

Report No.:

Test Time: 06.05.2020 19:09

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 200LED 55W Refond 3N 4000K 20x90 rp

Luminous Length (mm): 1500

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 228.8 V

Current: 0.228 A

Power: 51.47 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Measurement Flux: 7643 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 7643.0 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 150.3, 141.0, 134.9, 135.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 79.3, 48.7, 60.9, 61.6

Luminaire Efficacy Rating (LER): 148.54

Central Intensity: 2948.15 cd

Max. Intensity: 5102.4 cd

Pos of Max. Intensity: H270 V22

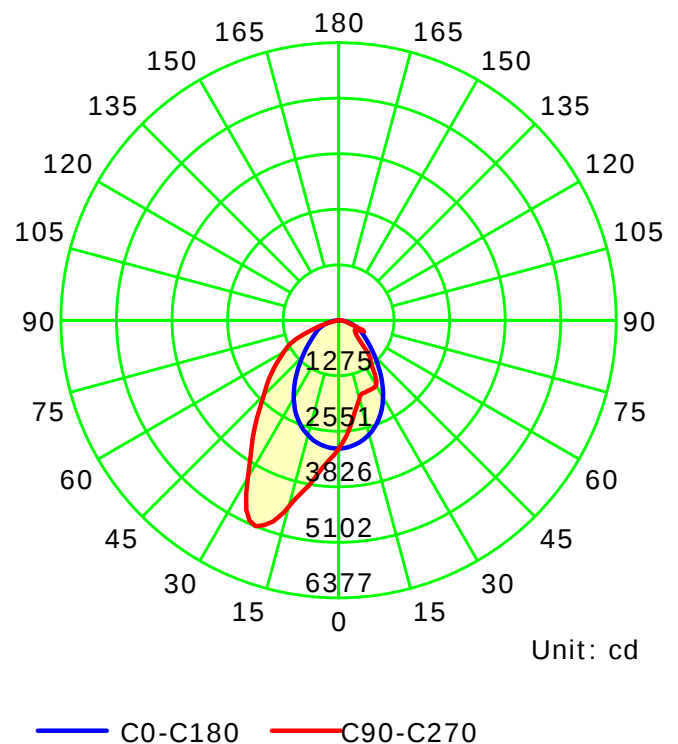
S/MH(C0/C180): 1.07

S/MH(C90/C270): 1.34

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

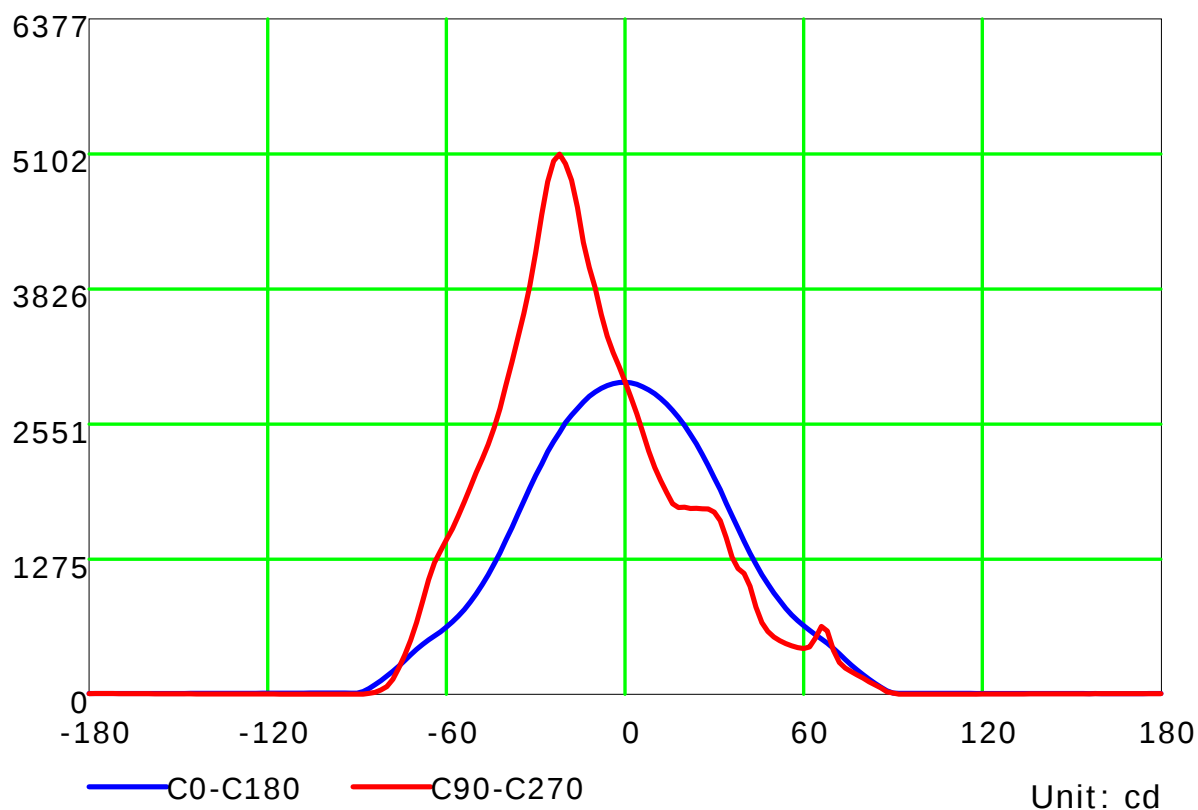
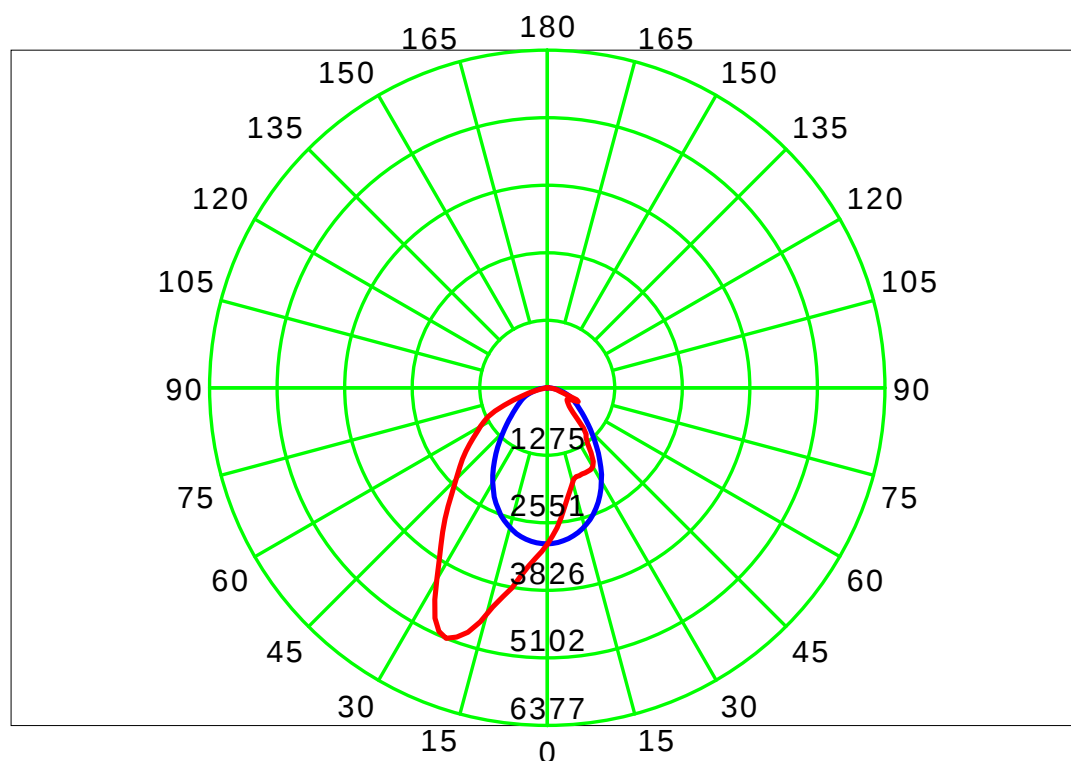
