

Report No.:

Test Time: 18.06.2020 21:42

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 45W 4000K frozen ИПС50-382Т(130) IP20 s soedineniem

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.3 V

Current: 0.203 A

Power: 44.11 W

Power Factor: 0.981

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 5877.7 lm

Measurement Flux: 5877.7 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 150.1, 134.4, 142.7, 143.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.1, 88.6, 94.4, 94.7

Luminaire Efficacy Rating (LER): 133.30

Central Intensity: 2597.32 cd

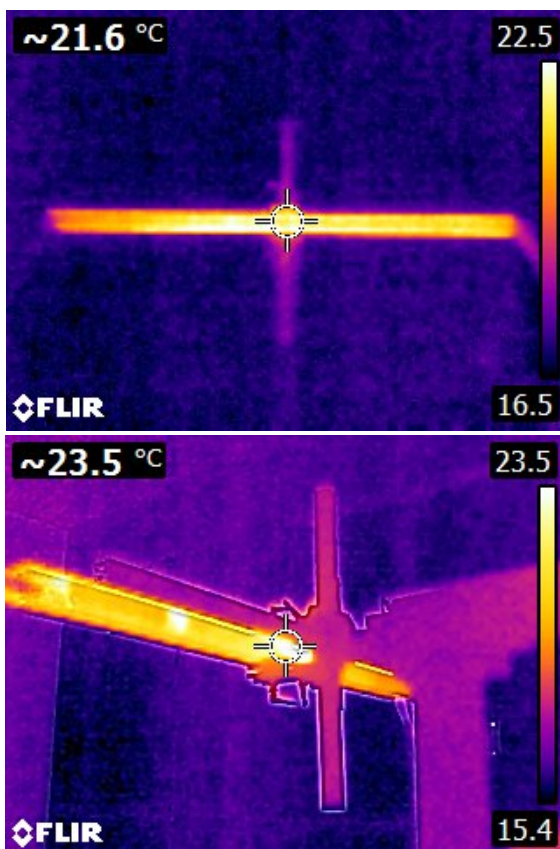
Max. Intensity: 2597.98 cd

Pos of Max. Intensity: H22.5 V0

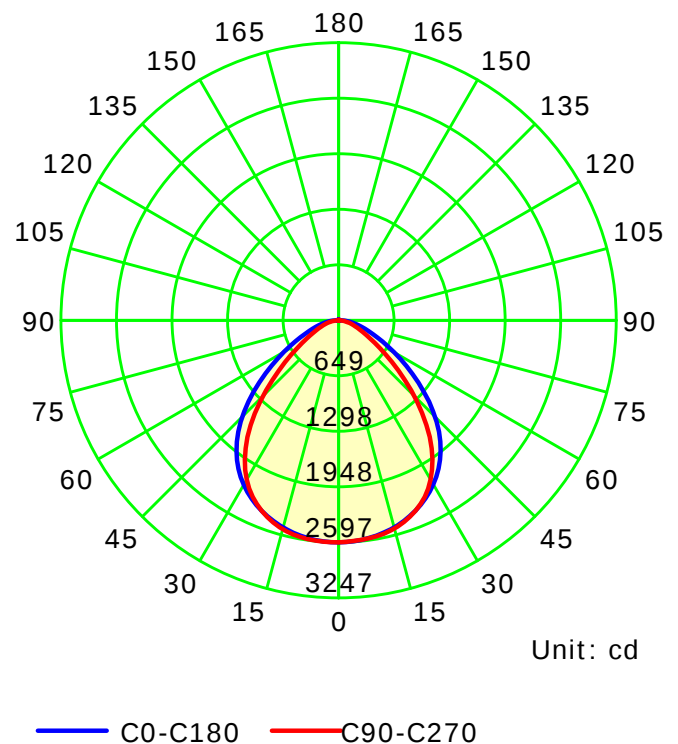
