

Report No.:

Test Time: 19.10.2020 10:49

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FG 55_300 45LED 11W 5000K prozrachniy

Luminous Length (mm): 345

Luminous Width (mm): 55

Luminous Height (mm): 80

Voltage: 221.2 V

Current: 0.047 A

Power: 10.23 W

Power Factor: 0.966

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 1500.7 lm

Measurement Flux: 1500.7 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.5, 164.0, 152.5, 152.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.9, 126.9, 126.7, 125.3

Luminaire Efficacy Rating (LER): 146.75

Central Intensity: 521.11 cd

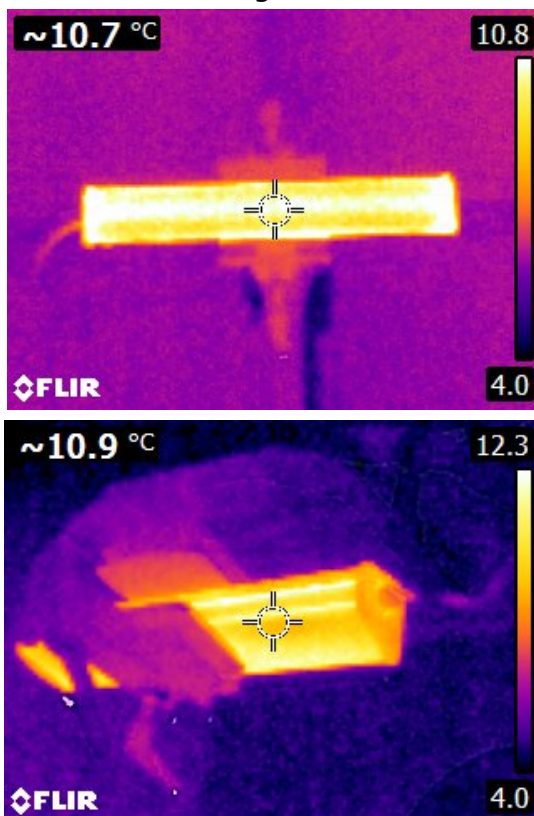
Max. Intensity: 524.29 cd

Pos of Max. Intensity: H90 V6

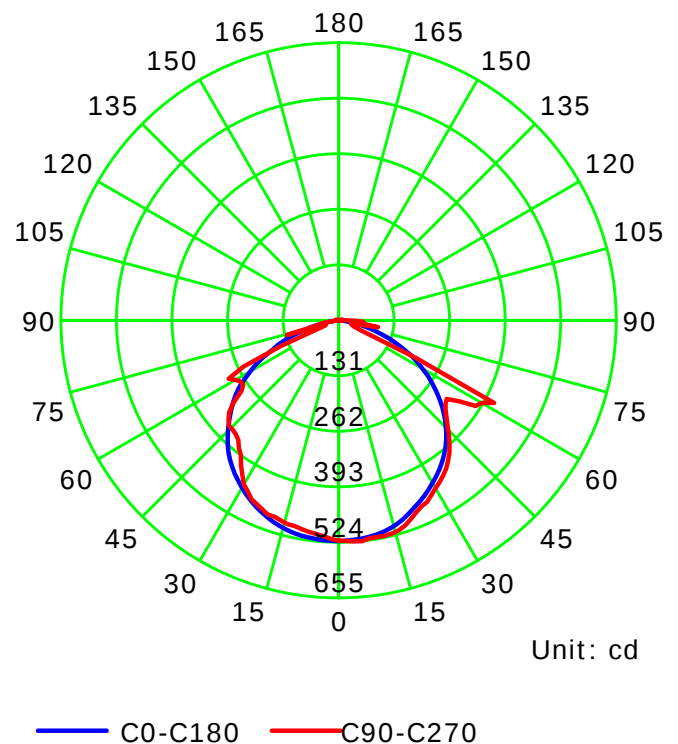
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.28

