

Report No.: 1

Test Time: 25.03.2020 22:21

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 105LED 46W 3000K 20-90 gr

Luminous Length (mm): 1500

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 229.0 V

Current: 0.202 A

Power: 45.30 W

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Measurement Flux: 6063 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 6063.0 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 152.3, 141.6, 137.2, 138.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 79.7, 46.0, 59.1, 60.4

Luminaire Efficacy Rating (LER): 133.89

Central Intensity: 2169.76 cd

Max. Intensity: 3901.95 cd

Pos of Max. Intensity: H270 V24

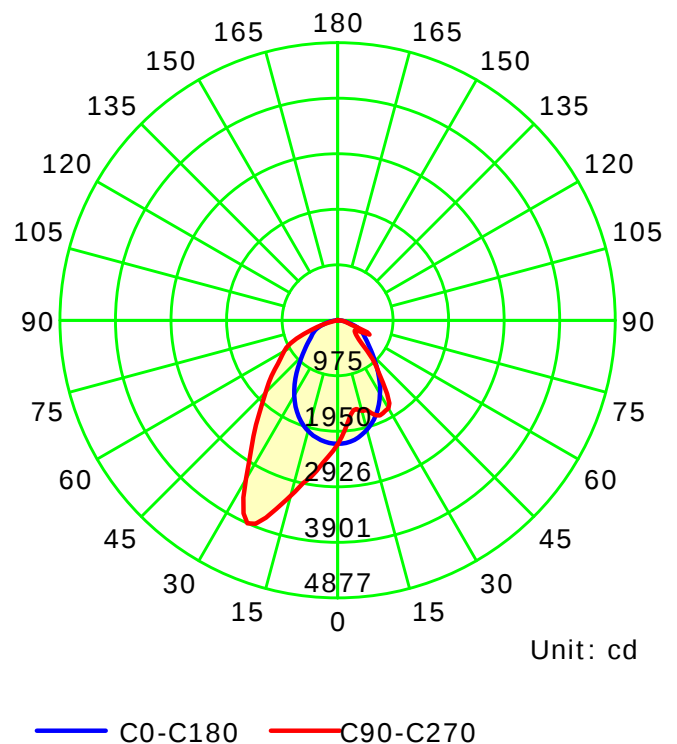
S/MH(C0/C180): 1.07

S/MH(C90/C270): 1.42

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

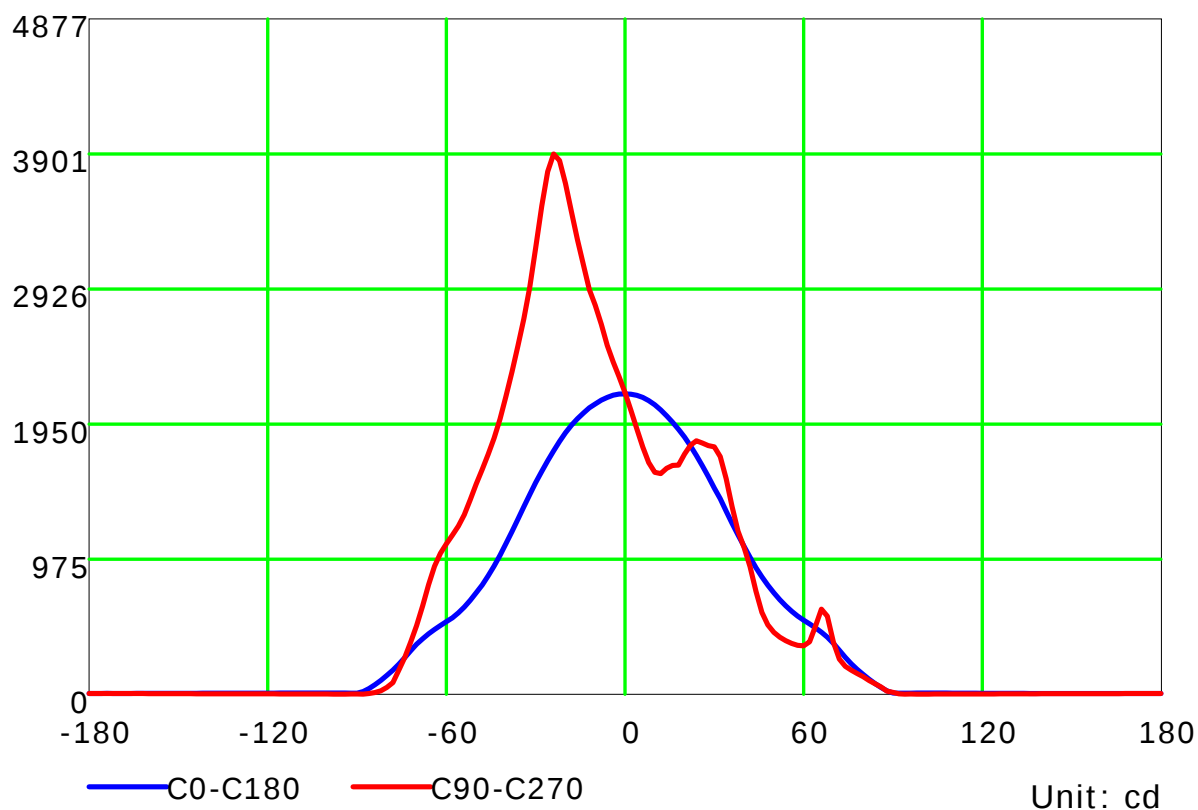
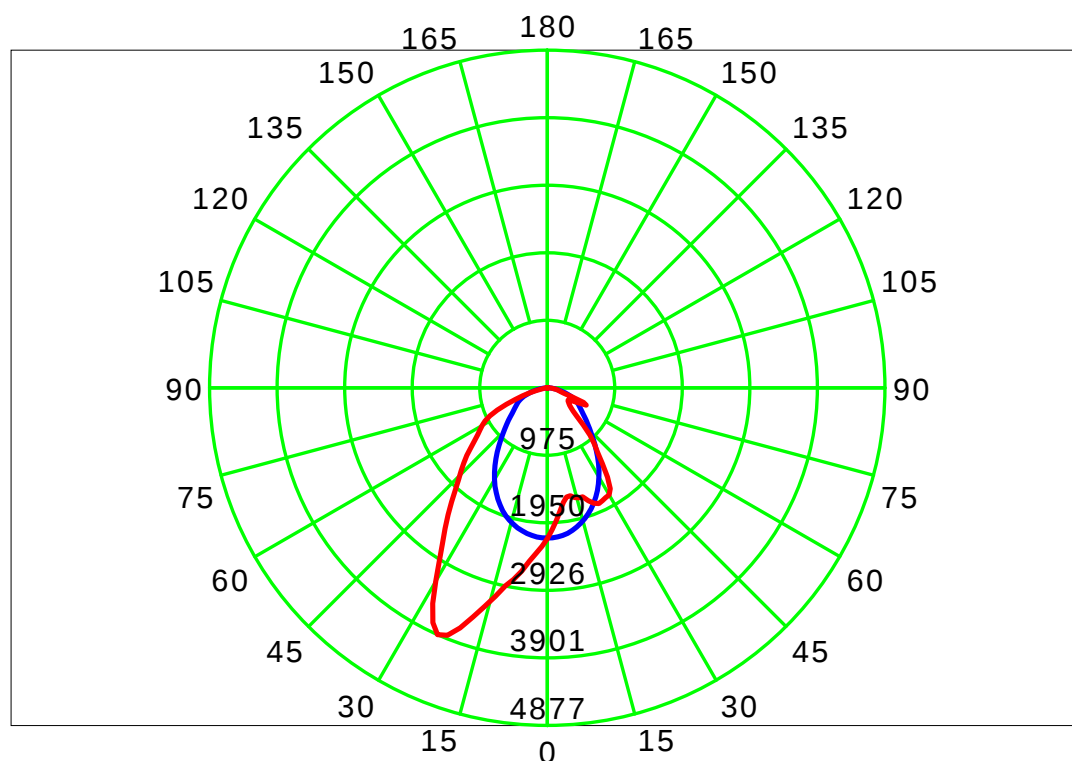
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

