

Report No.:

Test Time: 04.08.2020 15:16

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 40LED 0.5A 44W 5000K prozrachniy 1-10

Number of Lamps: 1

Luminous Length (mm): 1262

Luminous Width (mm): 124

Luminous Height (mm): 85

Voltage: 230.8 V

Current: 0.160 A

Power: 44.27 W

Power Factor: 0.988

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 6379.9 lm

Measurement Flux: 6379.9 lm

Efficiency: 100%

Downward Ratio: 98%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 154.1, 165.2, 165.3, 165.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 108.6, 91.5, 100.8, 101.6

Luminaire Efficacy Rating (LER): 144.16

Central Intensity: 2461.76 cd

Max. Intensity: 2691.67 cd

Pos of Max. Intensity: H112.5 V18

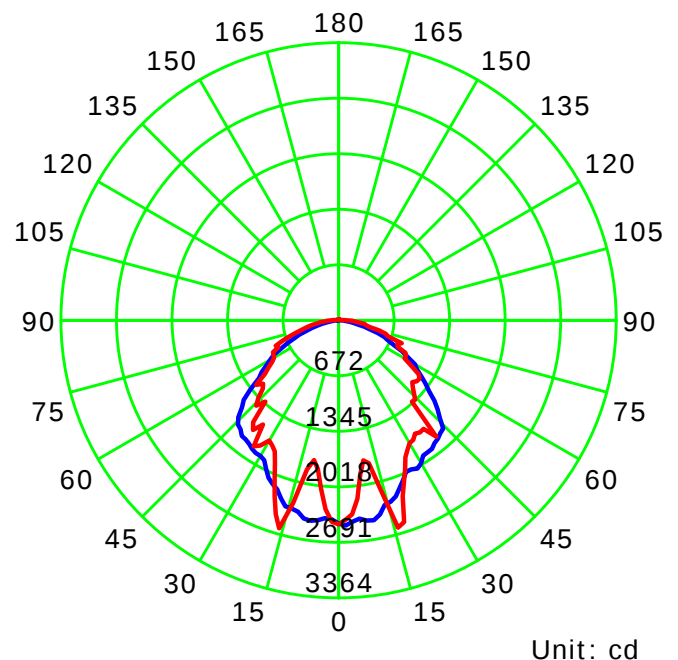
S/MH(C0/C180): 1.19

S/MH(C90/C270): 1.04

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 (°):0.0-180.0:2.0

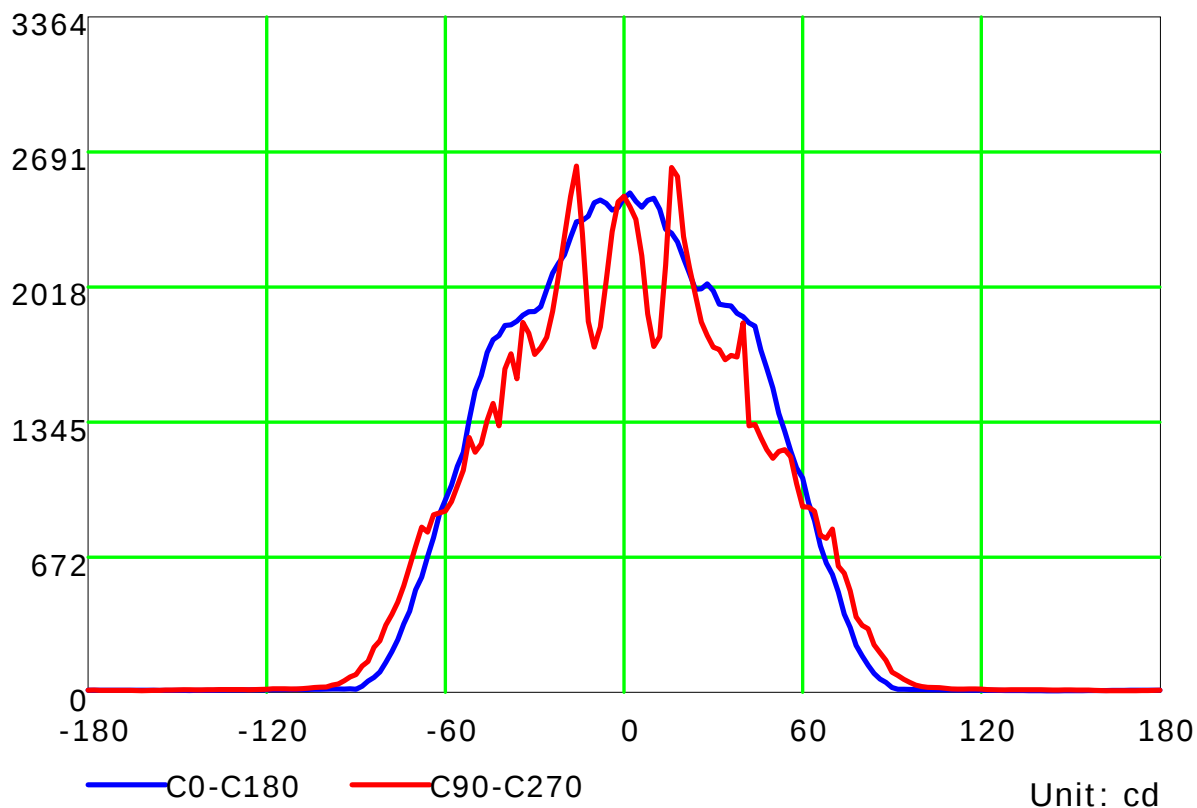
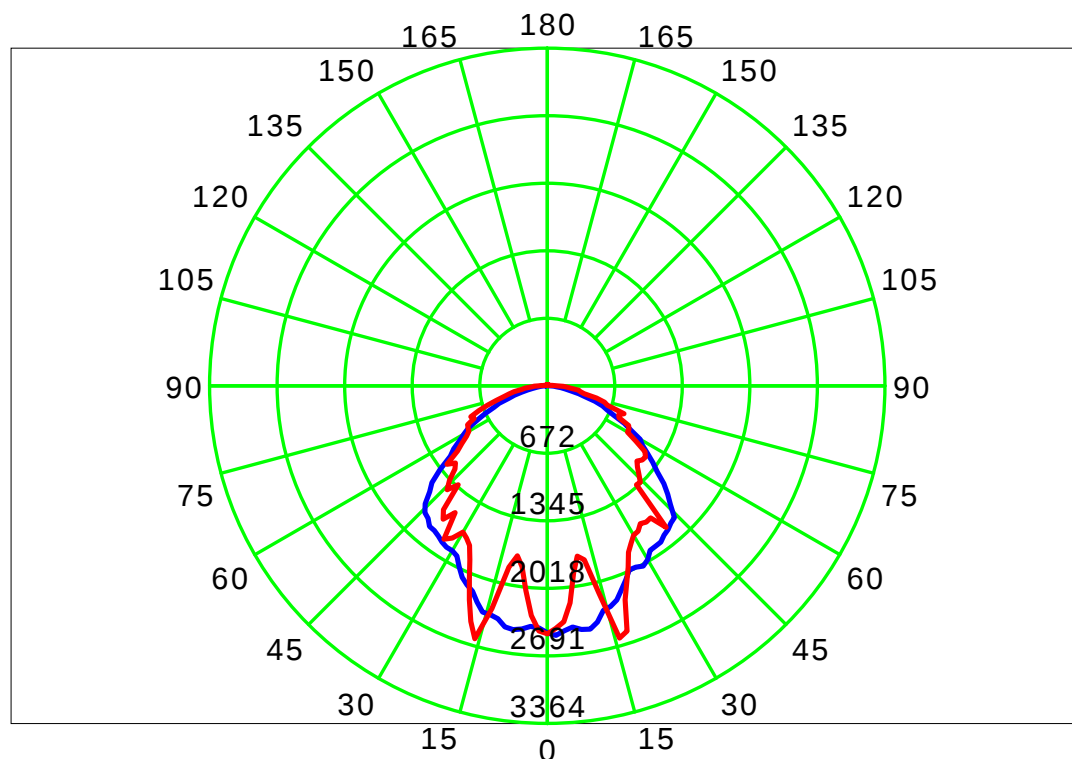
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