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

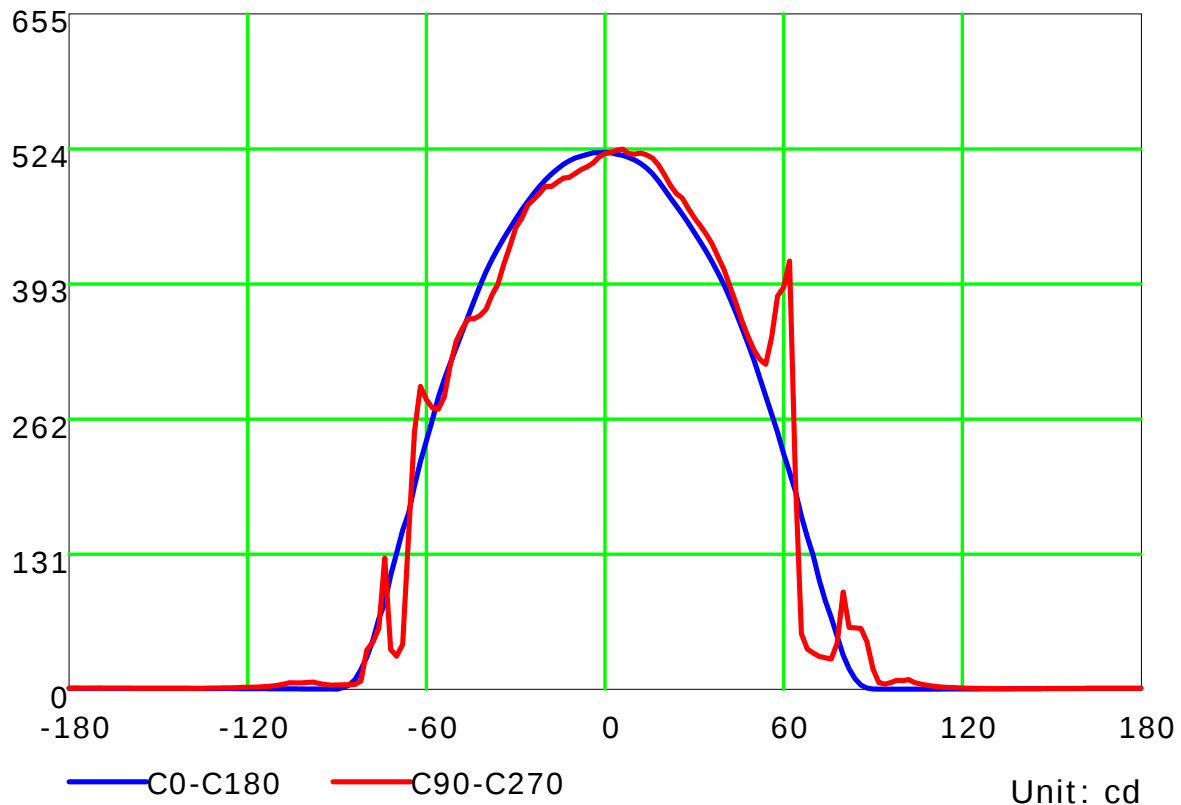
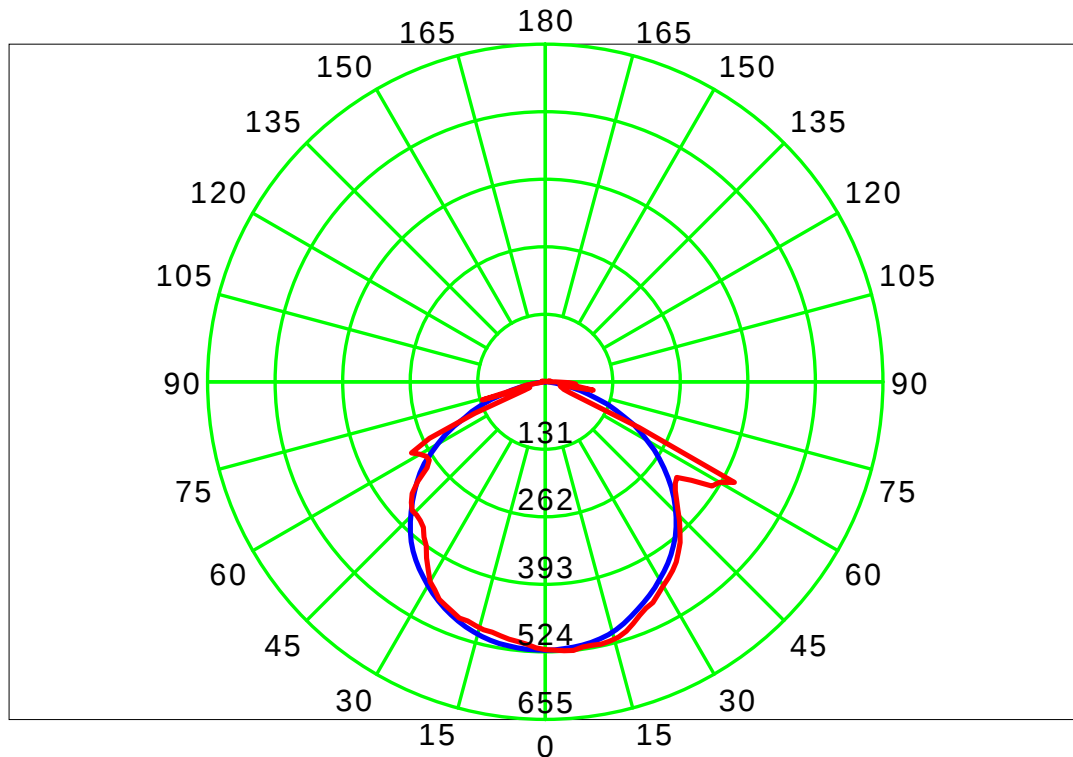
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

