

Report No.:

Test Time: 23.07.2020 12:44

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FG 50 75W 5000K прозрачный IP65 Ex

Luminous Length (mm): 1540

Luminous Width (mm): 60

Luminous Height (mm): 80

Voltage: 222.1 V

Current: 0.346 A

Power: 75.81 W

Power Factor: 0.987

Photometric Results

CIE Class: Direct

Measurement Flux: 6310 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 6310.0 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.7, 132.3, 143.3, 144.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.3, 109.9, 111.6, 111.6

Luminaire Efficacy Rating (LER): 83.28

Central Intensity: 2346.25 cd

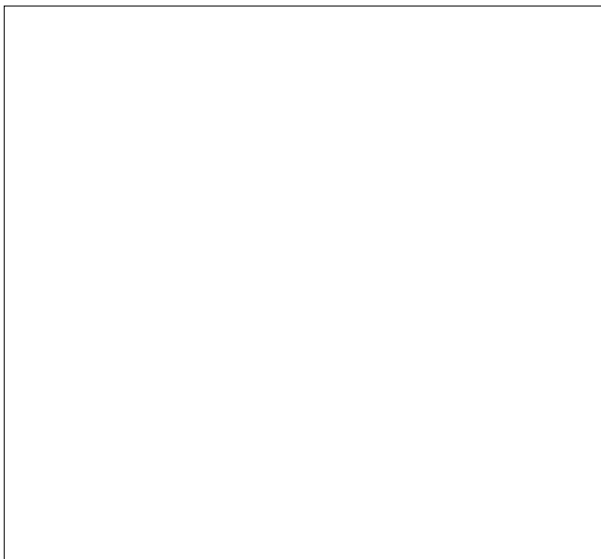
Max. Intensity: 2346.67 cd

Pos of Max. Intensity: H45 V0

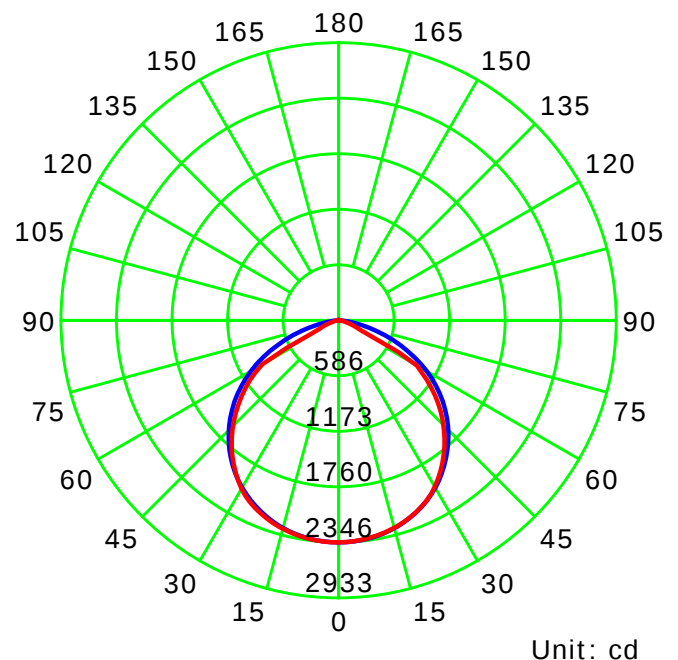
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.28

