

Report No.:

Test Time: 26.02.2020 23:27

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FG 50 45W 5000K прозрачный IP65 Ex

Luminous Length (mm): 1250

Luminous Width (mm): 60

Luminous Height (mm): 80

Voltage: 228.8 V

Current: 0.236 A

Power: 53.26 W

Power Factor: 0.987

Photometric Results

CIE Class: Direct

Measurement Flux: 4337.3 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 4337.3 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.4, 116.0, 131.7, 133.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.0, 109.2, 114.4, 114.7

Luminaire Efficacy Rating (LER): 81.49

Central Intensity: 1686.39 cd

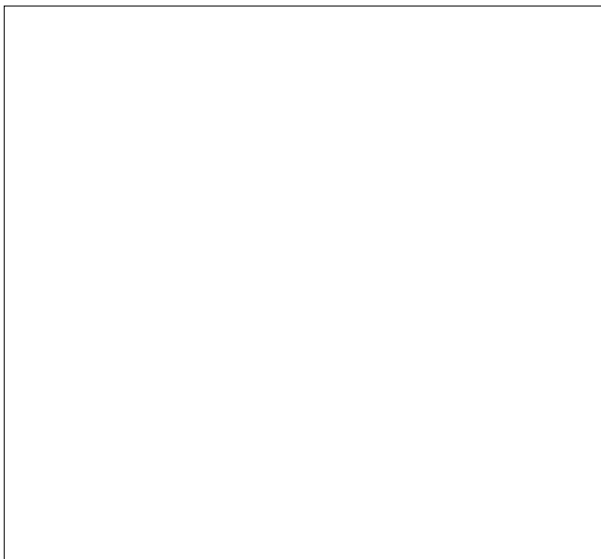
Max. Intensity: 1691.1 cd

Pos of Max. Intensity: H292.5 V2

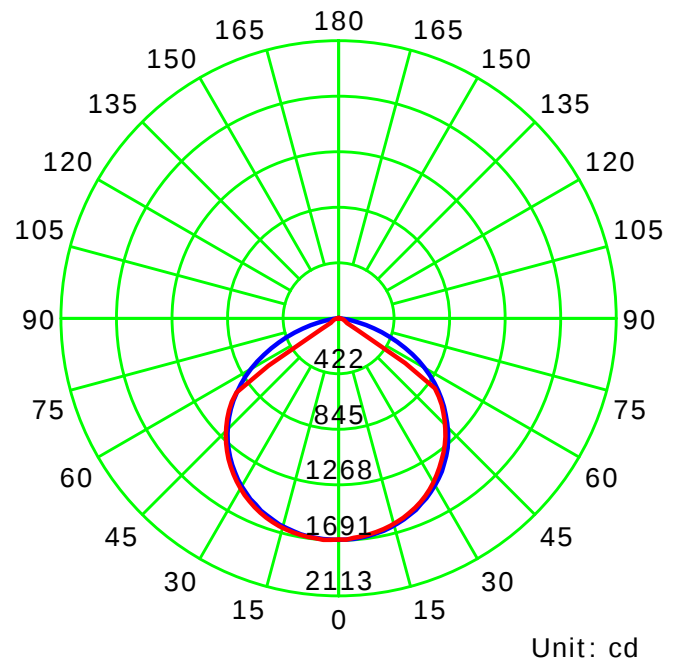
S/MH(C0/C180): 1.30

S/MH(C90/C270): 1.29

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— 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