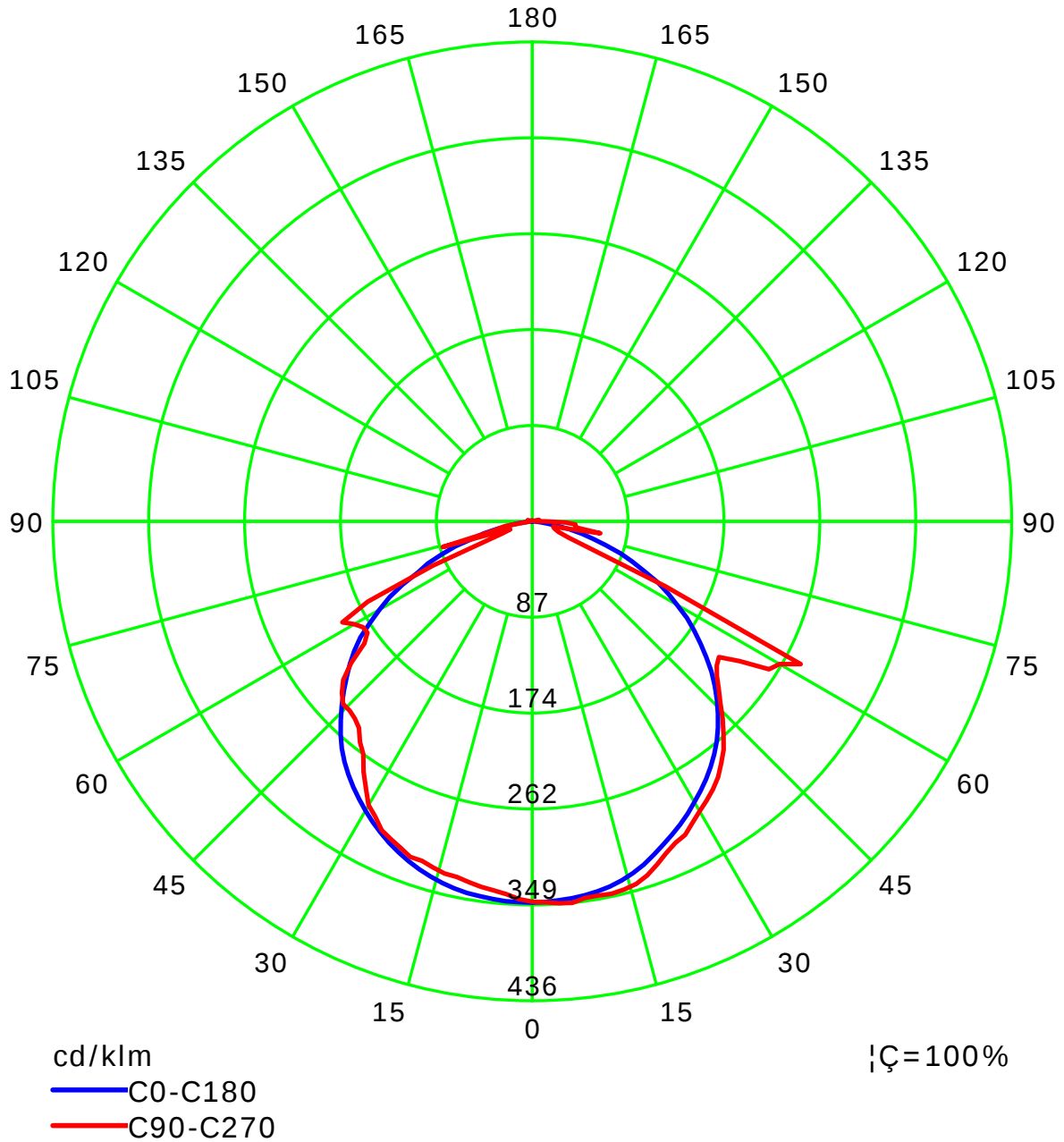
Luminous Intensity Distribution Curve



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