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

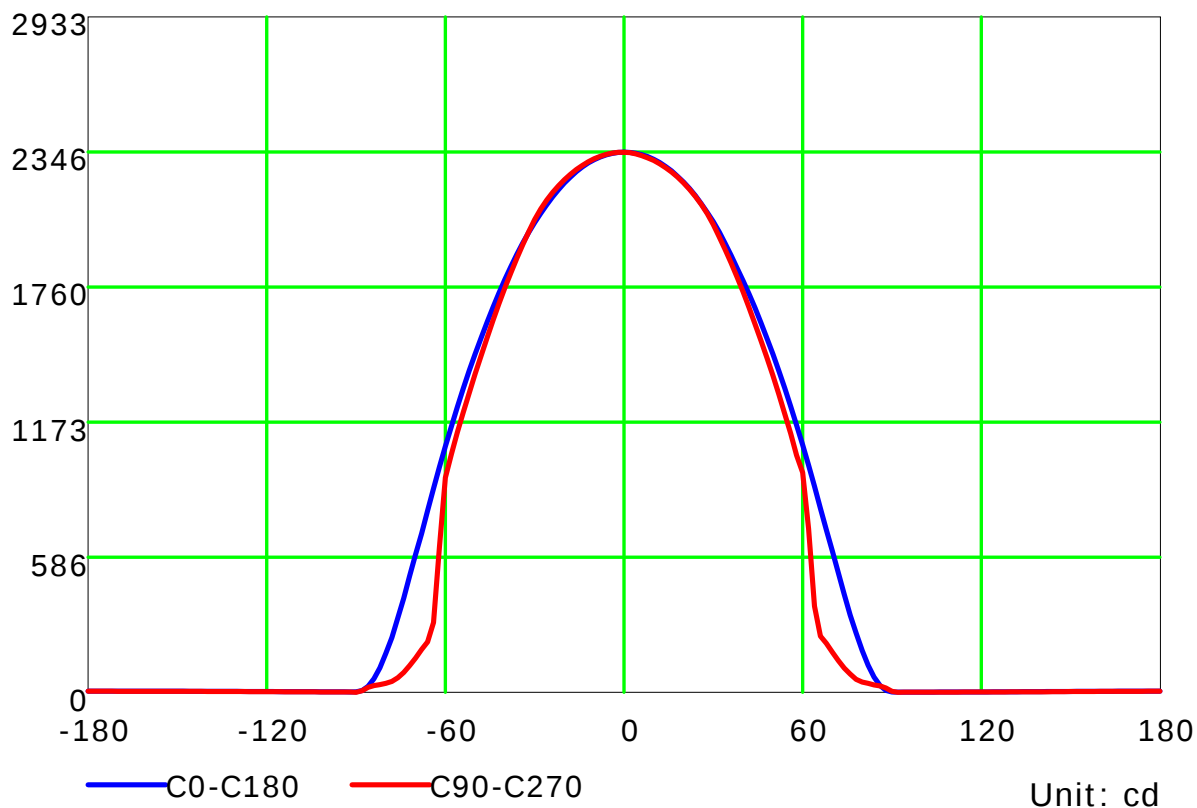
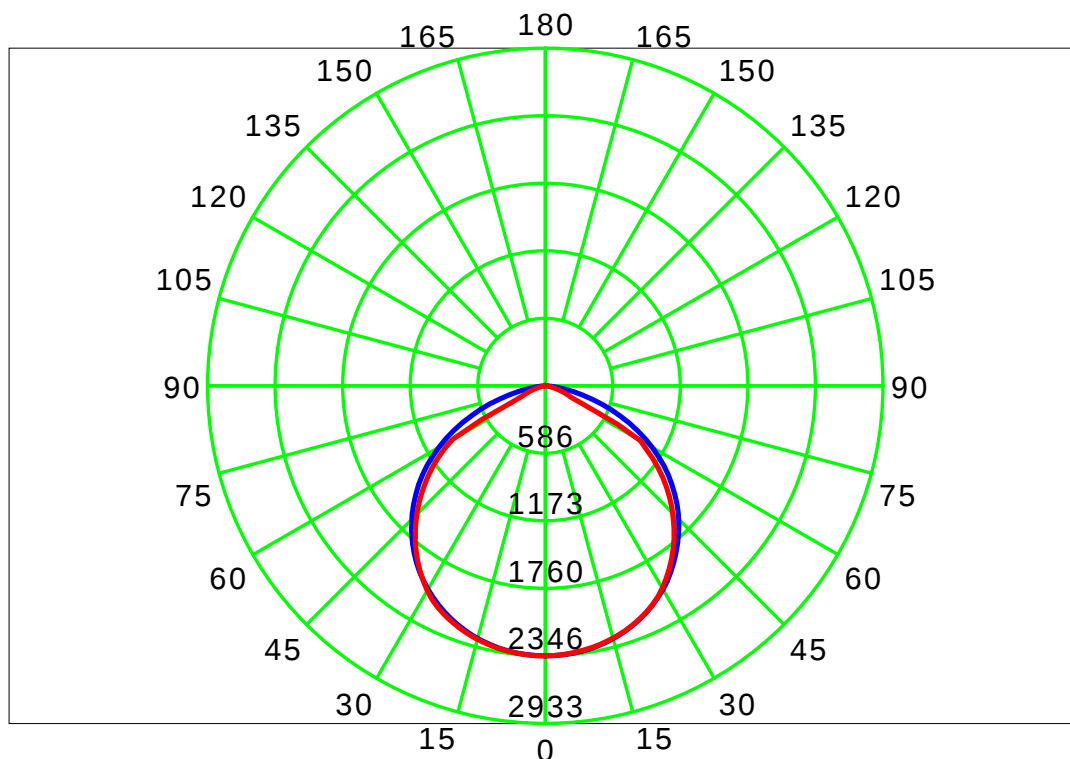
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