S/MH(C0/C180): 1.26

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

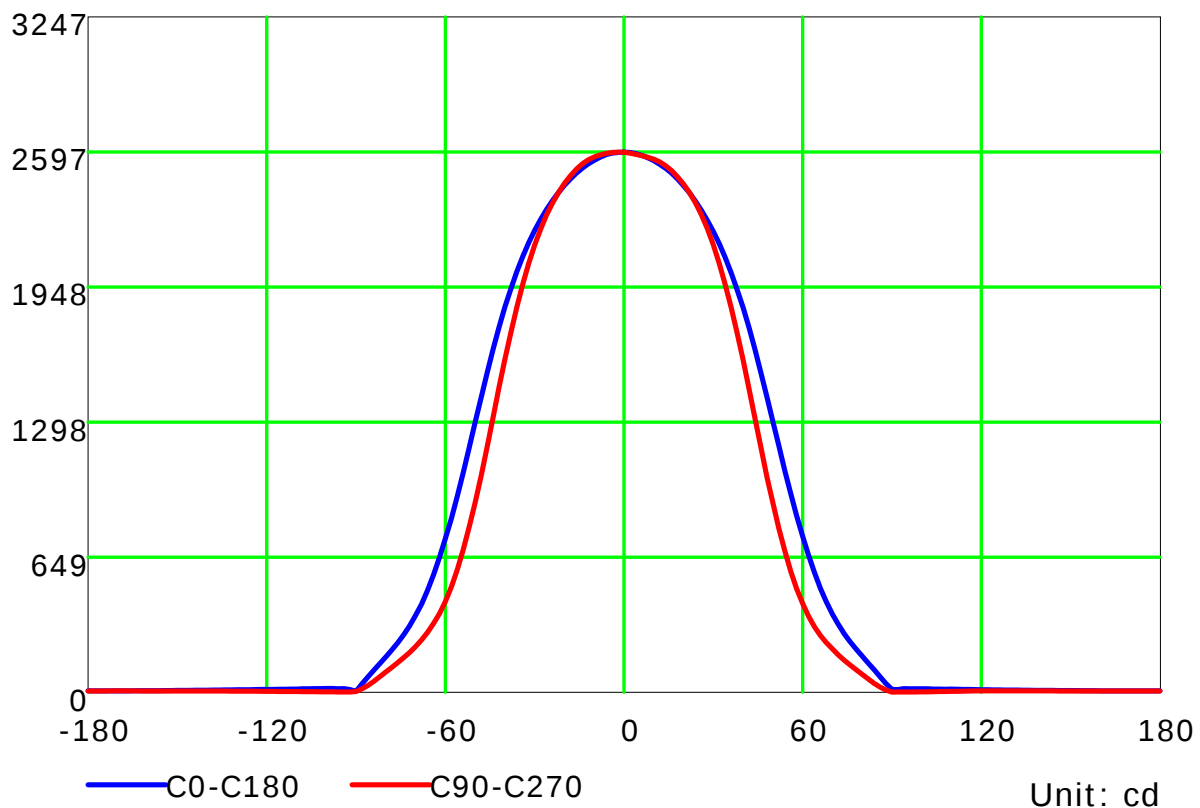
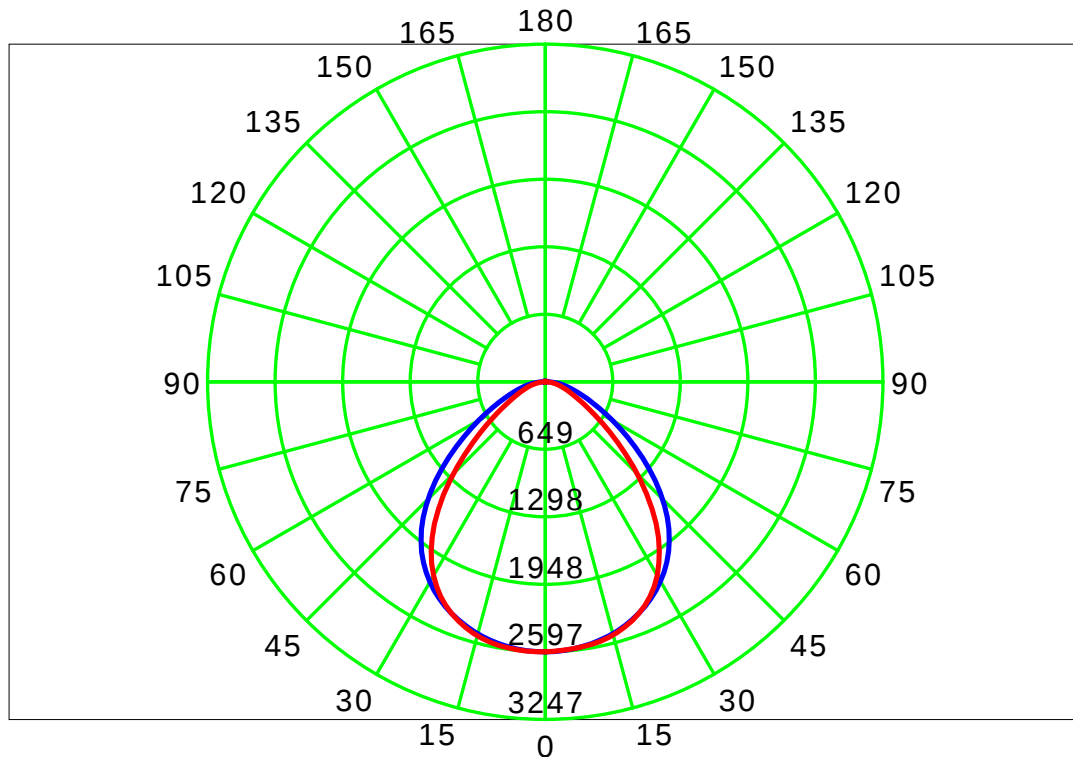
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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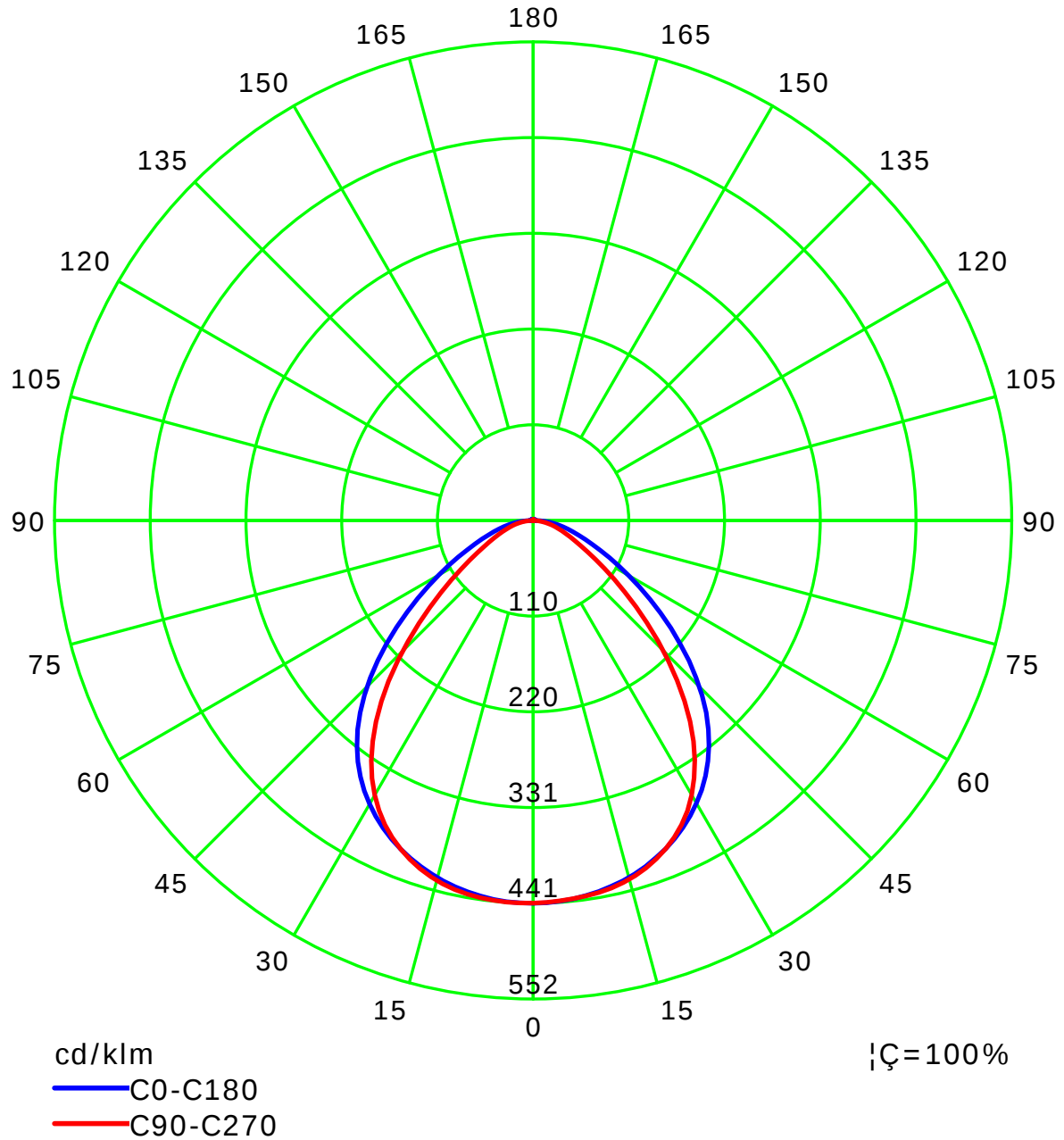
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Inspector:

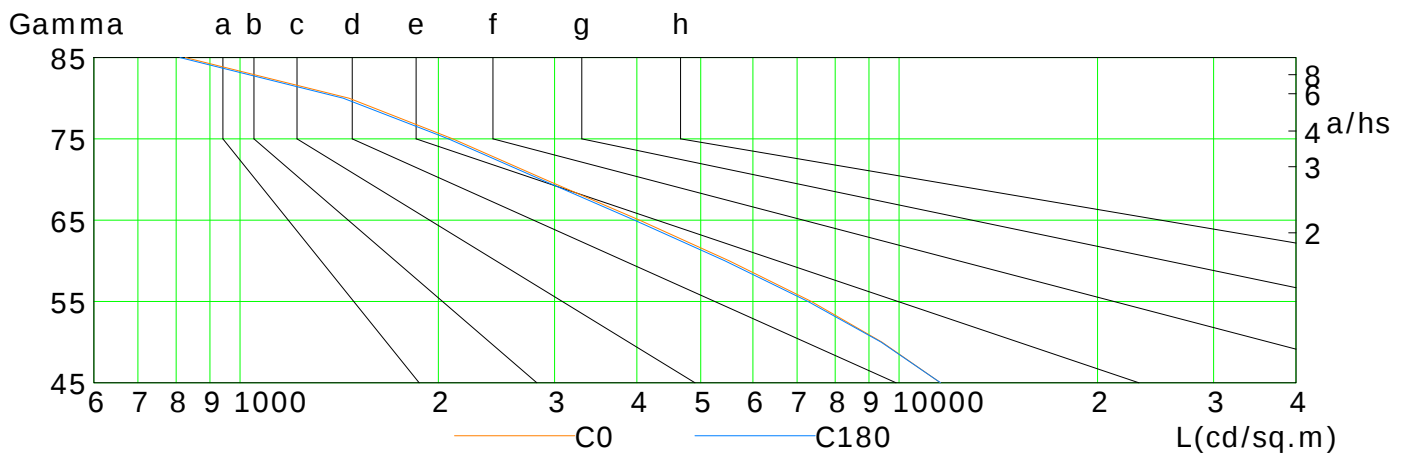
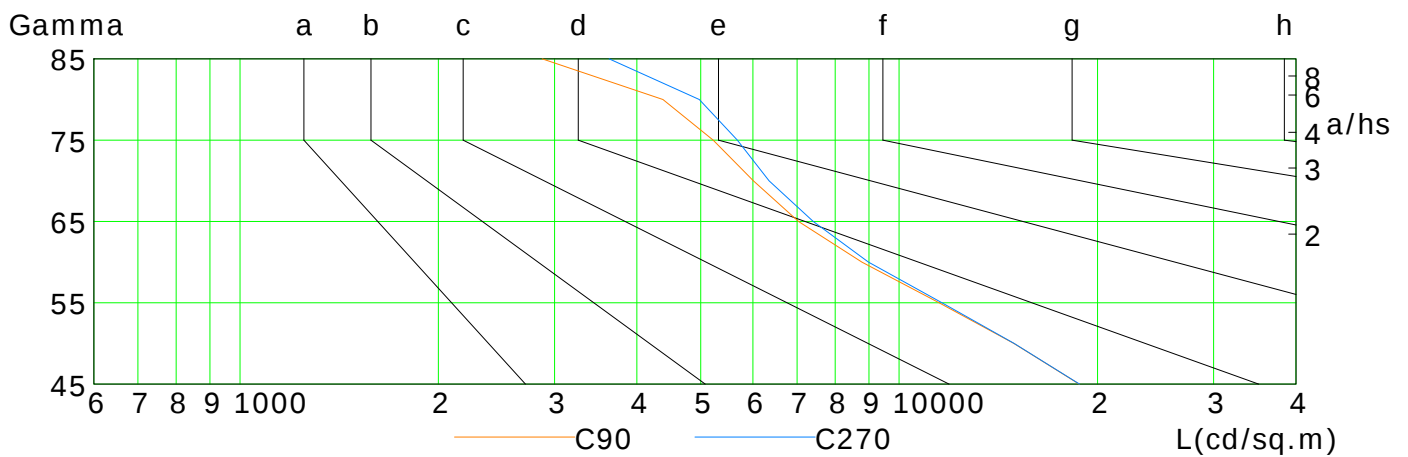
Luminous Intensity Distribution Curve(cd / klm)



