

Report No.:

Test Time: 26.02.2020 21:27

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: 230.2 V

Current: 0.198 A

Power: 44.87 W

Power Factor: 0.982

Photometric Results

CIE Class: Direct

Measurement Flux: 3753.1 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 3753.1 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.4, 115.9, 131.9, 132.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.8, 109.1, 114.8, 113.8

Luminaire Efficacy Rating (LER): 83.69

Central Intensity: 1460.47 cd

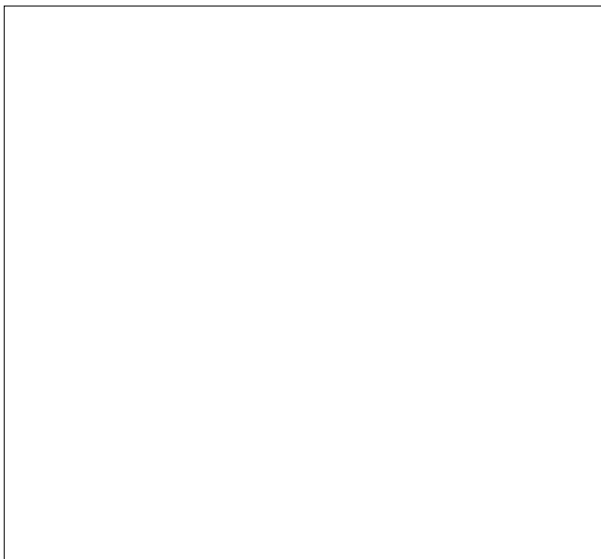
Max. Intensity: 1460.47 cd

Pos of Max. Intensity: H0 V0

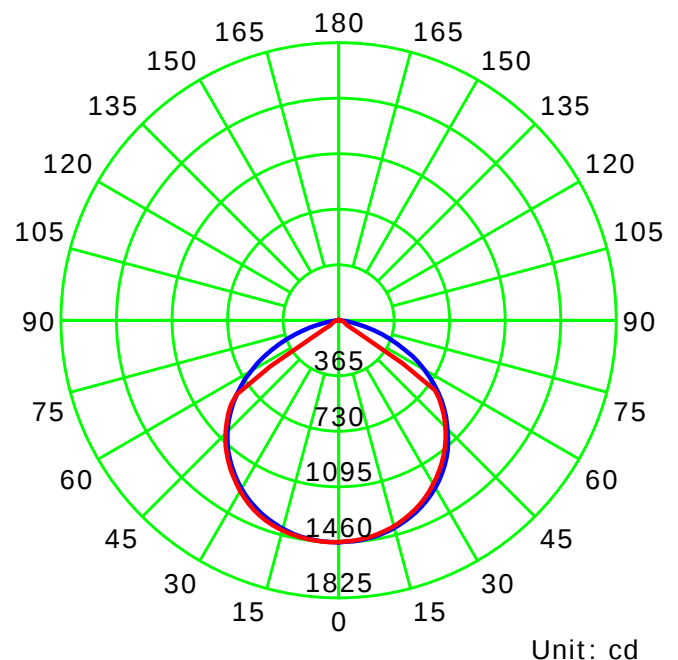
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.29

