

Report No.:

Test Time: 04.09.2020 20:31

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 48LED 0.3A 35W 4000K prozrachnoe steclo

Luminous Length (mm): 900

Luminous Width (mm): 55

Luminous Height (mm): 90

Voltage: 221.4 V

Current: 0.161 A

Power: 34.90 W

Power Factor: 0.977

Photometric Results

CIE Class: Direct

Measurement Flux: 5056.4 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 5056.4 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 153.7, 149.2, 153.0, 153.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.9, 118.2, 113.0, 113.1

Luminaire Efficacy Rating (LER): 144.93

Central Intensity: 1760.5 cd

Max. Intensity: 1794.24 cd

Pos of Max. Intensity: H270 V8

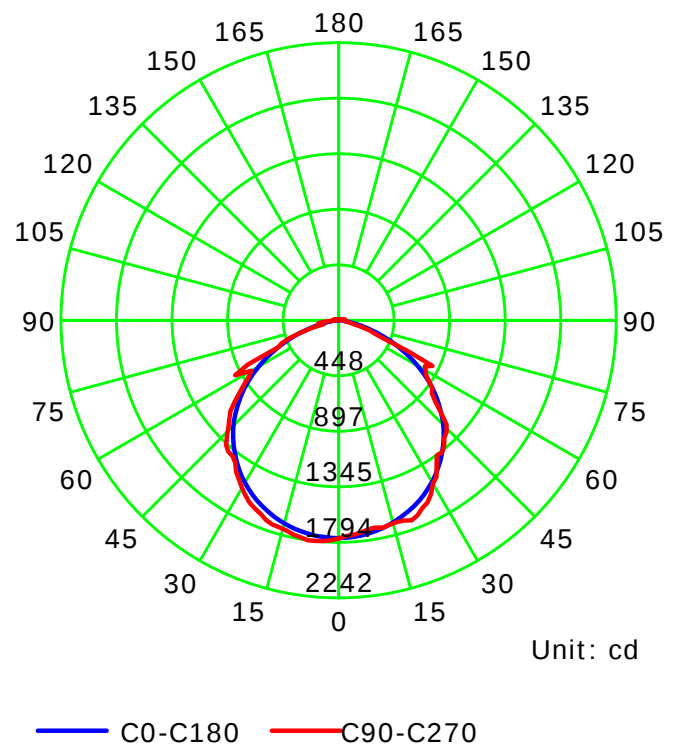
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.29

