

Report No.:

Test Time: 15.10.2020 09:45

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FL 58/1200 65LED 0.3A 24W 4000K opal

Luminous Length (mm): 1200

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 221.3 V

Current: 0.105 A

Power: 22.51 W

Power Factor: 0.968

Photometric Results

CIE Class: Direct

Measurement Flux: 2697.7 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 2697.7 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 167.1, 163.6, 164.9, 164.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.1, 111.9, 113.2, 113.2

Luminaire Efficacy Rating (LER): 119.89

Central Intensity: 914.78 cd

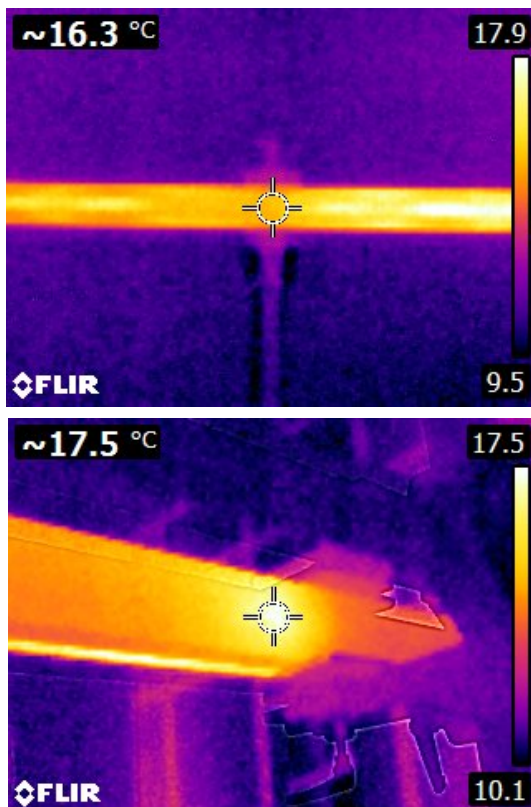
Max. Intensity: 917.3 cd

Pos of Max. Intensity: H135 V0

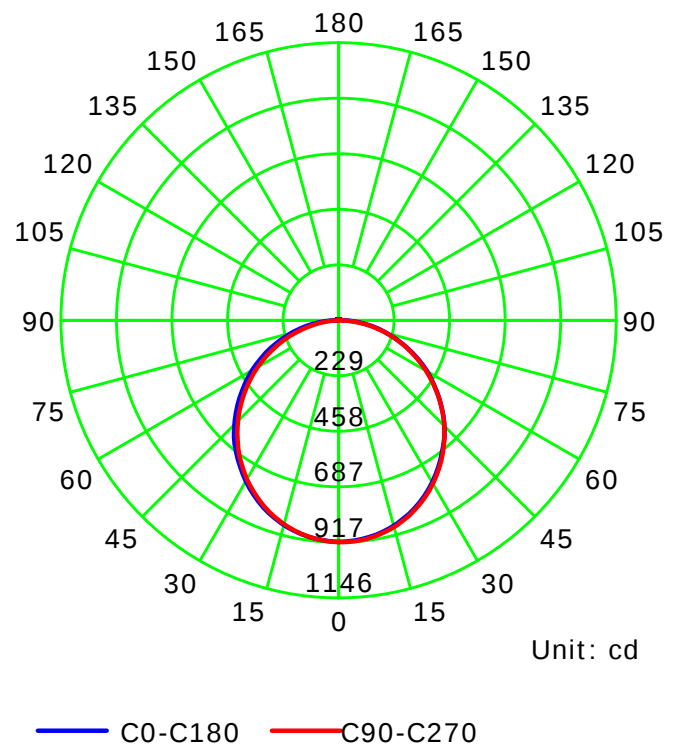
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.25