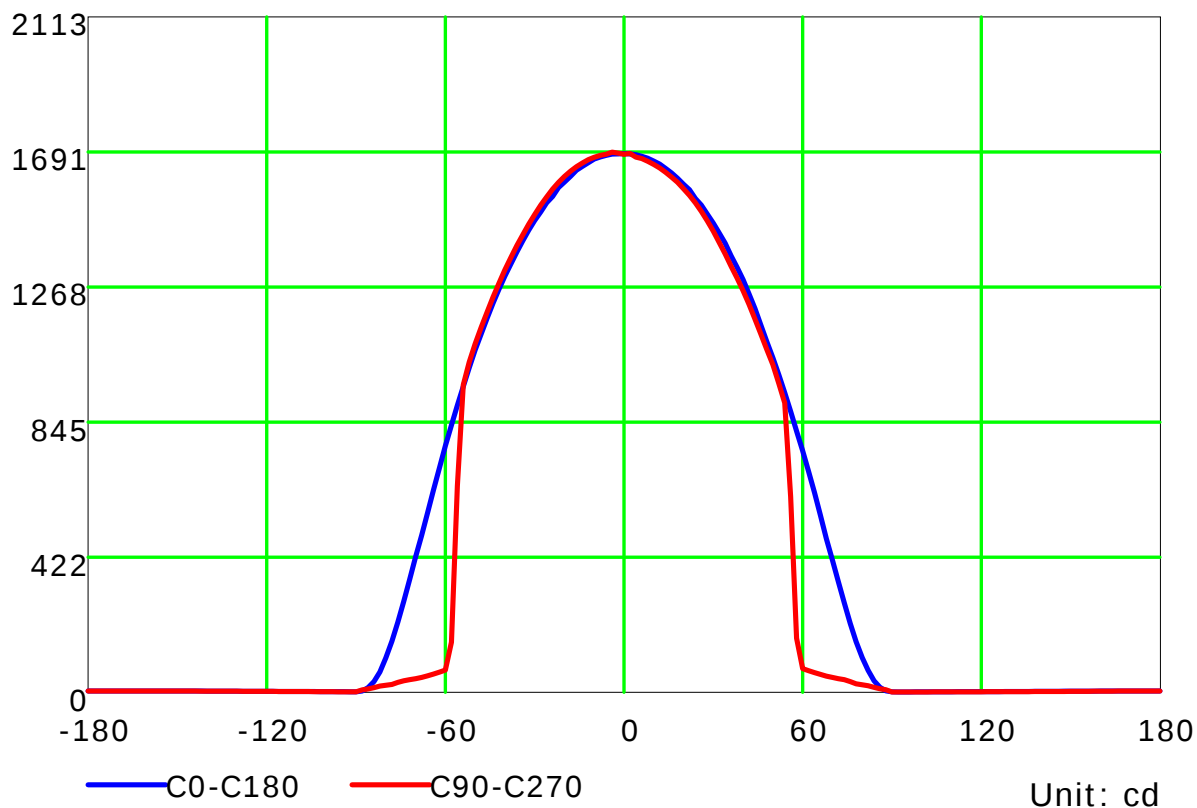
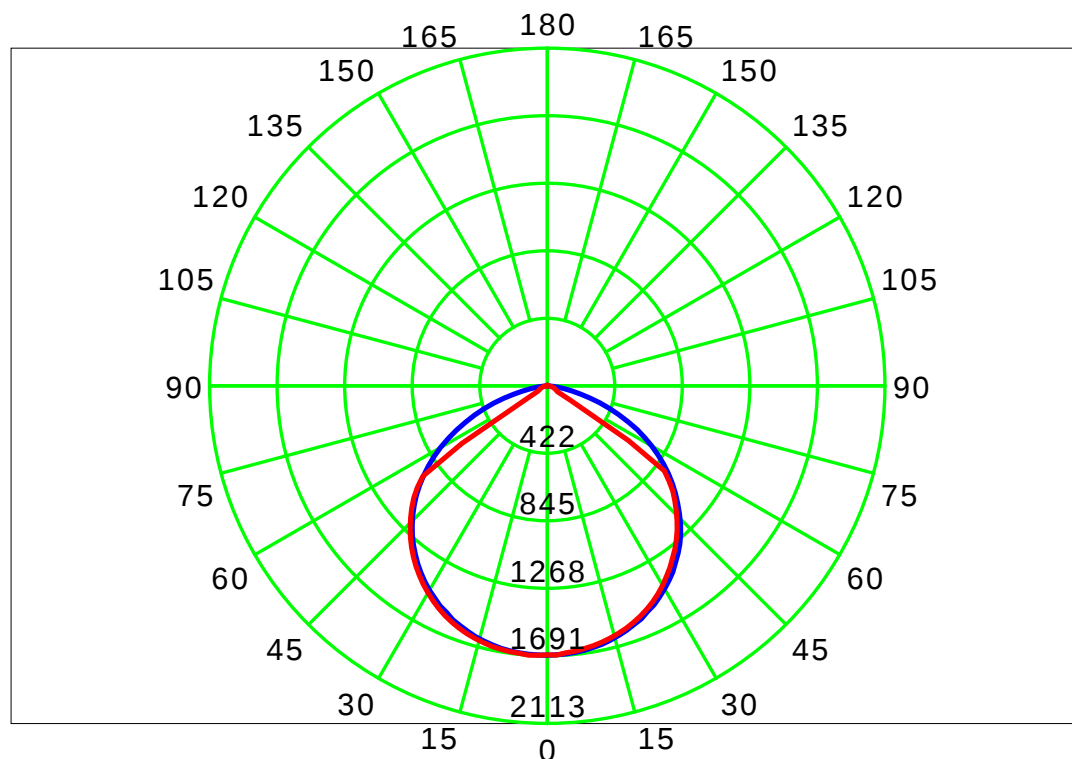
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

