

Report No.:

Test Time: 19.06.2020 13:20

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 65W 4000K frozen iFA40'300(110) (x2) s soedineniem

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.4 V

Current: 0.324 A

Power: 69.30 W

Power Factor: 0.964

Photometric Results

CIE Class: Direct

Measurement Flux: 8514.9 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 8514.9 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 150.0, 133.8, 142.0, 143.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.2, 88.5, 94.2, 94.8

Luminaire Efficacy Rating (LER): 122.92

Central Intensity: 3764.2 cd

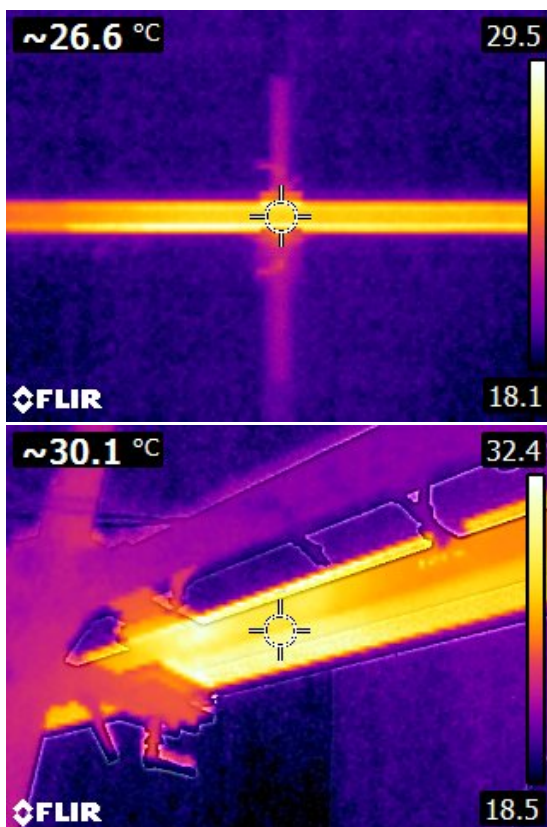
Max. Intensity: 3773.63 cd

Pos of Max. Intensity: H112.5 V0

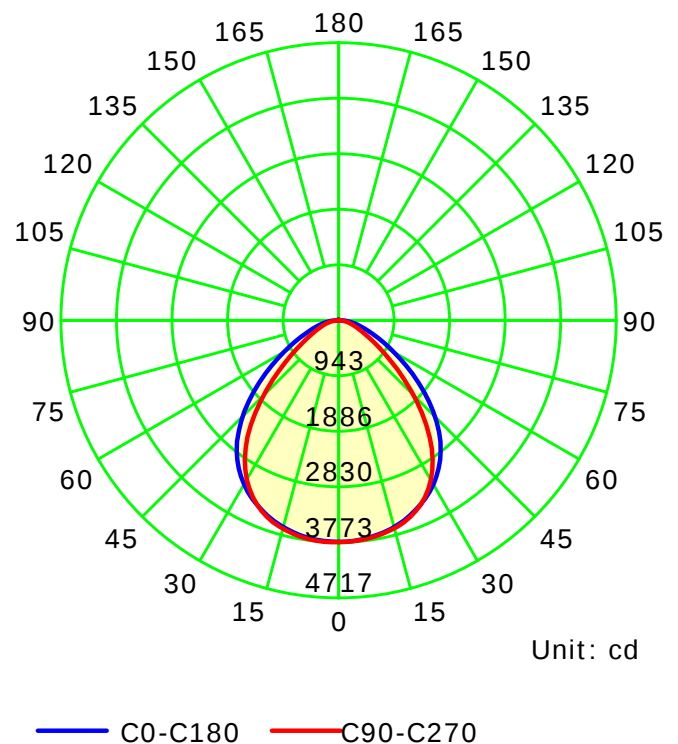
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.22