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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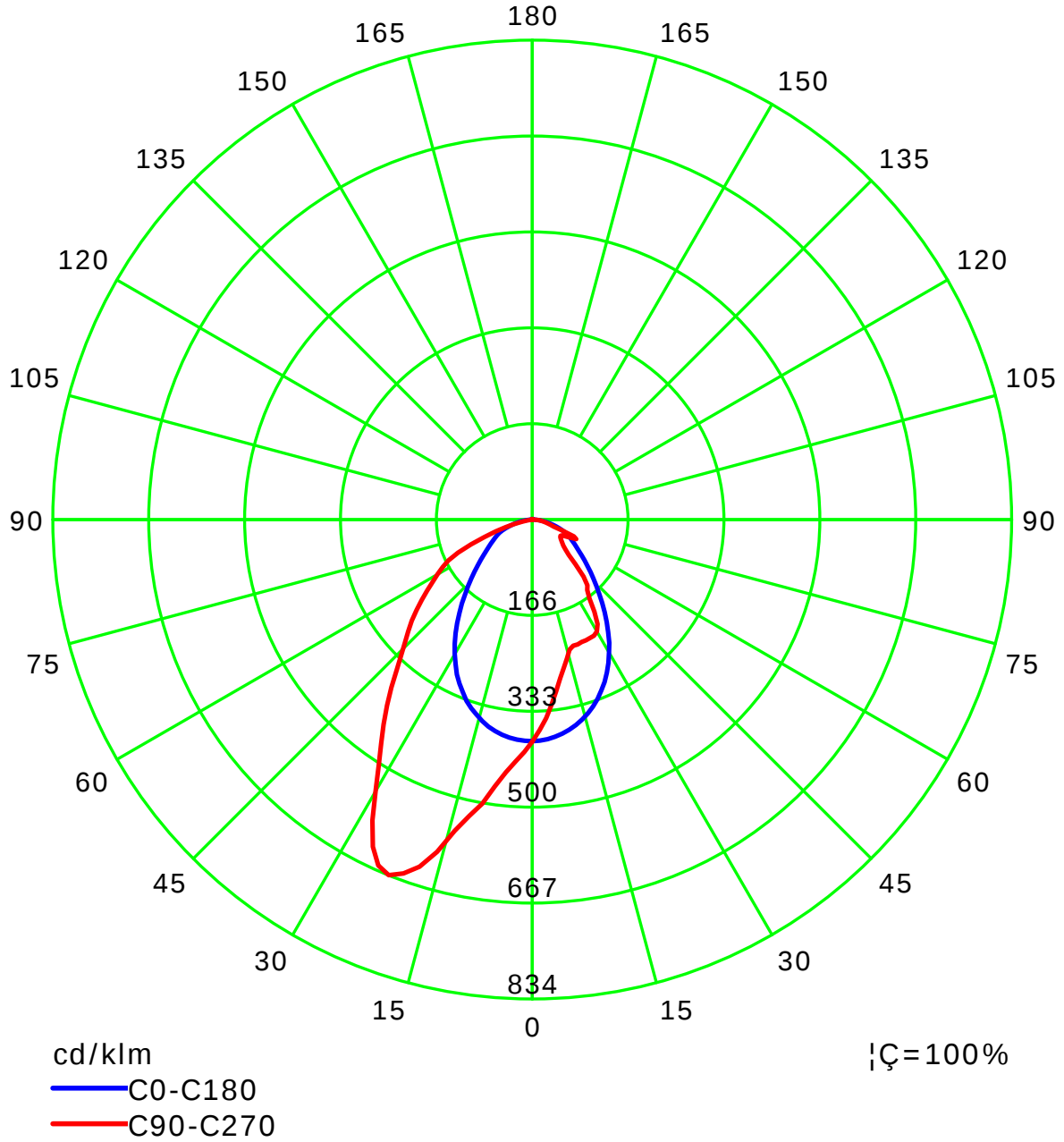
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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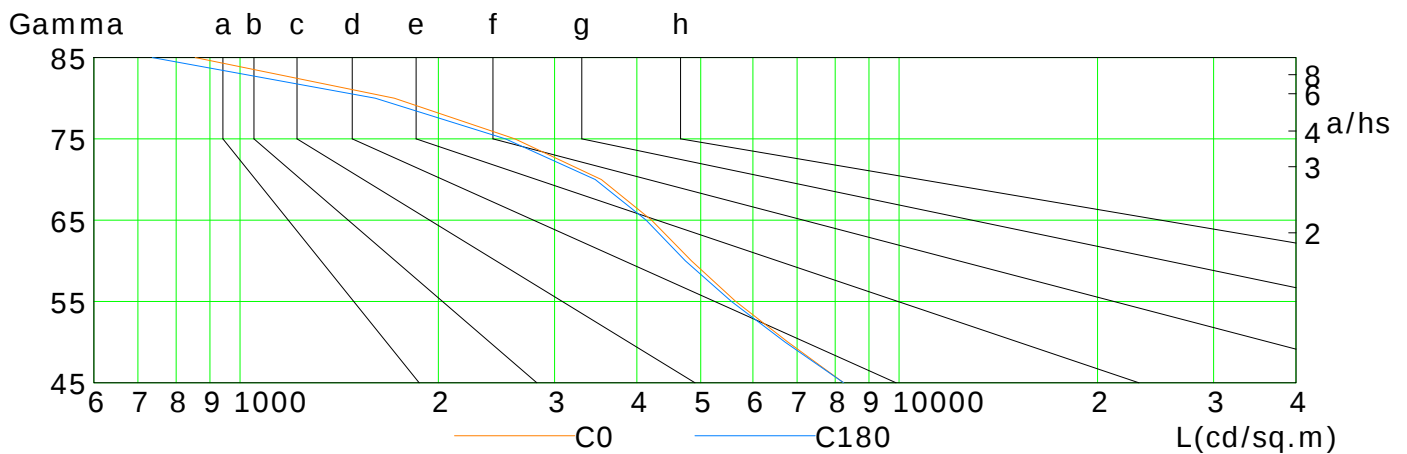
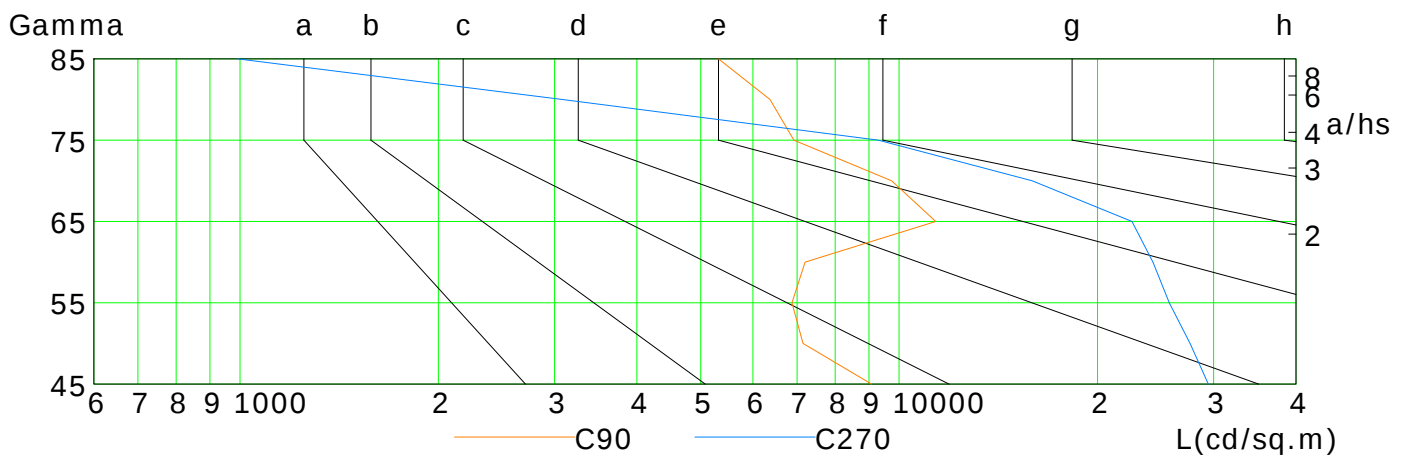
Humidity:

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	8238	6780	5651	4841	4211	3532	2612	1714	855
C90	9080	7146	6877	7201	11365	9742	6923	6369	5321
C180	8238	6715	5566	4739	4132	3458	2527	1604	736
C270	29452	27630	25696	24264	22553	15923	9301	3087	991

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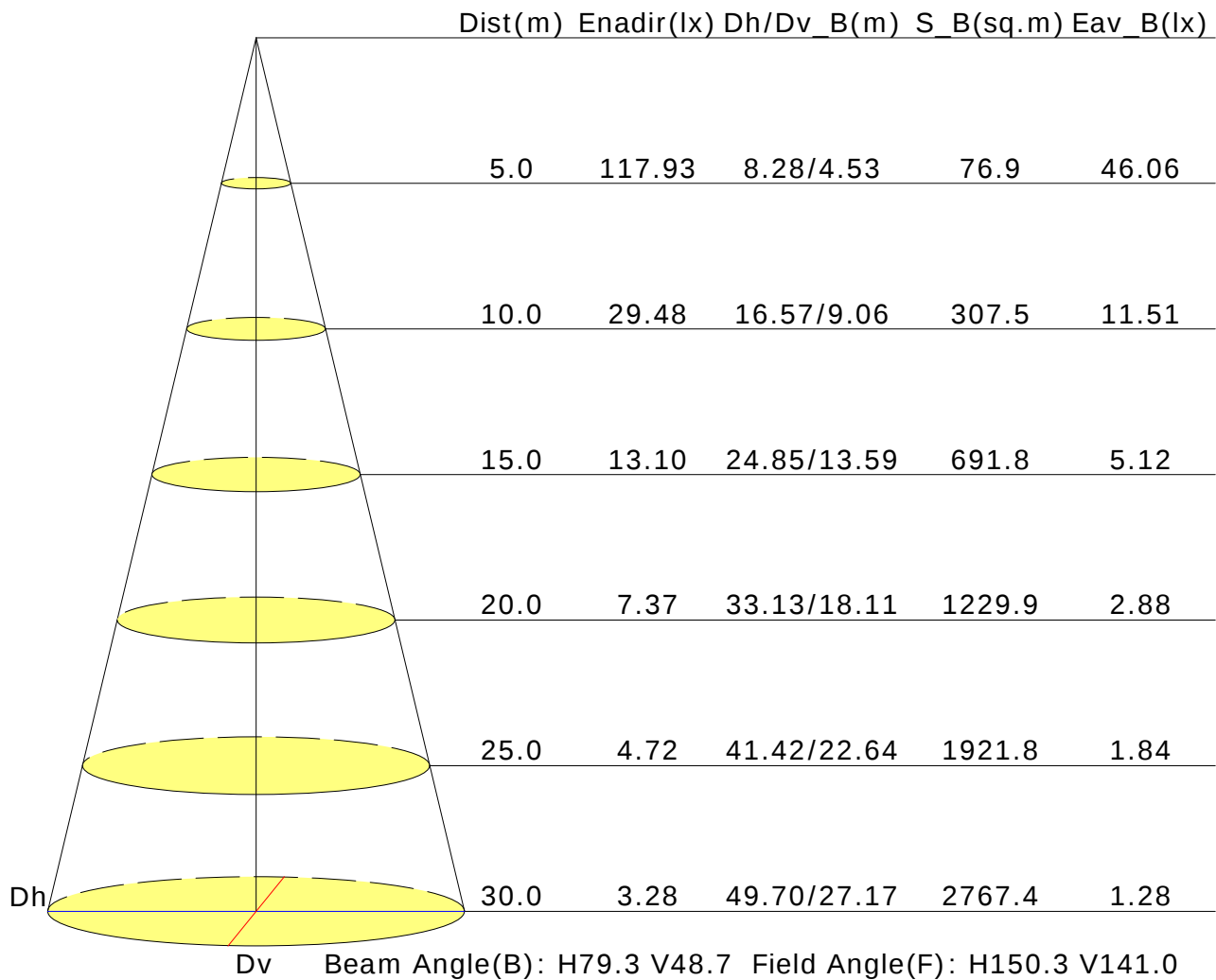
Test Device: LSG-1800B