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

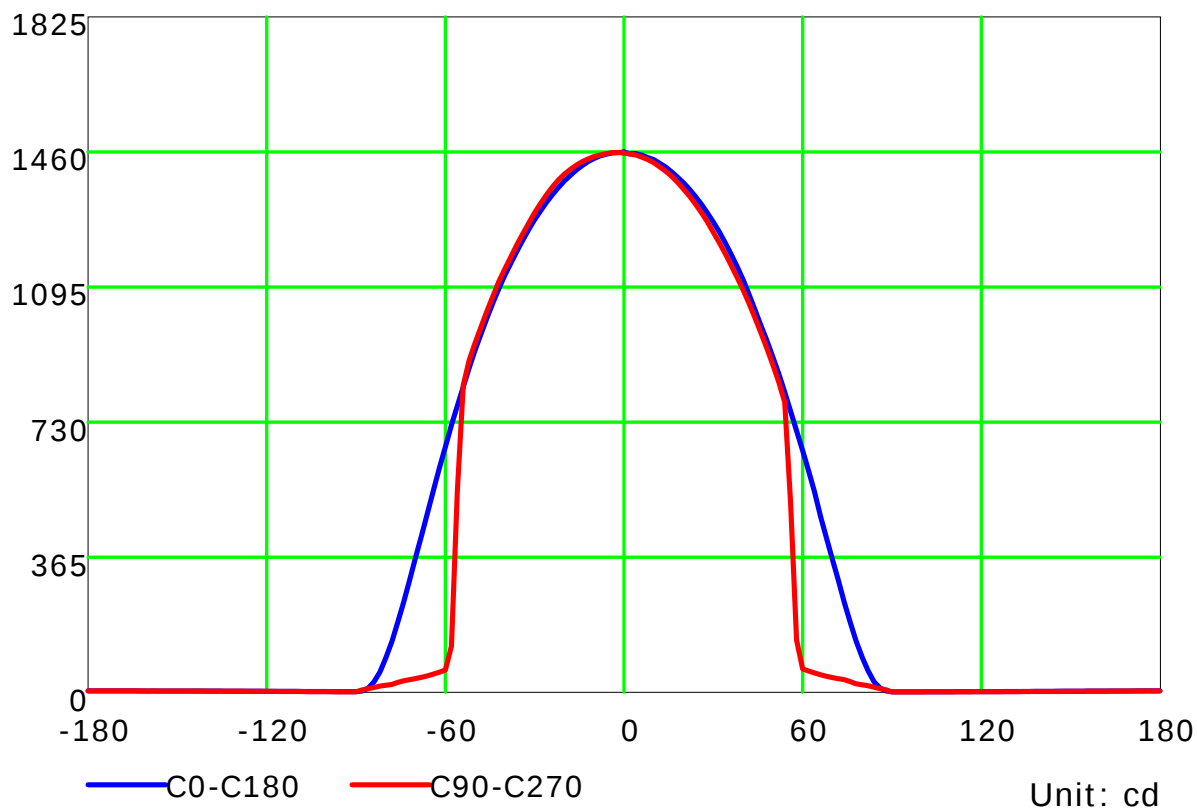
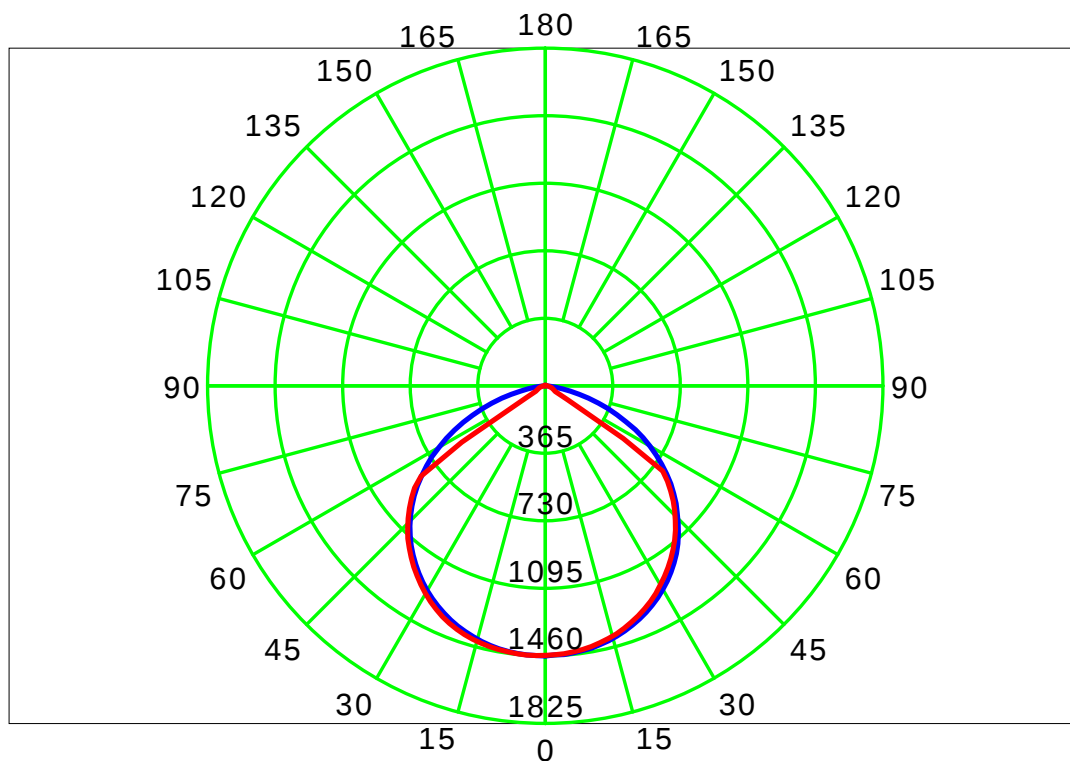
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

