

Report No.:

Test Time: 26.03.2020 00:24

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 105LED 46W 4000K 96x55 gr

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 228.8 V

Current: 0.203 A

Power: 45.28 W

Power Factor: 0.974

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 6261.4 lm

Measurement Flux: 6261.4 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 133.8, 112.9, 112.6, 113.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 94.3, 53.2, 61.7, 62.5

Luminaire Efficacy Rating (LER): 138.33

Central Intensity: 4428.17 cd

Max. Intensity: 4433.28 cd

Pos of Max. Intensity: H225 V2

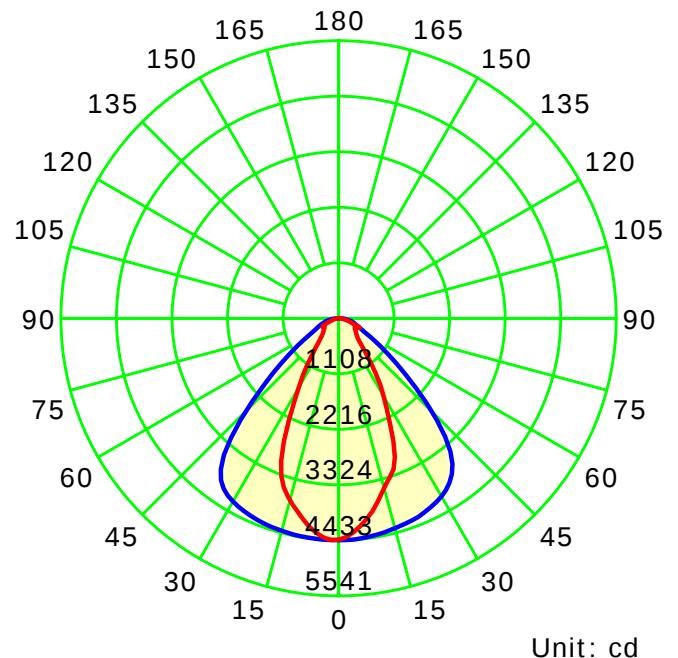
S/MH(C0/C180): 1.39

S/MH(C90/C270): 0.85