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

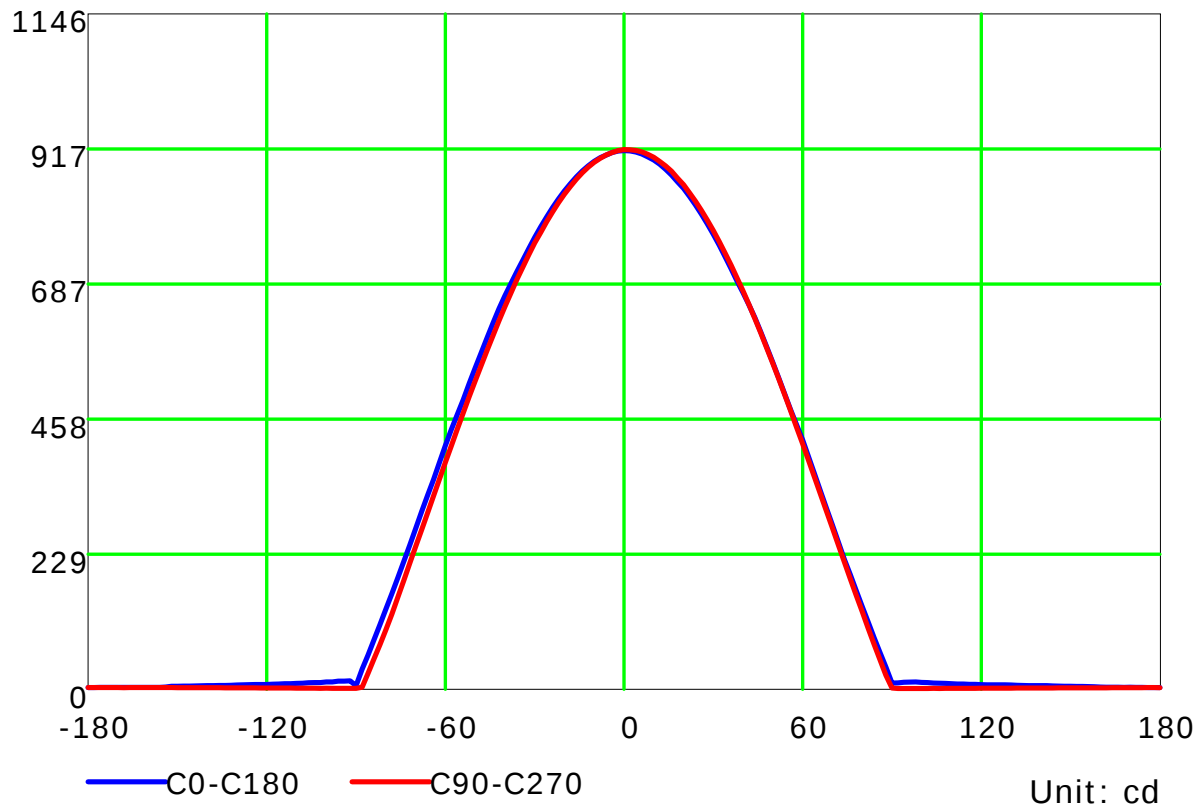
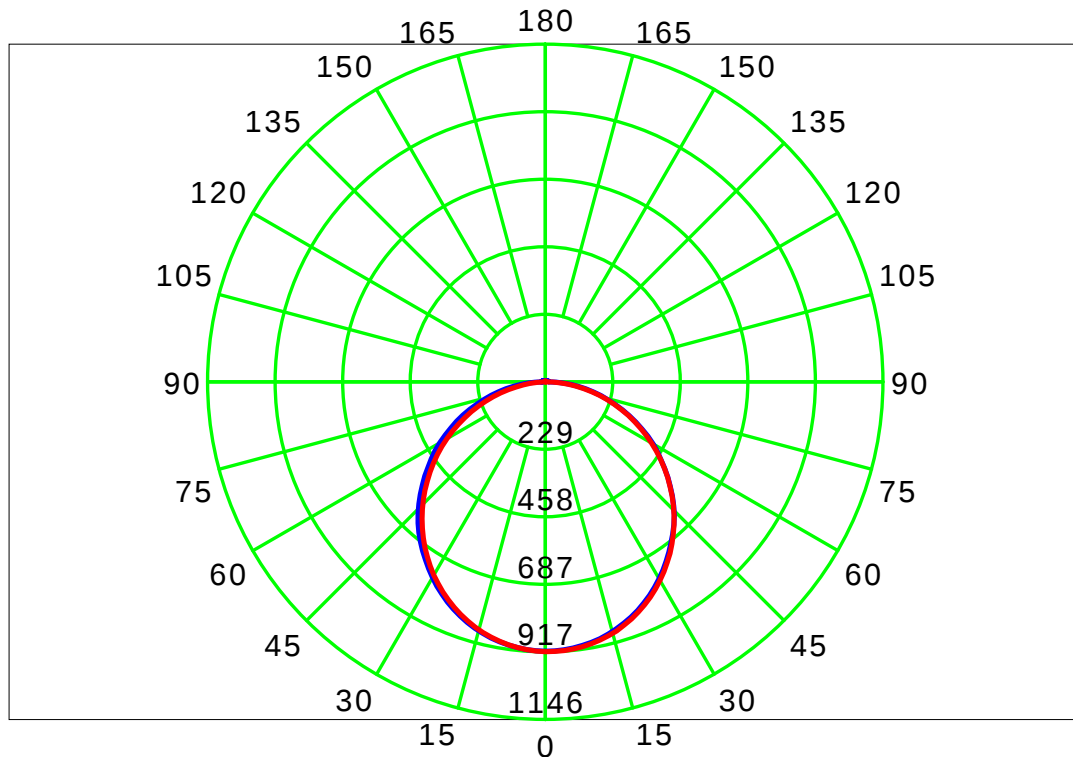
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