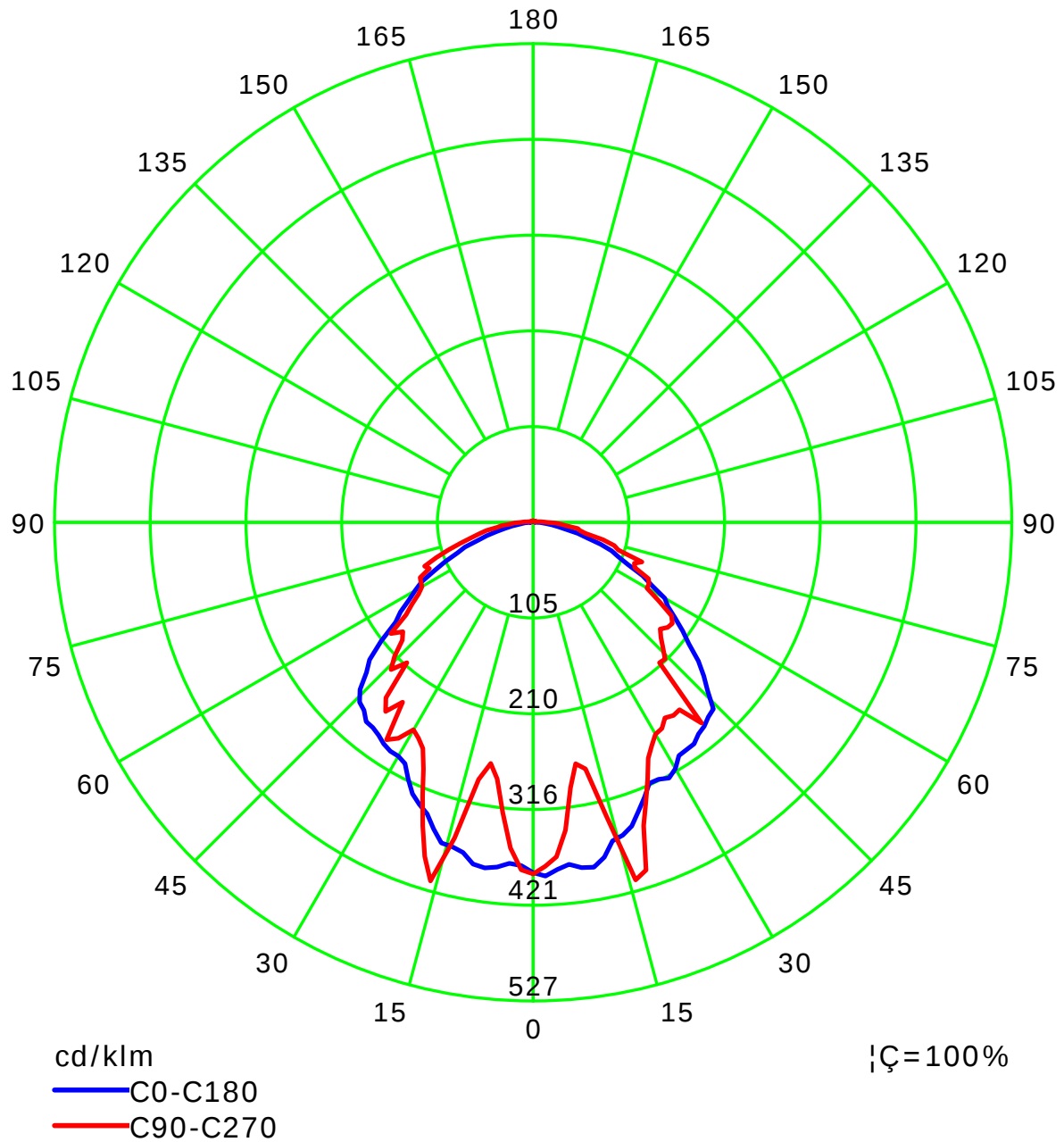
Luminous Intensity Distribution Curve



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Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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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:

