

Report No.:

Test Time: 16.10.2020 12:33

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FG 180 40LED 0.35A 44W 5000K микропризма

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 35

Voltage: 221.4 V

Current: 0.207 A

Power: 45.11 W

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 5587.4 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 5587.4 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.3, 158.0, 148.4, 148.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 79.0, 78.4, 76.0, 75.9

Luminaire Efficacy Rating (LER): 123.91

Central Intensity: 2899.87 cd

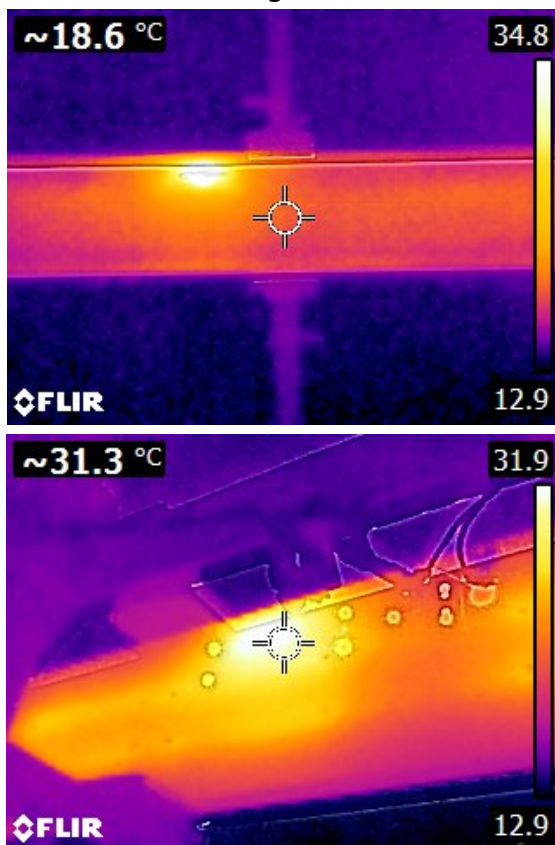