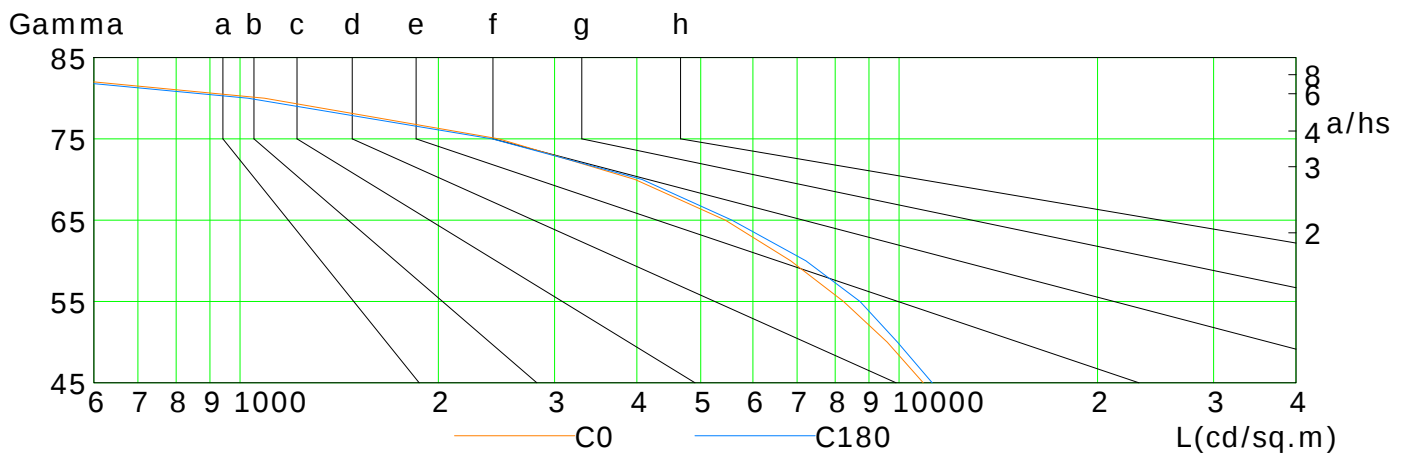
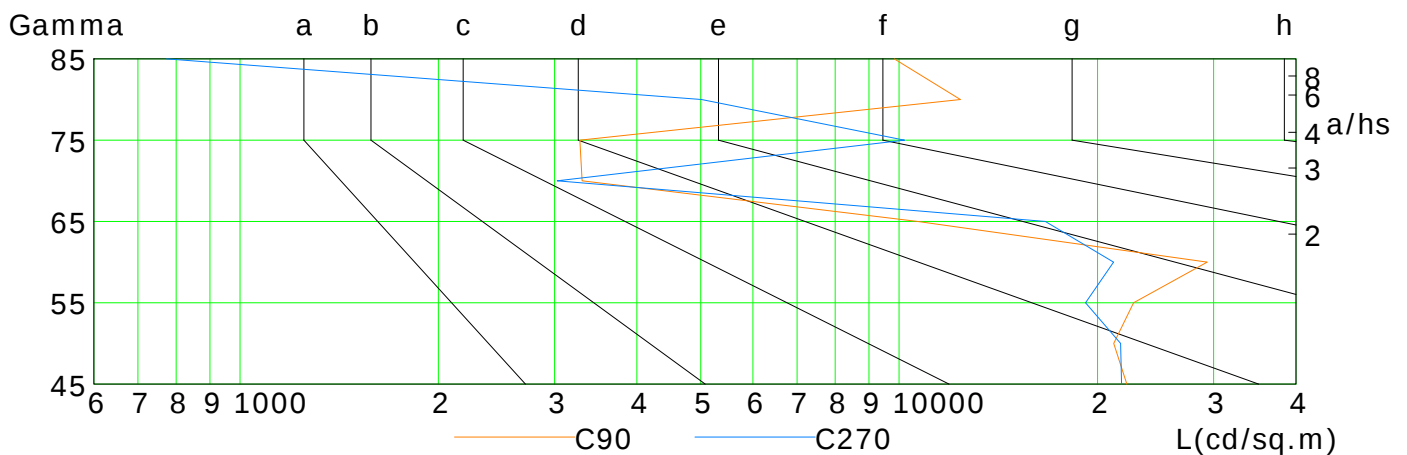
Luminous Intensity Distribution Curve(cd / klm)