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Test Device: LSG-1800B

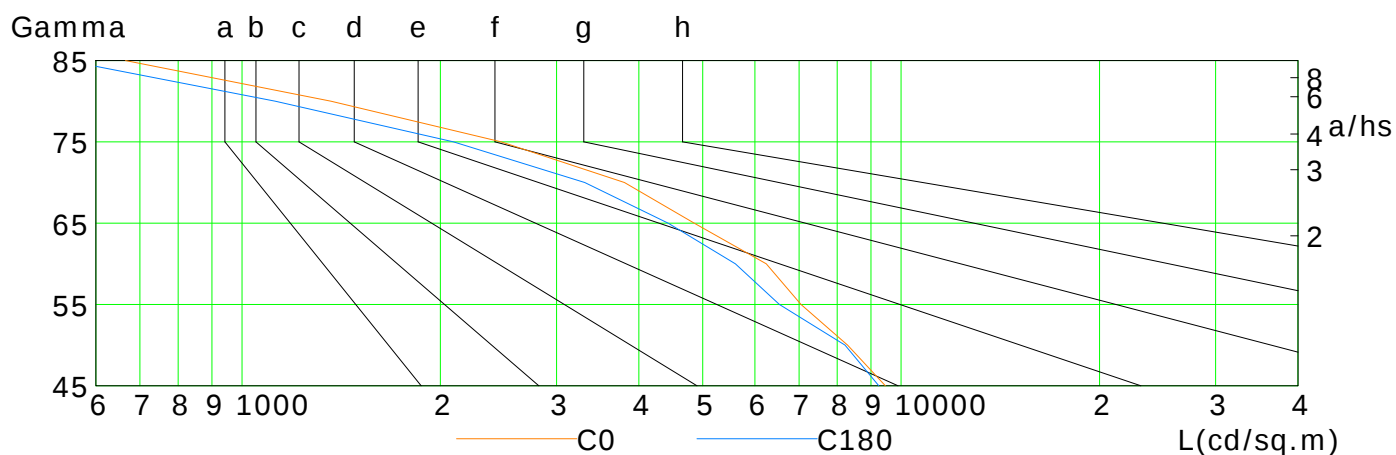
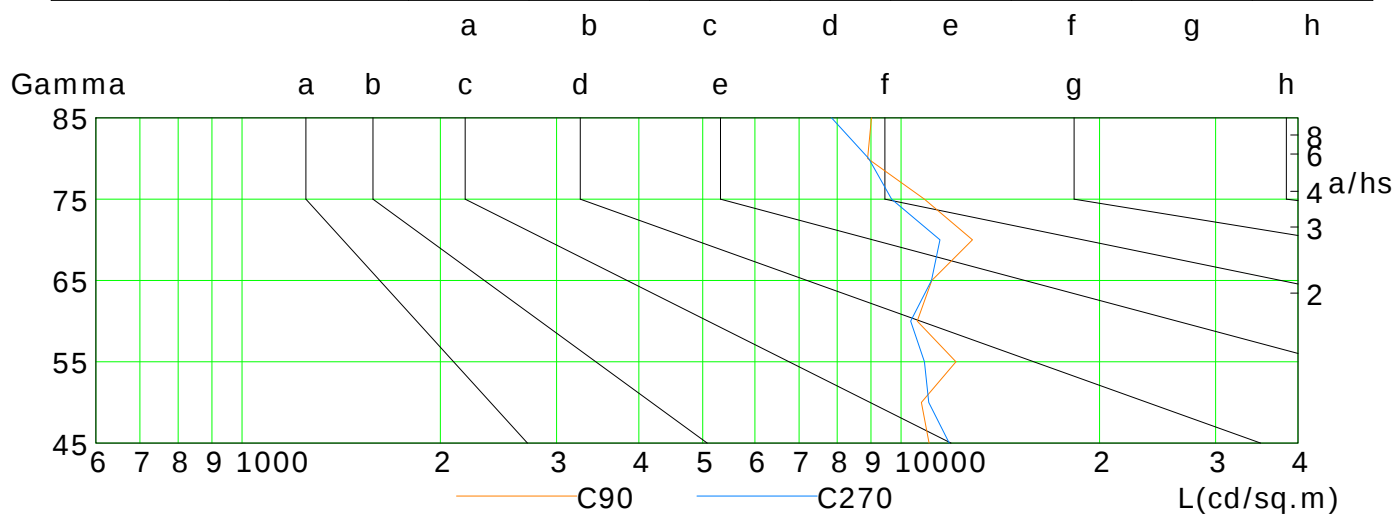
Distance: 12.677 m