Max. Intensity: 2899.88 cd

Pos of Max. Intensity: H0 V0

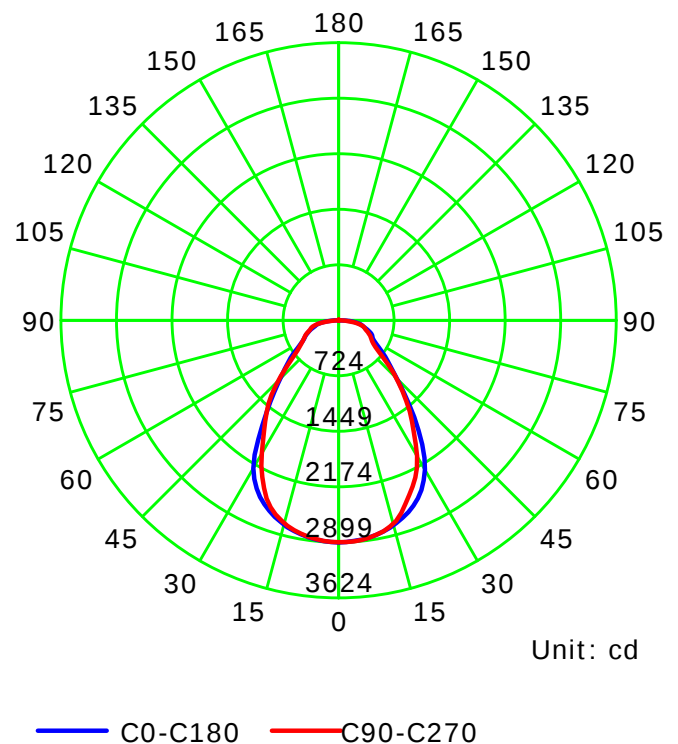
S/MH(C0/C180): 1.16

S/MH(C90/C270): 1.08

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

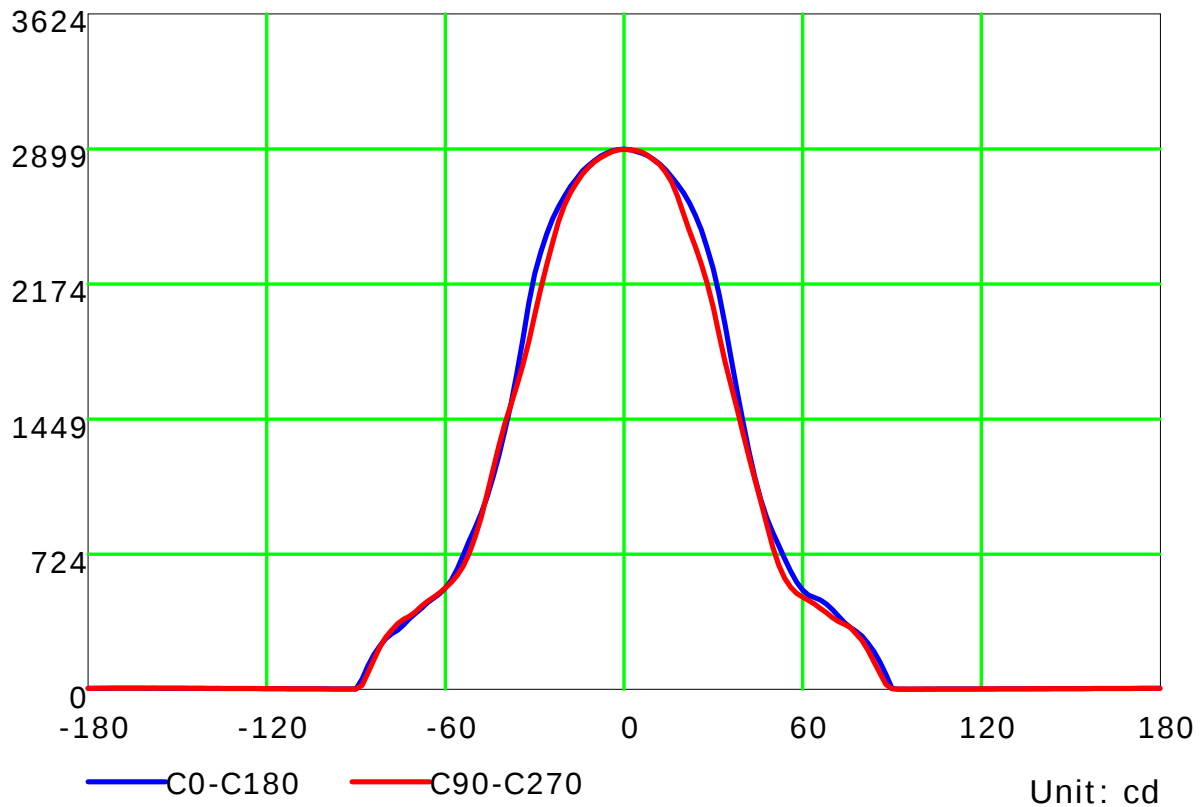
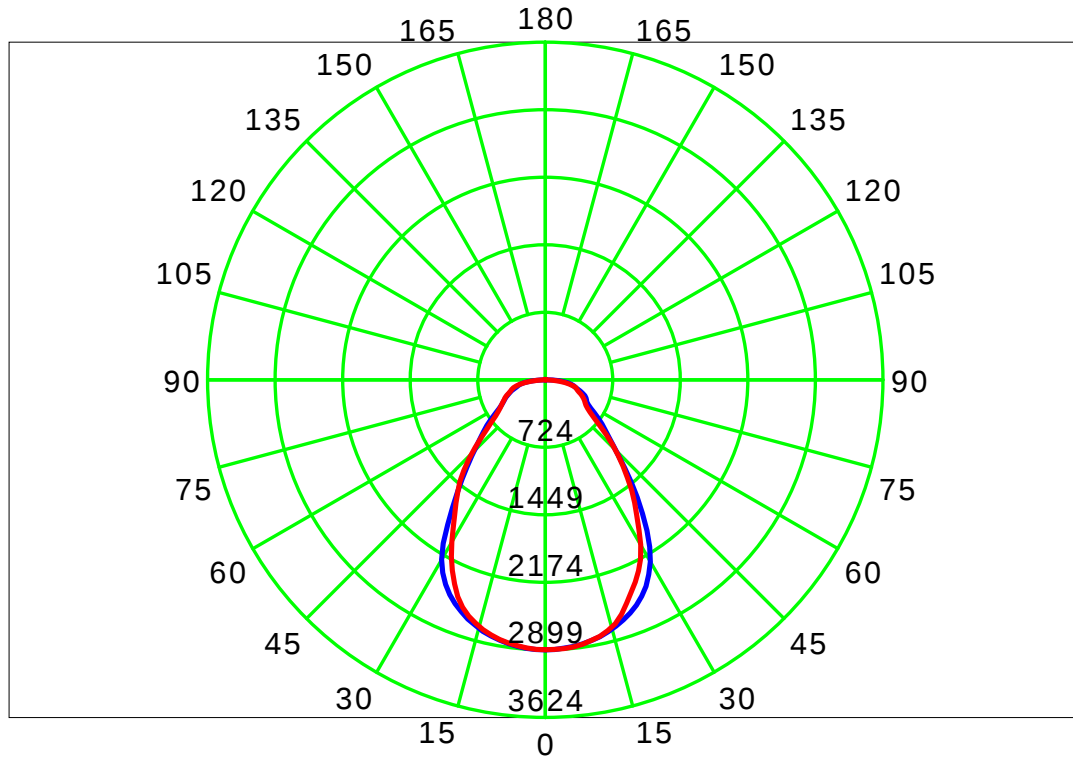
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