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

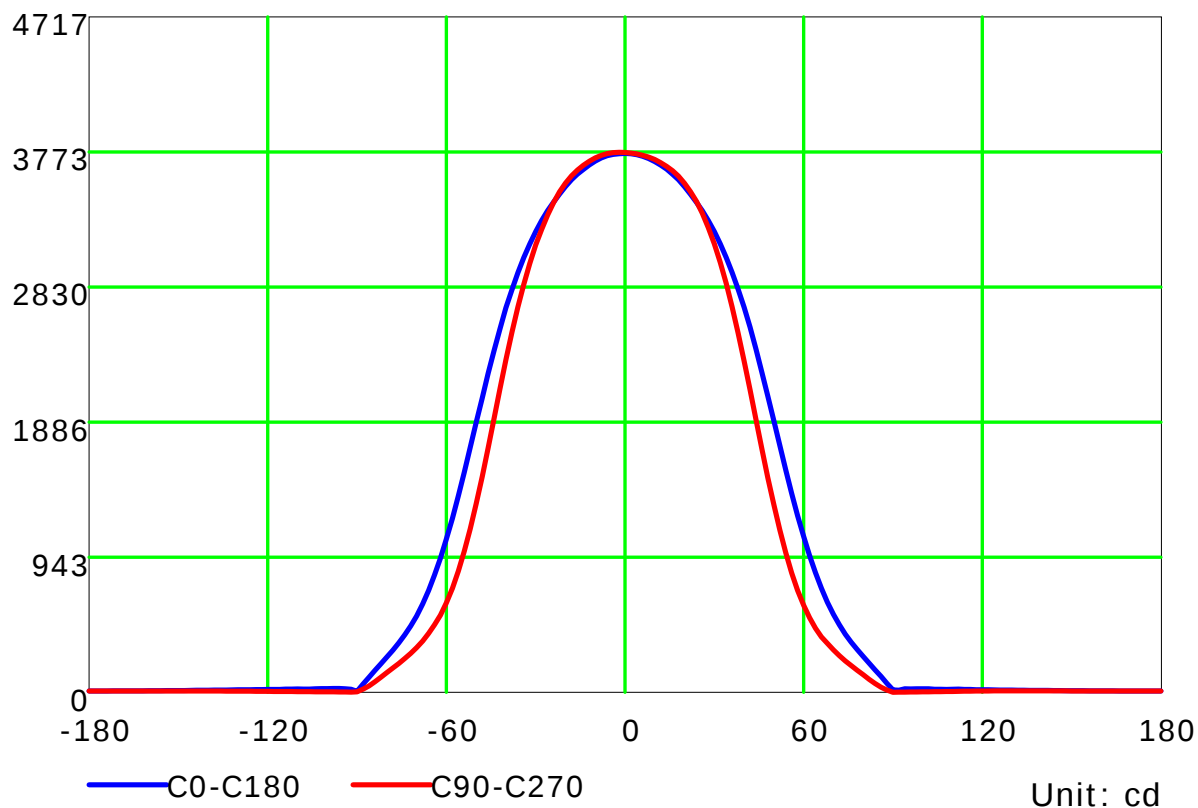
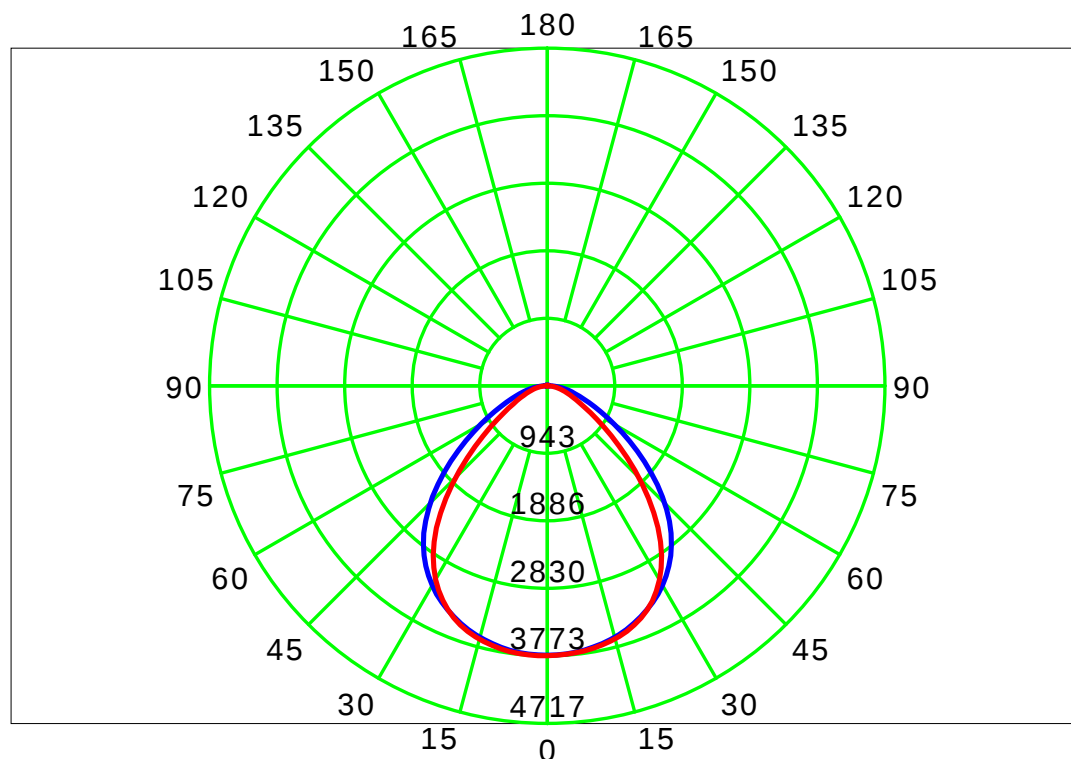