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	9462	8296	7049	6242	4855	3803	2473	1365	666
C90	11022	10731	12110	10578	11130	12830	10848	8893	9015
C180	9249	8218	6536	5603	4430	3311	2093	1123	542
C270	11830	11010	10848	10336	11119	11452	9675	8929	7841

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

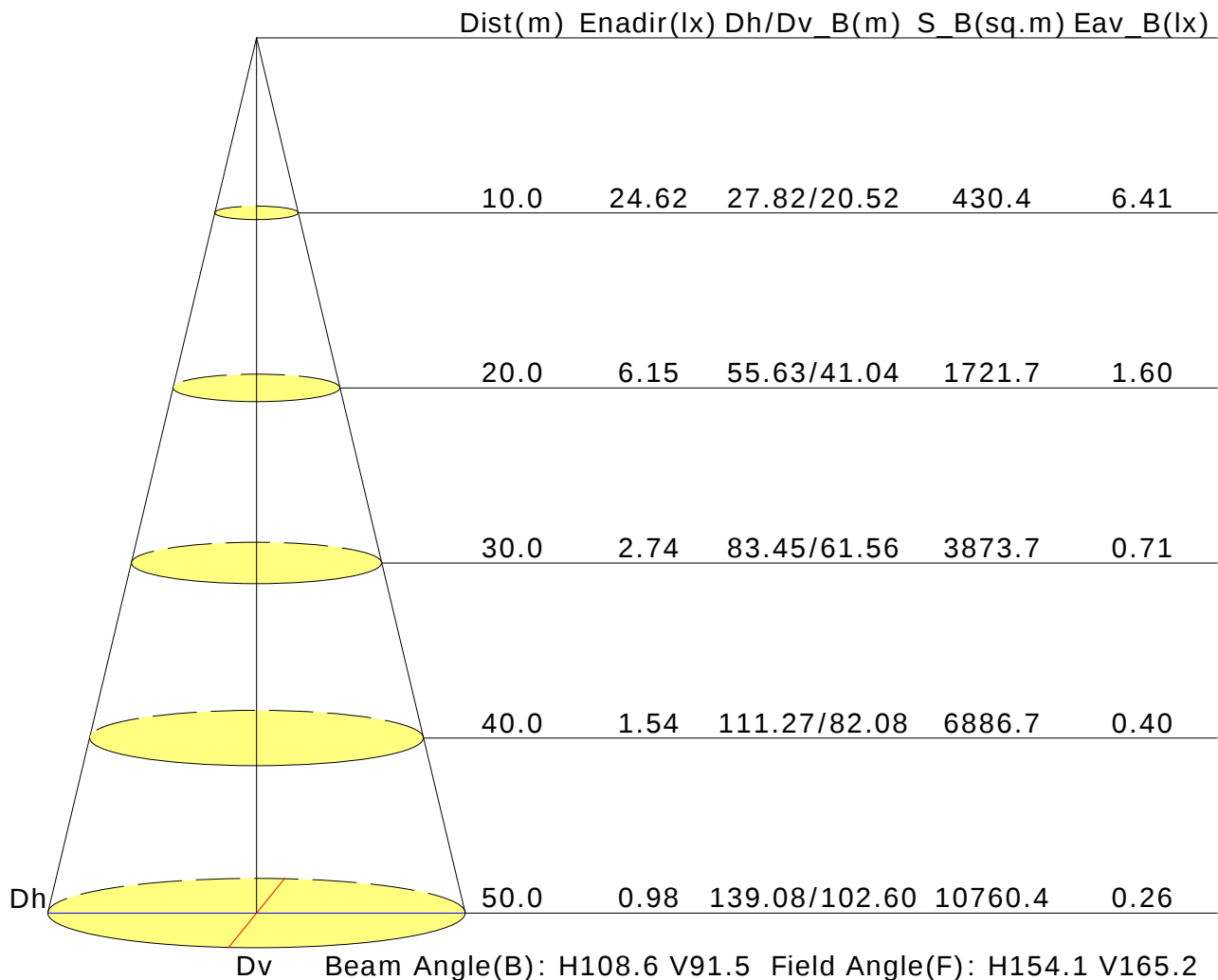
Test Device: LSG-1800B

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	19.1	20.4	19.4	20.7	21.0	19.8	21.2	20.1	21.4	21.7
3H	20.0	21.3	20.4	21.6	21.9	21.8	23.1	22.2	23.4	23.7
4H	20.3	21.5	20.7	21.8	22.1	22.6	23.8	23.0	24.1	24.5
6H	20.4	21.5	20.8	21.9	22.2	23.2	24.3	23.6	24.6	25.0
8H	20.4	21.5	20.8	21.8	22.2	23.4	24.5	23.8	24.8	25.2
12H	20.4	21.4	20.8	21.8	22.2	23.6	24.6	24.0	25.0	25.4
X=4H Y=2H	19.6	20.7	19.9	21.1	21.4	20.2	21.3	20.6	21.7	22.0
3H	20.7	21.7	21.1	22.1	22.4	22.4	23.4	22.8	23.8	24.1
4H	21.1	22.0	21.5	22.4	22.8	23.3	24.2	23.7	24.6	25.0
6H	21.3	22.1	21.7	22.5	22.9	24.0	24.8	24.4	25.2	25.7
8H	21.3	22.1	21.8	22.5	23.0	24.3	25.0	24.7	25.5	25.9
12H	21.3	22.0	21.8	22.5	22.9	24.5	25.2	25.0	25.7	26.2
X=8H Y=4H	21.4	22.2	21.9	22.6	23.1	23.4	24.2	23.9	24.6	25.1
6H	21.8	22.4	22.3	22.8	23.3	24.2	24.8	24.7	25.3	25.8
8H	21.9	22.4	22.4	22.9	23.4	24.6	25.1	25.1	25.6	26.2
12H	21.9	22.4	22.4	22.9	23.4	25.0	25.4	25.5	25.9	26.5
X=12H Y=4H	21.5	22.2	22.0	22.6	23.1	23.4	24.1	23.9	24.6	25.0
6H	21.9	22.4	22.4	22.9	23.4	24.2	24.8	24.8	25.3	25.8
8H	22.0	22.5	22.5	23.0	23.5	24.7	25.1	25.2	25.6	26.2
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.4					+0.1/-0.2				
S=1.5H	+0.8/-0.6					+0.4/-0.5				
S=2.0H	+1.5/-1.5					+0.6/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 6380lm ($8\log(F/F_0) = 6.4$).