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

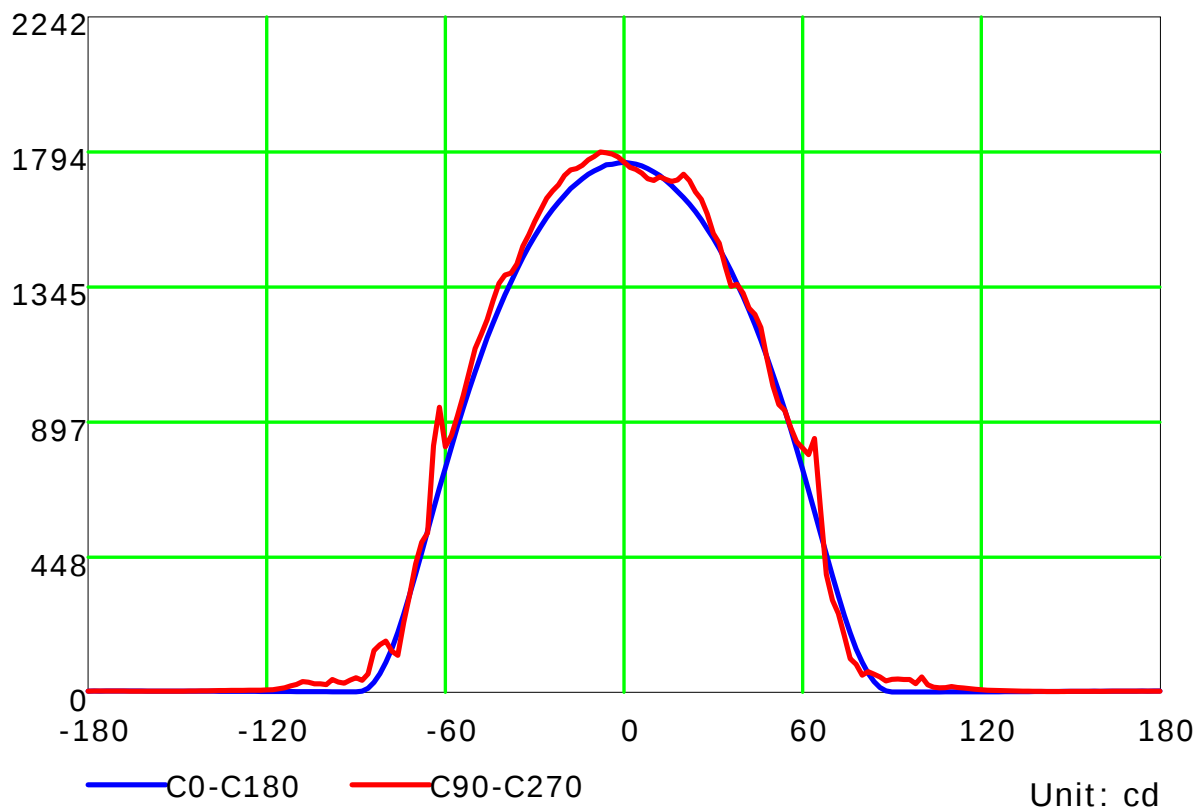
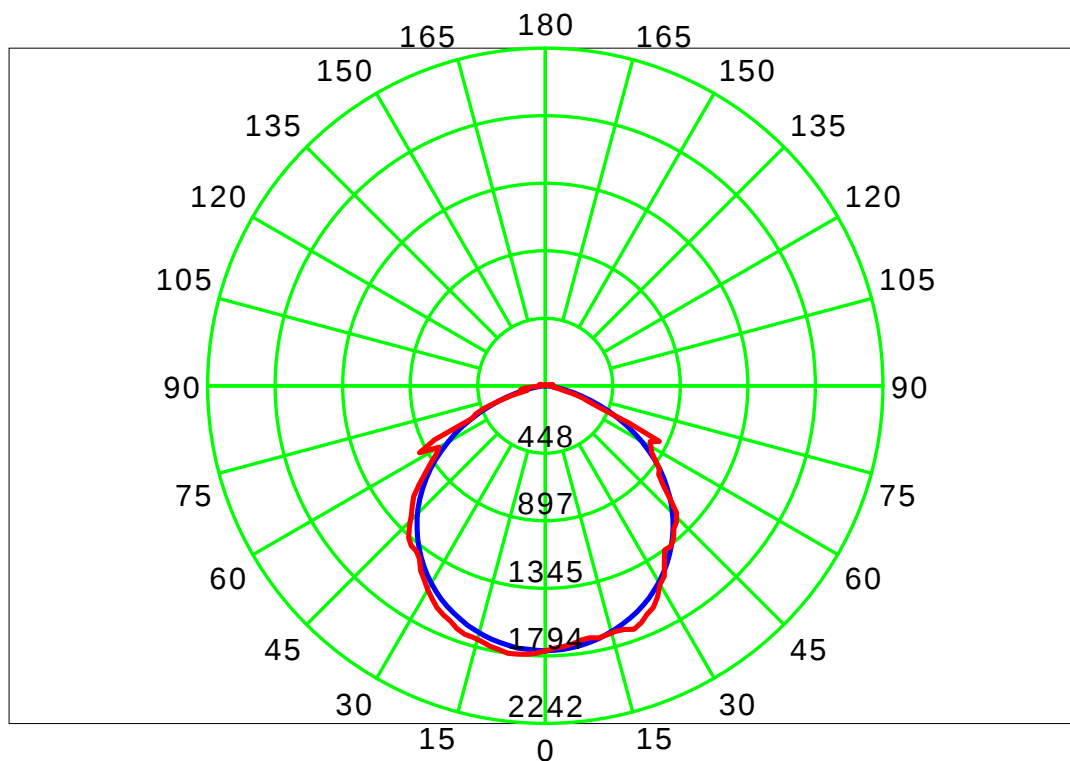
