

Report No.:

Test Time: 30.04.2020 13:40

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 200LED 62W Refond 3N 3000K 96x55 rp

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 228.5 V

Current: 0.277 A

Power: 62.55 W

Power Factor: 0.990

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 9432.3 lm

Measurement Flux: 9432.3 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 136.0, 99.8, 115.8, 116.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 94.2, 55.1, 63.4, 63.7

Luminaire Efficacy Rating (LER): 150.85

Central Intensity: 6380.2 cd

Max. Intensity: 6457.94 cd

Pos of Max. Intensity: H112.5 V0

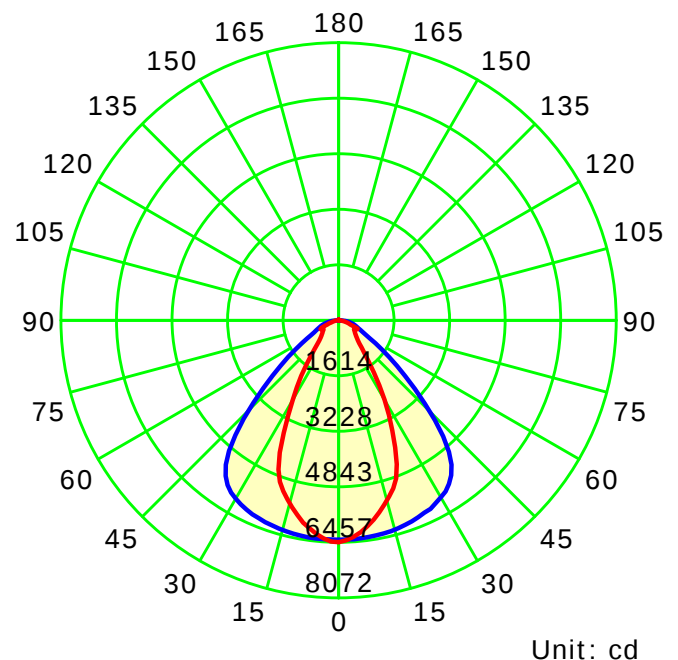
S/MH(C0/C180): 1.38

S/MH(C90/C270): 0.88

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 (°):0.0-180.0:2.0

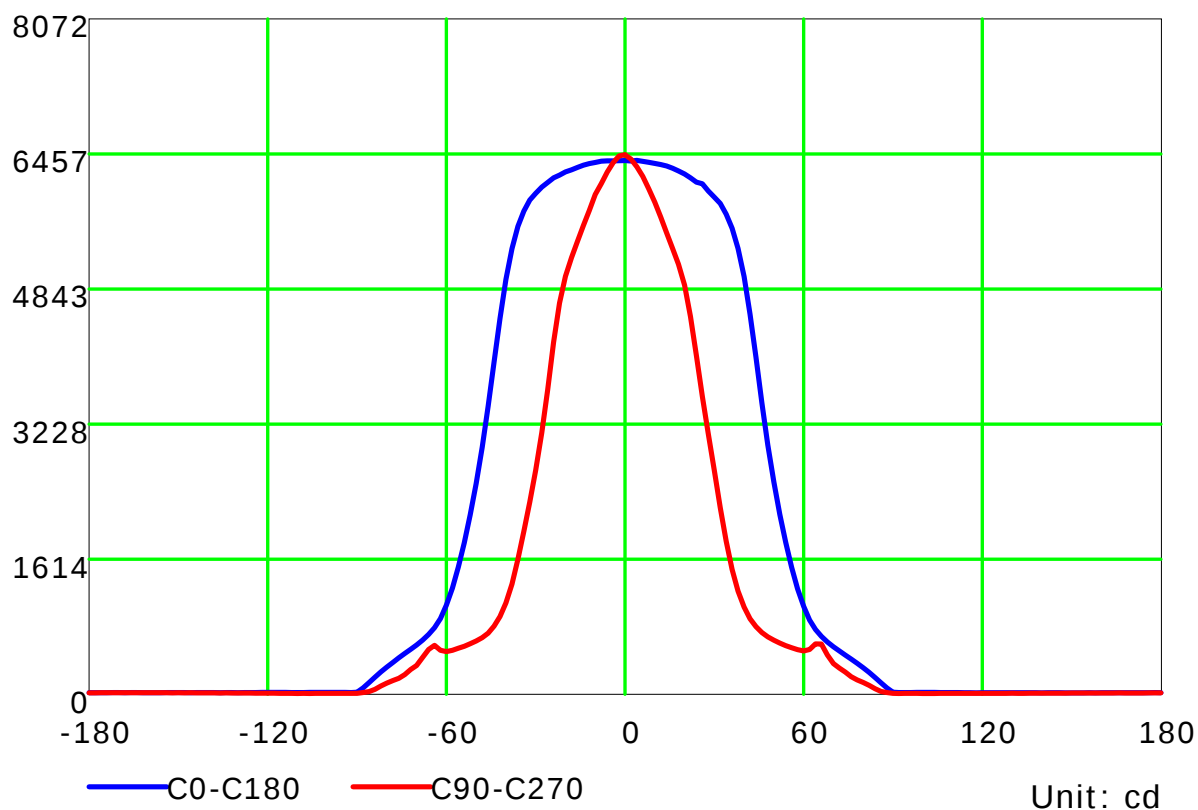
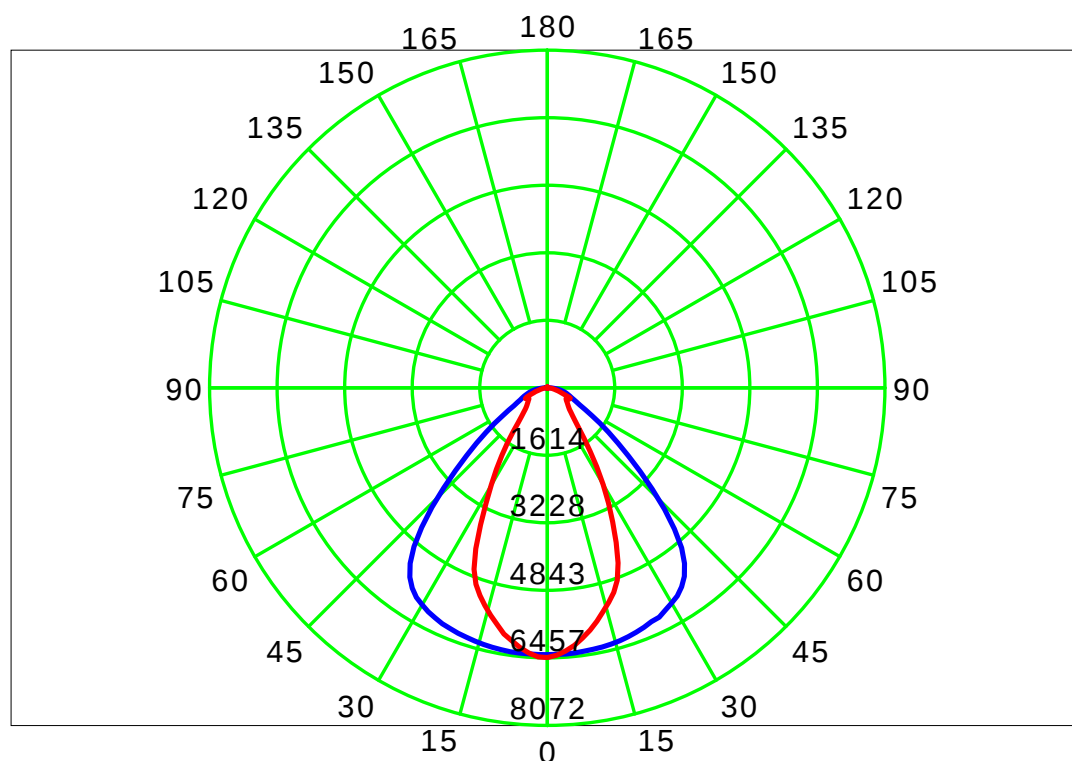