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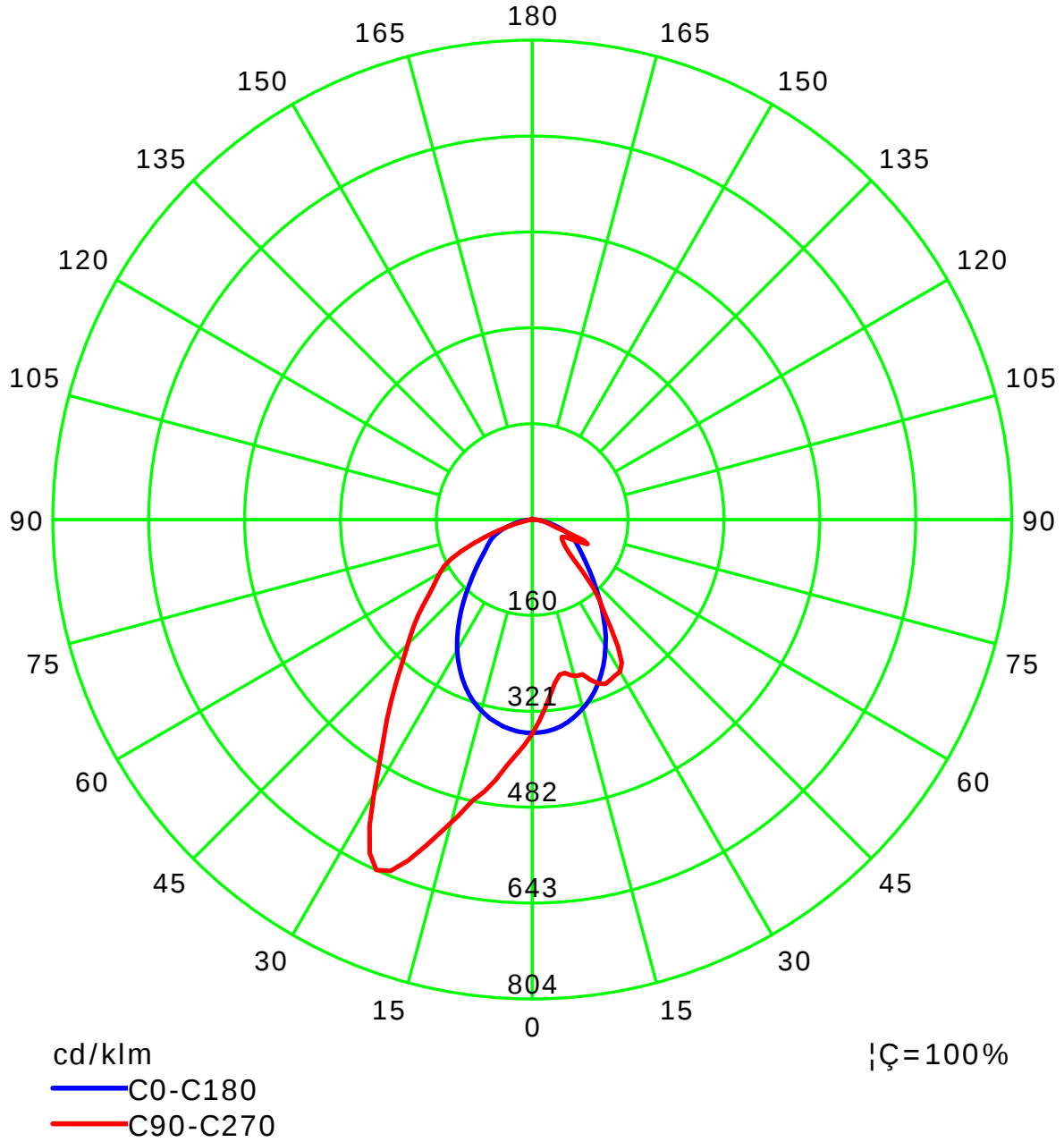
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