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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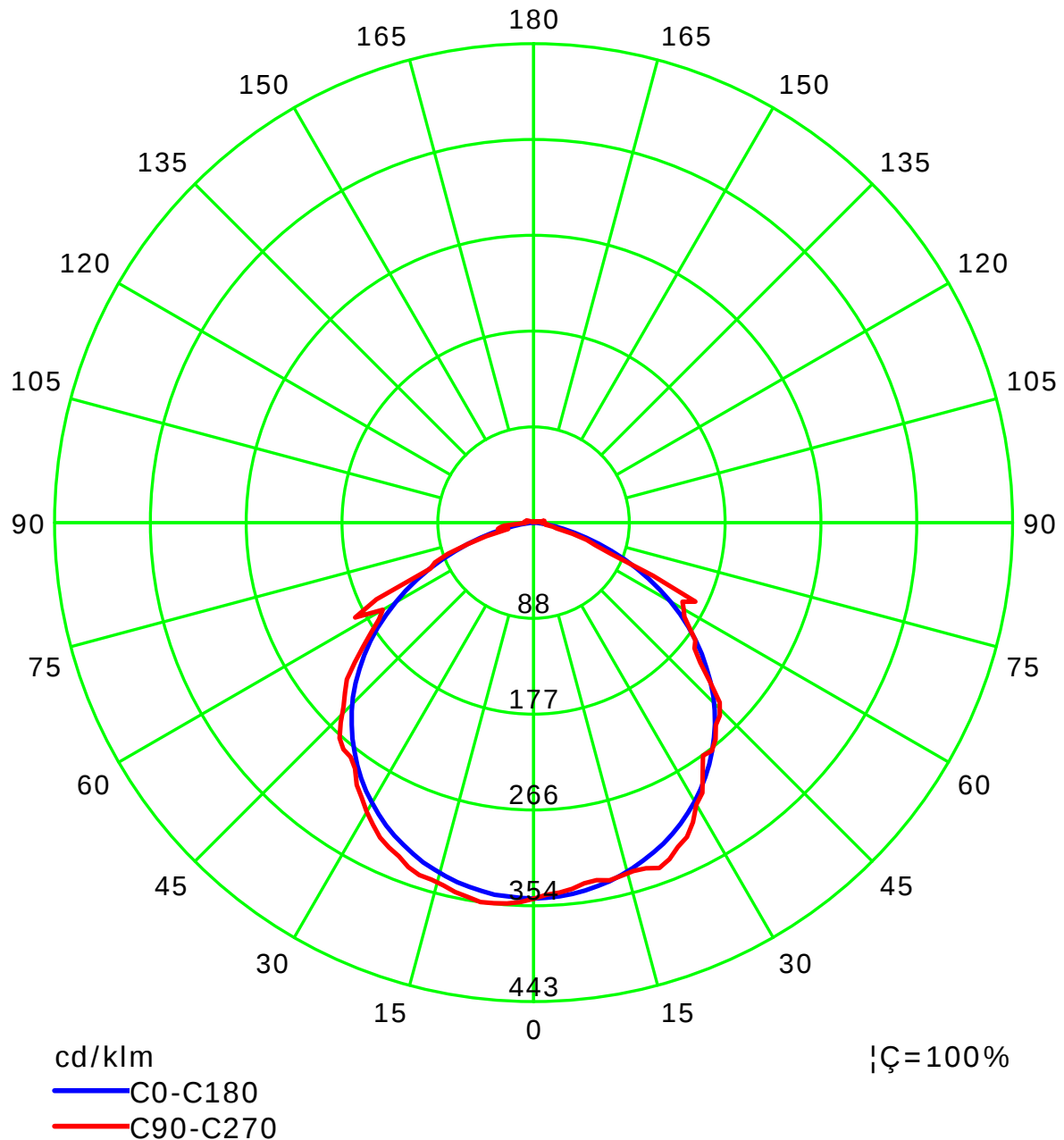
Test Device: LSG-1800B

