

Report No.:

Test Time: 29.01.2020 22:54

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FP 150 80W 5000K 90x90gr. NN

Number of Lamps: 1

Luminous Width (mm): 153

Voltage: 221.0 V

Power: 80.14 W

Luminous Length (mm): 404

Luminous Height (mm): 80

Current: 0.365 A

Power Factor: 0.993

Photometric Results

CIE Class: Direct

Measurement Flux: 11166.5 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.2, 111.1, 120.5, 120.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 81.4, 81.3, 89.6, 89.6

Luminaire Efficacy Rating (LER): 139.39

Max. Intensity: 6889.8 cd

S/MH(C0/C180): 1.48

Total Rated Lamp Lumens: 11166.5 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 4516.7 cd

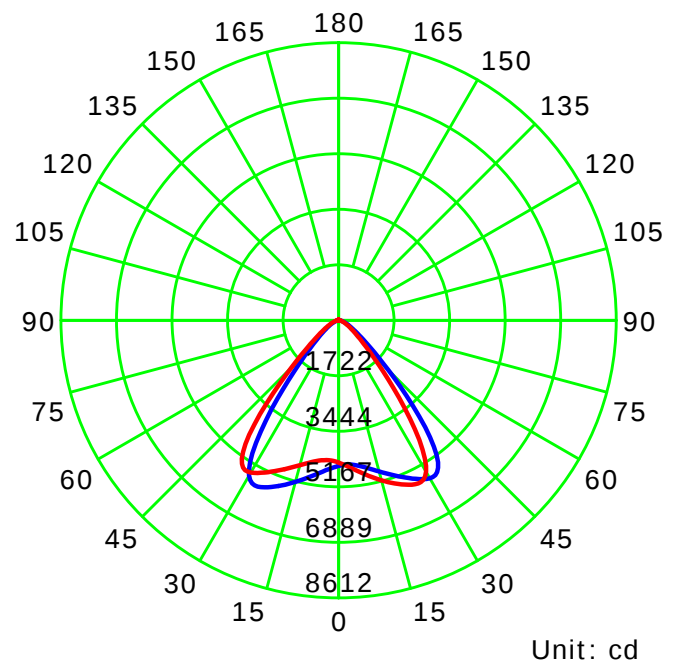
Pos of Max. Intensity: H135 V31

S/MH(C90/C270): 1.48

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 (°):0.0-180.0:1.0

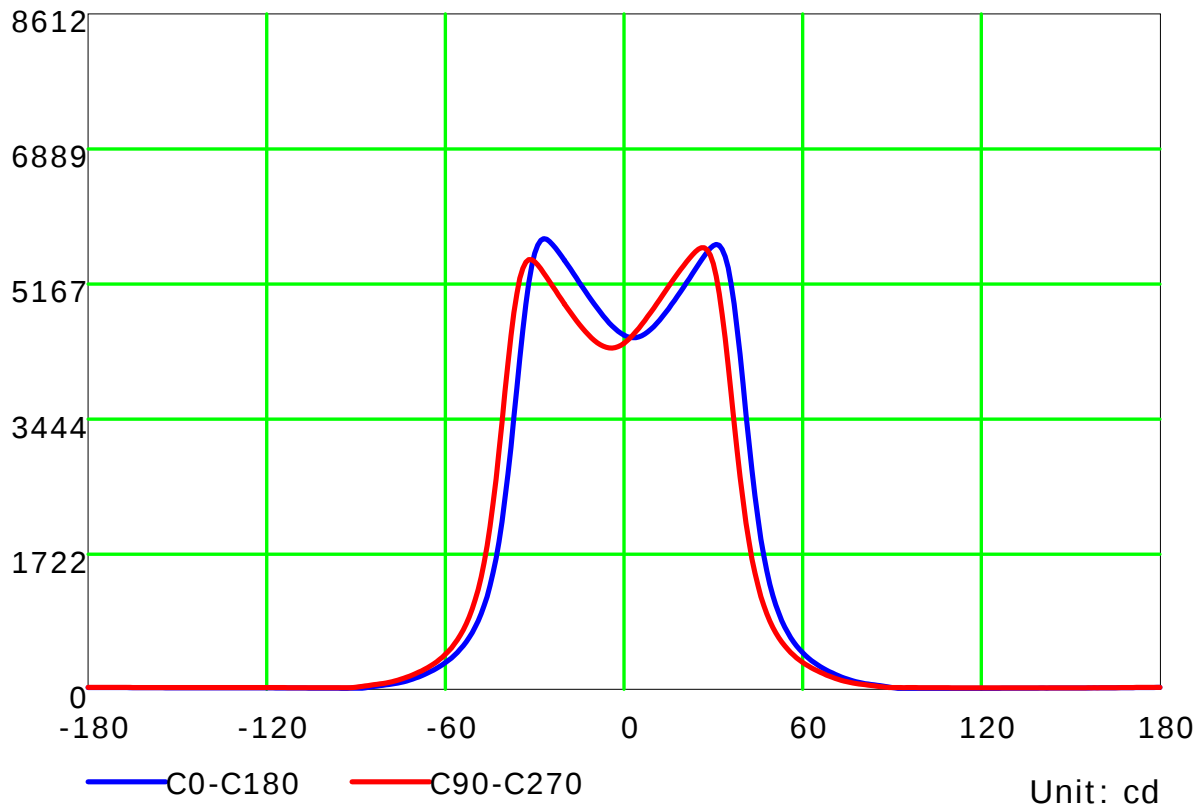
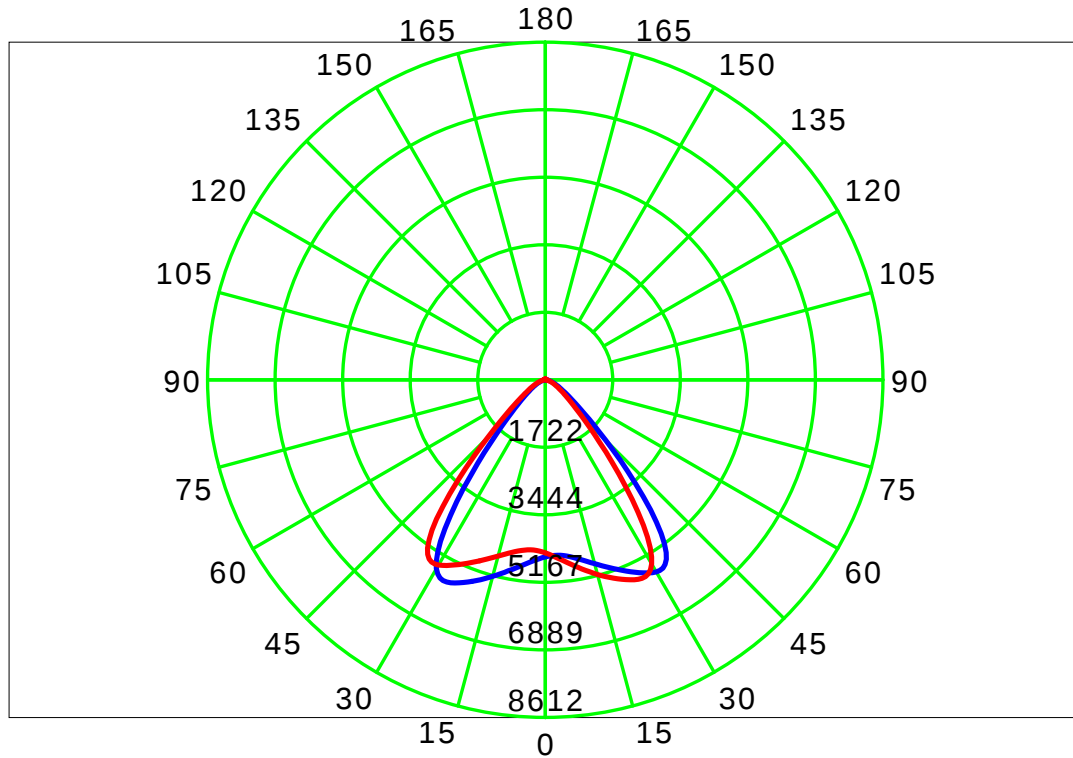
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