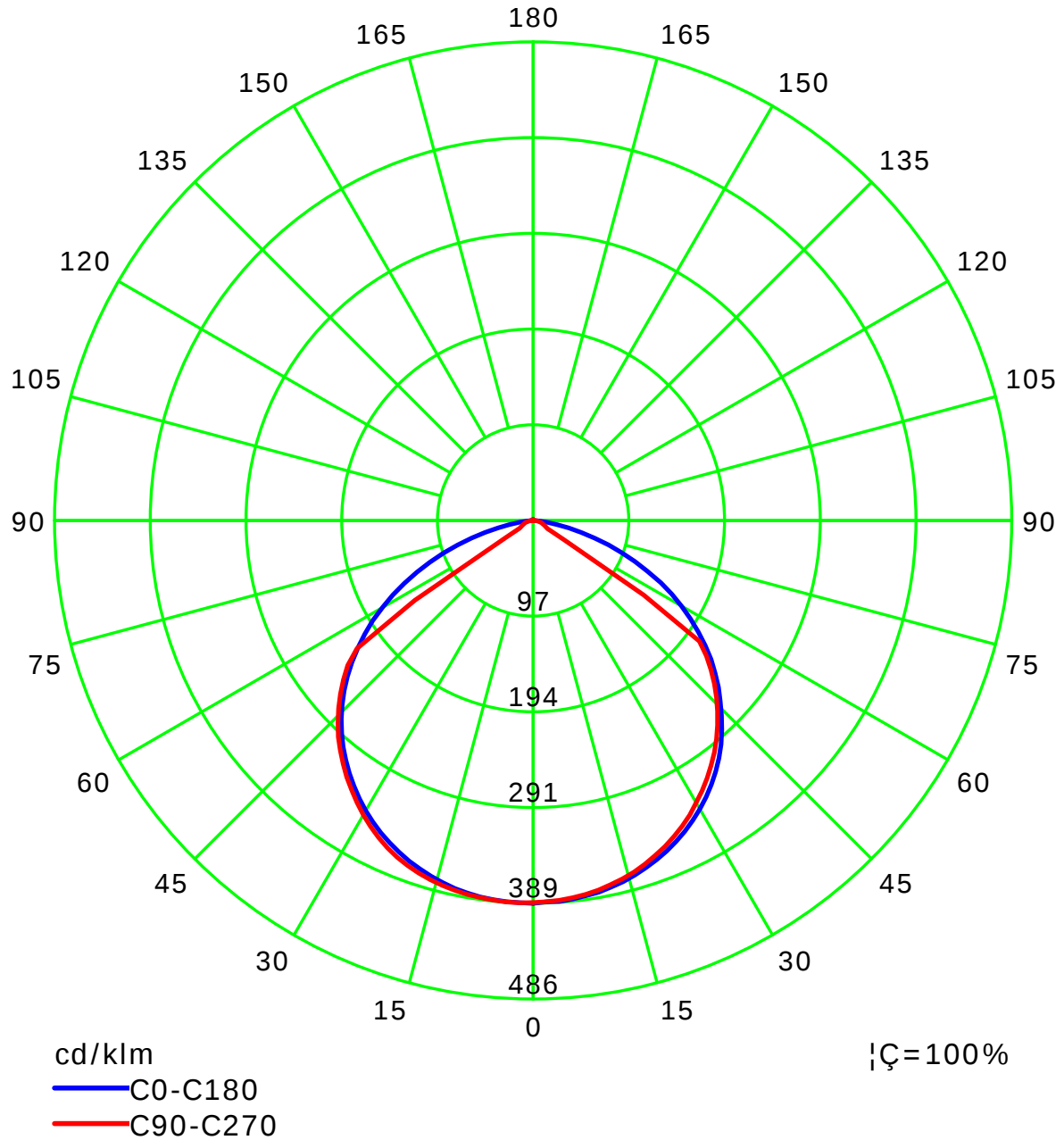
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
Test Lab:
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