Distance: 12.682 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

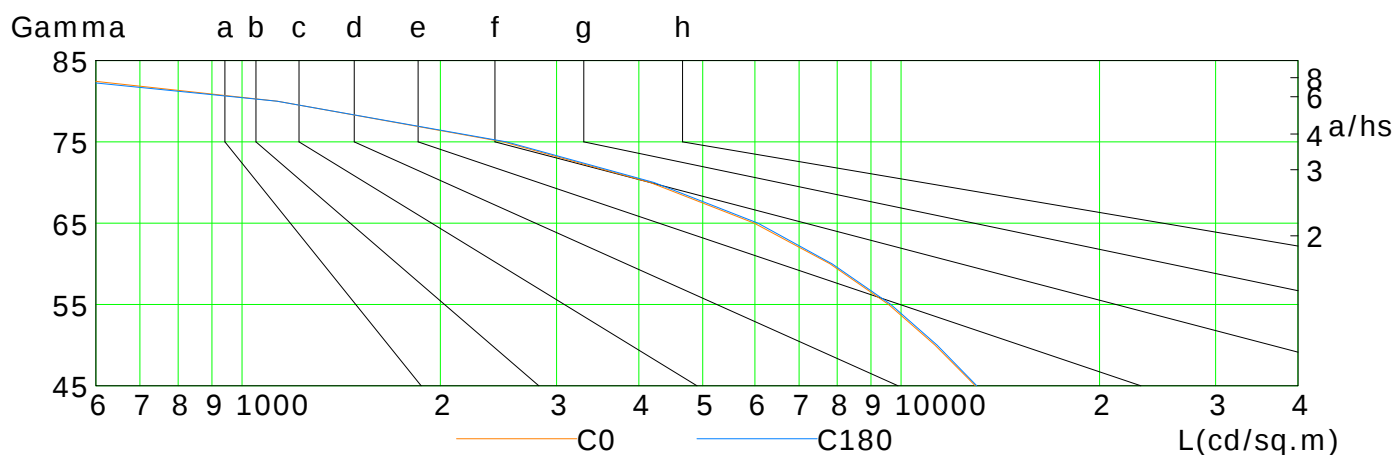
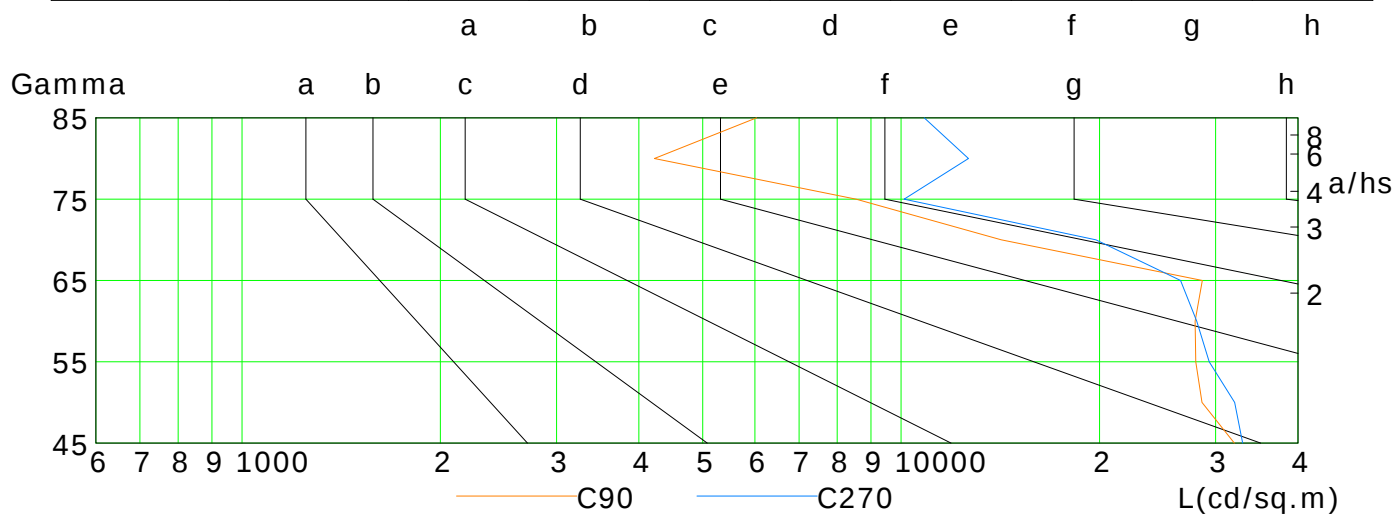
Distance: 12.682 m

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	12956	11256	9570	7801	5987	4163	2492	1132	309
C90	32035	28609	27990	27933	28638	14187	8542	4223	6035
C180	13024	11338	9643	7856	6064	4217	2518	1130	277
C270	32964	32065	29335	28091	26545	19748	10102	12650	10840