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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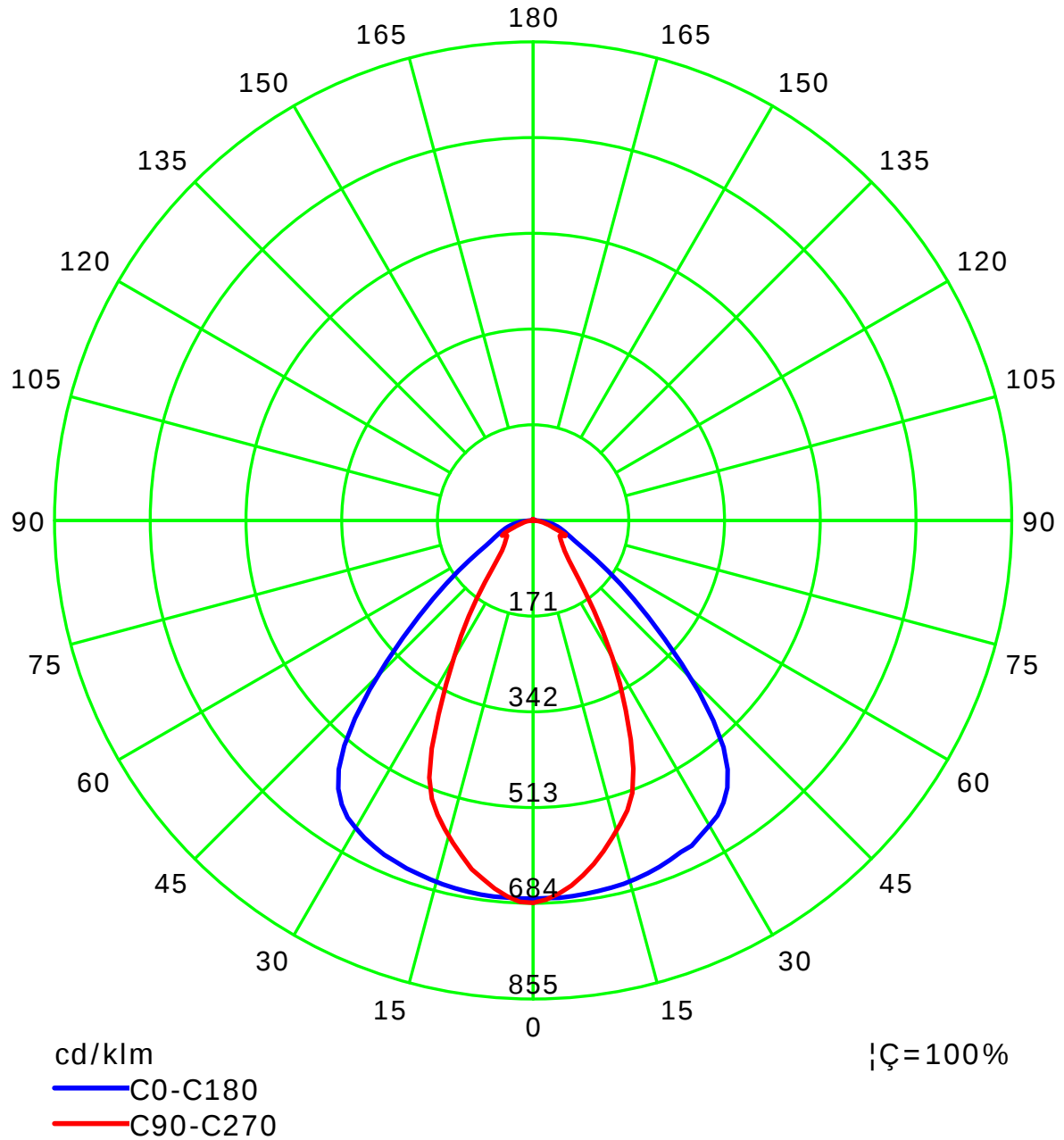
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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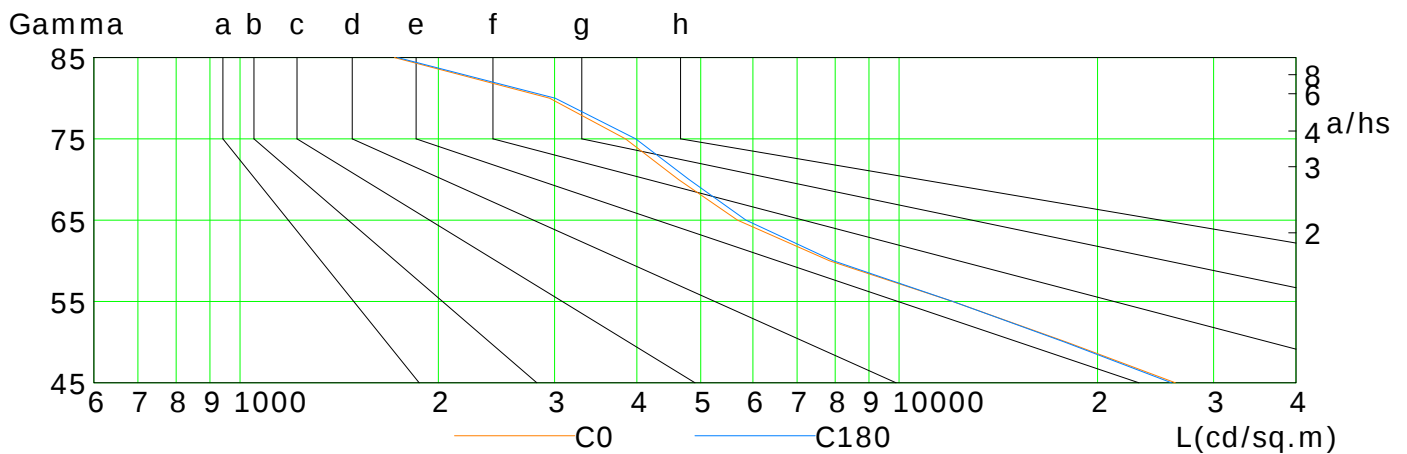
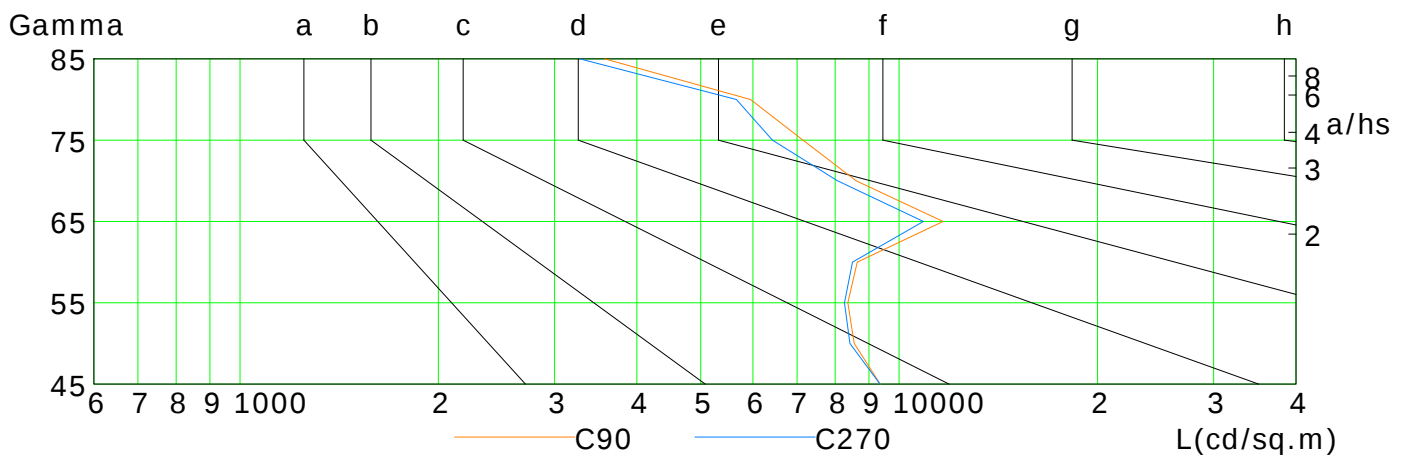
Humidity:

