

Report No.:

Test Time: 04.08.2020 15:16

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 40LED 0.3A 38W 5000K prozrachniy

Number of Lamps: 1

Luminous Width (mm): 124

Voltage: 230.8 V

Power: 38.14 W

Luminous Length (mm): 1262

Luminous Height (mm): 85

Current: 0.160 A

Power Factor: 0.988

Photometric Results

CIE Class: Direct

Measurement Flux: 5509.9 lm

Downward Ratio: 98%

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): 144.52

Max. Intensity: 2324.63 cd

S/MH(C0/C180): 1.19

Total Rated Lamp Lumens: 5509.9 lm

Efficiency: 100%

Upward Ratio: 2%

Central Intensity: 2126.07 cd

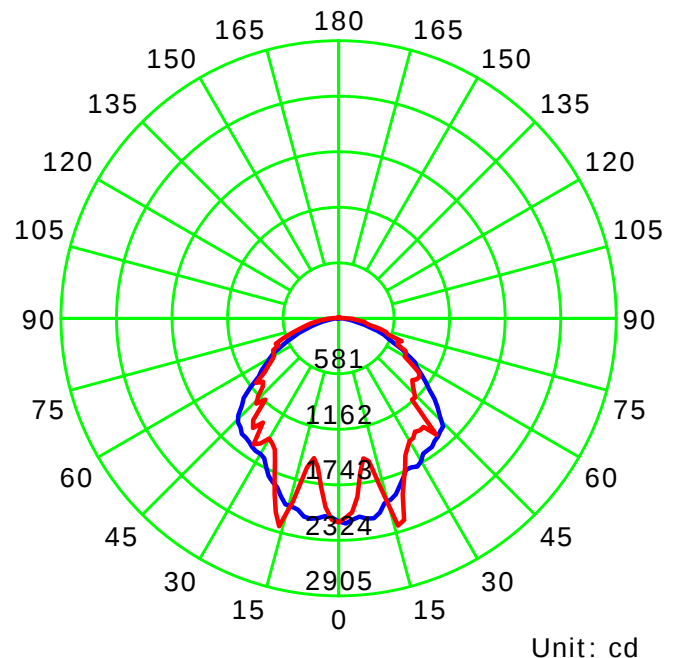
Pos of Max. Intensity: H112.5 V18

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

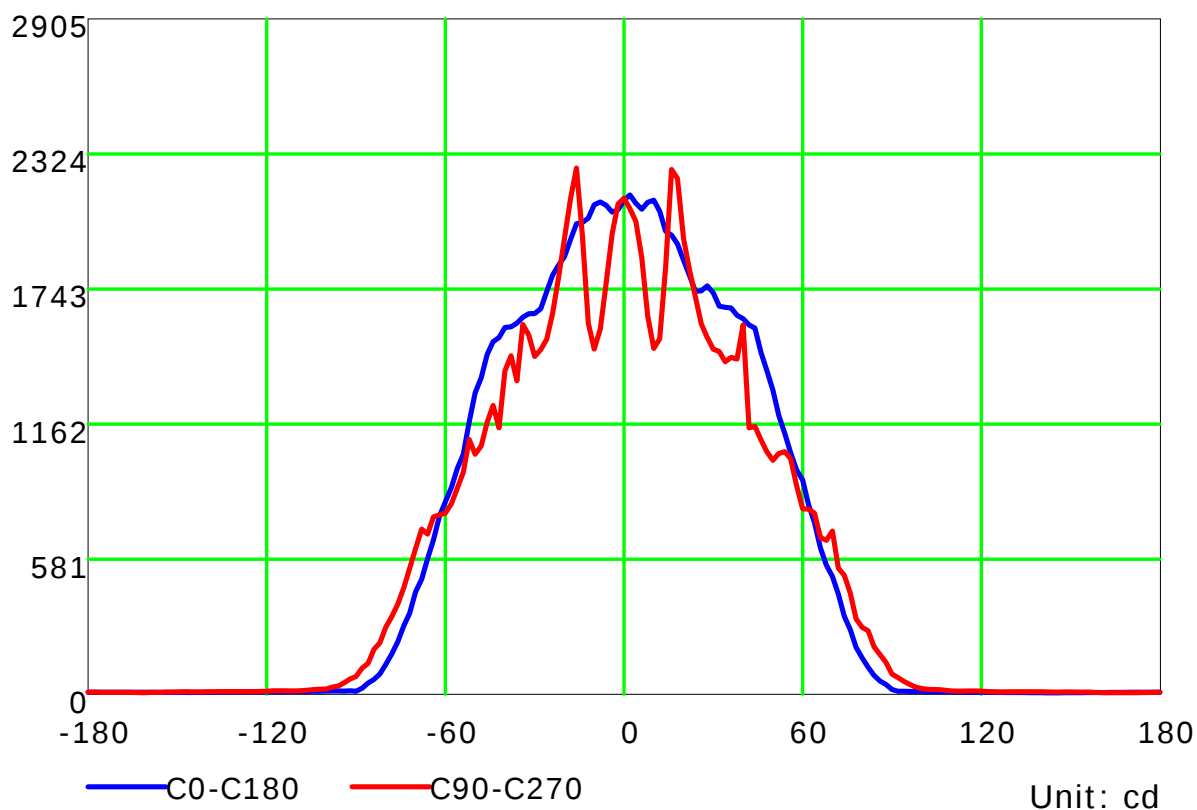
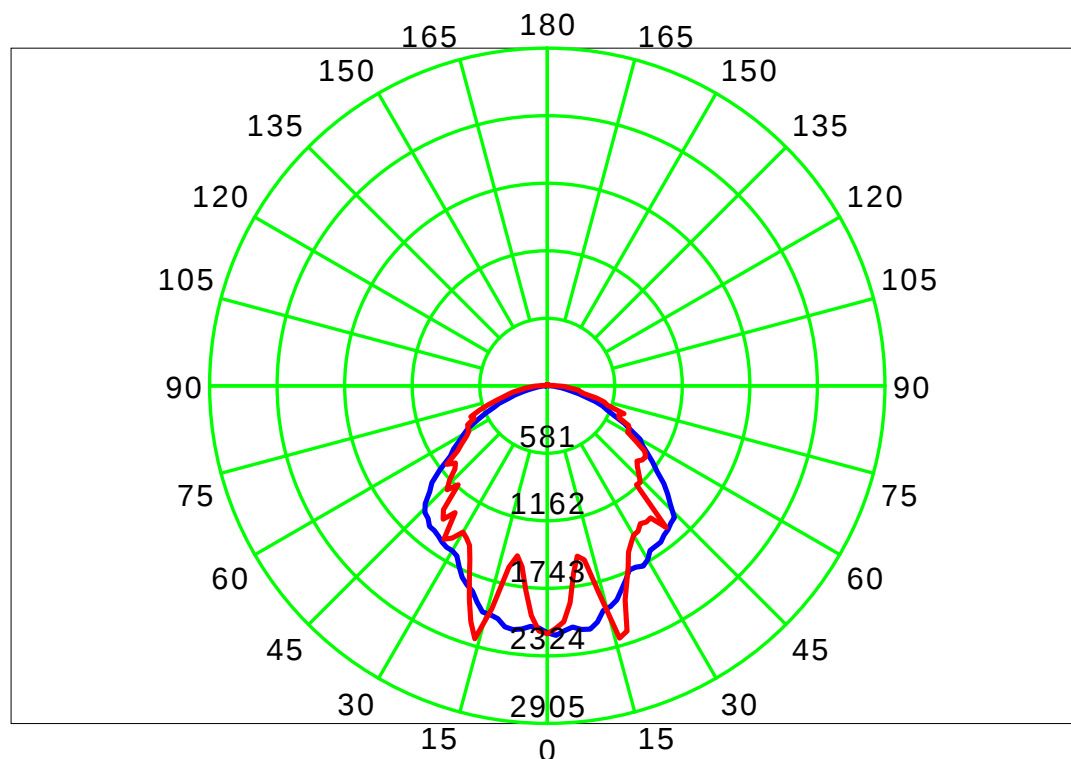
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