

Report No.: 1

Test Time: 31.03.2020 15:15

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FT 91 30W Samsung D2 40W 90 2700K 5EA s draiverom professional 1-10 45 gr.

Luminous Length (mm): 210

Luminous Height (mm): -91

Current: 0.135 A

Luminous Width (mm): -91

Voltage: 229.4 V

Power: 30.01 W

Power Factor: 0.966

Photometric Results

CIE Class: Direct

Measurement Flux: 2451.1 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 72.9, 72.6, 73.0, 72.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 50.5, 50.9, 50.6, 50.7

Luminaire Efficacy Rating (LER): 81.73

Max. Intensity: 3714.89 cd

S/MH(C0/C180): 0.79

Total Rated Lamp Lumens: 2451.1 lm

Efficiency: 100%

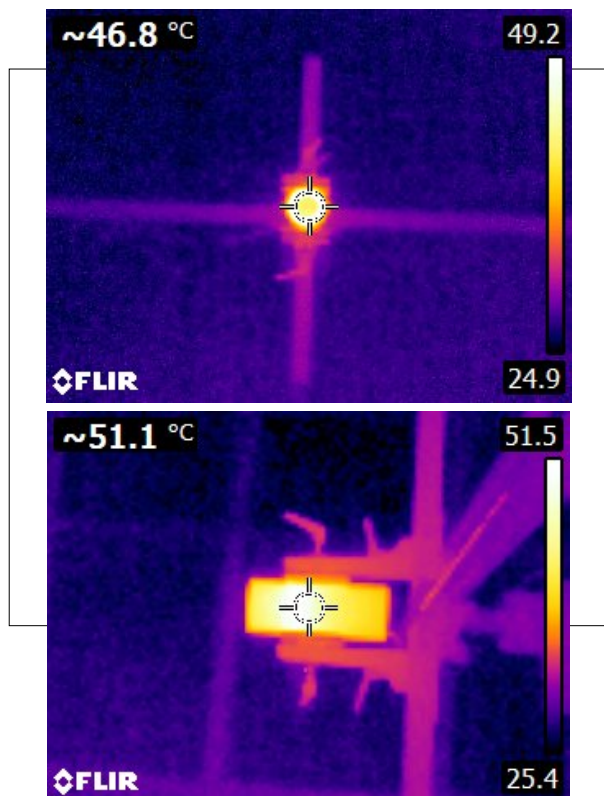
Upward Ratio: 1%

Central Intensity: 3705.64 cd

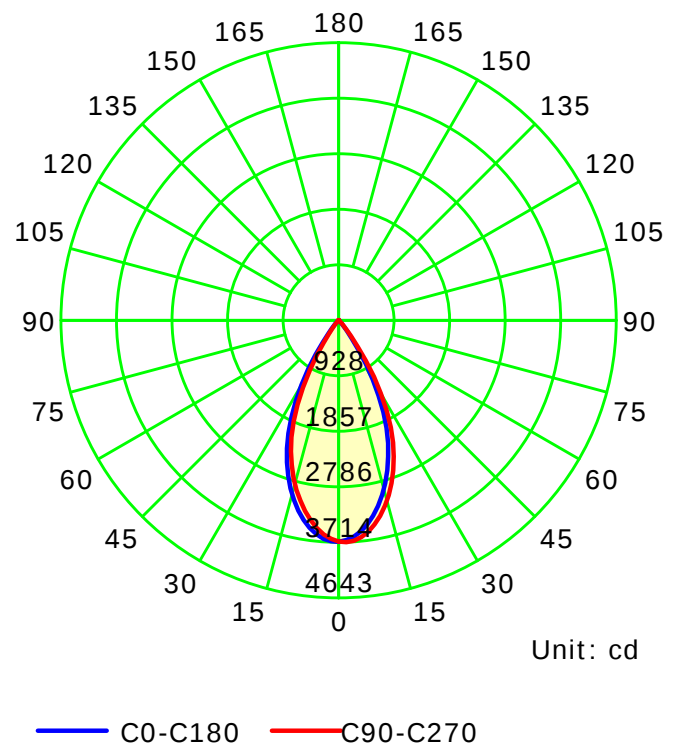