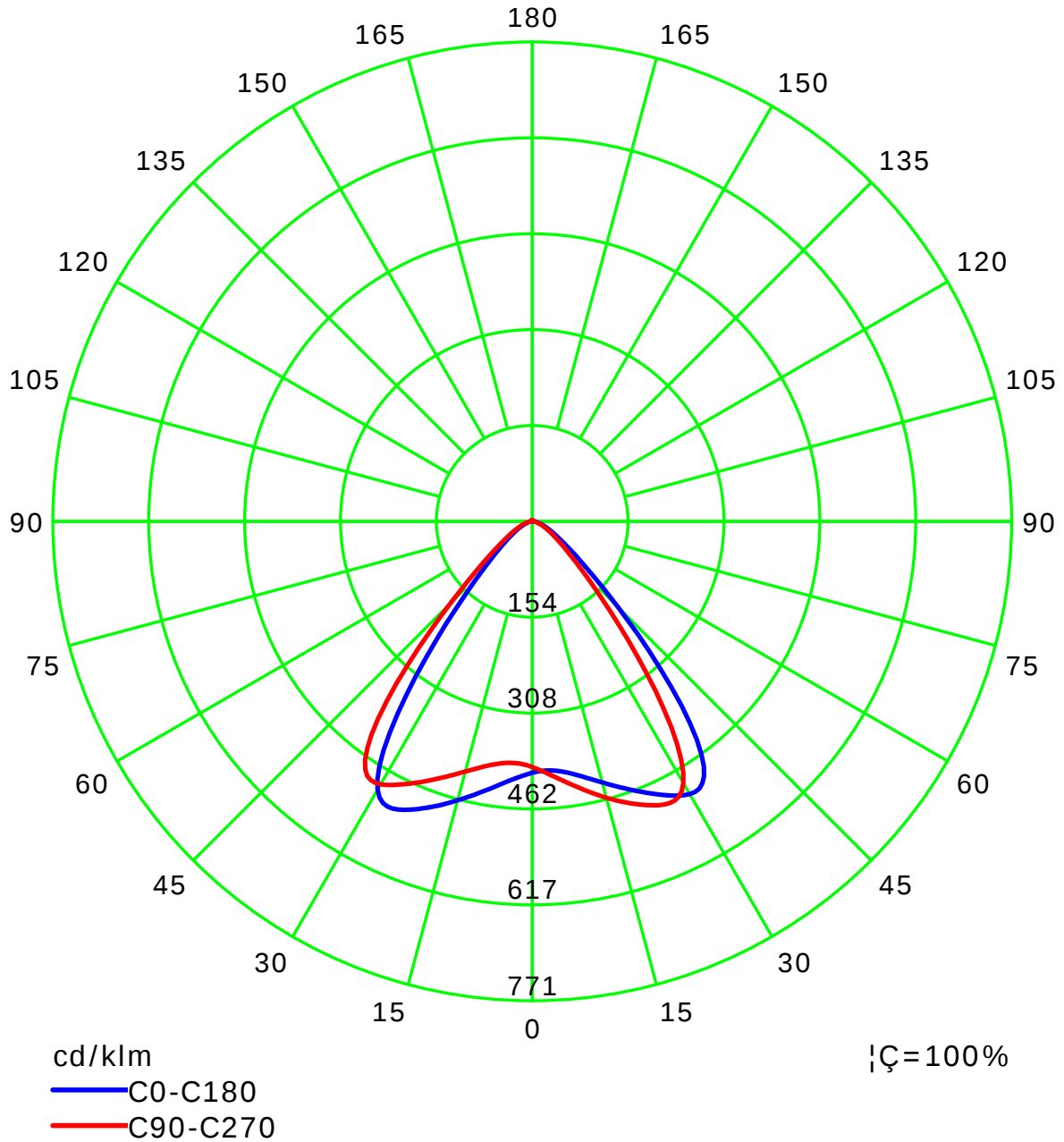
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
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Operator:

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Test Device: LSG-1800B
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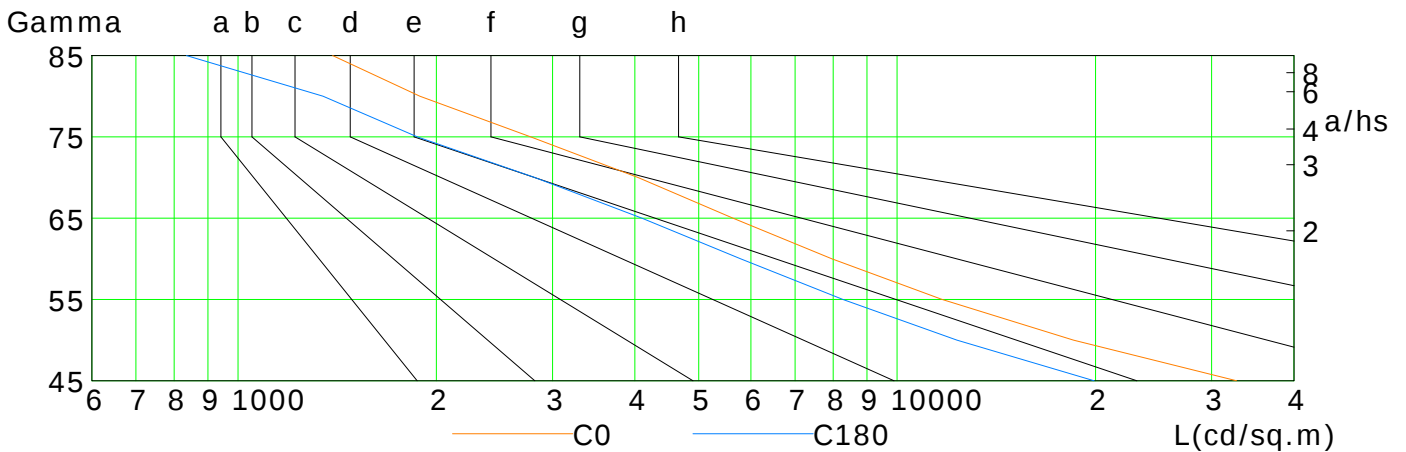
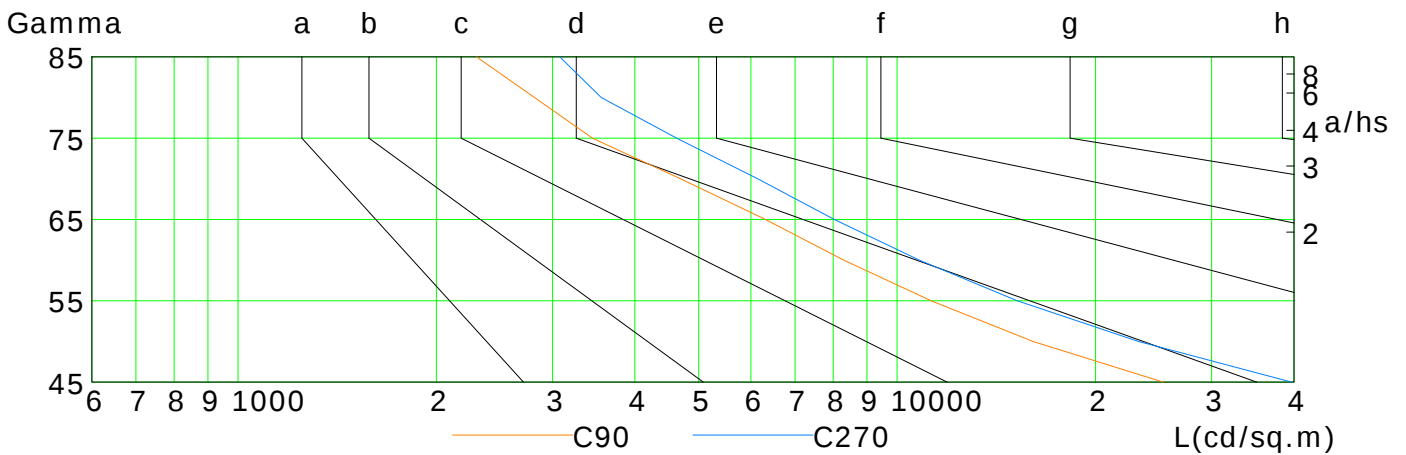
Luminous Intensity Distribution Curve(cd / klm)



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	32725	18518	11704	7962	5636	4045	2780	1888	1392
C90	25321	16071	11262	8298	6314	4694	3448	2817	2300
C180	19895	12323	8276	5791	4100	2820	1871	1346	835
C270	39651	23236	15212	10806	8030	6145	4628	3557	3077