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

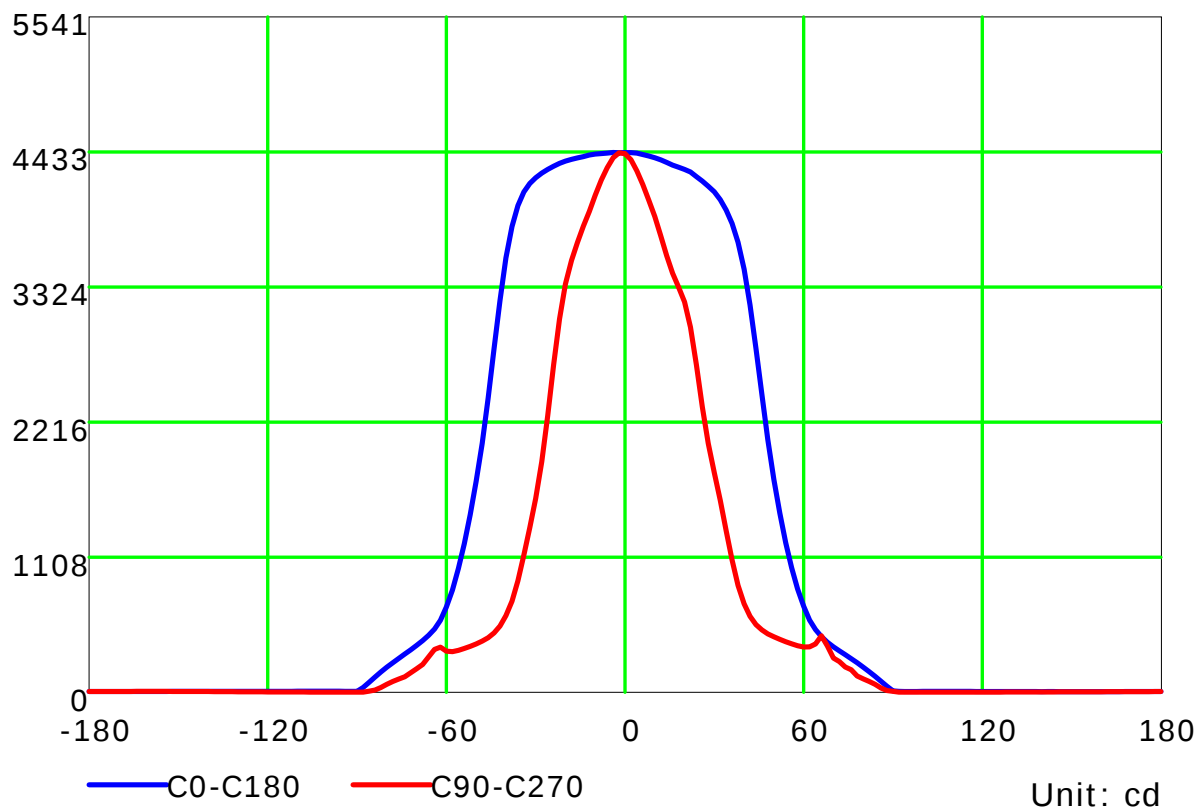
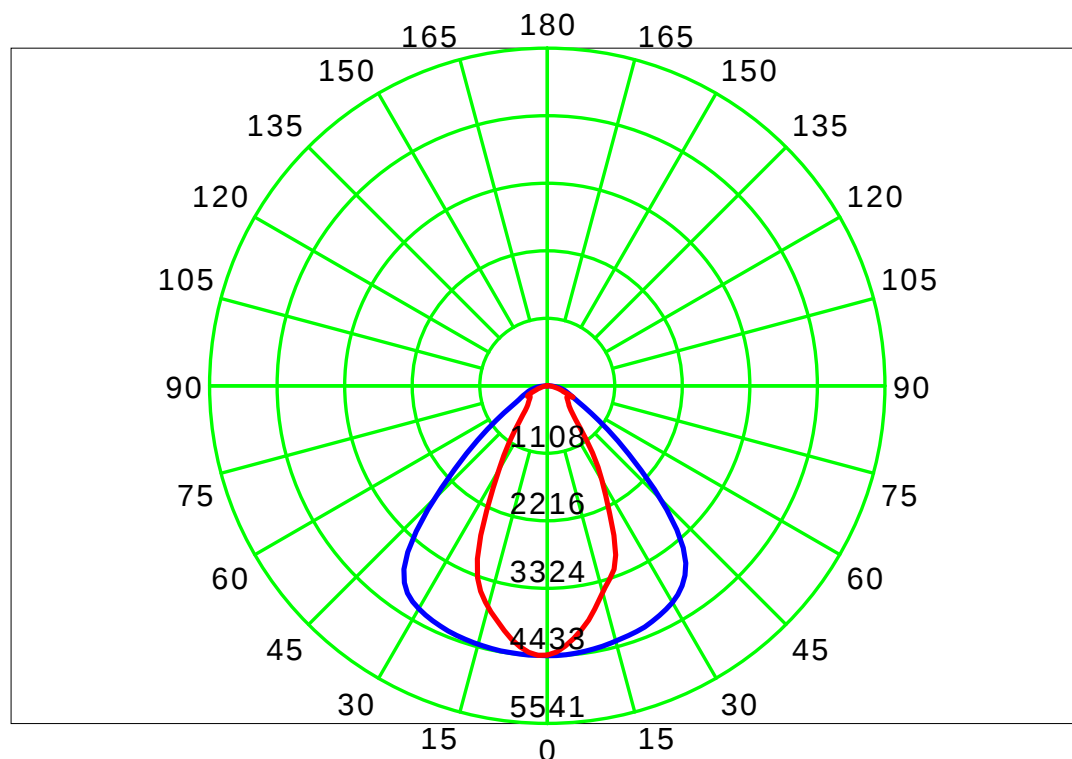
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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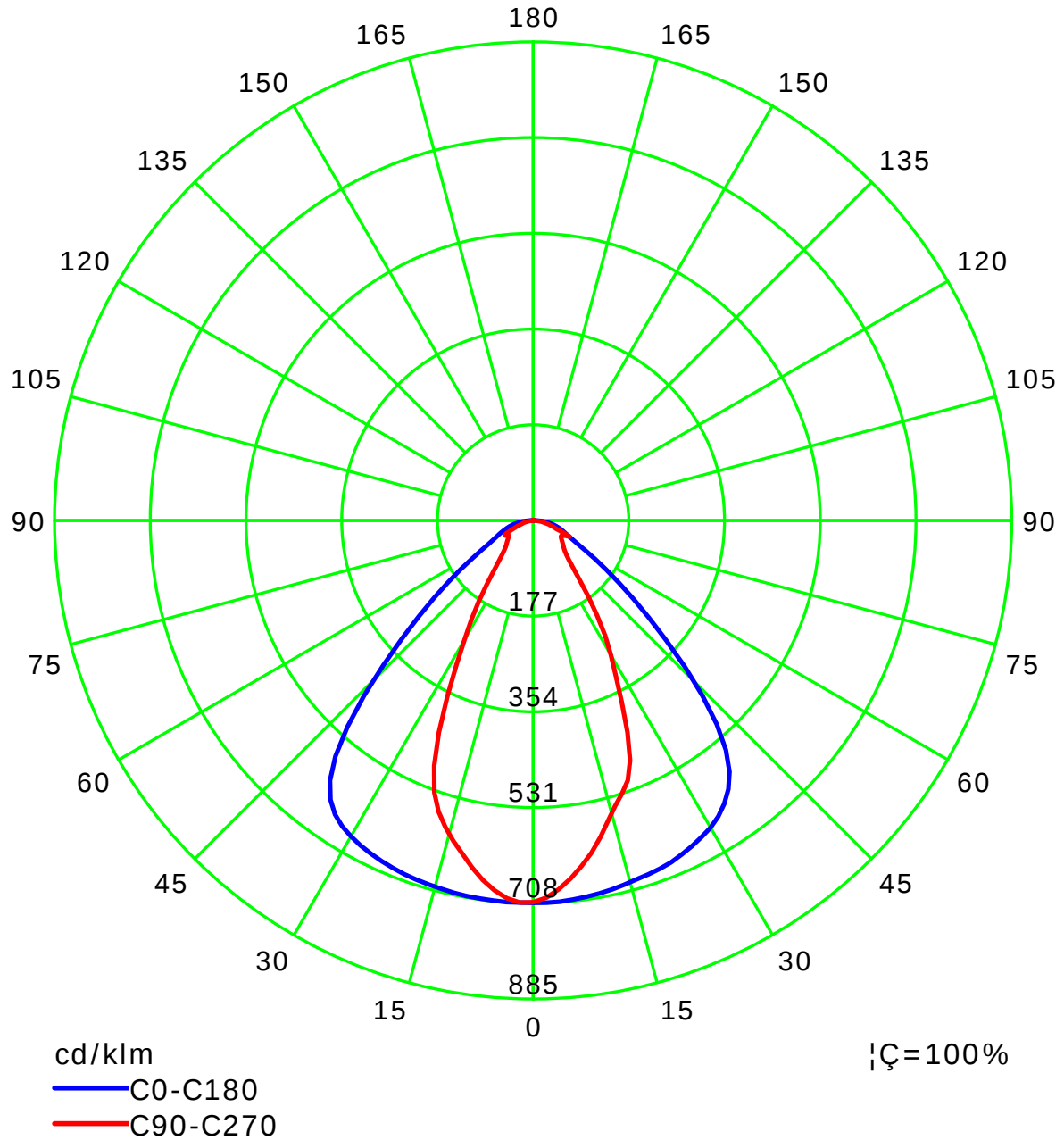
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