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	11558	9416	7358	5524	4038	2903	2102	1464	826
C90	18749	14931	11497	8783	7037	6009	5222	4383	2874
C180	11553	9388	7274	5442	3967	2862	2071	1434	811
C270	18777	14945	11615	8984	7408	6350	5683	4974	3632

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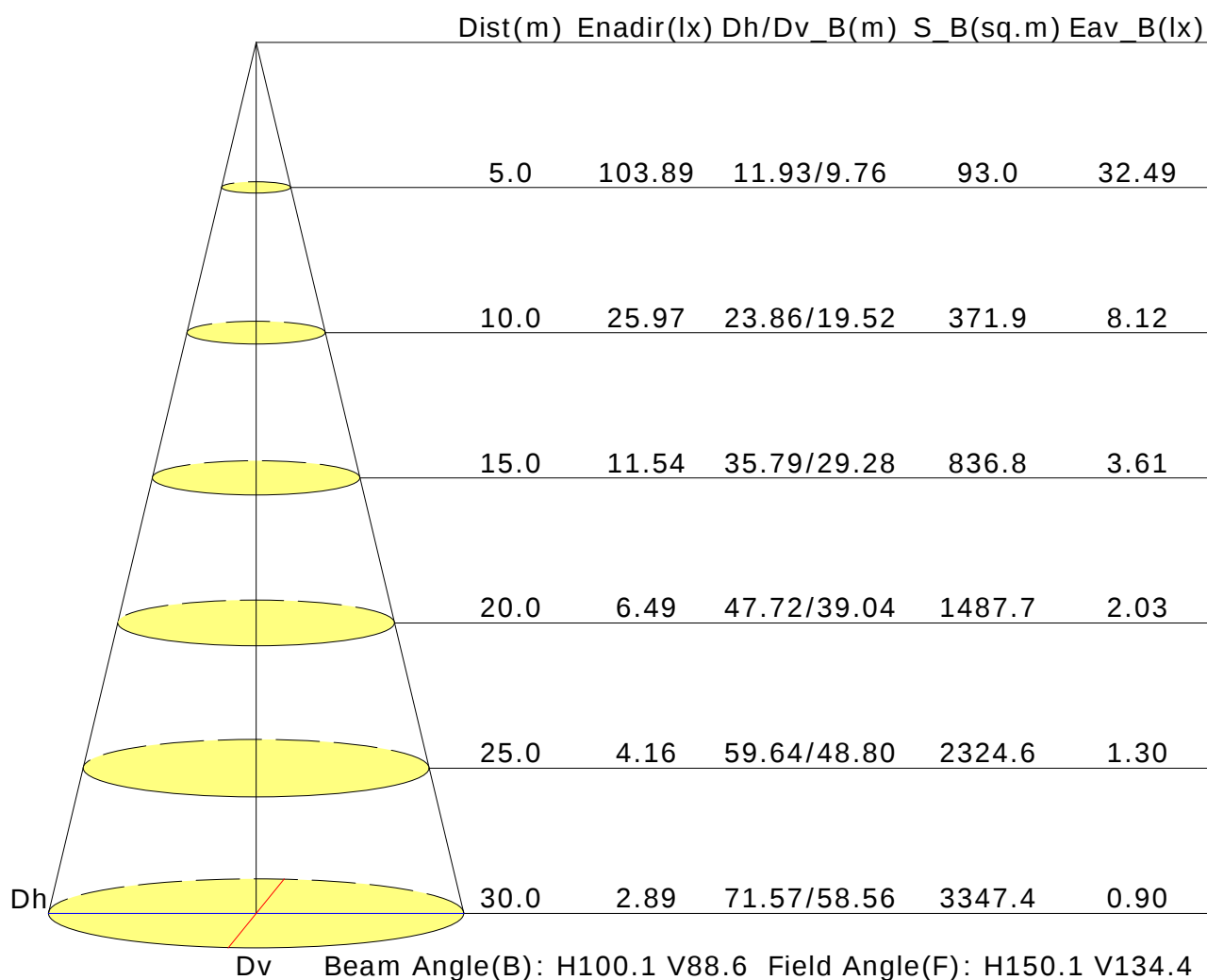
Test Device: LSG-1800B