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

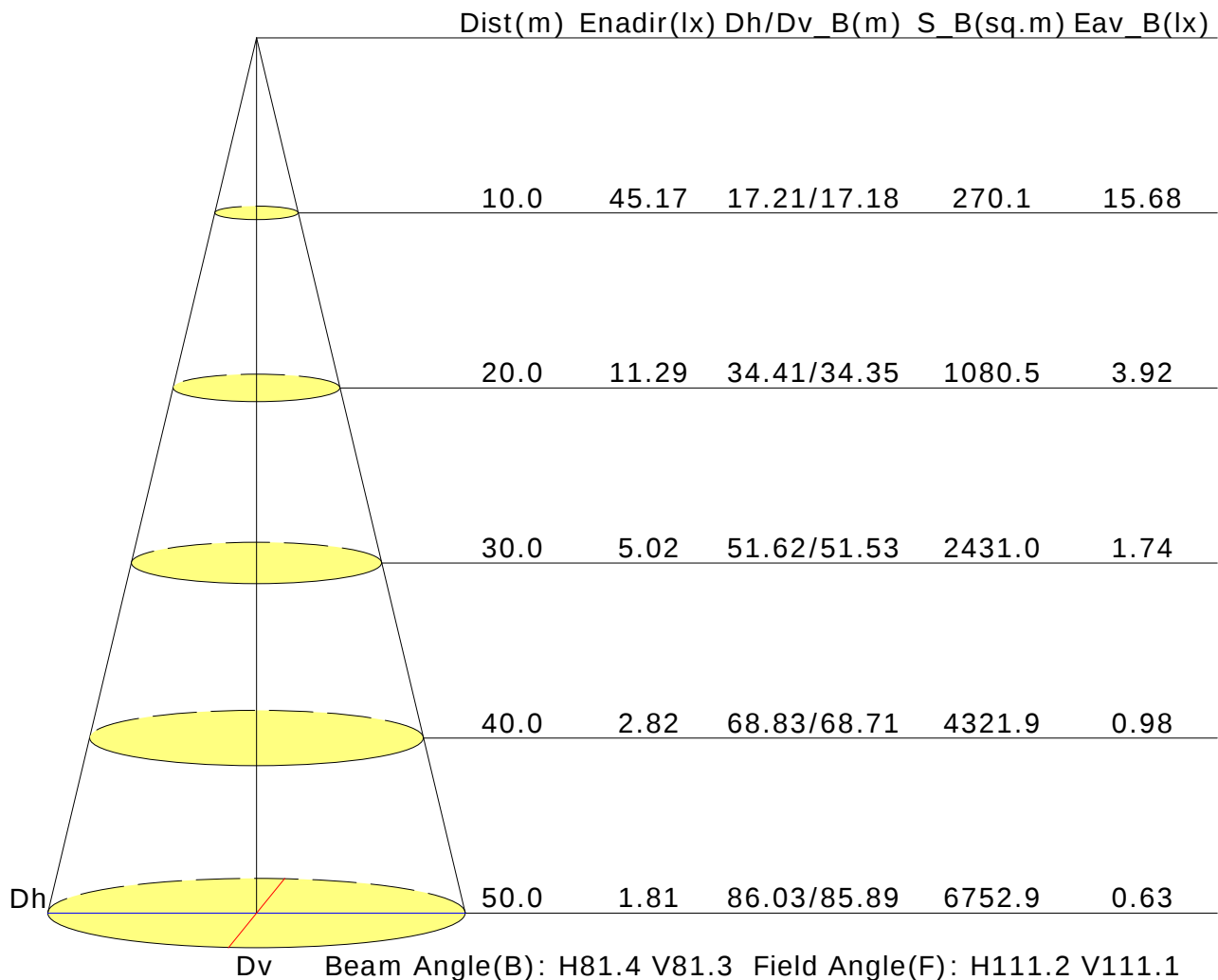
Test Device: LSG-1800B

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	22.9	24.1	23.2	24.3	24.6	22.7	23.8	23.0	24.1	24.3
3H	22.9	23.9	23.3	24.2	24.5	22.7	23.7	23.0	24.0	24.3
4H	22.9	23.8	23.2	24.1	24.4	22.7	23.6	23.0	23.9	24.2
6H	22.8	23.7	23.2	24.0	24.4	22.6	23.5	23.0	23.8	24.2
8H	22.8	23.6	23.2	24.0	24.3	22.6	23.5	23.0	23.8	24.1
12H	22.8	23.6	23.2	23.9	24.3	22.6	23.4	23.0	23.7	24.1
X=4H Y=2H	22.9	23.9	23.3	24.2	24.5	22.7	23.6	23.0	23.9	24.2
3H	23.0	23.8	23.4	24.1	24.5	22.8	23.6	23.2	23.9	24.3
4H	23.0	23.7	23.4	24.0	24.4	22.8	23.5	23.2	23.9	24.2
6H	22.9	23.6	23.4	24.0	24.4	22.8	23.4	23.2	23.8	24.2
8H	22.9	23.5	23.4	23.9	24.3	22.8	23.3	23.2	23.7	24.2
12H	22.9	23.4	23.4	23.8	24.3	22.8	23.3	23.2	23.7	24.2
X=8H Y=4H	22.9	23.5	23.4	23.9	24.3	22.7	23.3	23.2	23.7	24.2
6H	22.9	23.4	23.4	23.8	24.3	22.8	23.2	23.2	23.7	24.1
8H	22.9	23.3	23.4	23.8	24.3	22.8	23.2	23.3	23.6	24.1
12H	22.9	23.2	23.4	23.7	24.3	22.8	23.1	23.3	23.6	24.1
X=12H Y=4H	22.9	23.4	23.4	23.8	24.3	22.7	23.2	23.2	23.6	24.1
6H	22.9	23.3	23.4	23.8	24.3	22.7	23.1	23.2	23.6	24.1
8H	22.9	23.2	23.4	23.7	24.3	22.8	23.1	23.3	23.6	24.1
Variations with the observer position at spacings:										
S=1.0H	+2.7/-3.9					+2.3/-3.4				
S=1.5H	+3.5/-5.4					+3.1/-5.2				
S=2.0H	+5.4/-6.4					+4.8/-6.5				

Calculate in accordance with CIE Pub.117. The table is revised with 11166lm ($8\log(F/F_0) = 8.4$).

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Test Lab:

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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	0.73	0.82	0.87	0.92	0.97	1.00	1.03	1.06	1.08	
	0.30		0.67	0.76	0.82	0.87	0.93	0.97	0.99	1.03	1.05	
	0.20		0.62	0.72	0.78	0.83	0.89	0.93	0.96	1.00	1.03	
0.50	0.50	0.20	0.71	0.80	0.85	0.89	0.94	0.97	0.99	1.02	1.03	
	0.30		0.66	0.75	0.81	0.85	0.90	0.94	0.96	0.99	1.01	
	0.20		0.62	0.71	0.77	0.81	0.87	0.91	0.94	0.98	1.00	
0.30	0.50	0.20	0.70	0.78	0.83	0.86	0.91	0.94	0.96	0.98	1.00	
	0.30		0.65	0.74	0.79	0.83	0.88	0.91	0.93	0.96	0.98	
	0.20		0.62	0.70	0.76	0.80	0.85	0.89	0.91	0.95	0.97	
0.00	0.00	0.00	0.60	0.68	0.73	0.77	0.82	0.85	0.87	0.90	0.92	
Rating:80W 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	0.75	0.60	0.50	0.43	0.34	0.28	0.24	0.18	0.15	
	0.30		0.63	0.51	0.43	0.38	0.30	0.25	0.22	0.17	0.14	
	0.20		0.54	0.45	0.39	0.34	0.28	0.23	0.20	0.16	0.13	
0.50	0.50	0.20	0.72	0.57	0.47	0.40	0.32	0.30	0.22	0.17	0.14	
	0.30		0.61	0.49	0.42	0.36	0.29	0.24	0.20	0.16	0.13	
	0.20		0.53	0.44	0.37	0.33	0.27	0.22	0.19	0.15	0.13	
0.30	0.50	0.20	0.69	0.54	0.45	0.38	0.30	0.24	0.20	0.16	0.13	
	0.30		0.59	0.48	0.40	0.35	0.27	0.23	0.19	0.15	0.12	
	0.20		0.52	0.42	0.36	0.32	0.25	0.21	0.18	0.14	0.12	
0.00	0.00	0.00	0.39	0.31	0.26	0.22	0.17	0.14	0.12	0.09	0.07	
Rating:80W 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	0.15	0.17	0.18	0.18	0.20	0.20	0.21	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.20	0.20	
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18	
0.30	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	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:80W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												