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Test Device: LSG-1800B

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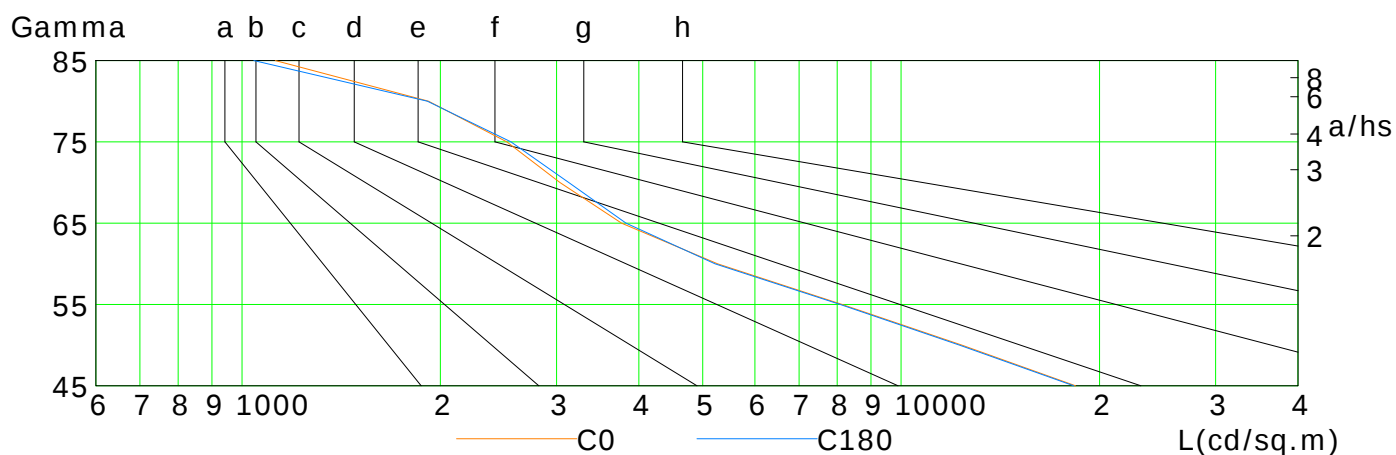
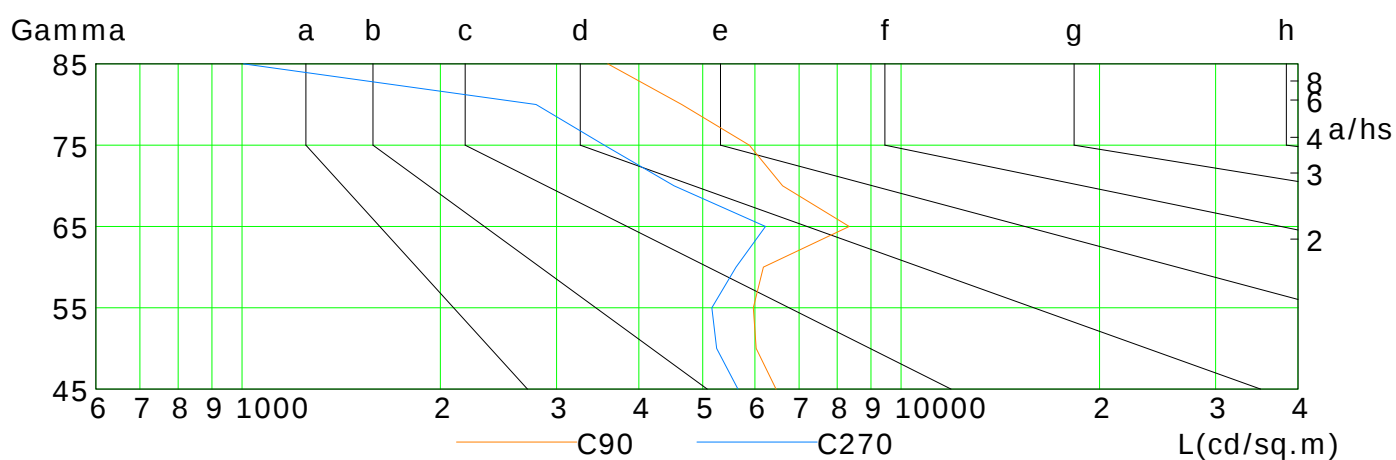
Humidity:

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	18396	12362	8136	5266	3766	3037	2522	1918	1124
C90	6458	6026	5966	6179	8339	6610	5883	4646	3589
C180	18279	12260	8083	5220	3825	3130	2558	1910	1042
C270	5654	5250	5163	5616	6224	4525	3545	2793	1005