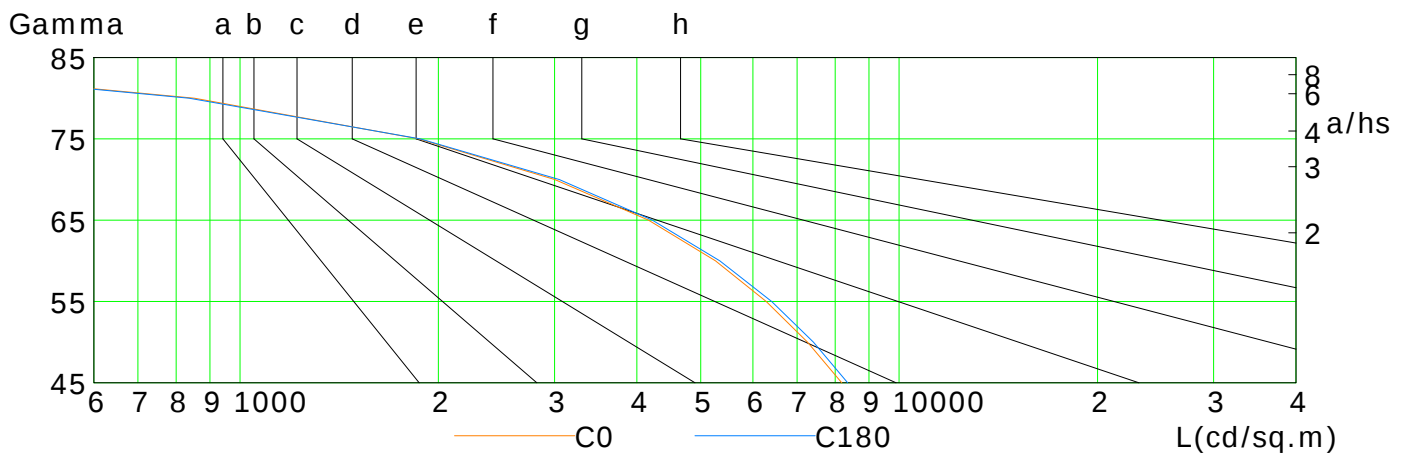
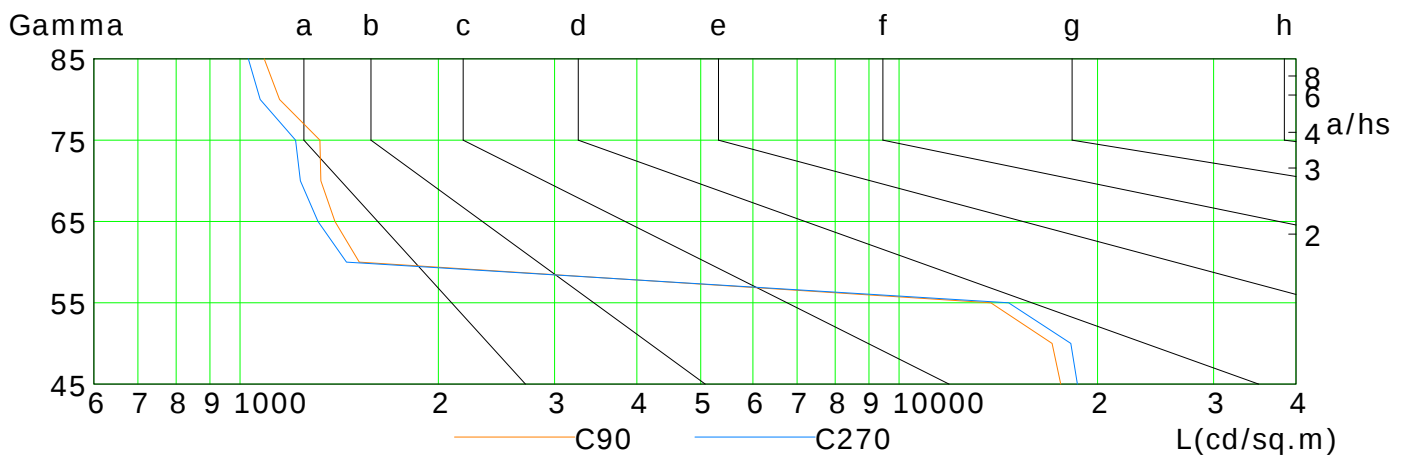
Luminous Intensity Distribution Curve(cd / klm)