Pos of Max. Intensity: H112.5 V2

S/MH(C90/C270): 0.80

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

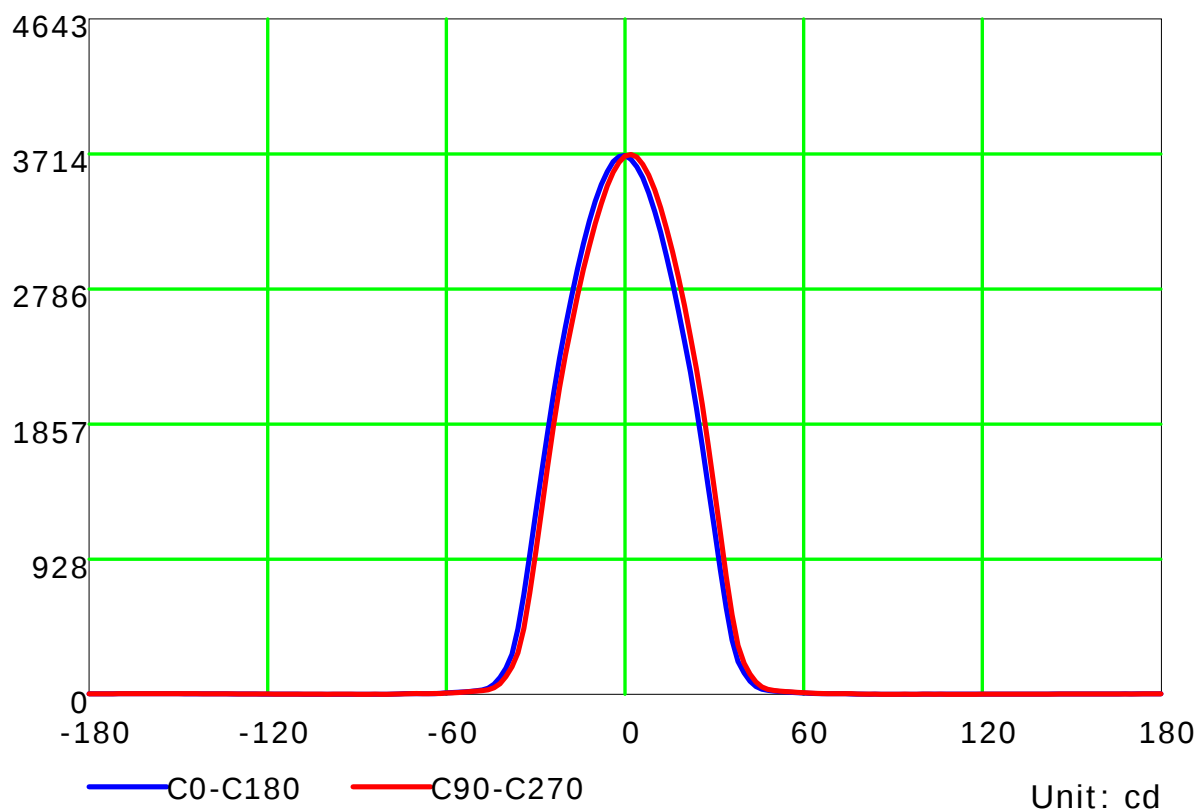
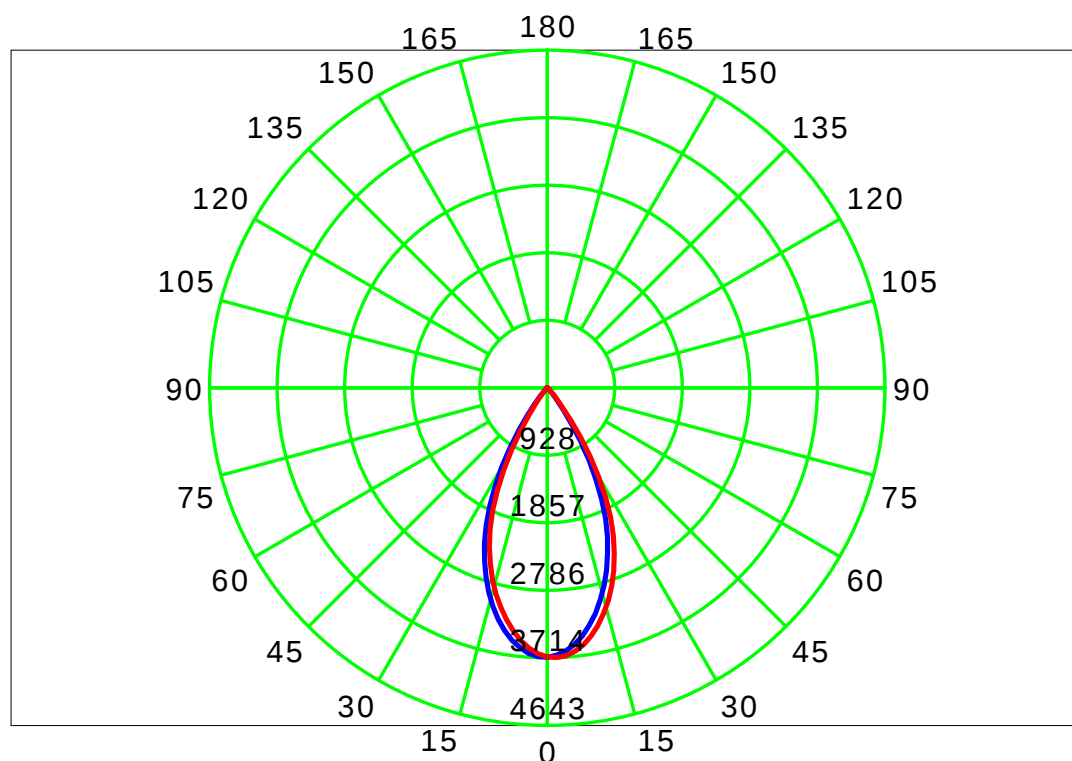
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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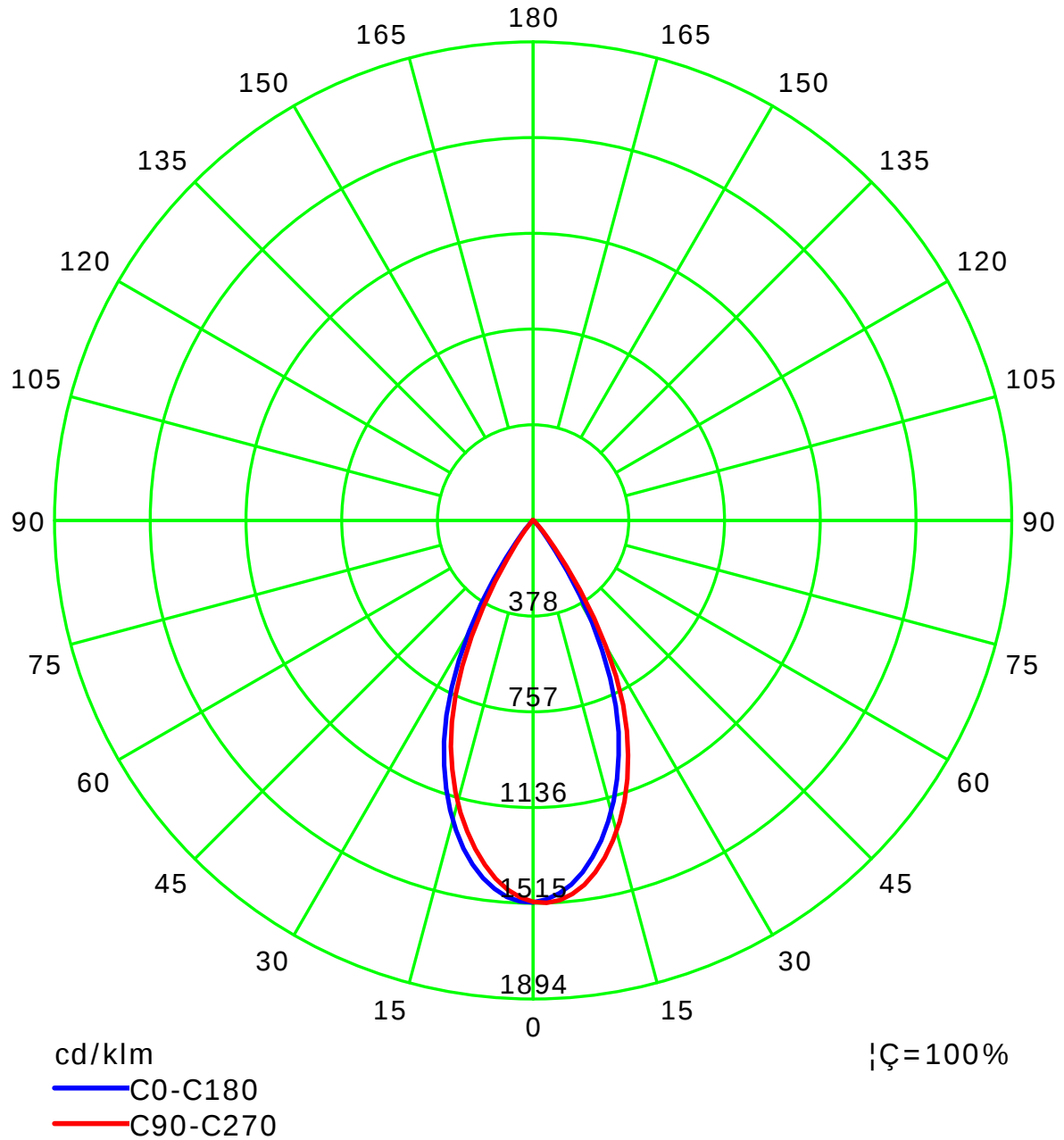
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