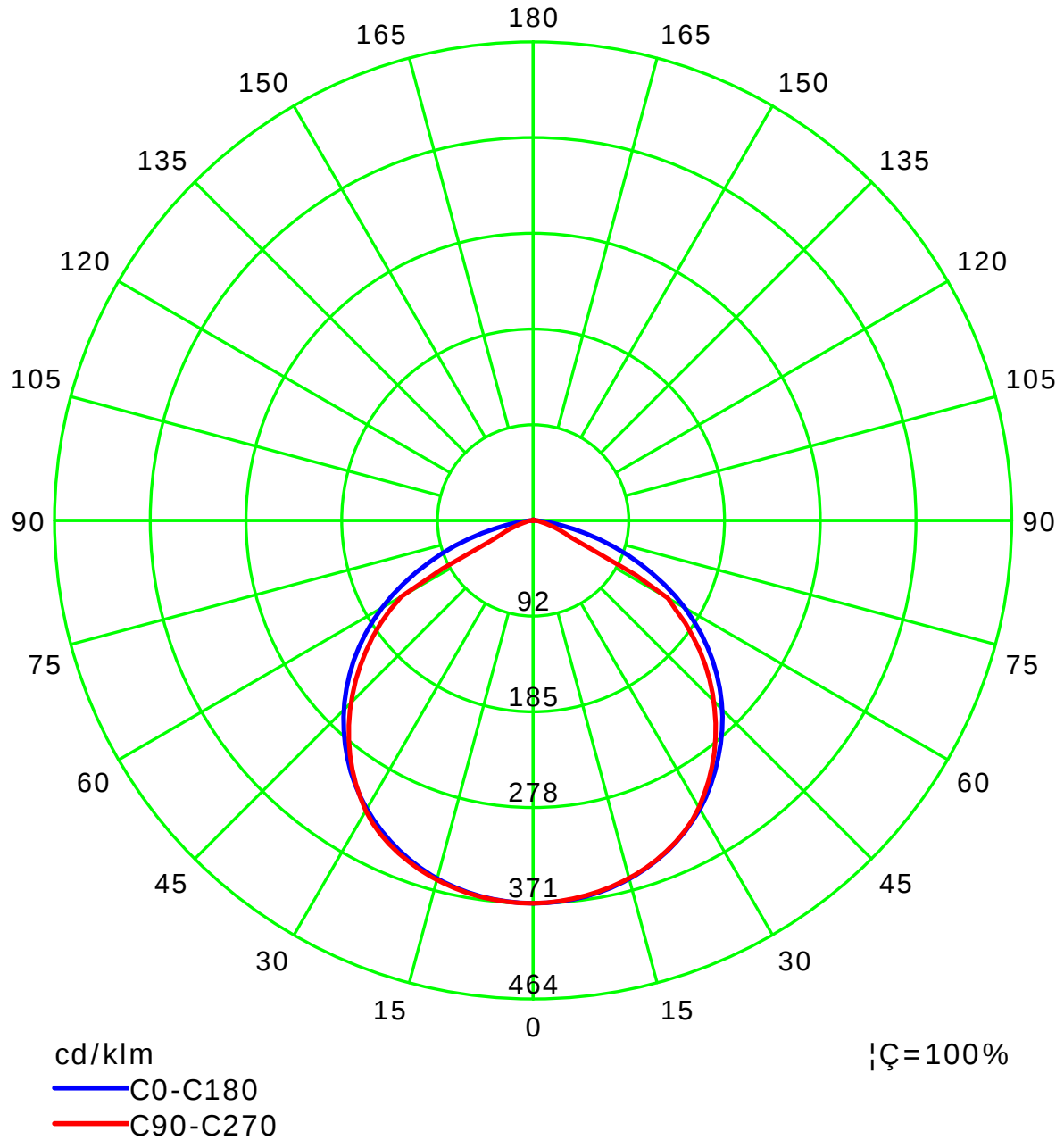
Luminous Intensity Distribution Curve



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Test Lab:
Test Type: TYPE C
Temperature:
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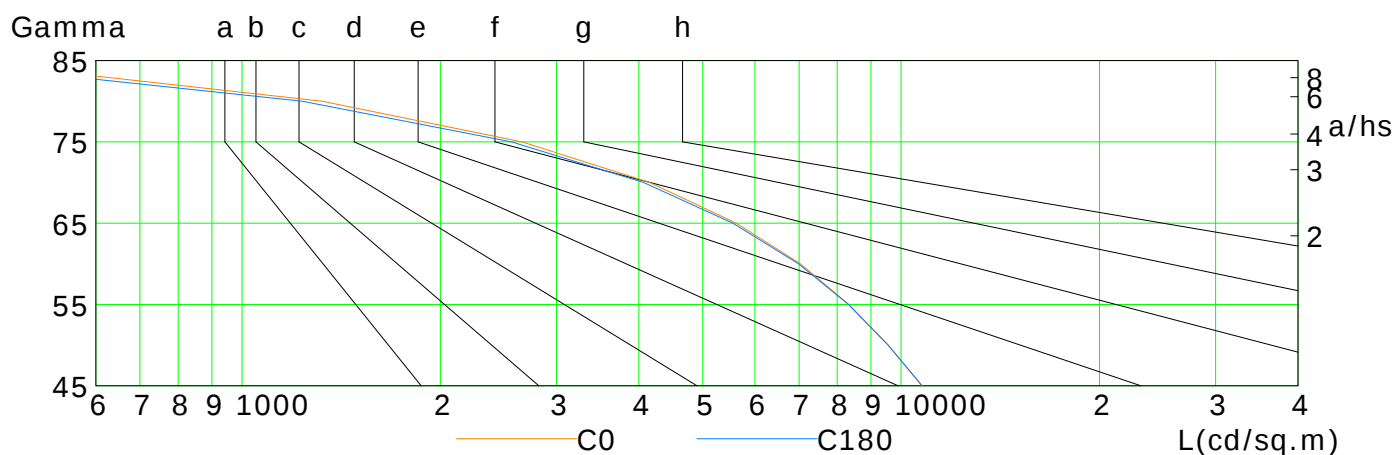
