

Report No.:

Test Time: 25.03.2020 23:43

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 105LED 46W 4000K 104x90 gr

Number of Lamps: 1

Luminous Width (mm): 75

Voltage: 228.8 V

Power: 45.37 W

Luminous Length (mm): 1500

Luminous Height (mm): 60

Current: 0.203 A

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Measurement Flux: 6320.3 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.1, 126.9, 136.5, 137.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 103.2, 85.5, 86.1, 85.1

Luminaire Efficacy Rating (LER): 139.36

Max. Intensity: 3047.4 cd

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 6320.3 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 2946.87 cd

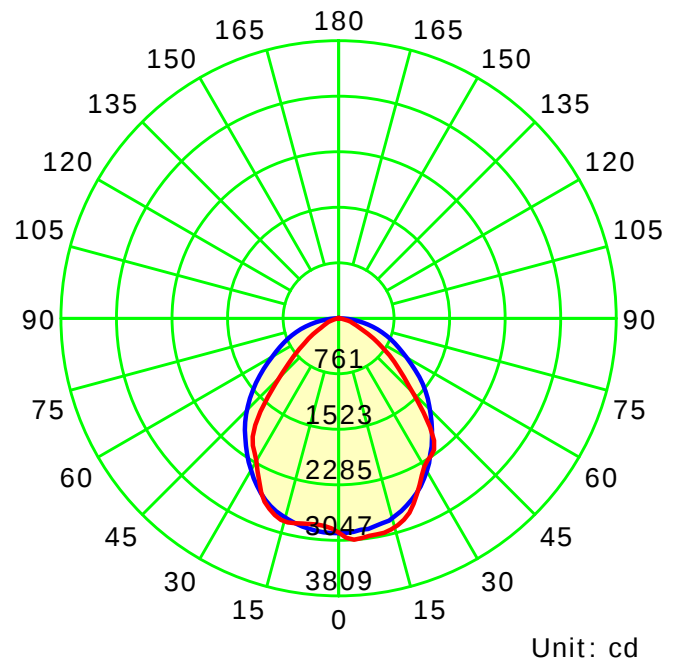
Pos of Max. Intensity: H135 V6

S/MH(C90/C270): 1.17

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

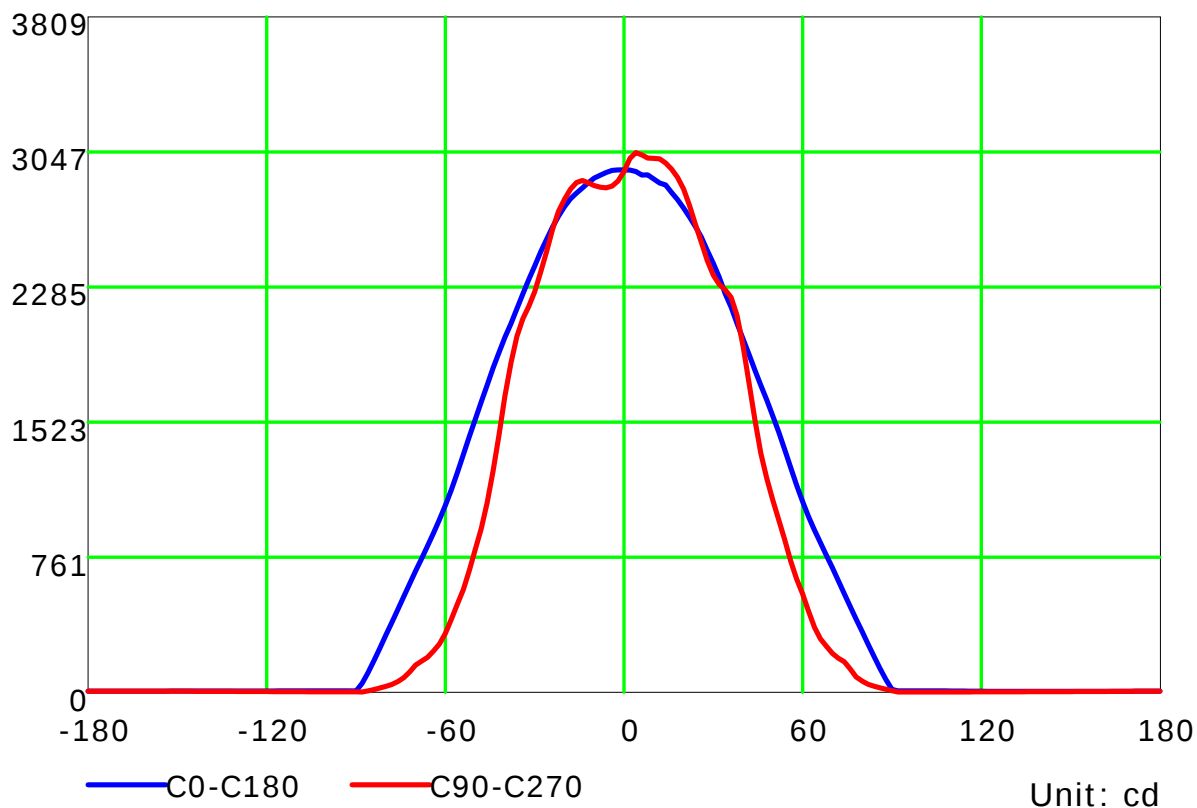
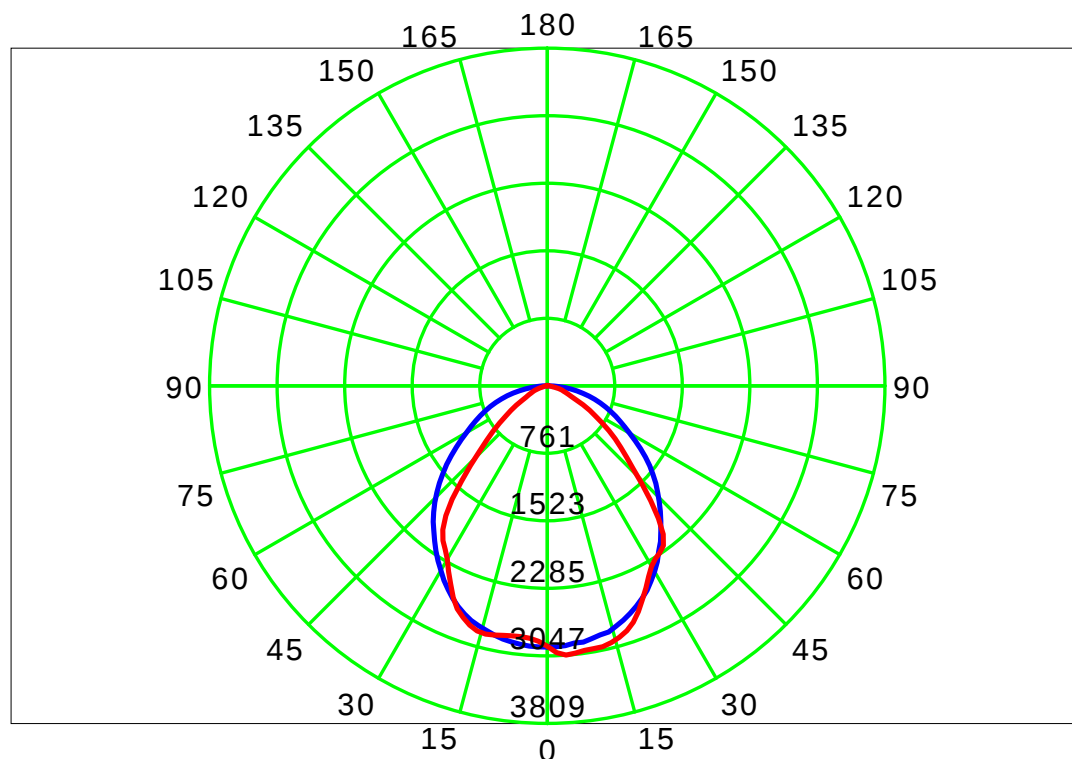