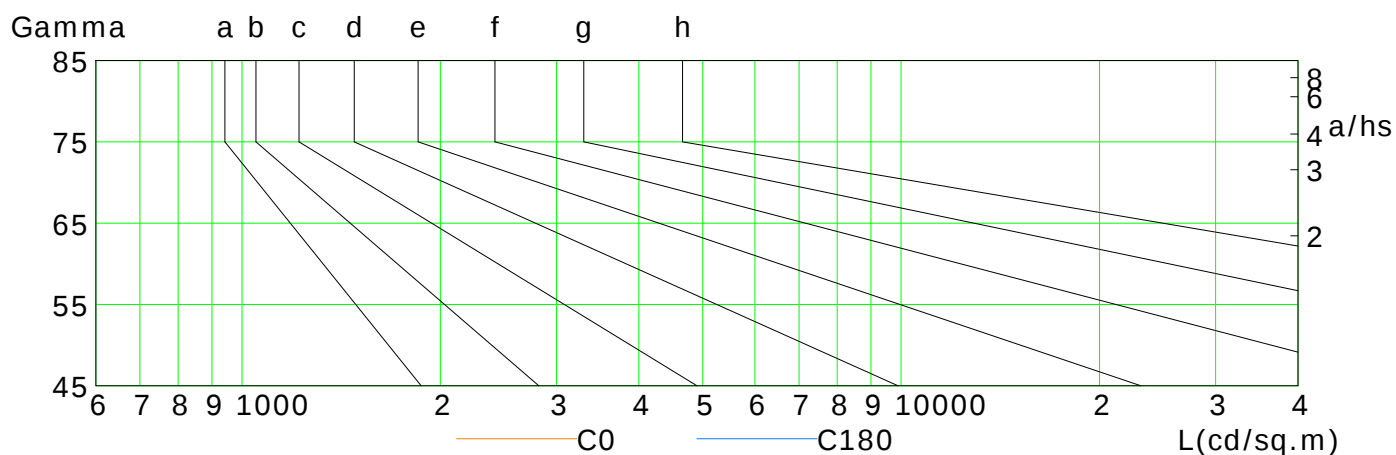
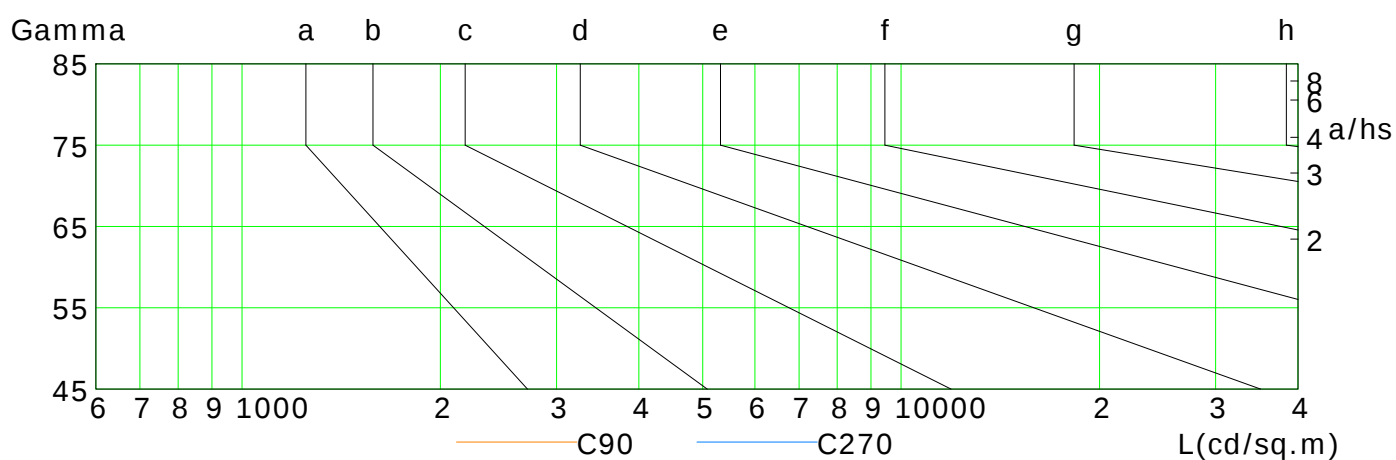
Luminous Intensity Distribution Curve(cd / klm)