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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	0.56	0.66	0.73	0.79	0.86	0.91	0.94	0.99	1.02	
	0.30		0.48	0.58	0.66	0.71	0.79	0.85	0.89	0.95	0.98	
	0.20		0.42	0.52	0.60	0.66	0.74	0.80	0.85	0.91	0.95	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.82	0.87	0.90	0.95	0.97	
	0.30		0.47	0.57	0.64	0.69	0.77	0.82	0.86	0.91	0.94	
	0.20		0.42	0.52	0.59	0.64	0.72	0.78	0.82	0.88	0.92	
0.30	0.50	0.20	0.52	0.62	0.68	0.73	0.79	0.83	0.87	0.91	0.93	
	0.30		0.46	0.56	0.62	0.68	0.75	0.79	0.83	0.88	0.91	
	0.20		0.41	0.51	0.58	0.63	0.71	0.76	0.80	0.85	0.88	
0.00	0.00	0.00	0.39	0.48	0.55	0.60	0.67	0.72	0.75	0.80	0.83	
Rating:44W 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	1.00	0.83	0.71	0.62	0.50	0.42	0.36	0.28	0.23	
	0.30		0.83	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.96	0.79	0.68	0.59	0.47	0.43	0.34	0.26	0.22	
	0.30		0.81	0.69	0.60	0.53	0.43	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.93	0.76	0.65	0.57	0.45	0.38	0.32	0.25	0.21	
	0.30		0.79	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.20	
	0.20		0.69	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.59	0.50	0.43	0.38	0.31	0.26	0.23	0.18	0.15	
Rating:44W 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	0.18	0.20	0.21	0.21	0.22	0.23	0.23	0.24	0.24	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.19	
0.50	0.50	0.20	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.18	0.20	0.20	
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	
	0.30		0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.08	0.09	0.11	0.12	0.14	0.15	0.16	0.18	
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Rating:44W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												