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Test Device: LSG-1800B

Distance: 12.677 m

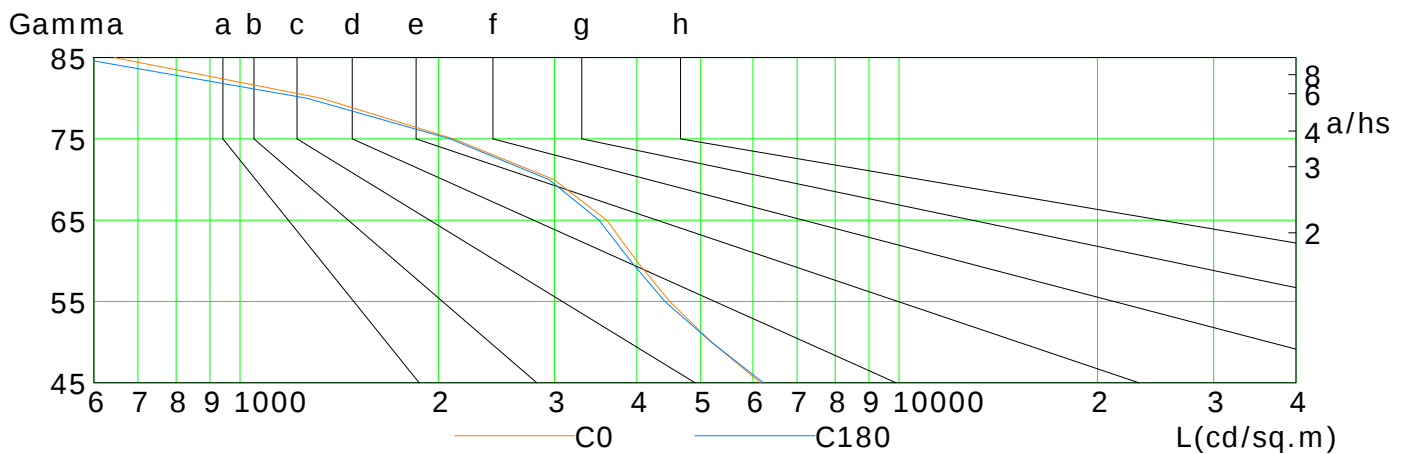
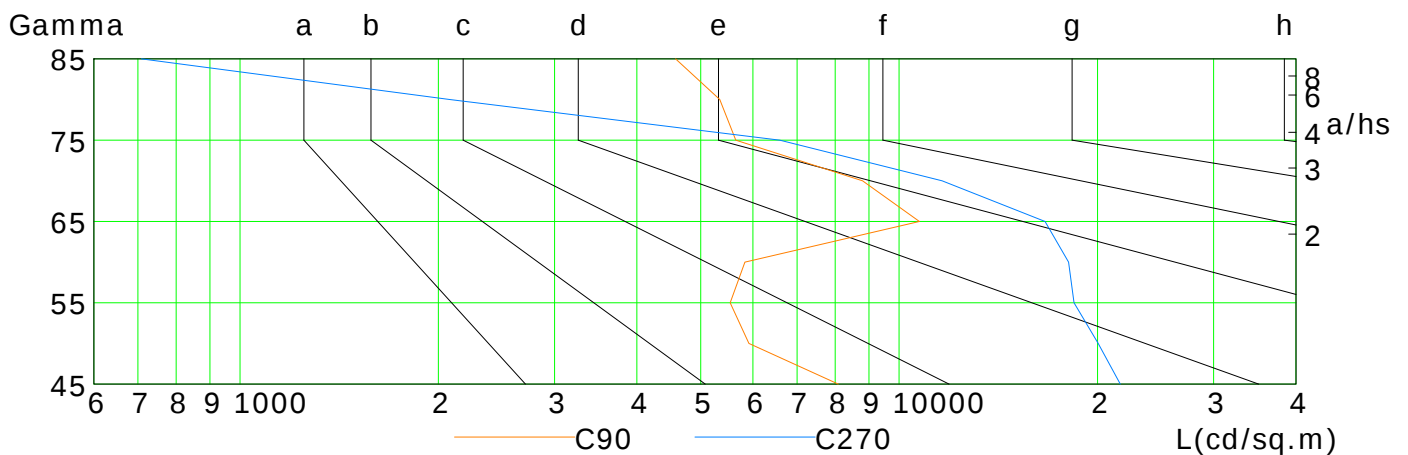
Humidity:

Inspector:

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	6159	5193	4487	3995	3600	2992	2109	1328	644
C90	8082	5916	5542	5833	10731	8802	5653	5343	4580
C180	6222	5192	4412	3911	3506	2941	2083	1262	563
C270	21658	20042	18420	18071	16645	11622	6590	2081	709