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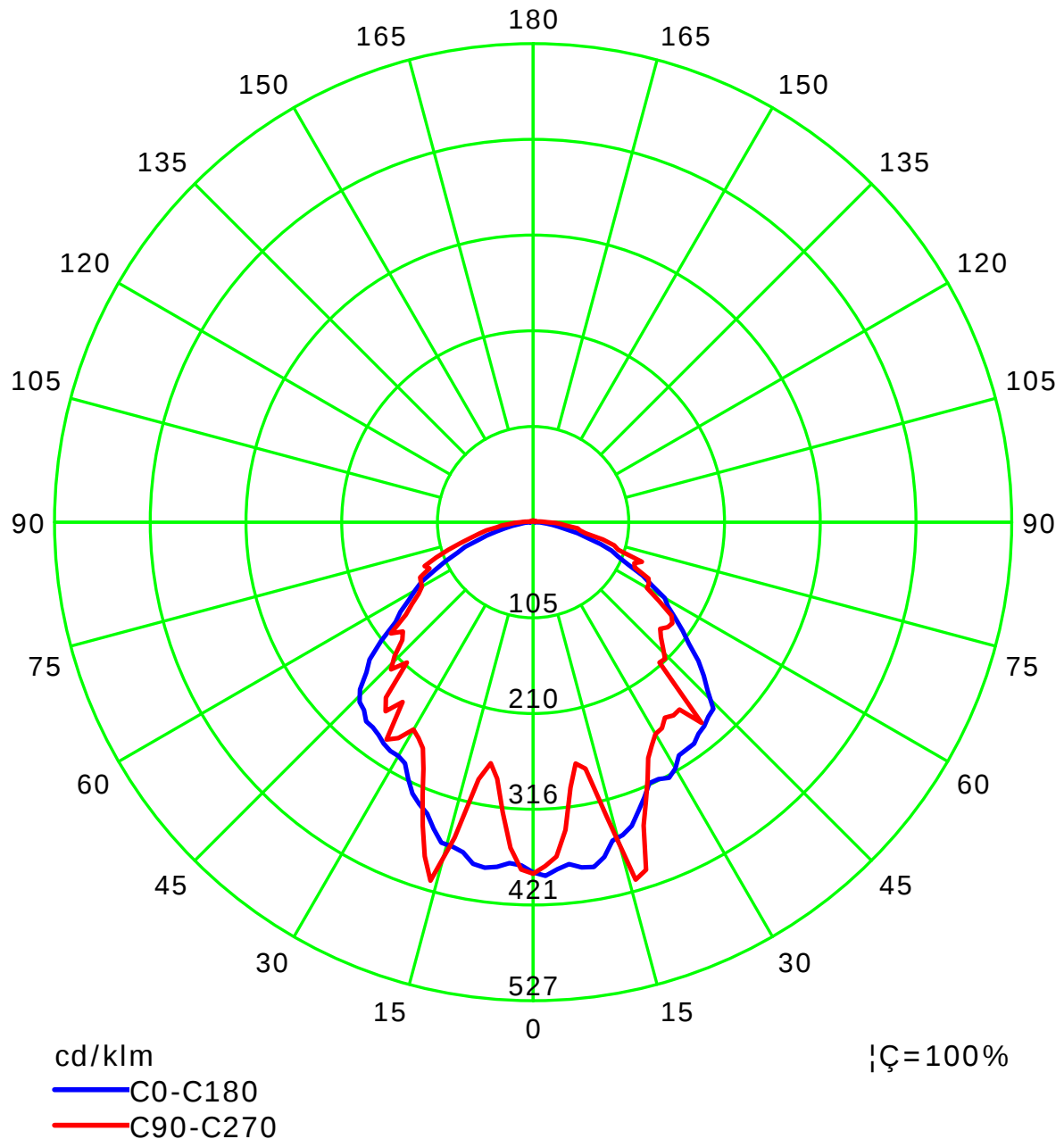
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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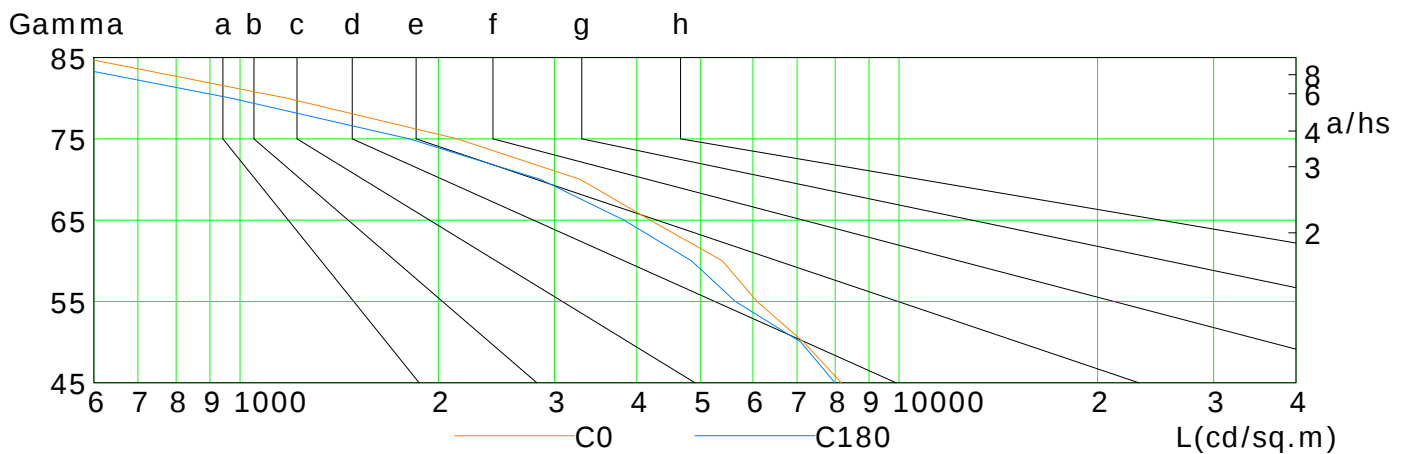
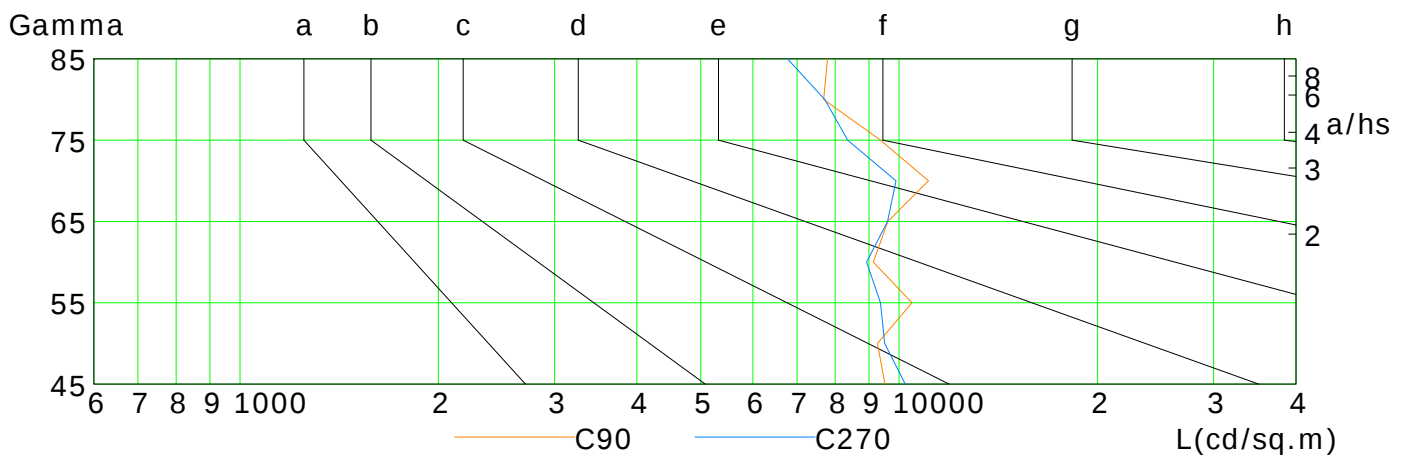
Humidity:

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	8172	7165	6088	5391	4193	3285	2136	1179	575
C90	9519	9268	10459	9135	9612	11081	9368	7681	7785
C180	7988	7097	5644	4839	3826	2859	1807	970	468
C270	10217	9508	9368	8926	9603	9890	8355	7711	6772

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Temperature:

Operator:

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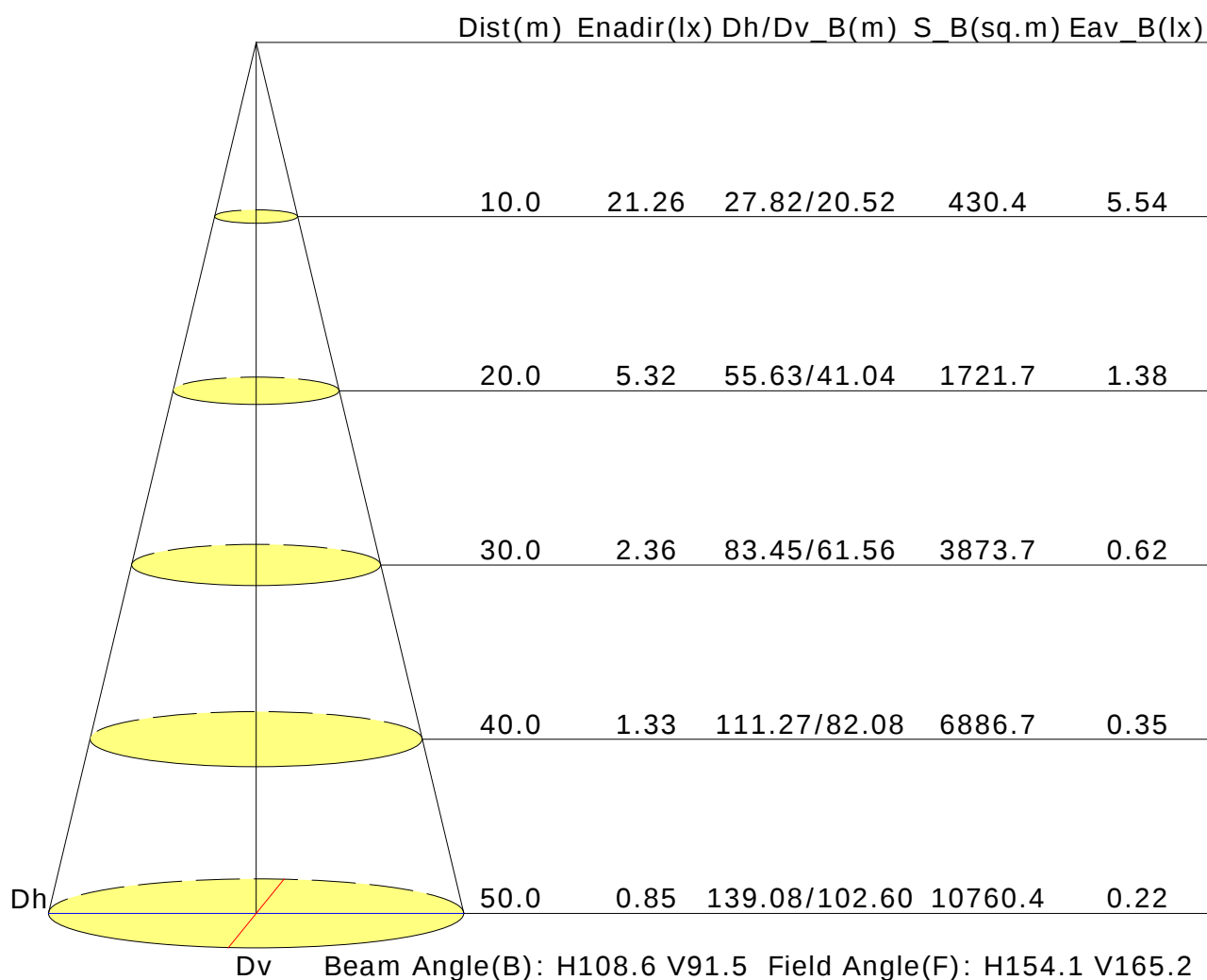
Test Device: LSG-1800B

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	18.6	19.9	18.9	20.2	20.5	19.3	20.7	19.6	20.9	21.2
3H	19.5	20.7	19.9	21.1	21.4	21.3	22.6	21.7	22.9	23.2
4H	19.8	21.0	20.2	21.3	21.6	22.1	23.3	22.5	23.6	24.0
6H	19.9	21.0	20.3	21.4	21.7	22.7	23.8	23.1	24.1	24.5
8H	19.9	21.0	20.3	21.3	21.7	22.9	24.0	23.3	24.3	24.7
12H	19.9	20.9	20.3	21.3	21.7	23.1	24.1	23.5	24.5	24.9
X=4H Y=2H	19.0	20.2	19.4	20.5	20.9	19.7	20.8	20.0	21.2	21.5
3H	20.2	21.2	20.6	21.5	21.9	21.9	22.9	22.3	23.2	23.6
4H	20.6	21.5	21.0	21.9	22.3	22.8	23.7	23.2	24.1	24.5
6H	20.8	21.6	21.2	22.0	22.4	23.5	24.3	23.9	24.7	25.1
8H	20.8	21.5	21.3	22.0	22.5	23.8	24.5	24.2	24.9	25.4
12H	20.8	21.5	21.3	21.9	22.4	24.0	24.7	24.5	25.2	25.6
X=8H Y=4H	20.9	21.7	21.4	22.1	22.6	22.9	23.7	23.4	24.1	24.6
6H	21.2	21.8	21.7	22.3	22.8	23.7	24.3	24.2	24.8	25.3
8H	21.3	21.9	21.9	22.4	22.9	24.1	24.6	24.6	25.1	25.7
12H	21.4	21.9	21.9	22.4	22.9	24.4	24.9	25.0	25.4	26.0
X=12H Y=4H	21.0	21.6	21.5	22.1	22.6	22.9	23.6	23.4	24.0	24.5
6H	21.3	21.9	21.9	22.4	22.9	23.7	24.3	24.3	24.8	25.3
8H	21.5	22.0	22.0	22.5	23.0	24.1	24.6	24.7	25.1	25.7
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 5510lm ($8\log(F/F_0) = 5.9$).

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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	0.56	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: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	1.00	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: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	0.18	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:38W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											