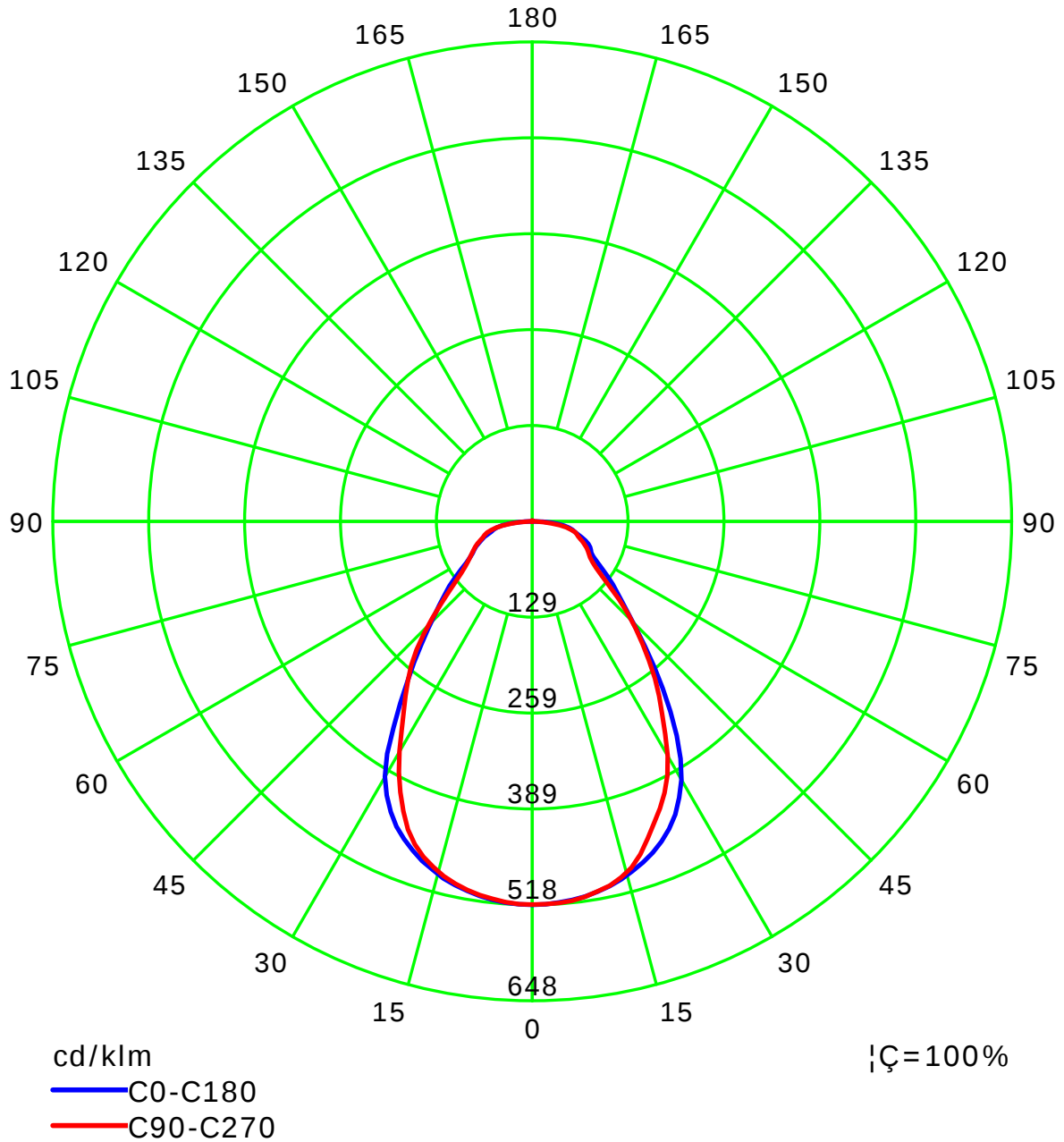
Luminous Intensity Distribution Curve



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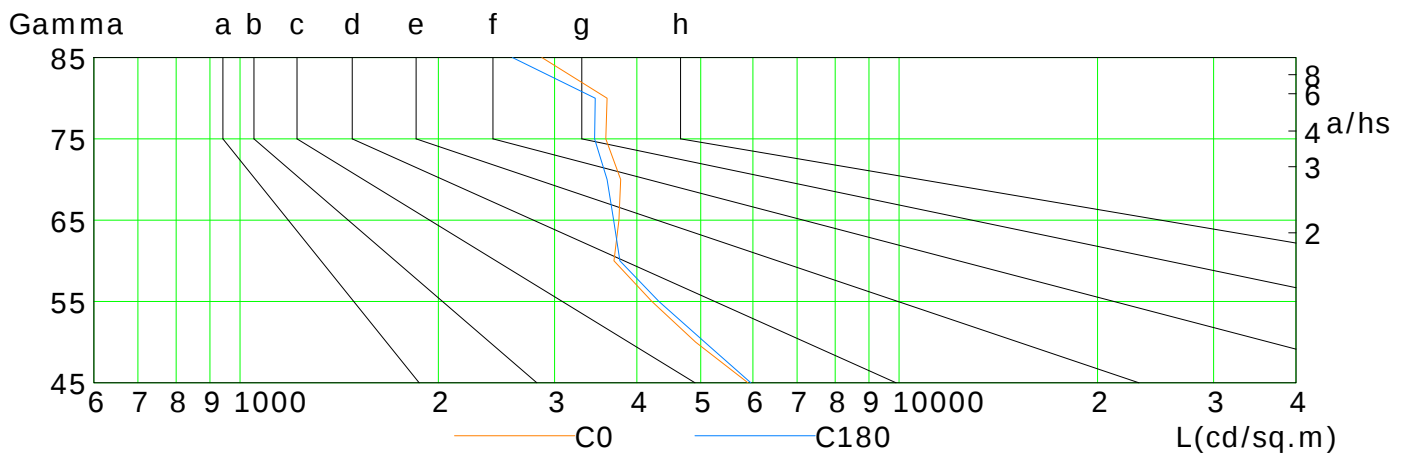
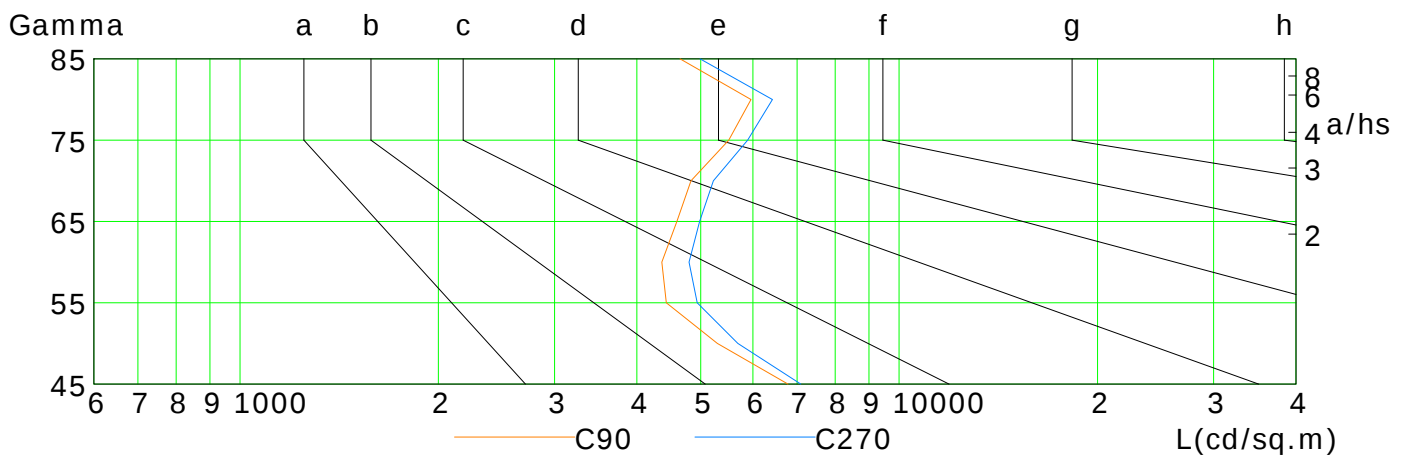
Luminous Intensity Distribution Curve(cd / klm)



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	5897	4912	4217	3693	3756	3780	3590	3605	2872
C90	6780	5300	4433	4365	4601	4832	5513	5961	4651
C180	5955	5069	4322	3770	3689	3605	3451	3459	2590
C270	7090	5693	4939	4800	4982	5227	5889	6424	4989