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

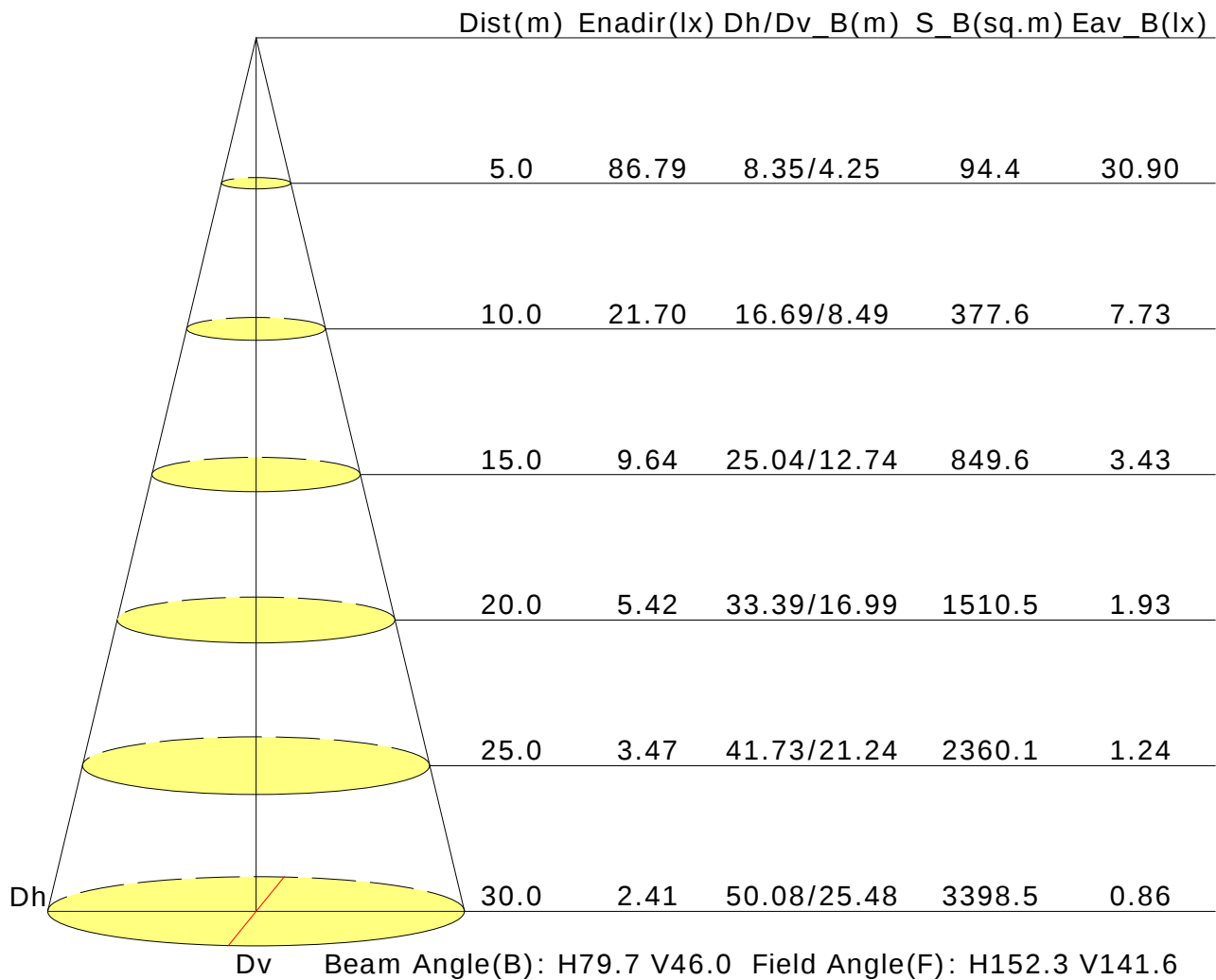
Test Device: LSG-1800B

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	19.4	20.7	19.7	20.9	21.2	20.9	22.2	21.2	22.4	22.7
3H	20.0	21.2	20.4	21.5	21.8	22.2	23.4	22.6	23.7	24.0
4H	20.2	21.3	20.6	21.6	21.9	22.4	23.5	22.8	23.8	24.1
6H	20.3	21.3	20.7	21.6	22.0	22.5	23.5	22.9	23.8	24.2
8H	20.3	21.3	20.7	21.6	22.0	22.5	23.5	22.9	23.8	24.1
12H	20.3	21.2	20.7	21.6	21.9	22.5	23.4	22.9	23.8	24.1
X=4H Y=2H	19.9	21.0	20.3	21.3	21.6	21.1	22.3	21.5	22.6	22.9
3H	20.7	21.7	21.1	22.0	22.4	22.6	23.6	23.0	23.9	24.3
4H	21.0	21.9	21.4	22.2	22.6	22.9	23.8	23.3	24.1	24.5
6H	21.2	21.9	21.6	22.3	22.8	23.0	23.8	23.4	24.1	24.6
8H	21.2	21.9	21.7	22.3	22.8	23.0	23.7	23.5	24.1	24.6
12H	21.2	21.8	21.7	22.3	22.7	23.0	23.6	23.5	24.1	24.5
X=8H Y=4H	21.2	21.9	21.7	22.3	22.8	23.0	23.7	23.4	24.1	24.5
6H	21.5	22.0	22.0	22.5	23.0	23.1	23.7	23.6	24.1	24.6
8H	21.6	22.0	22.0	22.5	23.0	23.1	23.6	23.6	24.1	24.6
12H	21.6	22.0	22.1	22.5	23.0	23.2	23.6	23.7	24.1	24.6
X=12H Y=4H	21.2	21.8	21.7	22.3	22.7	23.0	23.6	23.4	24.0	24.5
6H	21.5	22.0	22.0	22.4	22.9	23.1	23.6	23.6	24.0	24.5
8H	21.6	22.0	22.1	22.5	23.0	23.1	23.6	23.6	24.0	24.6
Variations with the observer position at spacings:										
S=1.0H	+0.6/-0.7					+0.4/-0.5				
S=1.5H	+1.0/-1.4					+1.0/-1.3				
S=2.0H	+1.3/-1.7					+1.3/-1.8				

Calculate in accordance with CIE Pub.117. The table is revised with 6063lm ($8\log(F/F_0) = 6.3$).