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	20.3	21.6	20.6	21.8	22.1	22.1	23.4	22.4	23.6	23.8
3H	20.9	22.1	21.2	22.3	22.6	23.3	24.5	23.6	24.8	25.0
4H	21.1	22.2	21.4	22.5	22.8	23.5	24.6	23.9	24.9	25.2
6H	21.2	22.2	21.5	22.5	22.8	23.6	24.6	23.9	24.9	25.2
8H	21.2	22.2	21.5	22.5	22.8	23.6	24.5	23.9	24.9	25.2
12H	21.2	22.1	21.5	22.4	22.8	23.5	24.5	23.9	24.8	25.2
X=4H Y=2H	20.9	22.0	21.2	22.3	22.6	22.3	23.4	22.7	23.7	24.0
3H	21.7	22.6	22.1	23.0	23.3	23.7	24.7	24.1	25.0	25.4
4H	22.0	22.8	22.4	23.2	23.6	24.0	24.8	24.4	25.2	25.6
6H	22.1	22.9	22.6	23.3	23.7	24.1	24.8	24.5	25.2	25.6
8H	22.2	22.9	22.6	23.3	23.7	24.1	24.8	24.5	25.2	25.6
12H	22.2	22.8	22.6	23.2	23.7	24.1	24.7	24.6	25.1	25.6
X=8H Y=4H	22.2	22.9	22.6	23.3	23.7	24.0	24.7	24.5	25.1	25.6
6H	22.4	23.0	22.9	23.4	23.9	24.2	24.7	24.7	25.2	25.6
8H	22.5	23.0	23.0	23.4	23.9	24.2	24.7	24.7	25.1	25.6
12H	22.5	22.9	23.0	23.4	23.9	24.2	24.6	24.7	25.1	25.6
X=12H Y=4H	22.2	22.8	22.6	23.2	23.7	24.0	24.6	24.5	25.1	25.5
6H	22.4	22.9	22.9	23.4	23.9	24.2	24.7	24.7	25.1	25.6
8H	22.5	22.9	23.0	23.4	23.9	24.2	24.6	24.7	25.1	25.6
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.7					+0.4/-0.5				
S=1.5H	+1.0/-1.3					+0.9/-1.4				
S=2.0H	+1.1/-1.7					+1.4/-2.1				

Calculate in accordance with CIE Pub.117. The table is revised with 7643lm ($8\log(F/F_0) = 7.1$).

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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	0.62	0.72	0.79	0.84	0.90	0.95	0.98	1.02	1.05	
	0.30		0.54	0.65	0.72	0.77	0.85	0.90	0.94	0.98	1.02	
	0.20		0.49	0.59	0.67	0.72	0.80	0.86	0.90	0.95	0.99	
0.50	0.50	0.20	0.60	0.70	0.76	0.81	0.87	0.91	0.94	0.98	1.01	
	0.30		0.54	0.63	0.70	0.75	0.82	0.87	0.91	0.95	0.98	
	0.20		0.49	0.59	0.66	0.71	0.78	0.84	0.87	0.92	0.96	
0.30	0.50	0.20	0.59	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	0.56	0.62	0.67	0.74	0.78	0.81	0.85	0.88	
Rating:51W 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	0.63	0.55	0.44	0.36	0.31	0.24	0.19	
	0.30		0.77	0.64	0.55	0.49	0.39	0.33	0.28	0.22	0.18	
	0.20		0.66	0.56	0.49	0.44	0.36	0.30	0.26	0.21	0.17	
0.50	0.50	0.20	0.88	0.72	0.61	0.52	0.41	0.38	0.29	0.22	0.18	
	0.30		0.75	0.62	0.54	0.47	0.38	0.32	0.27	0.21	0.17	
	0.20		0.65	0.55	0.48	0.43	0.35	0.29	0.26	0.20	0.17	
0.30	0.50	0.20	0.86	0.69	0.58	0.50	0.39	0.32	0.28	0.21	0.17	
	0.30		0.73	0.61	0.52	0.45	0.36	0.30	0.26	0.20	0.17	
	0.20		0.64	0.54	0.47	0.42	0.34	0.28	0.25	0.19	0.16	
0.00	0.00	0.00	0.53	0.44	0.37	0.33	0.26	0.22	0.18	0.14	0.12	
Rating:51W 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	0.21	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		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.16	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	0.08	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	0.18	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	0.08	0.10	0.11	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:51W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												