.8	16.3	15.5	16.7	16.0	17.1	17.6
3H	15.7	16.7	16.2	17.2	17.7	17.8	18.8	18.3	19.3	19.8
4H	16.3	17.2	16.8	17.7	18.2	19.1	20.0	19.6	20.5	21.0
6H	16.7	17.5	17.2	18.0	18.6	20.3	21.1	20.9	21.7	22.2
8H	16.8	17.5	17.3	18.1	18.7	21.0	21.8	21.6	22.3	22.9
12H	16.8	17.5	17.4	18.1	18.7	21.7	22.4	22.3	22.9	23.6
X=8H Y=4H	16.9	17.6	17.4	18.2	18.8	19.3	20.0	19.8	20.6	21.2
6H	17.5	18.1	18.1	18.7	19.3	20.8	21.4	21.4	21.9	22.6
8H	17.7	18.3	18.3	18.9	19.5	21.6	22.1	22.2	22.7	23.4
12H	17.9	18.3	18.5	19.0	19.6	22.5	23.0	23.1	23.6	24.2
X=12H Y=4H	17.0	17.7	17.6	18.3	18.9	19.3	20.0	19.9	20.5	21.1
6H	17.8	18.3	18.4	18.9	19.6	20.8	21.4	21.4	22.0	22.6
8H	18.1	18.6	18.7	19.2	19.8	21.7	22.2	22.3	22.8	23.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.3				
S=1.5H	+0.4/-0.5					+0.5/-0.5				
S=2.0H	+0.5/-1.0					+0.6/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 4073lm ($8\log(F/F_0) = 4.9$).

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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	0.53	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	0.49	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	0.81	
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:32W 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	0.49	0.42	0.36	0.29	0.25	
	0.20		0.74	0.65	0.58	0.52	0.44	0.38	0.34	0.28	0.24	
0.50	0.50	0.20	0.98	0.82	0.71	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	0.51	0.43	0.37	0.33	0.27	0.23	
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	0.22	
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:32W 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	0.26	0.26	0.27	0.28	0.28	0.29	0.29	0.30	
	0.30		0.17	0.19	0.20	0.21	0.23	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	0.27	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:32W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												