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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	0.71	0.78	0.83	0.90	0.95	0.98	1.02	1.05	
	0.30		0.54	0.64	0.72	0.77	0.85	0.90	0.94	0.98	1.02	
	0.20		0.49	0.59	0.66	0.72	0.80	0.86	0.90	0.95	0.99	
0.50	0.50	0.20	0.60	0.69	0.76	0.81	0.87	0.91	0.94	0.98	1.01	
	0.30		0.53	0.63	0.70	0.75	0.82	0.87	0.91	0.95	0.98	
	0.20		0.48	0.58	0.66	0.71	0.78	0.84	0.87	0.92	0.96	
0.30	0.50	0.20	0.58	0.68	0.74	0.78	0.84	0.88	0.91	0.94	0.97	
	0.30		0.53	0.62	0.69	0.74	0.80	0.85	0.88	0.92	0.95	
	0.20		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93	
0.00	0.00	0.00	0.46	0.55	0.62	0.67	0.73	0.78	0.81	0.85	0.88	
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	0.92	0.75	0.64	0.55	0.44	0.36	0.31	0.24	0.19	
	0.30		0.77	0.65	0.56	0.49	0.40	0.33	0.29	0.22	0.18	
	0.20		0.66	0.56	0.49	0.44	0.36	0.31	0.27	0.21	0.18	
0.50	0.50	0.20	0.89	0.72	0.61	0.53	0.42	0.38	0.29	0.22	0.18	
	0.30		0.75	0.63	0.54	0.47	0.38	0.32	0.27	0.21	0.18	
	0.20		0.65	0.55	0.48	0.43	0.35	0.30	0.26	0.20	0.17	
0.30	0.50	0.20	0.86	0.69	0.58	0.50	0.40	0.33	0.28	0.21	0.17	
	0.30		0.74	0.61	0.52	0.46	0.37	0.31	0.26	0.20	0.17	
	0.20		0.64	0.54	0.47	0.42	0.34	0.29	0.25	0.19	0.16	
0.00	0.00	0.00	0.54	0.44	0.38	0.33	0.26	0.22	0.19	0.14	0.12	
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	0.12	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	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.19	0.20	0.20	
	0.30		0.10	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:45W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												