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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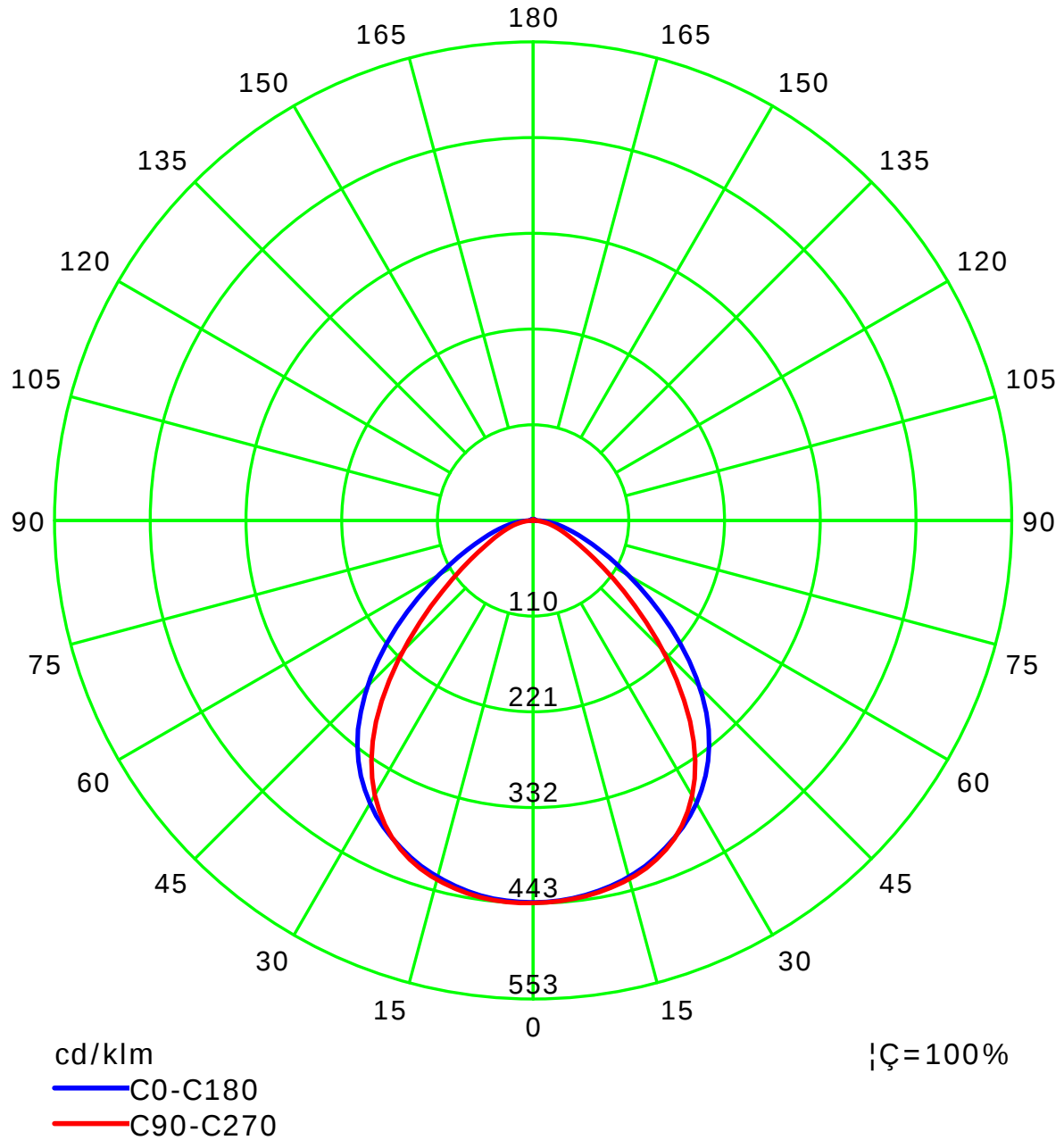
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