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

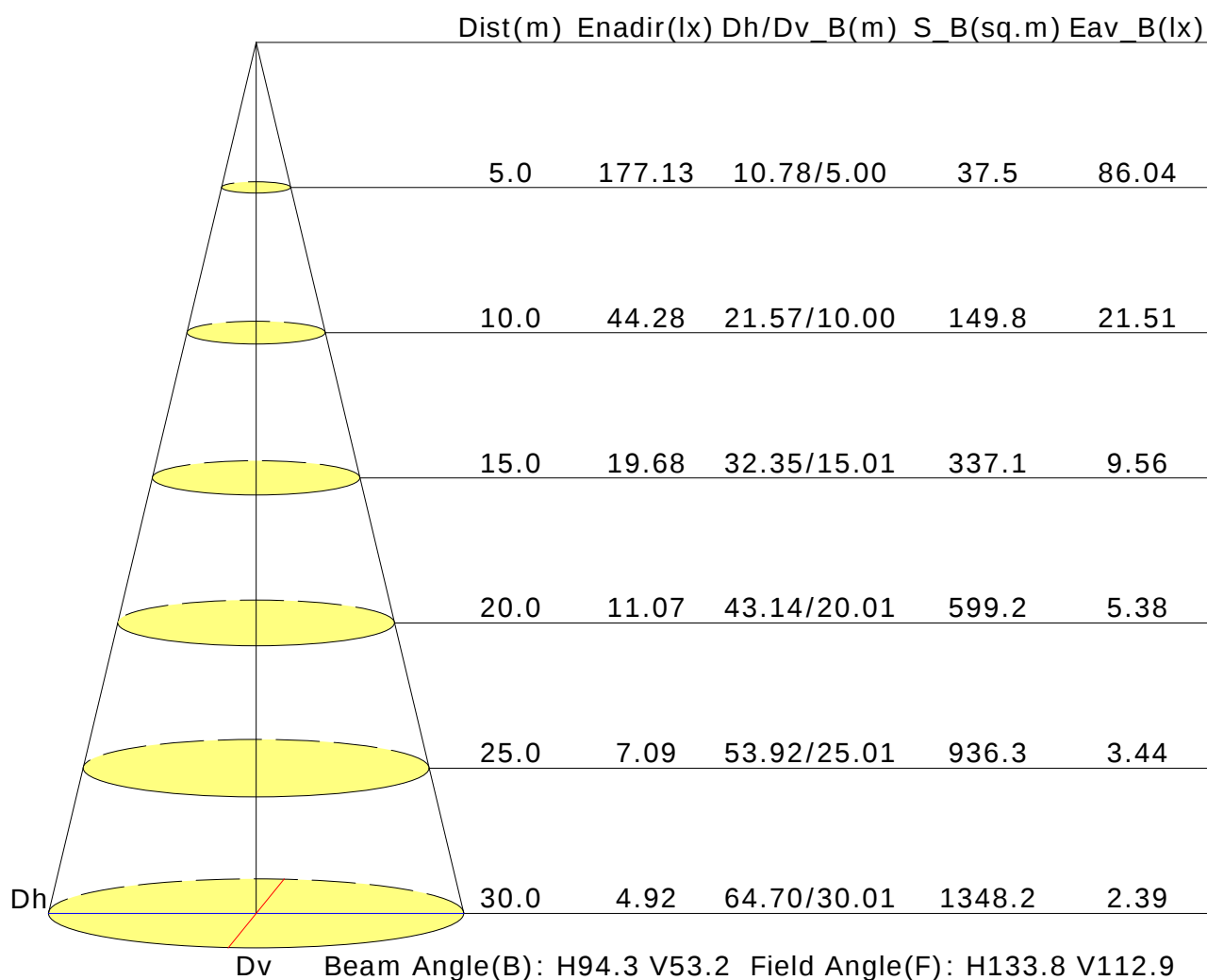
Test Device: LSG-1800B

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	18.9	20.0	19.2	20.2	20.5	15.3	16.4	15.6	16.6	16.9
3H	19.4	20.4	19.7	20.7	21.0	17.2	18.2	17.5	18.5	18.7
4H	19.6	20.6	20.0	20.9	21.2	17.7	18.6	18.0	18.9	19.2
6H	19.9	20.8	20.2	21.1	21.4	18.0	18.9	18.4	19.2	19.5
8H	19.9	20.8	20.3	21.1	21.4	18.1	19.0	18.5	19.3	19.6
12H	19.9	20.8	20.3	21.1	21.5	18.1	19.0	18.5	19.3	19.6
X=4H Y=2H	18.9	19.9	19.3	20.2	20.5	15.8	16.8	16.1	17.0	17.3
3H	19.6	20.4	20.0	20.8	21.1	17.8	18.6	18.2	18.9	19.3
4H	20.0	20.7	20.4	21.1	21.5	18.4	19.1	18.8	19.5	19.9
6H	20.3	21.0	20.7	21.3	21.8	18.8	19.4	19.2	19.8	20.2
8H	20.4	21.0	20.9	21.4	21.9	18.9	19.5	19.3	19.9	20.3
12H	20.5	21.0	20.9	21.4	21.9	19.0	19.5	19.4	19.9	20.4
X=8H Y=4H	20.1	20.7	20.5	21.1	21.5	18.6	19.2	19.0	19.6	20.0
6H	20.5	21.0	20.9	21.4	21.9	19.0	19.5	19.5	20.0	20.4
8H	20.6	21.1	21.1	21.5	22.0	19.2	19.6	19.7	20.1	20.6
12H	20.8	21.1	21.3	21.6	22.1	19.3	19.7	19.8	20.1	20.6
X=12H Y=4H	20.0	20.6	20.5	21.0	21.5	18.6	19.1	19.0	19.5	20.0
6H	20.5	20.9	21.0	21.4	21.9	19.1	19.5	19.5	19.9	20.4
8H	20.7	21.0	21.2	21.5	22.0	19.2	19.6	19.7	20.1	20.6
Variations with the observer position at spacings:										
S=1.0H	+1.1/-1.0					+0.3/-0.4				
S=1.5H	+2.8/-1.7					+1.1/-0.7				
S=2.0H	+4.3/-2.3					+1.4/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 6261lm ($8\log(F/F_0) = 6.4$).

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 = 1.00									
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	0.70	0.79	0.85	0.89	0.95	0.98	1.01	1.05	1.07	
	0.30		0.64	0.73	0.79	0.83	0.90	0.94	0.97	1.01	1.04	