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	10878	9592	8234	6847	5449	3976	2470	1089	248
C90	22152	21163	22685	29337	10671	3305	3279	12387	9830
C180	11222	9939	8722	7220	5577	4076	2412	1028	231
C270	21755	21680	19179	21148	16666	3028	10192	5013	774

C Plane (°):0.0-360.0: 22.5

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Test Type: TYPE C

Temperature:

Operator:

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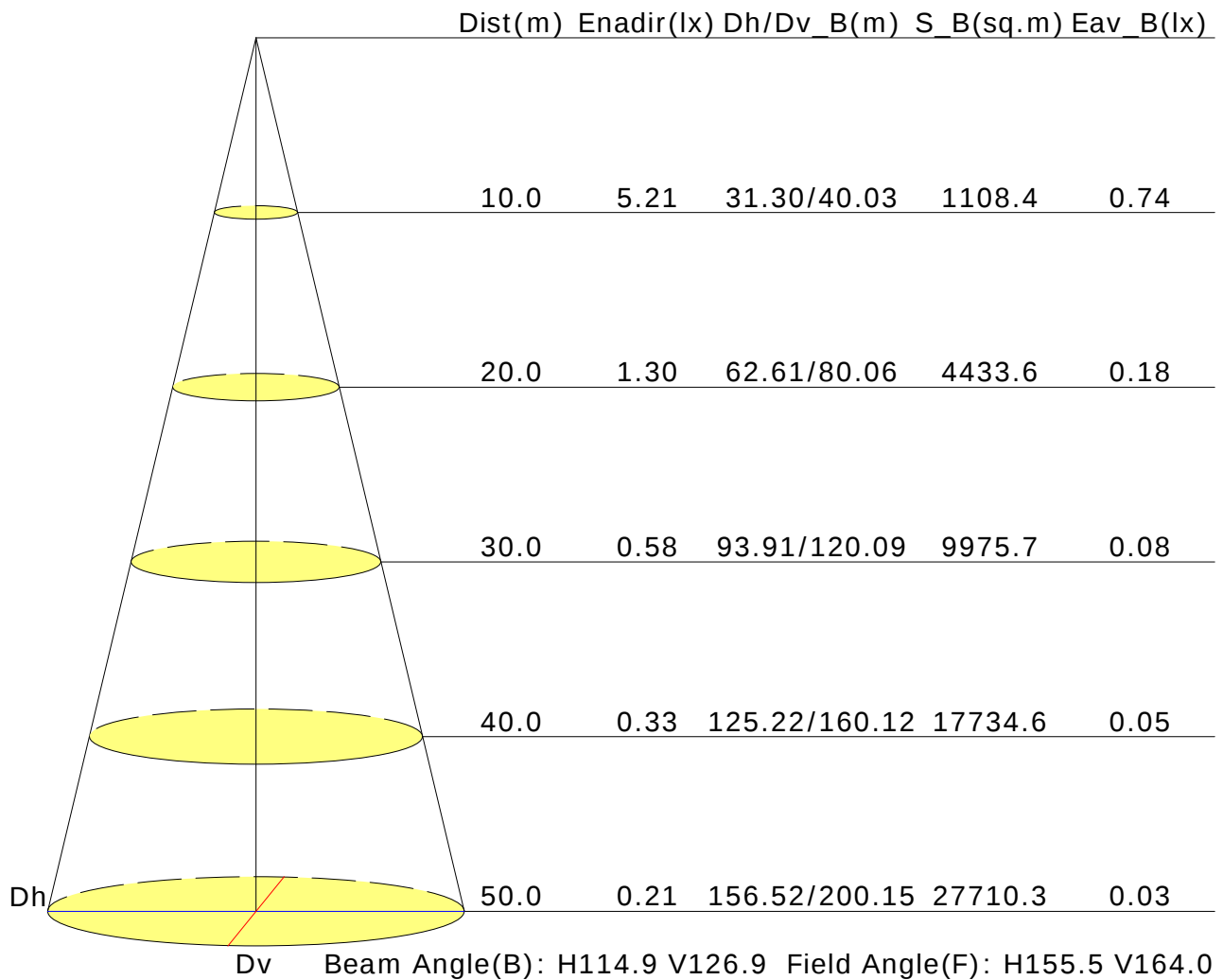
Test Device: LSG-1800B