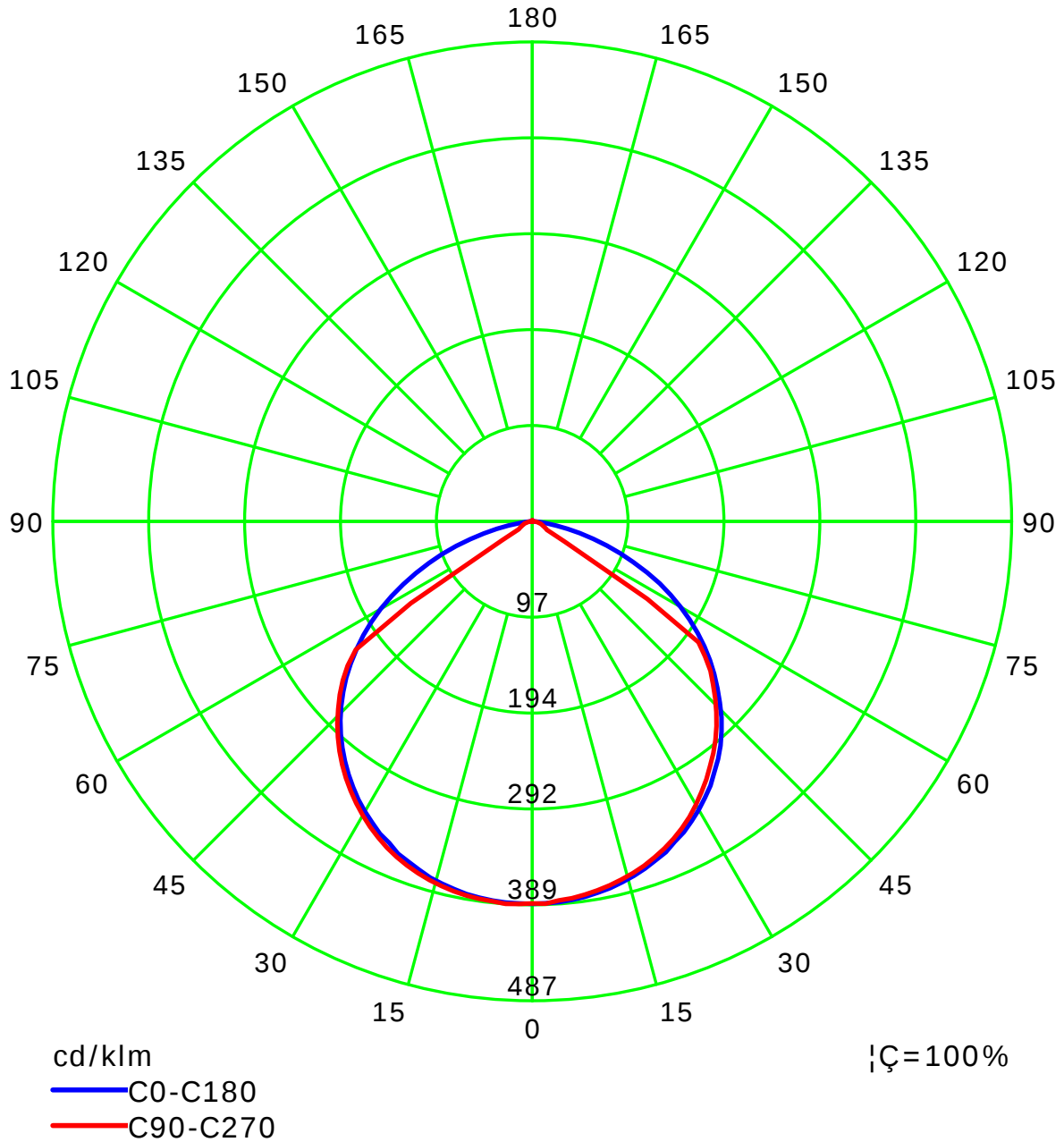
Luminous Intensity Distribution Curve



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Test Lab:
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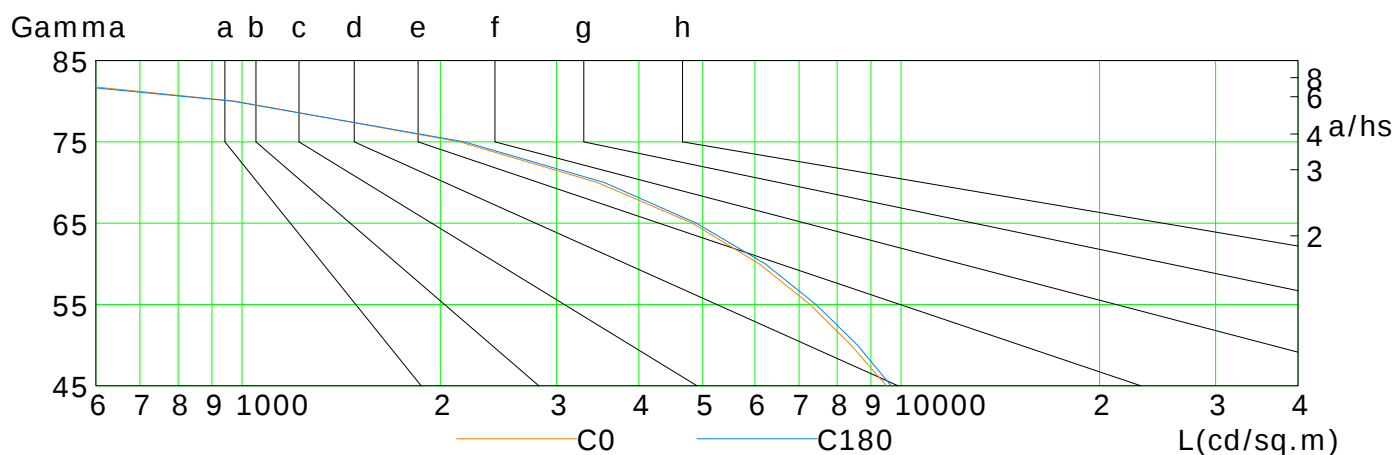
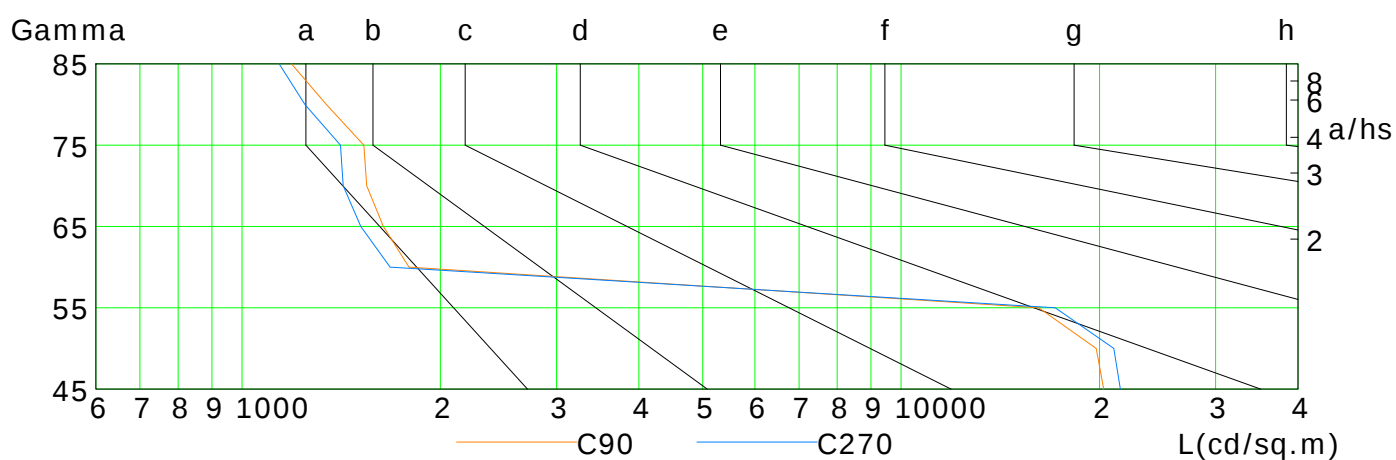
Luminous Intensity Distribution Curve(cd / klm)