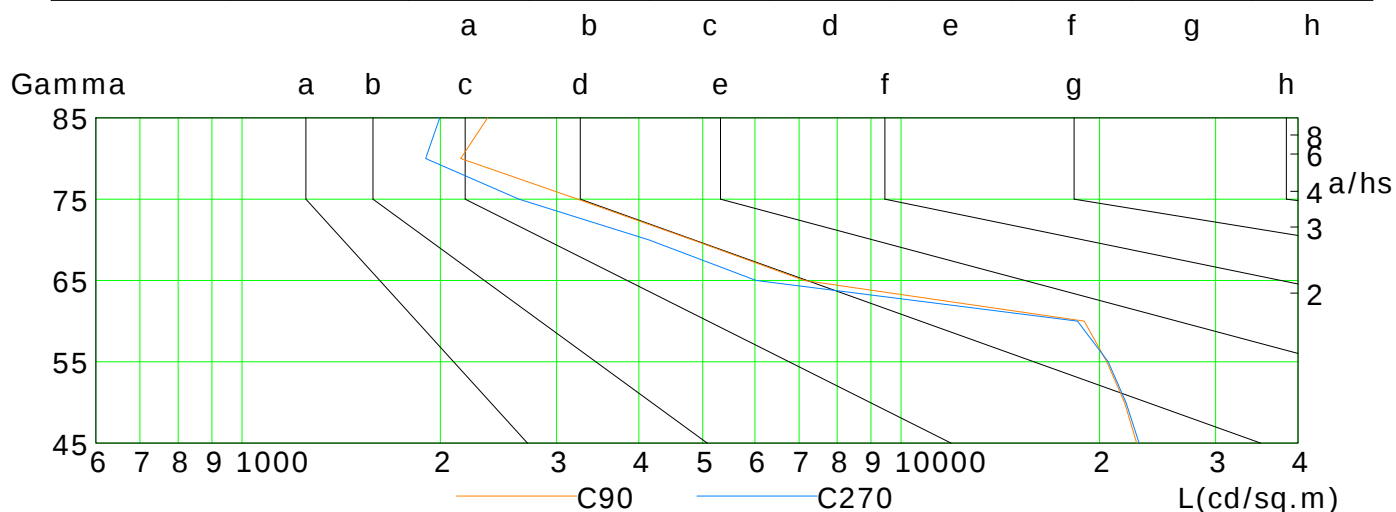
Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	10748	9557	8330	7033	5621	4156	2660	1323	370
C90	22766	21823	20508	18953	7132	4823	3230	2146	2358
C180	10762	9557	8316	6990	5555	4068	2563	1234	326
C270	22967	21938	20610	18517	6025	4138	2631	1900	1995