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	19.5	20.8	19.8	21.0	21.2	19.3	20.6	19.6	20.8	21.1
3H	20.0	21.2	20.4	21.4	21.7	19.8	20.9	20.2	21.2	21.5
4H	20.2	21.2	20.5	21.5	21.8	20.0	21.1	20.4	21.4	21.7
6H	20.3	21.3	20.7	21.6	21.9	20.2	21.2	20.5	21.5	21.8
8H	20.3	21.3	20.7	21.6	21.9	20.2	21.2	20.6	21.5	21.8
12H	20.3	21.2	20.7	21.6	21.9	20.2	21.1	20.6	21.5	21.8
X=4H Y=2H	19.7	20.7	20.0	21.0	21.3	19.5	20.6	19.9	20.9	21.2
3H	20.3	21.2	20.7	21.6	21.9	20.1	21.0	20.5	21.4	21.7
4H	20.6	21.4	21.0	21.7	22.1	20.4	21.2	20.8	21.6	21.9
6H	20.8	21.5	21.2	21.9	22.3	20.6	21.3	21.0	21.7	22.1
8H	20.8	21.5	21.3	21.9	22.3	20.7	21.3	21.1	21.7	22.2
12H	20.8	21.4	21.3	21.8	22.3	20.7	21.3	21.2	21.7	22.2
X=8H Y=4H	20.6	21.3	21.1	21.7	22.1	20.4	21.1	20.9	21.5	21.9
6H	20.9	21.4	21.3	21.8	22.3	20.7	21.2	21.2	21.7	22.2
8H	20.9	21.4	21.4	21.9	22.4	20.8	21.3	21.3	21.7	22.2
12H	21.0	21.4	21.5	21.9	22.4	20.9	21.3	21.4	21.8	22.3
X=12H Y=4H	20.6	21.2	21.0	21.6	22.1	20.4	21.0	20.9	21.4	21.9
6H	20.9	21.3	21.3	21.8	22.3	20.7	21.2	21.2	21.6	22.1
8H	21.0	21.4	21.5	21.8	22.4	20.8	21.2	21.3	21.7	22.2
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.6					+0.5/-0.8				
S=1.5H	+0.9/-1.5					+1.4/-1.9				
S=2.0H	+1.8/-2.4					+2.7/-2.9				

Calculate in accordance with CIE Pub.117. The table is revised with 5878lm ($8\log(F/F_0) = 6.2$).

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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		0.57	0.68	0.75	0.80	0.87	0.92	0.95	1.00	1.03	
	0.20		0.52	0.63	0.70	0.75	0.83	0.88	0.91	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	0.66	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	0.80	0.86	0.90	0.92	0.95	0.97	
	0.30		0.56	0.65	0.72	0.76	0.82	0.86	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: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	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	0.17	
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	0.36	0.30	0.26	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	0.82	0.65	0.55	0.47	0.37	0.30	0.26	0.20	0.16	
	0.30		0.70	0.57	0.49	0.43	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	0.41	0.34	0.30	0.24	0.20	0.17	0.13	0.11	
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	0.16	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	0.08	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:44W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												