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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	45	23	15	10	5	5	4	1	1
C90	68	27	18	12	6	5	5	1	1
C180	56	24	16	10	5	5	4	1	1
C270	39	22	14	9	6	6	3	1	1

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

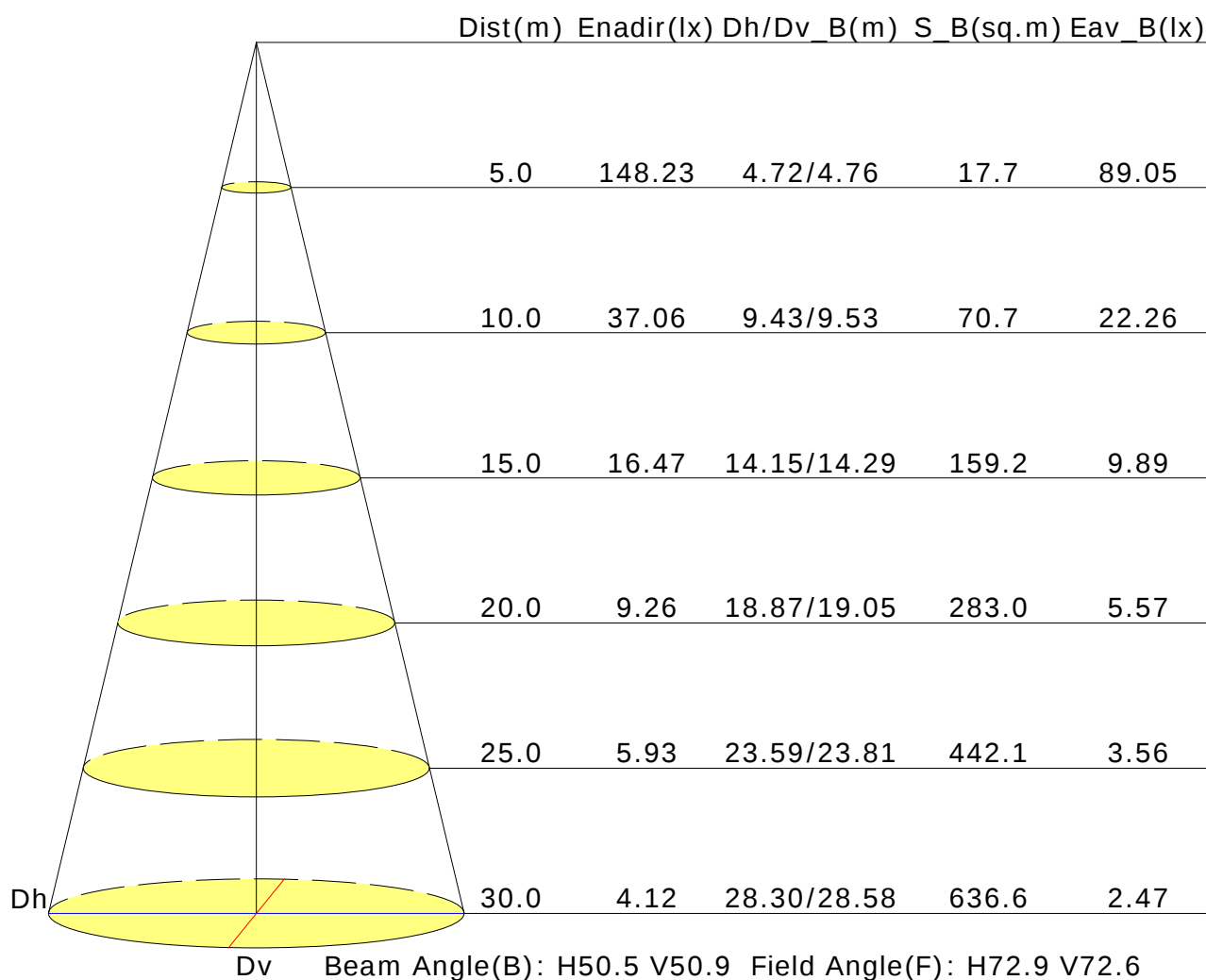
Test Device: LSG-1800B

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	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
Variations with the observer position at spacings:										
S=1.0H	-1.\$/5.9					-1.\$/5.9				
S=1.5H	-1.\$/8.7					-1.\$/9.0				
S=2.0H	-1.\$/10.6					-1.\$/10.6				

Calculate in accordance with CIE Pub.117. The table is revised with 2451lm ($8\log(F/F_0) = 3.1$).

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:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.75									
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	0.87	0.93	0.97	1.00	1.04	1.06	1.08	1.10	1.11	
	0.30		0.83	0.89	0.93	0.96	1.00	1.03	1.05	1.08	1.09	
	0.20		0.79	0.86	0.90	0.93	0.98	1.01	1.03	1.06	1.08	
0.50	0.50	0.20	0.86	0.91	0.95	0.97	1.01	1.03	1.04	1.06	1.07	
	0.30		0.82	0.88	0.92	0.94	0.98	1.00	1.02	1.04	1.06	
	0.20		0.79	0.85	0.89	0.92	0.96	0.98	1.00	1.03	1.04	
0.30	0.50	0.20	0.84	0.90	0.93	0.95	0.98	1.00	1.01	1.02	1.03	
	0.30		0.81	0.87	0.90	0.93	0.96	0.98	0.99	1.01	1.02	
	0.20		0.79	0.84	0.88	0.91	0.94	0.96	0.98	1.00	1.01	