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

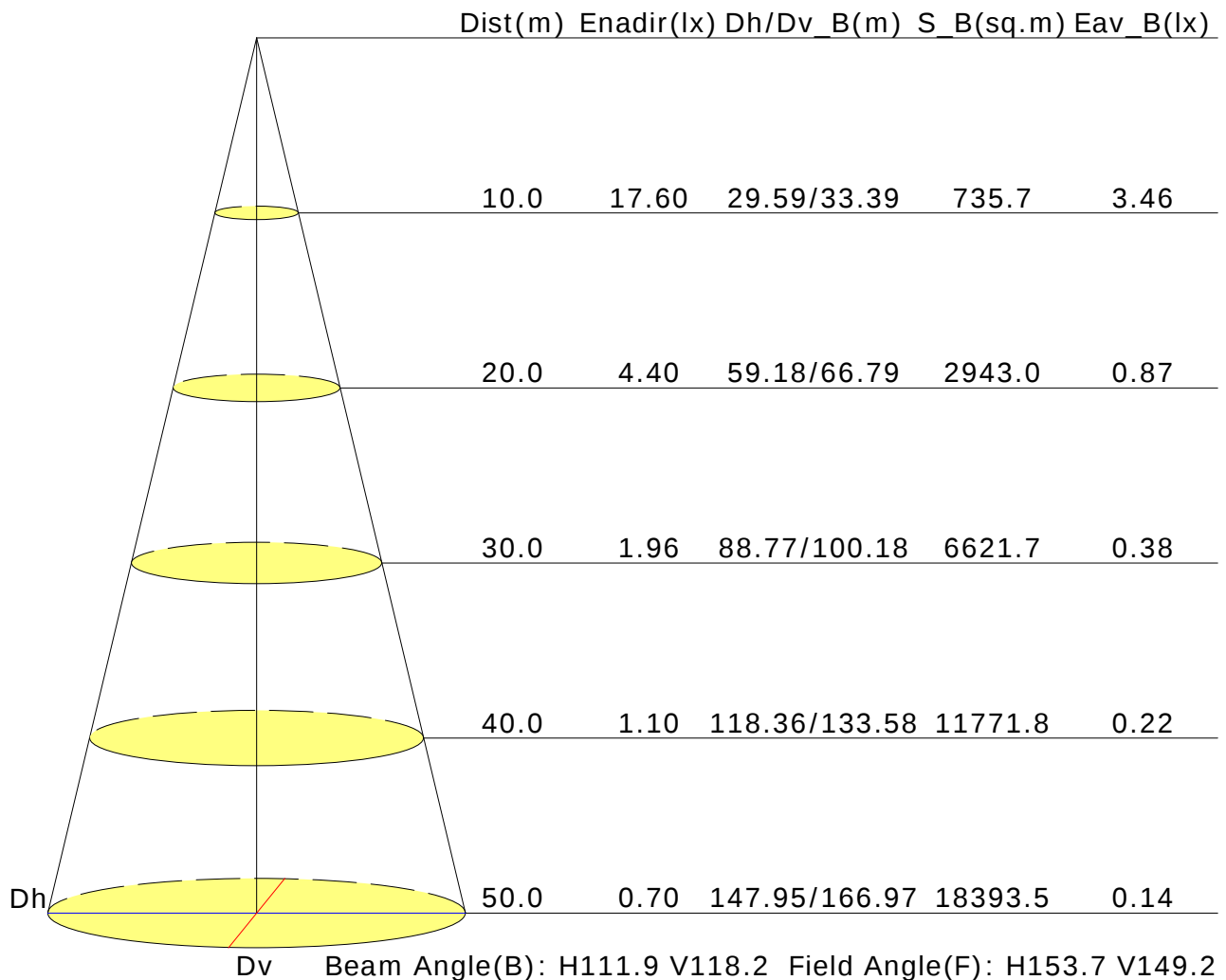
Test Device: LSG-1800B

Distance: 12.682 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	20.7	22.1	21.1	22.3	22.6	23.0	24.3	23.3	24.6	24.8
3H	21.5	22.7	21.8	23.0	23.3	24.1	25.3	24.5	25.6	25.9
4H	21.6	22.8	22.0	23.1	23.4	24.3	25.4	24.6	25.7	26.0
6H	21.7	22.7	22.1	23.1	23.4	24.3	25.4	24.7	25.7	26.0
8H	21.6	22.7	22.0	23.0	23.4	24.4	25.4	24.8	25.7	26.1
12H	21.6	22.6	22.0	22.9	23.3	24.4	25.4	24.8	25.8	26.1
X=4H Y=2H	21.3	22.5	21.7	22.8	23.1	23.2	24.3	23.6	24.6	25.0
3H	22.2	23.2	22.6	23.6	23.9	24.4	25.4	24.8	25.7	26.1
4H	22.4	23.3	22.9	23.7	24.1	24.6	25.5	25.0	25.8	26.2
6H	22.5	23.3	23.0	23.7	24.1	24.7	25.4	25.1	25.8	26.3
8H	22.5	23.2	23.0	23.6	24.1	24.8	25.5	25.2	25.9	26.3
12H	22.5	23.1	22.9	23.6	24.0	24.9	25.5	25.3	25.9	26.4
X=8H Y=4H	22.5	23.2	23.0	23.7	24.1	24.6	25.3	25.0	25.7	26.1
6H	22.6	23.2	23.1	23.7	24.2	24.7	25.2	25.2	25.7	26.2
8H	22.6	23.2	23.1	23.6	24.1	24.8	25.3	25.3	25.8	26.3
12H	22.6	23.1	23.1	23.6	24.1	24.9	25.4	25.5	25.9	26.4
X=12H Y=4H	22.5	23.1	23.0	23.6	24.0	24.5	25.2	25.0	25.6	26.1
6H	22.6	23.1	23.1	23.6	24.1	24.7	25.2	25.2	25.6	26.1
8H	22.6	23.1	23.2	23.6	24.1	24.8	25.2	25.3	25.7	26.2
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.6/-0.5				
S=1.5H	+0.7/-1.1					+0.8/-0.8				
S=2.0H	+1.2/-2.0					+2.2/-2.8				

Calculate in accordance with CIE Pub.117. The table is revised with 5056lm ($8\log(F/F_0) = 5.6$).

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Test Device: LSG-1800B

Distance: 12.682 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	0.57	0.68	0.75	0.81	0.88	0.93	0.97	1.01	1.04	