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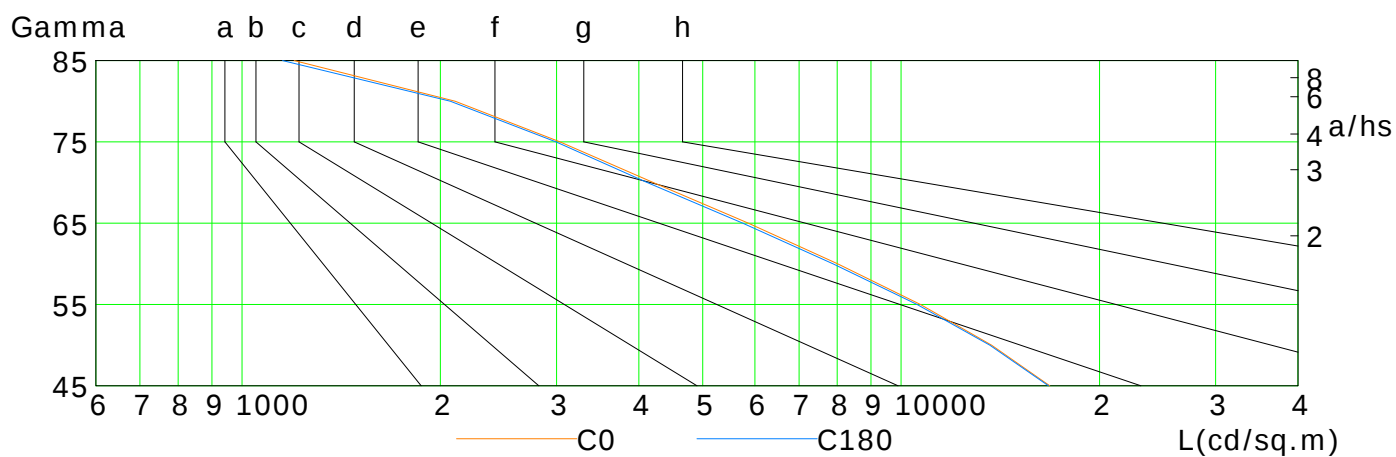
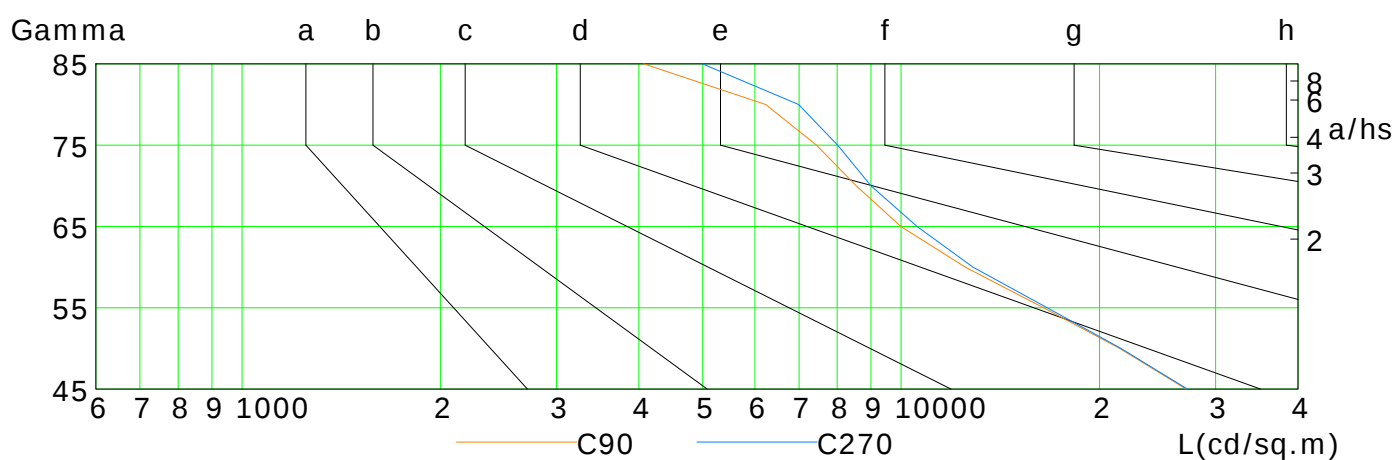
Humidity:

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	16804	13711	10696	8013	5865	4207	3036	2105	1200
C90	27072	21455	16445	12510	9989	8548	7441	6228	4070
C180	16736	13626	10573	7882	5751	4118	2995	2070	1152
C270	27180	21555	16660	12849	10570	9001	8011	6991	4994

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Test Type: TYPE C

Temperature:

Operator:

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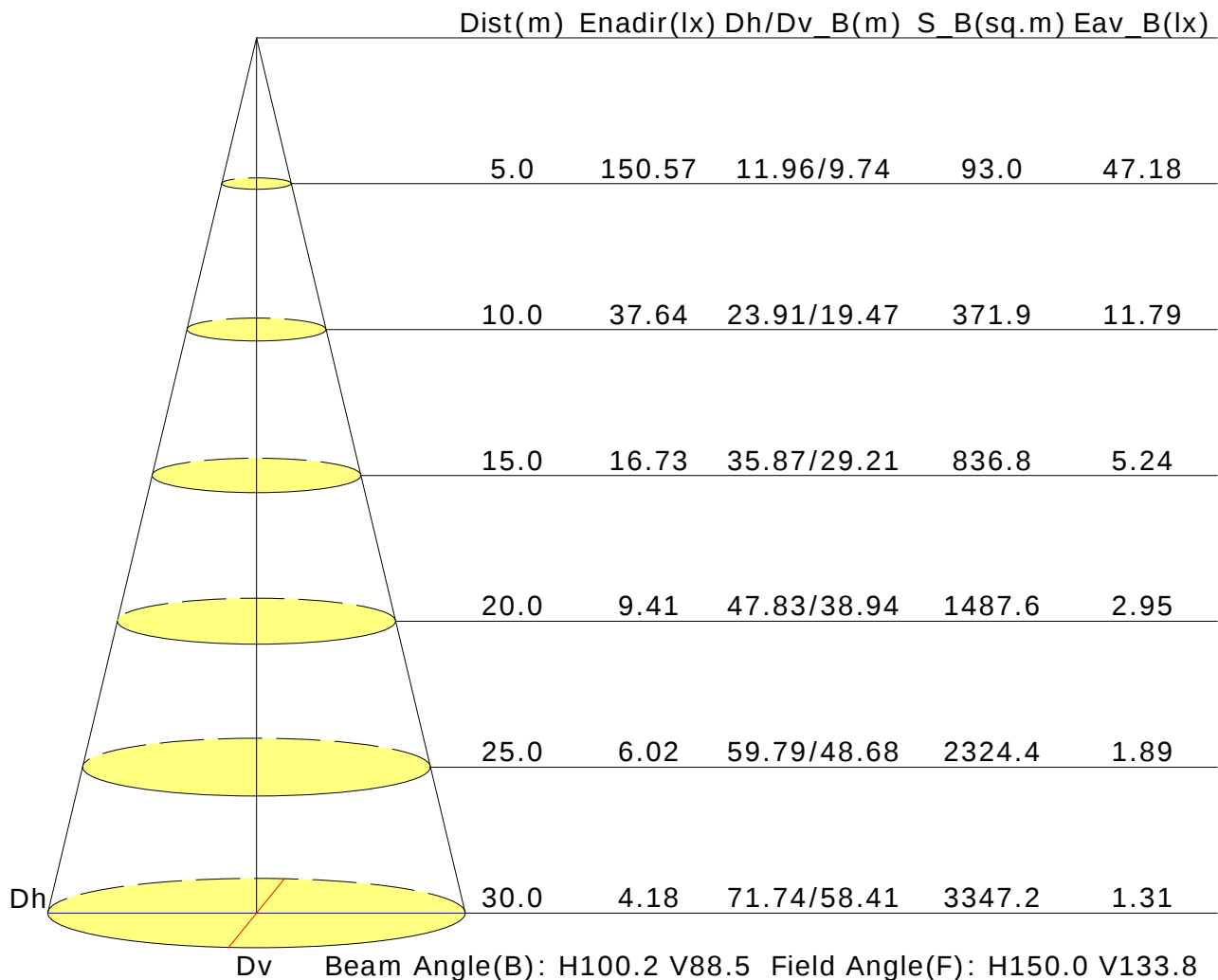
Test Device: LSG-1800B