0.00	0.00	0.00	0.77	0.82	0.86	0.88	0.91	0.93	0.94	0.96	0.96	
Rating:30W 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 = 0.75									
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	0.55	0.44	0.37	0.32	0.25	0.21	0.17	0.13	0.11	
	0.30		0.46	0.38	0.32	0.28	0.23	0.19	0.16	0.13	0.10	
	0.20		0.39	0.33	0.28	0.25	0.20	0.17	0.15	0.12	0.10	
0.50	0.50	0.20	0.52	0.41	0.34	0.29	0.23	0.23	0.16	0.12	0.10	
	0.30		0.44	0.36	0.30	0.26	0.21	0.17	0.15	0.12	0.10	
	0.20		0.38	0.32	0.27	0.24	0.19	0.16	0.14	0.11	0.09	
0.30	0.50	0.20	0.50	0.39	0.32	0.27	0.21	0.17	0.15	0.11	0.09	
	0.30		0.42	0.34	0.29	0.25	0.20	0.16	0.14	0.11	0.09	
	0.20		0.37	0.30	0.26	0.23	0.18	0.15	0.13	0.10	0.08	
0.00	0.00	0.00	0.23	0.18	0.15	0.12	0.09	0.07	0.06	0.05	0.04	
Rating:30W 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 = 0.75									
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	0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.21	
	0.30		0.09	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.13	0.14	0.15	0.16	0.18	0.18	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18	
0.30	0.50	0.20	0.12	0.14	0.15	0.16	0.17	0.18	0.18	0.19	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
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:30W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												