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	19.9	21.3	20.2	21.5	21.8	22.9	24.3	23.2	24.5	24.8
3H	20.7	22.0	21.1	22.3	22.6	23.2	24.4	23.5	24.7	25.0
4H	21.0	22.1	21.3	22.4	22.8	23.3	24.5	23.7	24.8	25.1
6H	21.0	22.1	21.4	22.4	22.8	23.5	24.5	23.8	24.9	25.2
8H	21.0	22.0	21.4	22.4	22.7	23.6	24.6	23.9	24.9	25.3
12H	21.0	22.0	21.4	22.3	22.7	23.7	24.6	24.0	25.0	25.4
X=4H Y=2H	20.7	21.9	21.1	22.2	22.5	23.2	24.3	23.5	24.6	24.9
3H	21.6	22.6	22.0	23.0	23.3	23.5	24.5	23.9	24.8	25.2
4H	21.9	22.8	22.3	23.2	23.6	23.6	24.5	24.0	24.9	25.3
6H	22.0	22.8	22.4	23.2	23.6	23.9	24.6	24.3	25.0	25.5
8H	22.0	22.7	22.4	23.1	23.6	24.0	24.7	24.4	25.1	25.6
12H	22.0	22.6	22.4	23.0	23.5	24.1	24.8	24.6	25.2	25.7
X=8H Y=4H	21.9	22.6	22.3	23.0	23.5	23.6	24.3	24.0	24.7	25.1
6H	22.0	22.6	22.5	23.0	23.5	23.9	24.4	24.3	24.9	25.4
8H	22.0	22.5	22.5	23.0	23.5	24.0	24.5	24.5	25.0	25.5
12H	22.0	22.4	22.5	22.9	23.4	24.2	24.7	24.7	25.2	25.7
X=12H Y=4H	21.9	22.5	22.3	23.0	23.4	23.5	24.2	24.0	24.6	25.1
6H	22.0	22.5	22.5	23.0	23.5	23.9	24.4	24.3	24.8	25.3
8H	22.0	22.4	22.5	22.9	23.4	24.0	24.5	24.5	25.0	25.5
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+1.0/-1.0				
S=1.5H	+0.5/-1.1					+1.3/-1.5				
S=2.0H	+0.9/-2.1					+2.7/-5.1				

Calculate in accordance with CIE Pub.117. The table is revised with 1501lm ($8\log(F/F_0) = 1.4$).

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Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

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	0.67	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	1.00	
	0.20		0.43	0.54	0.62	0.68	0.77	0.83	0.88	0.94	0.97	
0.50	0.50	0.20	0.55	0.65	0.73	0.78	0.85	0.90	0.93	0.97	1.00	
	0.30		0.48	0.59	0.66	0.72	0.80	0.85	0.89	0.94	0.97	
	0.20		0.43	0.53	0.61	0.67	0.75	0.81	0.85	0.91	0.94	
0.30	0.50	0.20	0.54	0.63	0.70	0.75	0.82	0.86	0.89	0.93	0.96	
	0.30		0.47	0.57	0.65	0.70	0.78	0.82	0.86	0.90	0.93	
	0.20		0.43	0.53	0.60	0.66	0.74	0.79	0.83	0.88	0.91	
0.00	0.00	0.00	0.40	0.50	0.58	0.63	0.70	0.75	0.79	0.83	0.86	
Rating:10W 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	0.69	0.60	0.47	0.39	0.33	0.26	0.21	
	0.30		0.83	0.70	0.60	0.53	0.43	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	0.96	0.78	0.66	0.57	0.45	0.40	0.32	0.24	0.20	
	0.30		0.81	0.68	0.58	0.51	0.41	0.34	0.29	0.23	0.19	
	0.20		0.70	0.60	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.30	0.50	0.20	0.93	0.75	0.63	0.55	0.43	0.35	0.30	0.23	0.19	
	0.30		0.79	0.66	0.57	0.49	0.40	0.33	0.28	0.22	0.18	
	0.20		0.69	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.17	
0.00	0.00	0.00	0.59	0.49	0.42	0.37	0.29	0.24	0.21	0.16	0.13	
Rating:10W 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	0.18	0.19	0.20	0.21	0.21	0.22	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		0.05	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	0.18	0.19	0.20	0.20	0.21	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		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.11	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:10W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												