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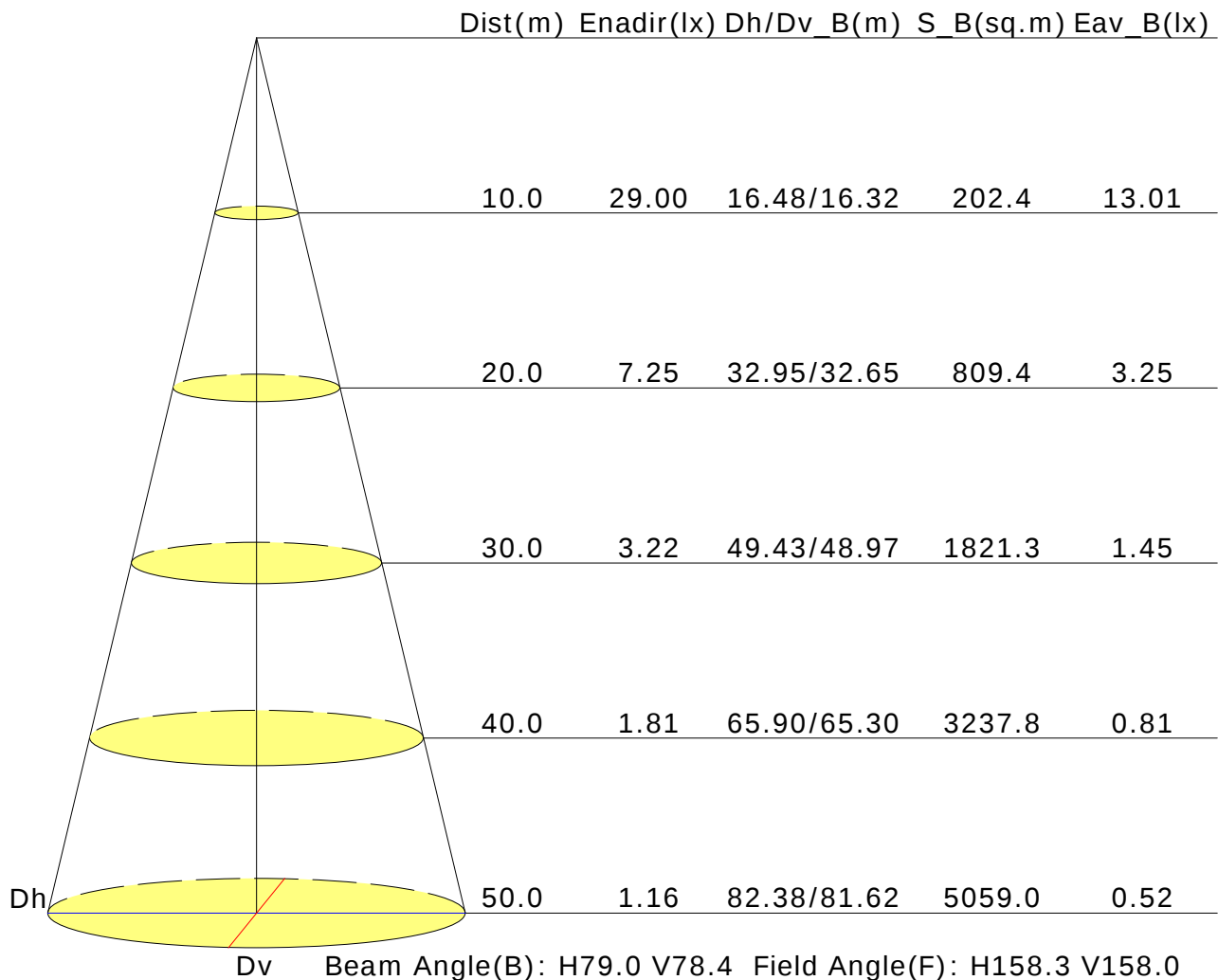
Test Device: LSG-1800B