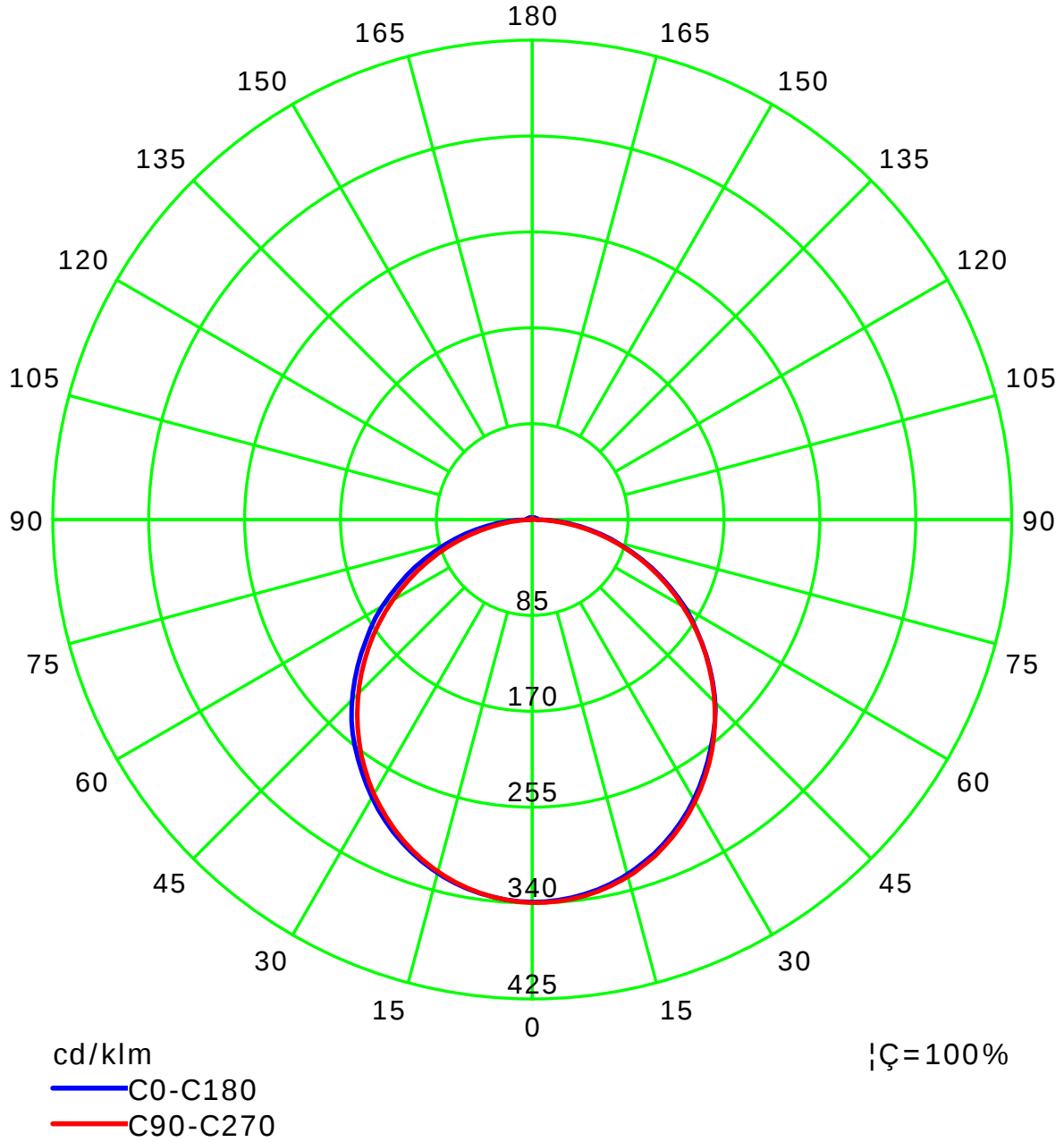
Luminous Intensity Distribution Curve



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Test Lab:
Test Type: TYPE C
Temperature:
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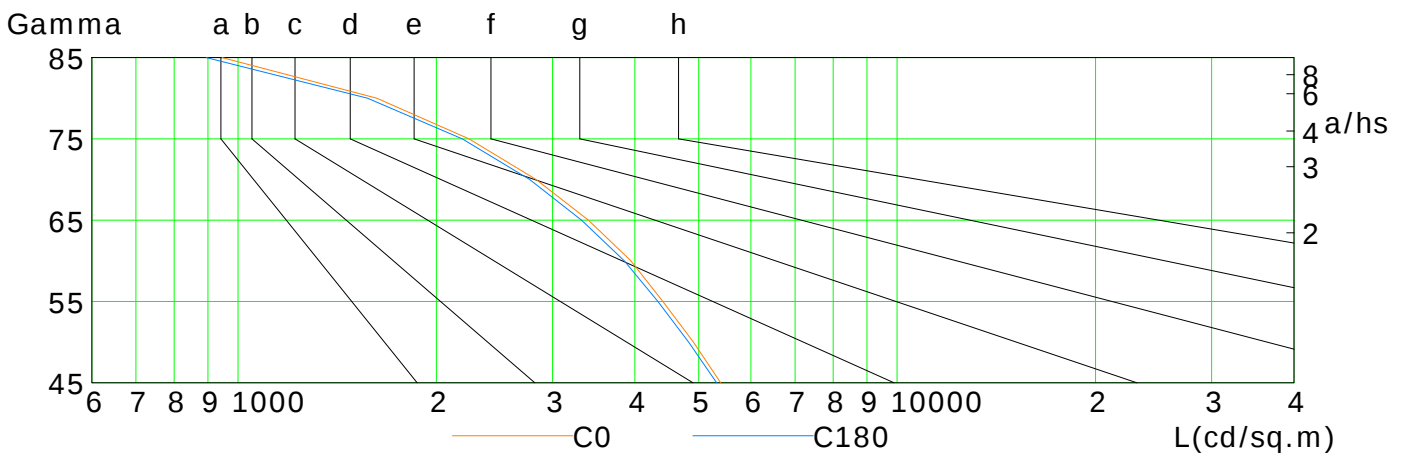
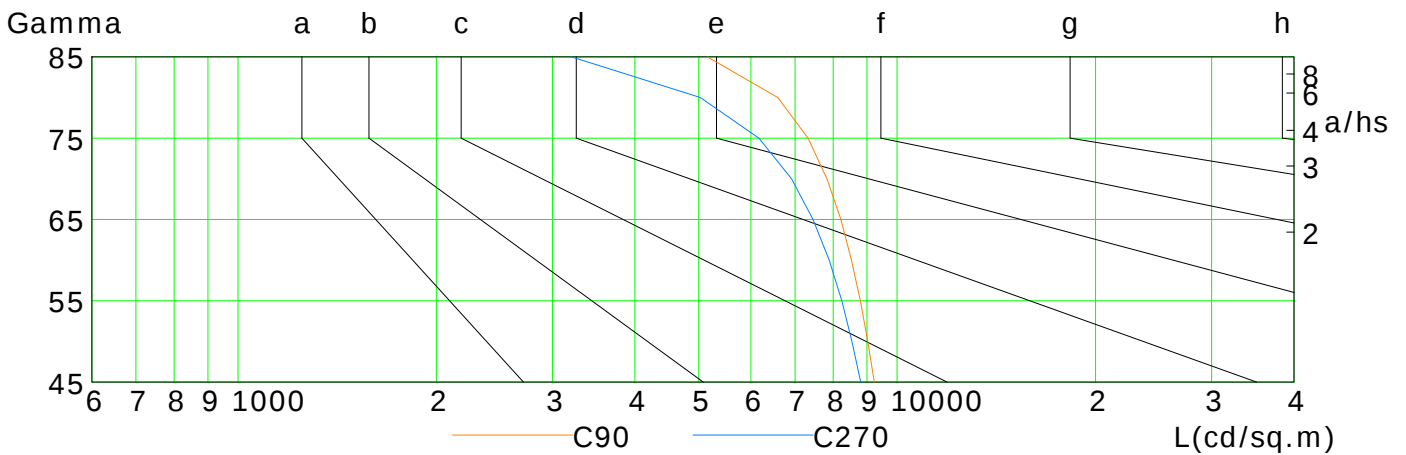
Luminous Intensity Distribution Curve(cd / klm)