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	9499	8391	7274	6093	4823	3460	2140	978	245
C90	20292	19769	16170	1792	1639	1546	1530	1343	1189
C180	9657	8585	7426	6219	4889	3546	2174	968	227
C270	21511	21024	17134	1678	1514	1424	1410	1246	1139

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

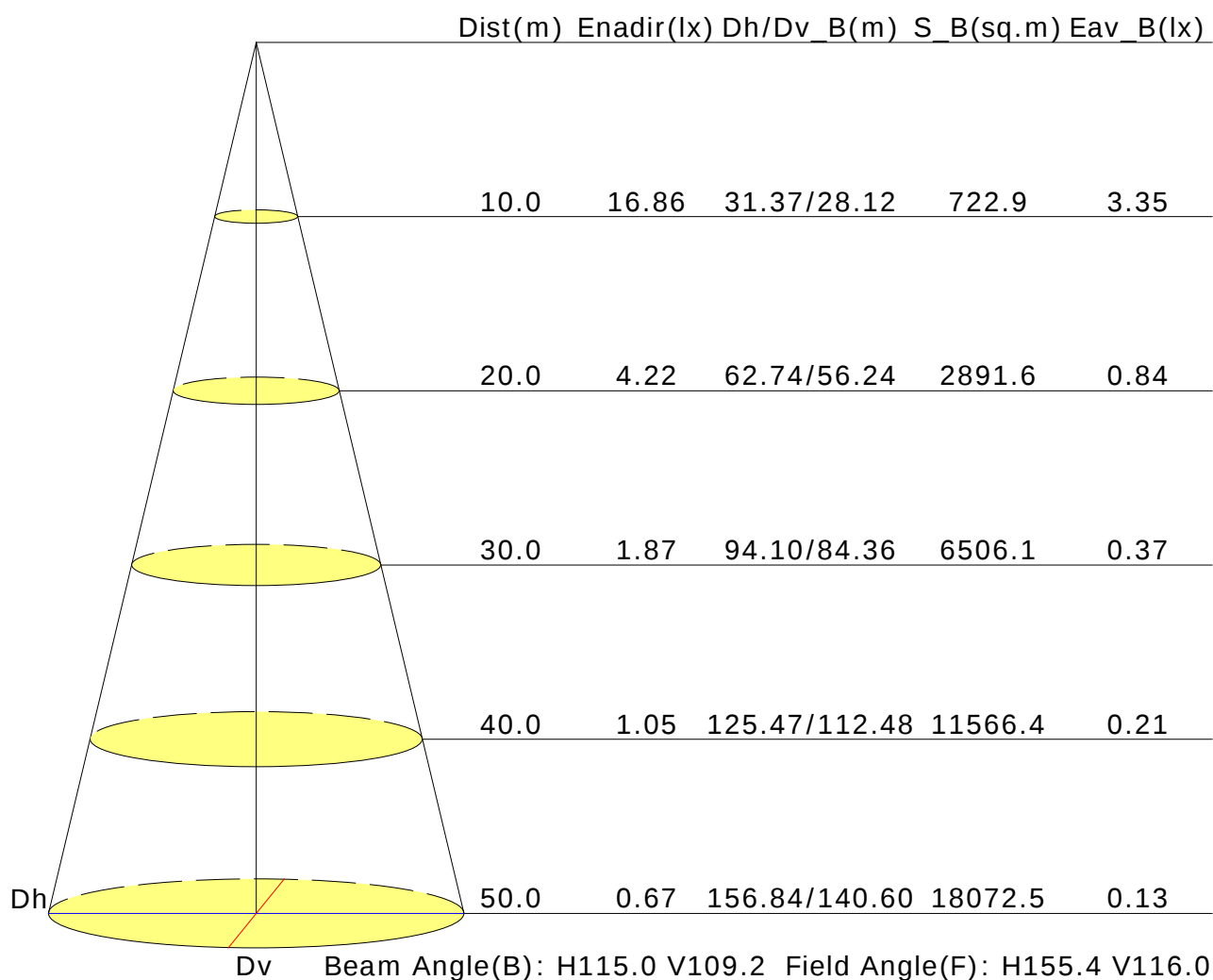
Test Device: LSG-1800B

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	20.0	21.3	20.3	21.5	21.8	20.2	21.5	20.5	21.7	21.9
3H	20.9	22.0	21.2	22.3	22.6	20.0	21.2	20.4	21.5	21.7
4H	21.0	22.1	21.4	22.4	22.7	20.0	21.1	20.3	21.4	21.7
6H	21.0	22.0	21.4	22.4	22.7	19.9	20.9	20.3	21.2	21.6
8H	21.0	22.0	21.4	22.3	22.6	19.9	20.9	20.3	21.2	21.5
12H	21.0	21.9	21.4	22.2	22.6	19.9	20.8	20.2	21.1	21.5
X=4H Y=2H	20.3	21.4	20.7	21.7	22.0	20.4	21.5	20.7	21.8	22.1
3H	21.2	22.1	21.6	22.4	22.8	20.3	21.2	20.6	21.5	21.9
4H	21.4	22.2	21.8	22.6	23.0	20.2	21.0	20.6	21.4	21.8
6H	21.4	22.1	21.9	22.5	22.9	20.2	20.9	20.6	21.3	21.7
8H	21.4	22.1	21.8	22.5	22.9	20.1	20.8	20.6	21.2	21.6
12H	21.4	22.0	21.8	22.4	22.8	20.1	20.7	20.6	21.1	21.6
X=8H Y=4H	21.3	22.0	21.8	22.4	22.8	20.1	20.8	20.6	21.2	21.6
6H	21.3	21.9	21.8	22.3	22.8	20.1	20.6	20.6	21.1	21.5
8H	21.3	21.8	21.8	22.2	22.7	20.1	20.6	20.6	21.0	21.5
12H	21.3	21.7	21.8	22.2	22.7	20.1	20.5	20.6	20.9	21.5
X=12H Y=4H	21.3	21.9	21.7	22.3	22.7	20.1	20.7	20.6	21.1	21.6
6H	21.3	21.8	21.8	22.2	22.7	20.1	20.5	20.6	21.0	21.5
8H	21.3	21.7	21.8	22.2	22.7	20.1	20.5	20.6	20.9	21.4
Variations with the observer position at spacings:										
S=1.0H	+0.1/-0.3					+0.9/-1.8				
S=1.5H	+0.7/-1.5					+2.9/-10.4				
S=2.0H	+1.2/-2.2					+4.5/-12.2				

Calculate in accordance with CIE Pub.117. The table is revised with 4337lm ($8\log(F/F_0) = 5.1$).

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Temperature:

Operator:

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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	0.61	0.73	0.80	0.85	0.92	0.97	1.00	1.04	1.07	
	0.30		0.54	0.65	0.73	0.79	0.87	0.92	0.96	1.01	1.04	
	0.20		0.48	0.60	0.68	0.74	0.82	0.88	0.92	0.98	1.01	
0.50	0.50	0.20	0.60	0.70	0.78	0.83	0.89	0.94	0.96	1.00	1.03	
	0.30		0.53	0.64	0.72	0.77	0.85	0.89	0.93	0.97	1.00	
	0.20		0.48	0.59	0.67	0.73	0.81	0.86	0.90	0.95	0.98	
0.30	0.50	0.20	0.58	0.69	0.75	0.80	0.86	0.90	0.93	0.96	0.99	
	0.30		0.52	0.63	0.70	0.76	0.82	0.87	0.90	0.94	0.97	
	0.20		0.48	0.59	0.66	0.72	0.79	0.84	0.87	0.92	0.95	
0.00	0.00	0.00	0.45	0.56	0.64	0.69	0.76	0.80	0.83	0.88	0.90	
Rating:53W 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	0.76	0.63	0.54	0.43	0.35	0.30	0.23	0.18	
	0.30		0.79	0.65	0.55	0.48	0.39	0.32	0.28	0.21	0.18	
	0.20		0.68	0.57	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.91	0.73	0.61	0.52	0.41	0.37	0.28	0.21	0.17	
	0.30		0.77	0.63	0.54	0.47	0.37	0.31	0.26	0.20	0.17	
	0.20		0.67	0.56	0.48	0.42	0.34	0.29	0.25	0.19	0.16	
0.30	0.50	0.20	0.89	0.70	0.58	0.50	0.39	0.31	0.27	0.20	0.16	
	0.30		0.76	0.62	0.52	0.45	0.36	0.29	0.25	0.19	0.16	
	0.20		0.66	0.55	0.47	0.41	0.33	0.28	0.24	0.18	0.15	
0.00	0.00	0.00	0.56	0.45	0.37	0.32	0.25	0.21	0.17	0.13	0.11	
Rating:53W 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	0.18	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	0.14	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	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	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	0.17	0.18	0.18
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17
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:53W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											