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

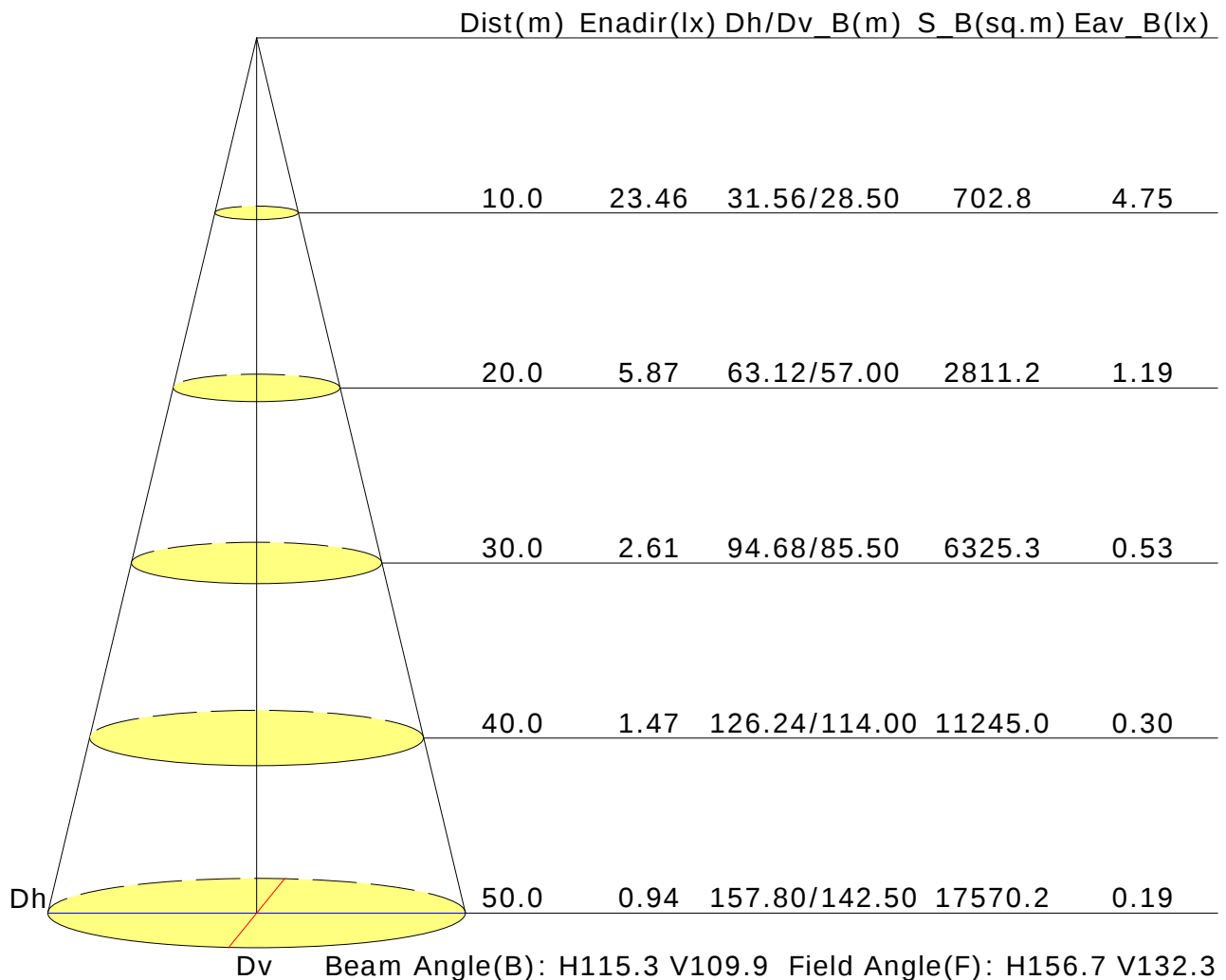
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