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	16.9	18.1	17.2	18.3	18.6	17.0	18.2	17.3	18.5	18.7
3H	18.3	19.4	18.6	19.7	20.0	18.6	19.7	18.9	20.0	20.3
4H	19.0	20.1	19.3	20.4	20.7	19.5	20.6	19.8	20.9	21.2
6H	19.7	20.7	20.1	21.0	21.3	20.4	21.4	20.8	21.7	22.1
8H	20.0	21.0	20.4	21.3	21.6	20.8	21.8	21.2	22.1	22.4
12H	20.2	21.1	20.6	21.5	21.8	21.0	21.9	21.4	22.3	22.6
X=4H Y=2H	17.3	18.4	17.7	18.7	19.0	17.4	18.5	17.8	18.8	19.1
3H	19.0	19.9	19.4	20.2	20.6	19.2	20.2	19.6	20.5	20.8
4H	19.8	20.7	20.3	21.0	21.4	20.3	21.1	20.7	21.5	21.9
6H	20.7	21.4	21.1	21.8	22.2	21.4	22.2	21.8	22.5	22.9
8H	21.1	21.8	21.5	22.2	22.6	21.9	22.5	22.3	22.9	23.4
12H	21.4	22.0	21.8	22.4	22.9	22.1	22.7	22.6	23.2	23.6
X=8H Y=4H	20.1	20.8	20.6	21.2	21.7	20.6	21.2	21.0	21.6	22.1
6H	21.2	21.7	21.6	22.1	22.6	21.8	22.4	22.3	22.8	23.3
8H	21.6	22.1	22.1	22.6	23.1	22.3	22.8	22.8	23.3	23.8
12H	22.0	22.4	22.5	22.9	23.4	22.7	23.1	23.2	23.6	24.1
X=12H Y=4H	20.2	20.8	20.6	21.2	21.7	20.6	21.2	21.0	21.6	22.1
6H	21.2	21.7	21.7	22.2	22.7	21.9	22.3	22.3	22.8	23.3
8H	21.7	22.2	22.2	22.6	23.2	22.4	22.8	22.9	23.3	23.8
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.2				
S=1.5H	+0.4/-0.7					+0.4/-0.6				
S=2.0H	+0.8/-0.9					+0.8/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 5587lm ($8\log(F/F_0) = 6.0$).

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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 = 1.00									
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	0.63	0.73	0.79	0.84	0.90	0.95	0.98	1.02	1.04	
	0.30		0.56	0.66	0.72	0.77	0.84	0.89	0.93	0.98	1.01	
	0.20		0.51	0.60	0.67	0.72	0.80	0.85	0.89	0.95	0.98	
0.50	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.91	0.94	0.98	1.00	
	0.30		0.55	0.64	0.71	0.75	0.82	0.87	0.90	0.95	0.97	
	0.20		0.51	0.60	0.66	0.71	0.78	0.83	0.87	0.92	0.95	
0.30	0.50	0.20	0.60	0.69	0.74	0.78	0.84	0.88	0.91	0.94	0.96	
	0.30		0.55	0.63	0.69	0.74	0.80	0.84	0.87	0.91	0.94	
	0.20		0.50	0.59	0.65	0.70	0.77	0.81	0.85	0.89	0.92	
0.00	0.00	0.00	0.48	0.57	0.63	0.67	0.73	0.77	0.81	0.85	0.87	
Rating:45W 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 = 1.00									
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	0.90	0.74	0.63	0.55	0.44	0.37	0.32	0.25	0.20	
	0.30		0.75	0.64	0.55	0.49	0.40	0.34	0.29	0.23	0.19	
	0.20		0.64	0.55	0.49	0.44	0.37	0.31	0.27	0.22	0.18	
0.50	0.50	0.20	0.87	0.71	0.61	0.53	0.42	0.39	0.30	0.24	0.19	
	0.30		0.73	0.62	0.54	0.47	0.39	0.33	0.28	0.22	0.18	
	0.20		0.64	0.55	0.48	0.43	0.36	0.30	0.27	0.21	0.18	
0.30	0.50	0.20	0.84	0.68	0.58	0.51	0.40	0.33	0.29	0.22	0.18	
	0.30		0.72	0.60	0.52	0.46	0.37	0.31	0.27	0.21	0.18	
	0.20		0.63	0.54	0.47	0.42	0.35	0.29	0.26	0.20	0.17	
0.00	0.00	0.00	0.52	0.43	0.37	0.33	0.27	0.23	0.19	0.15	0.13	
Rating:45W 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 = 1.00									
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	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.50	0.50	0.20	0.15	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.18	0.18	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rating:45W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												