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	5399	4909	4411	3944	3401	2832	2242	1624	945
C90	9232	9024	8796	8526	8215	7827	7326	6592	5152
C180	5322	4827	4335	3855	3320	2770	2189	1572	895
C270	8807	8540	8243	7885	7452	6917	6170	5028	3205

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

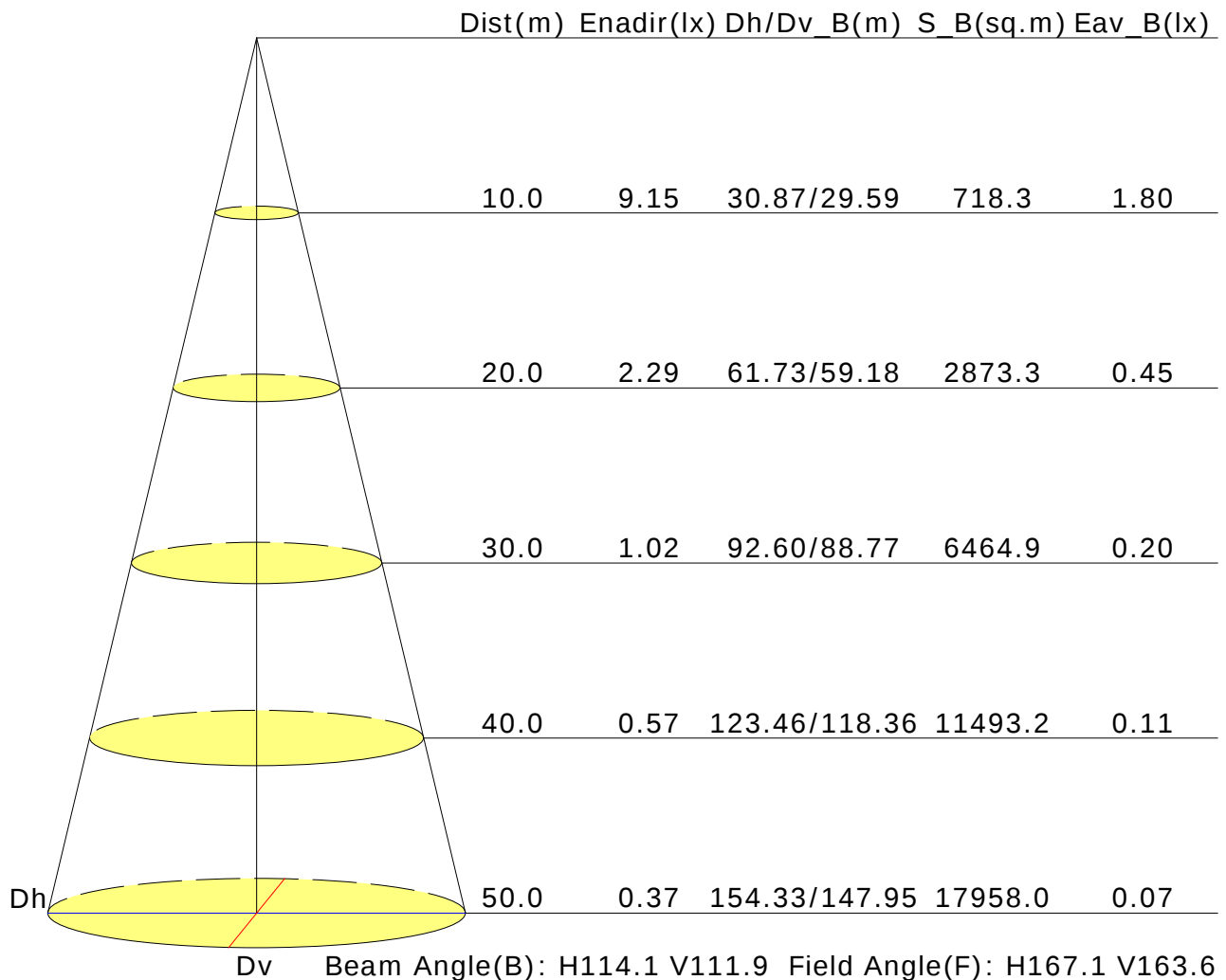
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