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	8186	7261	6286	5265	4166	3002	1867	853	192
C90	17587	17059	13773	1517	1394	1327	1322	1148	1088
C180	8355	7414	6406	5345	4223	3049	1876	837	186
C270	18640	18215	14658	1450	1313	1235	1214	1073	1030

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

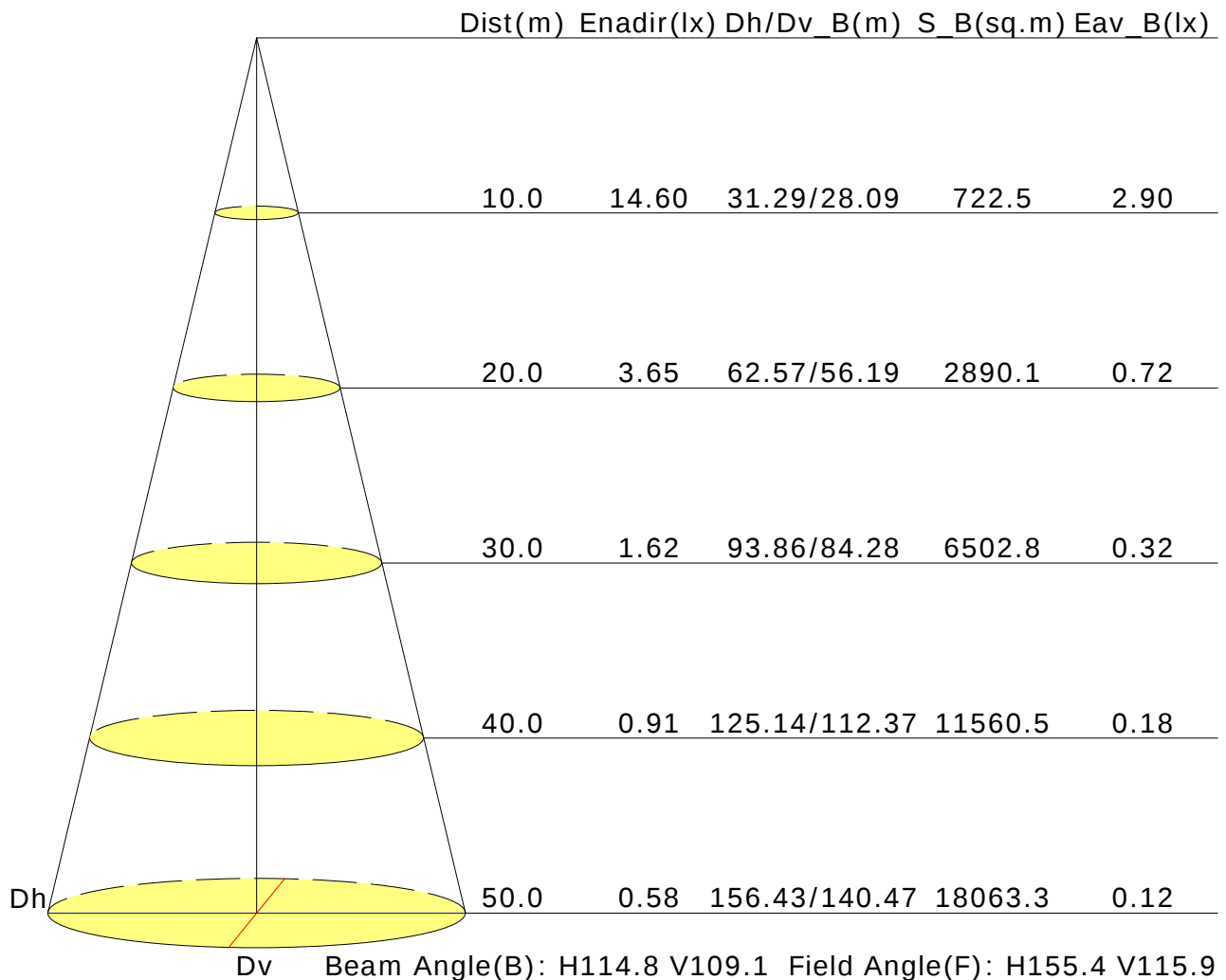
Test Device: LSG-1800B

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	19.5	20.8	19.8	21.1	21.3	19.7	21.0	20.0	21.2	21.4
3H	20.4	21.5	20.7	21.8	22.1	19.5	20.7	19.9	21.0	21.2
4H	20.6	21.7	20.9	21.9	22.2	19.5	20.6	19.8	20.8	21.1
6H	20.6	21.6	20.9	21.9	22.2	19.4	20.4	19.8	20.7	21.0
8H	20.6	21.5	20.9	21.8	22.2	19.4	20.3	19.7	20.7	21.0
12H	20.5	21.4	20.9	21.8	22.1	19.3	20.3	19.7	20.6	20.9
X=4H Y=2H	19.8	20.9	20.2	21.2	21.5	19.9	21.0	20.2	21.2	21.5
3H	20.7	21.6	21.1	22.0	22.3	19.7	20.7	20.1	21.0	21.3
4H	21.0	21.8	21.4	22.1	22.5	19.7	20.5	20.1	20.9	21.2
6H	21.0	21.7	21.4	22.1	22.5	19.6	20.4	20.1	20.7	21.2
8H	21.0	21.6	21.4	22.0	22.4	19.6	20.3	20.1	20.7	21.1
12H	20.9	21.5	21.4	21.9	22.4	19.6	20.2	20.1	20.6	21.1
X=8H Y=4H	20.9	21.5	21.3	21.9	22.3	19.6	20.3	20.1	20.7	21.1
6H	20.9	21.4	21.4	21.8	22.3	19.6	20.1	20.1	20.6	21.0
8H	20.9	21.3	21.4	21.8	22.3	19.6	20.0	20.1	20.5	21.0
12H	20.8	21.2	21.3	21.7	22.2	19.6	20.0	20.1	20.4	20.9
X=12H Y=4H	20.8	21.4	21.3	21.8	22.3	19.6	20.2	20.1	20.6	21.1
6H	20.9	21.3	21.3	21.8	22.3	19.6	20.0	20.1	20.5	21.0
8H	20.8	21.2	21.3	21.7	22.2	19.6	19.9	20.1	20.4	20.9
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/-10.3				
S=2.0H	+1.1/-2.2					+4.5/-12.2				

Calculate in accordance with CIE Pub.117. The table is revised with 3753lm ($8\log(F/F_0) = 4.6$).

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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	0.72	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	0.59	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	0.87	0.90	
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 = 1.25									
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	0.55	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: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 = 1.25								
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:45W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											