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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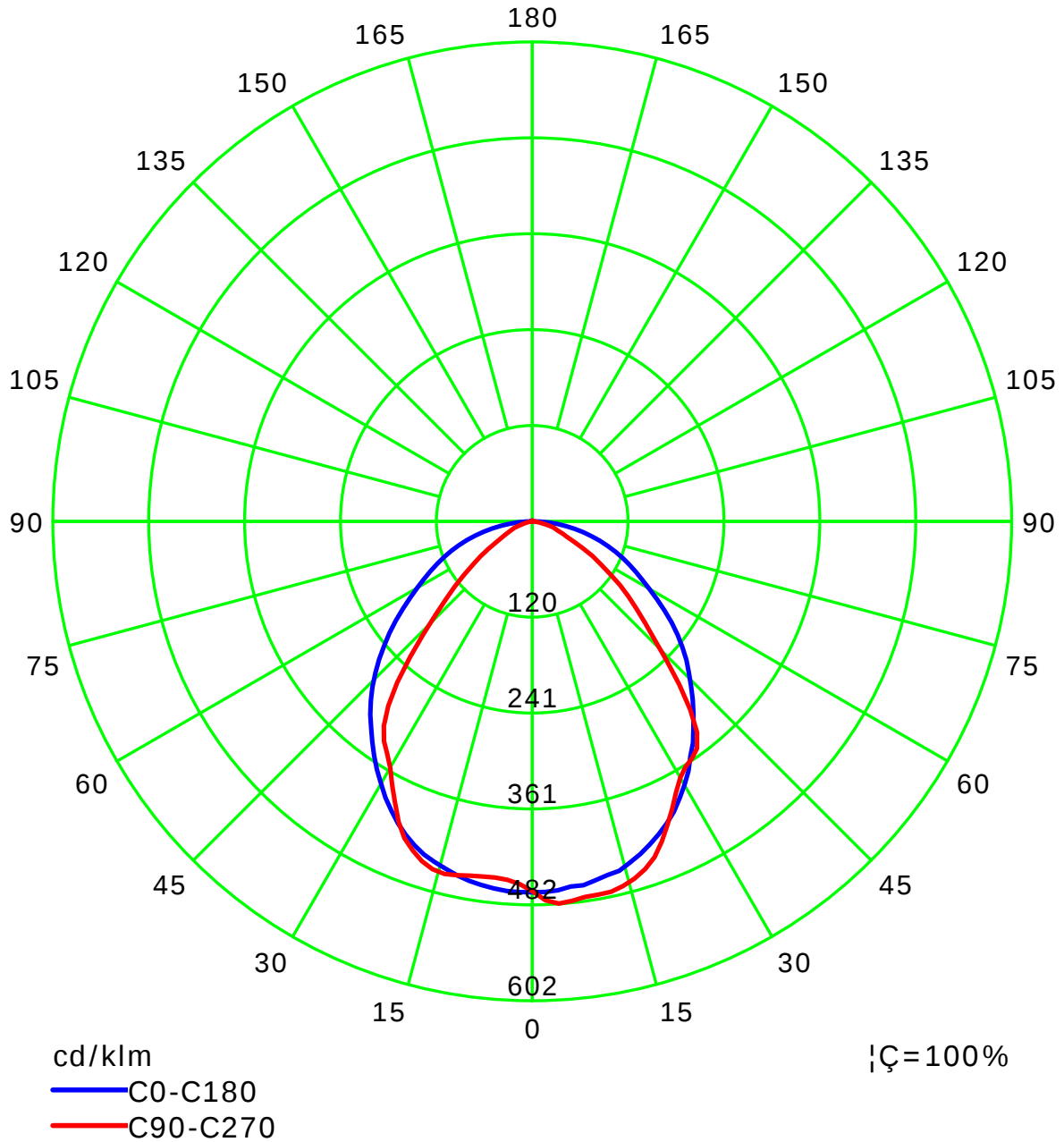
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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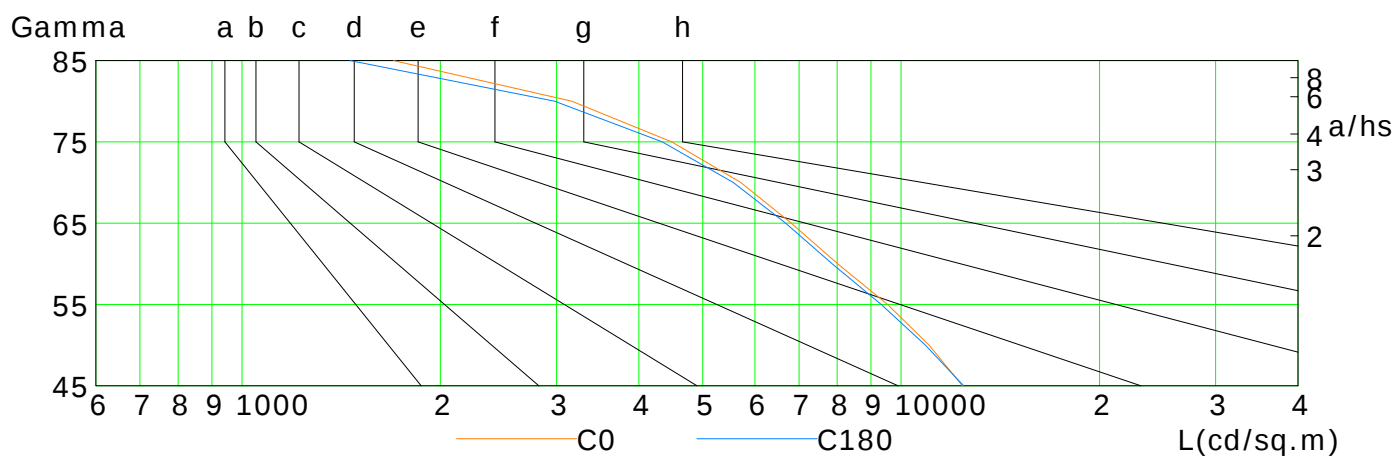
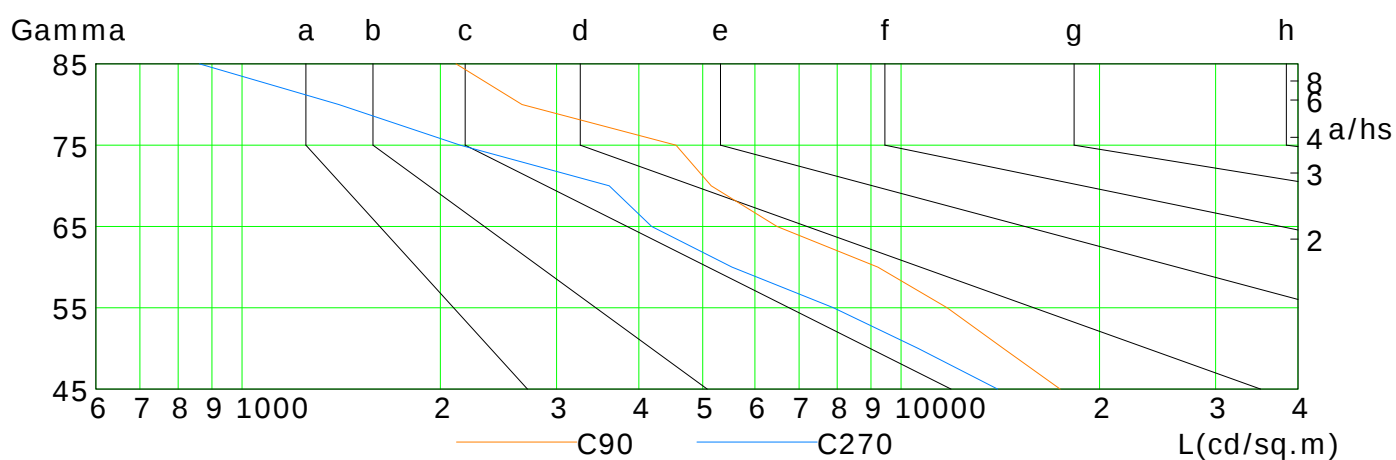
Humidity:

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	12387	11028	9539	8013	6813	5712	4485	3165	1697
C90	17426	14292	11742	9218	6480	5152	4555	2659	2112
C180	12440	10886	9329	7859	6678	5563	4341	2981	1459
C270	14004	10612	7894	5538	4183	3607	2142	1402	862

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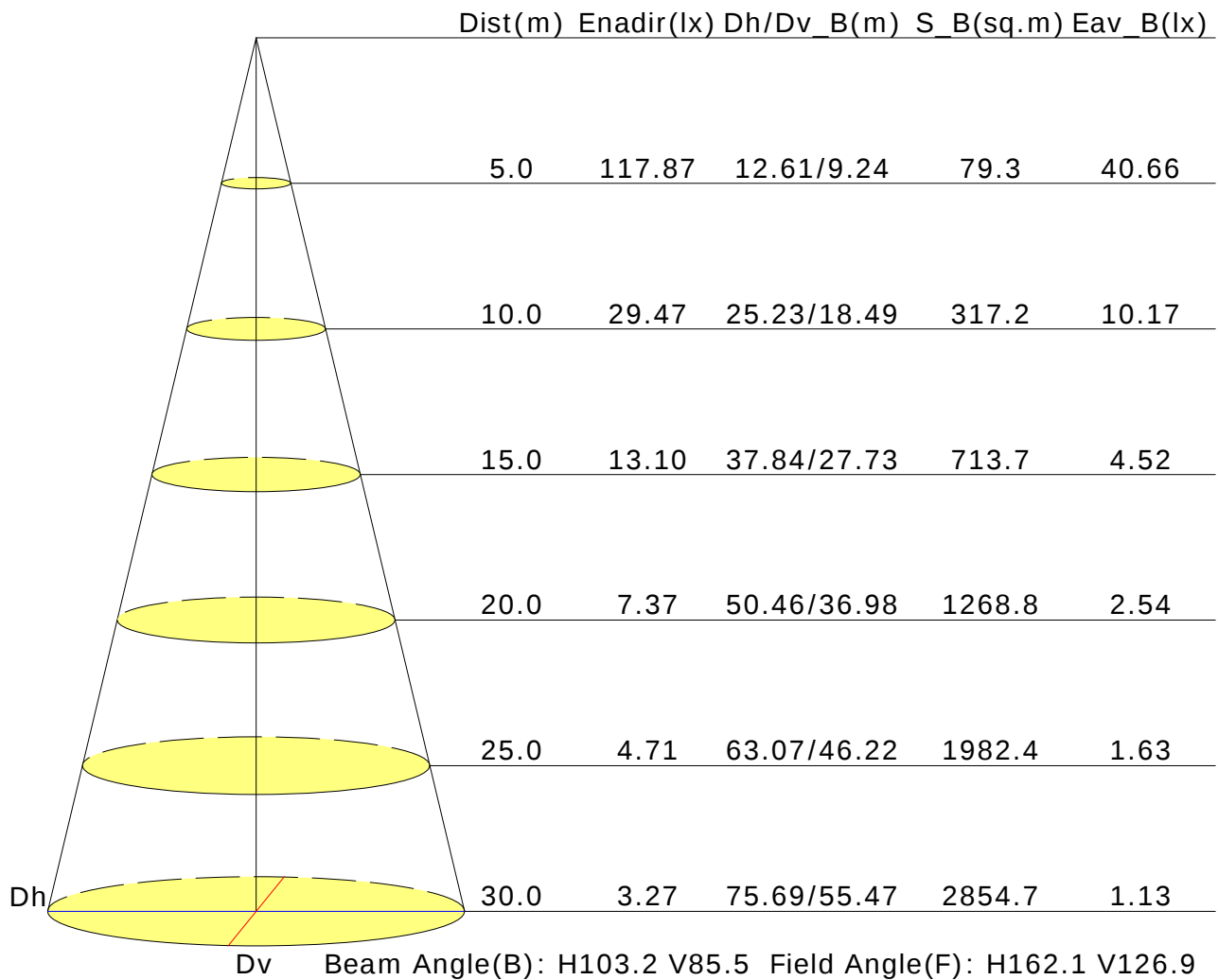
Test Device: LSG-1800B