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	20.4	21.8	20.7	22.0	22.2	21.6	23.0	21.9	23.2	23.4
3H	21.3	22.5	21.7	22.8	23.1	21.7	22.9	22.0	23.2	23.4
4H	21.5	22.7	21.9	23.0	23.2	21.7	22.8	22.0	23.1	23.4
6H	21.6	22.6	22.0	22.9	23.3	21.6	22.7	22.0	23.0	23.3
8H	21.6	22.6	22.0	22.9	23.2	21.6	22.6	22.0	22.9	23.2
12H	21.5	22.5	21.9	22.8	23.2	21.6	22.5	21.9	22.8	23.2
X=4H Y=2H	20.9	22.0	21.2	22.3	22.6	21.9	23.0	22.2	23.3	23.6
3H	21.9	22.8	22.3	23.2	23.5	22.0	23.0	22.4	23.3	23.6
4H	22.1	23.0	22.6	23.4	23.7	22.0	22.8	22.4	23.2	23.6
6H	22.2	23.0	22.7	23.4	23.8	21.9	22.7	22.4	23.1	23.5
8H	22.2	22.9	22.7	23.3	23.7	21.9	22.6	22.4	23.0	23.4
12H	22.2	22.8	22.7	23.2	23.7	21.9	22.5	22.4	22.9	23.4
X=8H Y=4H	22.1	22.8	22.5	23.2	23.6	21.9	22.6	22.4	23.0	23.5
6H	22.2	22.8	22.7	23.2	23.7	21.9	22.5	22.4	22.9	23.4
8H	22.2	22.7	22.7	23.1	23.6	21.9	22.4	22.4	22.8	23.3
12H	22.2	22.6	22.7	23.1	23.6	21.9	22.3	22.4	22.8	23.3
X=12H Y=4H	22.1	22.7	22.5	23.1	23.5	21.9	22.5	22.4	23.0	23.4
6H	22.2	22.7	22.7	23.1	23.6	21.9	22.4	22.4	22.8	23.3
8H	22.2	22.6	22.7	23.1	23.6	21.9	22.3	22.4	22.8	23.3
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.4/-0.4				
S=1.5H	+0.5/-0.9					+1.2/-2.0				
S=2.0H	+1.0/-1.9					+2.7/-7.0				

Calculate in accordance with CIE Pub.117. The table is revised with 6310lm ($8\log(F/F_0) = 6.4$).

C Plane (°):0.0-360.0: 22.5

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Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

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	0.59	0.70	0.77	0.83	0.90	0.95	0.98	1.02	1.05	
	0.30		0.51	0.63	0.71	0.76	0.84	0.90	0.93	0.98	1.02	
	0.20		0.46	0.57	0.65	0.71	0.80	0.85	0.90	0.95	0.99	
0.50	0.50	0.20	0.57	0.68	0.75	0.80	0.87	0.91	0.94	0.98	1.01	
	0.30		0.51	0.62	0.69	0.75	0.82	0.87	0.91	0.95	0.98	
	0.20		0.46	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.96	
0.30	0.50	0.20	0.56	0.66	0.73	0.78	0.84	0.88	0.91	0.94	0.97	
	0.30		0.50	0.60	0.68	0.73	0.80	0.85	0.88	0.92	0.95	
	0.20		0.45	0.56	0.64	0.69	0.77	0.82	0.85	0.90	0.93	
0.00	0.00	0.00	0.43	0.54	0.61	0.66	0.73	0.78	0.81	0.85	0.88	
Rating:76W 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	0.95	0.77	0.65	0.56	0.44	0.36	0.31	0.23	0.19	
	0.30		0.80	0.66	0.56	0.49	0.40	0.33	0.28	0.22	0.18	
	0.20		0.68	0.58	0.50	0.44	0.36	0.30	0.26	0.21	0.17	
0.50	0.50	0.20	0.92	0.74	0.62	0.53	0.42	0.38	0.29	0.22	0.18	
	0.30		0.78	0.64	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.20		0.68	0.57	0.49	0.43	0.35	0.29	0.25	0.20	0.16	
0.30	0.50	0.20	0.89	0.71	0.59	0.51	0.40	0.32	0.27	0.21	0.17	
	0.30		0.76	0.63	0.53	0.46	0.37	0.30	0.26	0.20	0.16	
	0.20		0.67	0.56	0.48	0.42	0.34	0.28	0.24	0.19	0.16	
0.00	0.00	0.00	0.56	0.46	0.39	0.33	0.26	0.22	0.18	0.14	0.11	
Rating:76W 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	0.20	0.21	0.21	0.22	
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.17	0.19	0.19	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.14	0.16	0.16	0.17	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:76W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												