	0.30		0.49	0.60	0.68	0.74	0.82	0.88	0.92	0.97	1.01	
	0.20		0.44	0.55	0.63	0.69	0.77	0.83	0.88	0.94	0.98	
0.50	0.50	0.20	0.55	0.66	0.73	0.78	0.85	0.90	0.93	0.97	1.00	
	0.30		0.49	0.59	0.67	0.72	0.80	0.85	0.89	0.94	0.97	
	0.20		0.43	0.54	0.62	0.67	0.76	0.81	0.85	0.91	0.94	
0.30	0.50	0.20	0.54	0.64	0.71	0.75	0.82	0.86	0.89	0.93	0.95	
	0.30		0.48	0.58	0.65	0.70	0.78	0.83	0.86	0.90	0.93	
	0.20		0.43	0.53	0.61	0.66	0.74	0.79	0.83	0.88	0.91	
0.00	0.00	0.00	0.41	0.51	0.58	0.63	0.70	0.75	0.79	0.83	0.86	
Rating:35W 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	0.99	0.81	0.68	0.59	0.47	0.39	0.33	0.25	0.21	
	0.30		0.82	0.69	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.71	0.60	0.53	0.47	0.39	0.33	0.28	0.23	0.19	
0.50	0.50	0.20	0.95	0.77	0.65	0.56	0.45	0.40	0.31	0.24	0.20	
	0.30		0.80	0.67	0.58	0.51	0.41	0.34	0.29	0.23	0.19	
	0.20		0.70	0.59	0.52	0.46	0.37	0.32	0.27	0.22	0.18	
0.30	0.50	0.20	0.92	0.74	0.63	0.54	0.42	0.35	0.30	0.23	0.19	
	0.30		0.79	0.65	0.56	0.49	0.39	0.33	0.28	0.22	0.18	
	0.20		0.69	0.58	0.51	0.45	0.36	0.31	0.26	0.21	0.17	
0.00	0.00	0.00	0.58	0.48	0.41	0.36	0.29	0.24	0.20	0.16	0.13	
Rating:35W 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	0.17	0.19	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.21	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	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	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	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	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:35W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												