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	26245	17959	12059	7844	5687	4627	3845	2949	1716
C90	9360	8549	8359	8640	11661	8607	7149	5950	3575
C180	25897	17829	12064	7948	5857	4800	3984	3007	1734
C270	9351	8420	8260	8498	10884	8065	6425	5665	3279

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

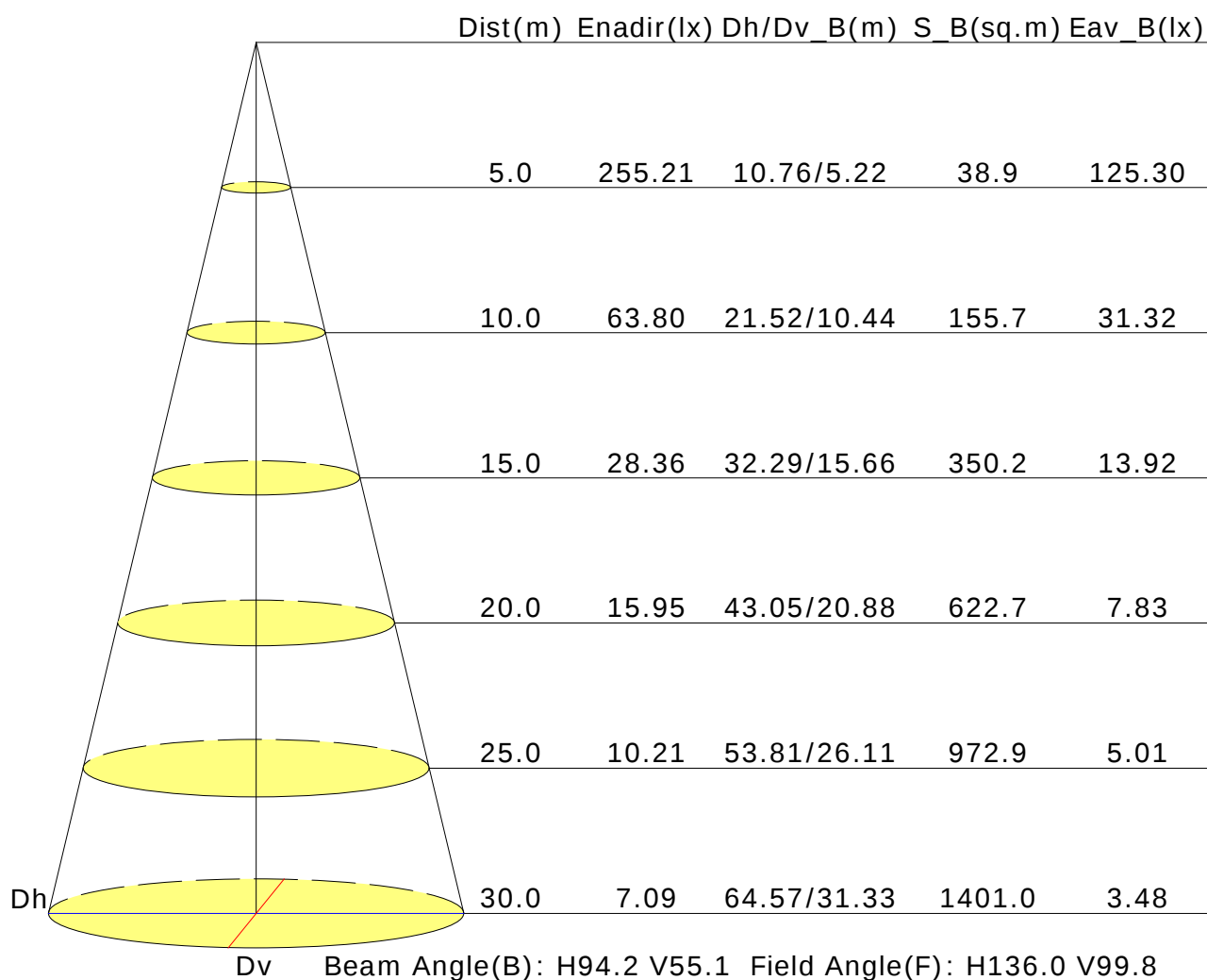
Test Device: LSG-1800B

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	20.2	21.3	20.5	21.6	21.8	16.7	17.8	17.0	18.1	18.3
3H	20.7	21.8	21.1	22.0	22.3	18.5	19.6	18.9	19.8	20.1
4H	21.0	22.0	21.4	22.3	22.6	19.0	20.0	19.4	20.3	20.6
6H	21.2	22.1	21.6	22.4	22.8	19.3	20.2	19.7	20.5	20.9
8H	21.3	22.2	21.7	22.5	22.8	19.4	20.3	19.8	20.6	20.9
12H	21.3	22.2	21.7	22.5	22.9	19.4	20.3	19.8	20.6	21.0
X=4H Y=2H	20.2	21.2	20.6	21.5	21.8	17.2	18.2	17.6	18.5	18.8
3H	21.0	21.8	21.4	22.1	22.5	19.2	20.0	19.6	20.3	20.7
4H	21.4	22.1	21.8	22.5	22.9	19.7	20.5	20.1	20.8	21.2
6H	21.7	22.4	22.1	22.8	23.2	20.1	20.7	20.5	21.1	21.6
8H	21.8	22.4	22.3	22.8	23.3	20.2	20.8	20.7	21.2	21.7
12H	21.9	22.4	22.4	22.9	23.3	20.3	20.8	20.7	21.2	21.7
X=8H Y=4H	21.4	22.0	21.9	22.5	22.9	19.9	20.5	20.3	20.9	21.4
6H	21.9	22.4	22.4	22.8	23.3	20.4	20.8	20.8	21.3	21.8
8H	22.1	22.5	22.6	23.0	23.5	20.5	20.9	21.0	21.4	21.9
12H	22.2	22.6	22.7	23.0	23.6	20.6	21.0	21.1	21.5	22.0
X=12H Y=4H	21.4	22.0	21.9	22.4	22.9	19.9	20.4	20.4	20.9	21.3
6H	21.9	22.3	22.4	22.8	23.3	20.4	20.8	20.9	21.3	21.8
8H	22.1	22.4	22.6	22.9	23.5	20.6	20.9	21.1	21.4	21.9
Variations with the observer position at spacings:										
S=1.0H	+1.0/-1.0					+0.4/-0.3				
S=1.5H	+2.6/-1.6					+1.4/-0.7				
S=2.0H	+4.1/-2.3					+1.8/-0.6				