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	19.7	20.9	20.0	21.2	21.4	19.1	20.3	19.4	20.5	20.8
3H	20.8	22.0	21.2	22.2	22.5	19.4	20.5	19.7	20.8	21.0
4H	21.3	22.4	21.7	22.7	23.0	19.5	20.5	19.8	20.8	21.1
6H	21.7	22.6	22.0	22.9	23.3	19.5	20.5	19.8	20.8	21.1
8H	21.8	22.7	22.1	23.0	23.4	19.5	20.4	19.8	20.7	21.1
12H	21.8	22.7	22.2	23.0	23.4	19.4	20.3	19.8	20.7	21.0
X=4H Y=2H	19.8	20.9	20.2	21.2	21.5	19.3	20.3	19.6	20.6	20.9
3H	21.1	22.0	21.5	22.3	22.7	19.7	20.6	20.1	20.9	21.3
4H	21.7	22.5	22.1	22.8	23.2	19.8	20.6	20.2	21.0	21.4
6H	22.1	22.8	22.5	23.2	23.6	19.9	20.6	20.3	21.0	21.4
8H	22.2	22.9	22.7	23.3	23.7	19.9	20.5	20.3	20.9	21.3
12H	22.3	22.9	22.8	23.3	23.8	19.9	20.4	20.3	20.9	21.3
X=8H Y=4H	21.6	22.3	22.1	22.7	23.1	19.9	20.5	20.3	20.9	21.4
6H	22.1	22.6	22.6	23.1	23.5	19.9	20.5	20.4	20.9	21.4
8H	22.3	22.7	22.8	23.2	23.7	19.9	20.4	20.4	20.9	21.4
12H	22.4	22.8	22.9	23.3	23.8	19.9	20.3	20.4	20.8	21.3
X=12H Y=4H	21.6	22.2	22.1	22.6	23.1	19.9	20.4	20.3	20.9	21.3
6H	22.1	22.5	22.6	23.0	23.5	19.9	20.4	20.4	20.9	21.4
8H	22.3	22.7	22.8	23.1	23.7	19.9	20.3	20.5	20.8	21.3
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.7/-1.1				
S=1.5H	+0.8/-1.1					+1.6/-2.7				
S=2.0H	+1.6/-1.9					+3.1/-3.7				

Calculate in accordance with CIE Pub.117. The table is revised with 6320lm ($8\log(F/F_0) = 6.4$).

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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	0.65	0.75	0.82	0.86	0.92	0.97	1.00	1.03	1.06	
	0.30		0.59	0.68	0.75	0.80	0.87	0.92	0.95	1.00	1.03	
	0.20		0.54	0.63	0.70	0.76	0.83	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.64	0.73	0.79	0.84	0.89	0.93	0.96	0.99	1.02	
	0.30		0.58	0.67	0.74	0.79	0.85	0.89	0.92	0.97	0.99	
	0.20		0.53	0.63	0.70	0.74	0.81	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.90	0.93	0.96	0.98	
	0.30		0.57	0.66	0.72	0.77	0.83	0.87	0.90	0.93	0.96	
	0.20		0.53	0.62	0.69	0.73	0.80	0.84	0.87	0.91	0.94	
0.00	0.00	0.00	0.51	0.60	0.66	0.70	0.76	0.80	0.83	0.87	0.89	
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	0.86	0.70	0.59	0.51	0.41	0.33	0.29	0.22	0.18	
	0.30		0.72	0.60	0.52	0.45	0.37	0.31	0.26	0.21	0.17	
	0.20		0.62	0.52	0.46	0.41	0.33	0.28	0.25	0.20	0.16	
0.50	0.50	0.20	0.83	0.67	0.56	0.49	0.38	0.35	0.27	0.21	0.17	
	0.30		0.70	0.58	0.50	0.44	0.35	0.29	0.25	0.20	0.16	
	0.20		0.61	0.51	0.45	0.40	0.32	0.27	0.24	0.19	0.16	
0.30	0.50	0.20	0.80	0.64	0.54	0.46	0.36	0.30	0.25	0.20	0.16	
	0.30		0.69	0.57	0.48	0.42	0.34	0.28	0.24	0.19	0.15	
	0.20		0.60	0.50	0.44	0.38	0.31	0.26	0.23	0.18	0.15	
0.00	0.00	0.00	0.49	0.40	0.34	0.29	0.23	0.19	0.16	0.13	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 = 1.25									
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	0.17	0.18	0.19	0.20	0.20	0.21	0.22	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	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.20	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	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	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		0.05	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												