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	20.8	22.1	21.1	22.3	22.6	20.6	21.8	20.9	22.1	22.3
3H	21.3	22.5	21.7	22.7	23.0	21.1	22.2	21.4	22.5	22.7
4H	21.5	22.5	21.8	22.8	23.2	21.3	22.3	21.6	22.6	22.9
6H	21.6	22.6	22.0	22.9	23.2	21.4	22.4	21.8	22.7	23.0
8H	21.6	22.6	22.0	22.9	23.2	21.4	22.4	21.8	22.7	23.1
12H	21.6	22.5	22.0	22.9	23.2	21.5	22.4	21.8	22.7	23.1
X=4H Y=2H	21.0	22.0	21.3	22.3	22.6	20.8	21.8	21.1	22.1	22.4
3H	21.6	22.5	22.0	22.9	23.2	21.4	22.3	21.7	22.6	23.0
4H	21.9	22.7	22.3	23.0	23.4	21.6	22.4	22.0	22.8	23.2
6H	22.0	22.8	22.5	23.1	23.6	21.8	22.5	22.3	22.9	23.4
8H	22.1	22.7	22.5	23.2	23.6	21.9	22.6	22.3	23.0	23.4
12H	22.1	22.7	22.6	23.1	23.6	21.9	22.5	22.4	22.9	23.4
X=8H Y=4H	21.9	22.5	22.3	23.0	23.4	21.7	22.3	22.1	22.7	23.2
6H	22.1	22.7	22.6	23.1	23.6	21.9	22.5	22.4	22.9	23.4
8H	22.2	22.7	22.7	23.2	23.7	22.0	22.5	22.5	23.0	23.5
12H	22.3	22.7	22.8	23.2	23.7	22.1	22.5	22.6	23.0	23.5
X=12H Y=4H	21.9	22.5	22.3	22.9	23.4	21.6	22.2	22.1	22.7	23.1
6H	22.1	22.6	22.6	23.1	23.6	21.9	22.4	22.4	22.9	23.4
8H	22.2	22.6	22.7	23.1	23.6	22.0	22.4	22.5	22.9	23.4
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.6					+0.5/-0.8				
S=1.5H	+0.9/-1.6					+1.5/-2.0				
S=2.0H	+1.9/-2.4					+2.7/-3.0				

Calculate in accordance with CIE Pub.117. The table is revised with 8515lm ($8\log(F/F_0) = 7.4$).

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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	0.64	0.74	0.81	0.86	0.92	0.96	0.99	1.03	1.06	
	0.30		0.58	0.68	0.75	0.80	0.87	0.92	0.95	1.00	1.03	
	0.20		0.53	0.63	0.70	0.75	0.83	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.63	0.72	0.79	0.83	0.89	0.93	0.96	0.99	1.01	
	0.30		0.57	0.67	0.73	0.78	0.85	0.89	0.92	0.96	0.99	
	0.20		0.52	0.62	0.69	0.74	0.81	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.61	0.70	0.76	0.81	0.86	0.90	0.92	0.95	0.97	
	0.30		0.56	0.65	0.72	0.76	0.82	0.87	0.89	0.93	0.95	
	0.20		0.52	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
0.00	0.00	0.00	0.50	0.59	0.65	0.70	0.76	0.80	0.83	0.86	0.89	
Rating:69W 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	0.88	0.71	0.60	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.73	0.61	0.52	0.46	0.37	0.31	0.27	0.21	0.17	
	0.20		0.63	0.53	0.46	0.41	0.34	0.29	0.25	0.20	0.16	
0.50	0.50	0.20	0.84	0.68	0.57	0.49	0.39	0.36	0.27	0.21	0.17	
	0.30		0.71	0.59	0.50	0.44	0.35	0.30	0.25	0.20	0.16	
	0.20		0.62	0.52	0.45	0.40	0.33	0.28	0.24	0.19	0.16	
0.30	0.50	0.20	0.81	0.65	0.54	0.47	0.37	0.30	0.26	0.20	0.16	
	0.30		0.70	0.57	0.49	0.42	0.34	0.28	0.24	0.19	0.16	
	0.20		0.61	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
0.00	0.00	0.00	0.50	0.40	0.34	0.30	0.24	0.20	0.17	0.13	0.11	
Rating:69W 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	0.16	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.10	0.13	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.19	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.20	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:69W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												