Calculate in accordance with CIE Pub.117. The table is revised with 9432Im ($8\log(F/F_0) = 7.8$).

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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	0.78	0.84	0.88	0.94	0.98	1.01	1.04	1.06	
	0.30		0.64	0.72	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
	0.20		0.59	0.68	0.74	0.79	0.85	0.90	0.93	0.98	1.01	
0.50	0.50	0.20	0.68	0.76	0.82	0.86	0.91	0.95	0.97	1.00	1.02	
	0.30		0.63	0.71	0.77	0.81	0.87	0.91	0.94	0.97	1.00	
	0.20		0.59	0.67	0.73	0.77	0.83	0.88	0.91	0.95	0.98	
0.30	0.50	0.20	0.67	0.75	0.80	0.83	0.88	0.91	0.93	0.96	0.98	
	0.30		0.62	0.70	0.75	0.79	0.85	0.88	0.91	0.94	0.96	
	0.20		0.58	0.66	0.72	0.76	0.82	0.86	0.89	0.92	0.95	
0.00	0.00	0.00	0.56	0.64	0.69	0.73	0.78	0.82	0.84	0.88	0.90	
Rating:63W 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		0.67	0.56	0.48	0.43	0.35	0.29	0.25	0.20	0.16	
	0.20		0.57	0.49	0.43	0.38	0.32	0.27	0.23	0.19	0.16	
0.50	0.50	0.20	0.76	0.62	0.53	0.46	0.36	0.34	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	0.15	
	0.20		0.55	0.47	0.41	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	0.18	0.15	0.12	0.10	
Rating:63W 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	0.16	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	0.13	0.15	0.16	0.18	0.18	0.20	0.20	
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.19	
0.50	0.50	0.20	0.15	0.17	0.18	0.18	0.19	0.20	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	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	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	0.08	0.09	0.11	0.13	0.14	0.15	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:63W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												