	0.20		0.59	0.68	0.74	0.79	0.86	0.90	0.94	0.98	1.02	
0.50	0.50	0.20	0.69	0.77	0.82	0.86	0.91	0.95	0.97	1.01	1.03	
	0.30		0.63	0.72	0.77	0.81	0.87	0.91	0.94	0.98	1.00	
	0.20		0.59	0.67	0.73	0.78	0.84	0.88	0.91	0.96	0.98	
0.30	0.50	0.20	0.67	0.75	0.80	0.84	0.89	0.92	0.94	0.97	0.99	
	0.30		0.62	0.70	0.76	0.80	0.85	0.89	0.91	0.95	0.97	
	0.20		0.59	0.67	0.72	0.76	0.82	0.86	0.89	0.93	0.95	
0.00	0.00	0.00	0.57	0.64	0.70	0.74	0.79	0.82	0.85	0.88	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 = 1.00									
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	0.80	0.65	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.30		0.66	0.56	0.48	0.42	0.34	0.29	0.25	0.20	0.16	
	0.20		0.57	0.49	0.43	0.38	0.31	0.27	0.23	0.19	0.15	
0.50	0.50	0.20	0.76	0.62	0.52	0.45	0.36	0.33	0.25	0.20	0.16	
	0.30		0.65	0.54	0.46	0.41	0.33	0.28	0.24	0.19	0.15	
	0.20		0.56	0.48	0.42	0.37	0.30	0.26	0.22	0.18	0.15	
0.30	0.50	0.20	0.74	0.59	0.50	0.43	0.34	0.28	0.24	0.18	0.15	
	0.30		0.63	0.52	0.45	0.39	0.31	0.26	0.23	0.18	0.14	
	0.20		0.55	0.47	0.40	0.36	0.29	0.25	0.21	0.17	0.14	
0.00	0.00	0.00	0.43	0.35	0.30	0.26	0.21	0.17	0.15	0.12	0.10	
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 = 1.00									
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	0.21	0.22	
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18	
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	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
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		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	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:45W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												