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	17.8	19.2	18.2	19.5	19.8	19.0	20.4	19.3	20.7	20.9
3H	19.1	20.4	19.4	20.7	21.0	20.6	21.9	20.9	22.2	22.5
4H	19.6	20.8	19.9	21.1	21.4	21.2	22.4	21.6	22.8	23.1
6H	19.9	21.0	20.3	21.3	21.7	21.7	22.8	22.1	23.2	23.5
8H	20.0	21.1	20.4	21.4	21.8	21.9	23.0	22.3	23.3	23.7
12H	20.0	21.1	20.4	21.4	21.8	22.0	23.0	22.4	23.4	23.7
X=4H Y=2H	18.5	19.7	18.9	20.0	20.3	19.4	20.6	19.8	20.9	21.3
3H	19.9	21.0	20.3	21.3	21.7	21.2	22.2	21.6	22.6	22.9
4H	20.5	21.4	20.9	21.8	22.2	21.9	22.8	22.3	23.2	23.6
6H	20.9	21.7	21.4	22.1	22.6	22.5	23.3	22.9	23.7	24.1
8H	21.0	21.8	21.5	22.2	22.7	22.7	23.4	23.1	23.9	24.3
12H	21.1	21.8	21.6	22.3	22.7	22.8	23.5	23.3	23.9	24.4
X=8H Y=4H	20.8	21.5	21.2	21.9	22.4	22.0	22.8	22.5	23.2	23.7
6H	21.3	21.9	21.8	22.4	22.9	22.7	23.3	23.2	23.8	24.3
8H	21.5	22.0	22.0	22.5	23.0	23.0	23.5	23.5	24.0	24.5
12H	21.6	22.1	22.1	22.6	23.1	23.2	23.6	23.7	24.1	24.6
X=12H Y=4H	20.8	21.5	21.3	21.9	22.4	22.0	22.7	22.5	23.2	23.6
6H	21.4	21.9	21.9	22.4	22.9	22.7	23.3	23.2	23.8	24.3
8H	21.6	22.0	22.1	22.5	23.1	23.0	23.5	23.5	24.0	24.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.1				
S=1.5H	+0.3/-0.6					+0.3/-0.4				
S=2.0H	+0.6/-1.1					+0.7/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 2698lm ($8\log(F/F_0) = 3.4$).

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Test Lab:

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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	0.55	0.66	0.73	0.78	0.86	0.91	0.95	0.99	1.02	
	0.30		0.47	0.58	0.65	0.71	0.79	0.85	0.89	0.95	0.99	
	0.20		0.42	0.52	0.59	0.65	0.74	0.80	0.85	0.91	0.95	
0.50	0.50	0.20	0.54	0.63	0.70	0.75	0.82	0.87	0.91	0.95	0.98	
	0.30		0.46	0.57	0.64	0.69	0.77	0.82	0.86	0.91	0.95	
	0.20		0.41	0.51	0.59	0.64	0.72	0.78	0.82	0.88	0.92	
0.30	0.50	0.20	0.52	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
	0.30		0.46	0.55	0.62	0.67	0.75	0.80	0.83	0.88	0.91	
	0.20		0.41	0.51	0.58	0.63	0.71	0.76	0.80	0.86	0.89	
0.00	0.00	0.00	0.38	0.48	0.55	0.60	0.67	0.72	0.76	0.81	0.84	
Rating:23W 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	1.01	0.84	0.72	0.63	0.50	0.42	0.36	0.28	0.23	
	0.30		0.85	0.72	0.63	0.56	0.46	0.39	0.33	0.26	0.22	
	0.20		0.73	0.63	0.56	0.50	0.42	0.36	0.31	0.25	0.21	
0.50	0.50	0.20	0.98	0.81	0.69	0.60	0.48	0.43	0.34	0.27	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.77	0.66	0.58	0.46	0.38	0.33	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.54	0.48	0.39	0.34	0.29	0.23	0.19	
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
Rating:23W 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	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.20	0.20	
	0.20		0.06	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	0.19	0.20	0.20	0.21	0.21	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		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.17	0.18	0.18	0.19	0.20	0.20	0.20	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		0.06	0.07	0.09	0.10	0.12	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:23W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												