

Report No.:

Test Time: 19.06.2020 18:19

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 72W 4000K frozen iFA40'320(110) (x2) s soedineniem

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.0 V

Current: 0.347 A

Power: 74.62 W

Power Factor: 0.971

Photometric Results

CIE Class: Direct

Measurement Flux: 9071.7 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 9071.7 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 150.1, 133.7, 142.2, 142.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.2, 88.5, 94.4, 94.7

Luminaire Efficacy Rating (LER): 121.62

Central Intensity: 4013.71 cd

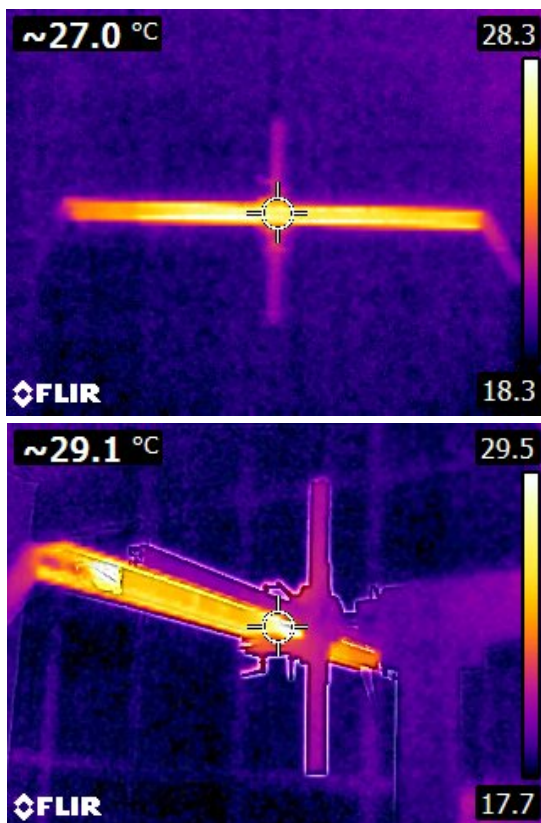
Max. Intensity: 4015.95 cd

Pos of Max. Intensity: H292.5 V2

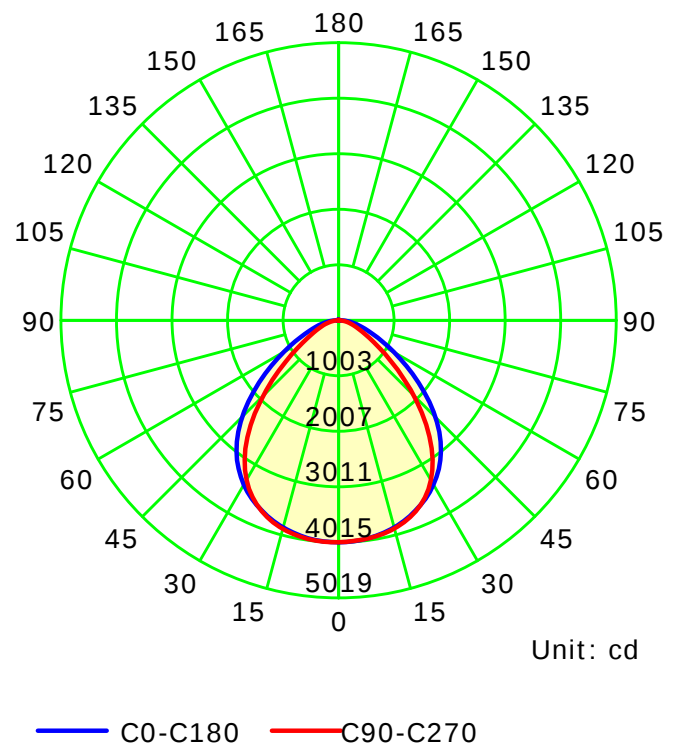
S/MH(C0/C180): 1.27

S/MH(C90/C270): 1.22

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

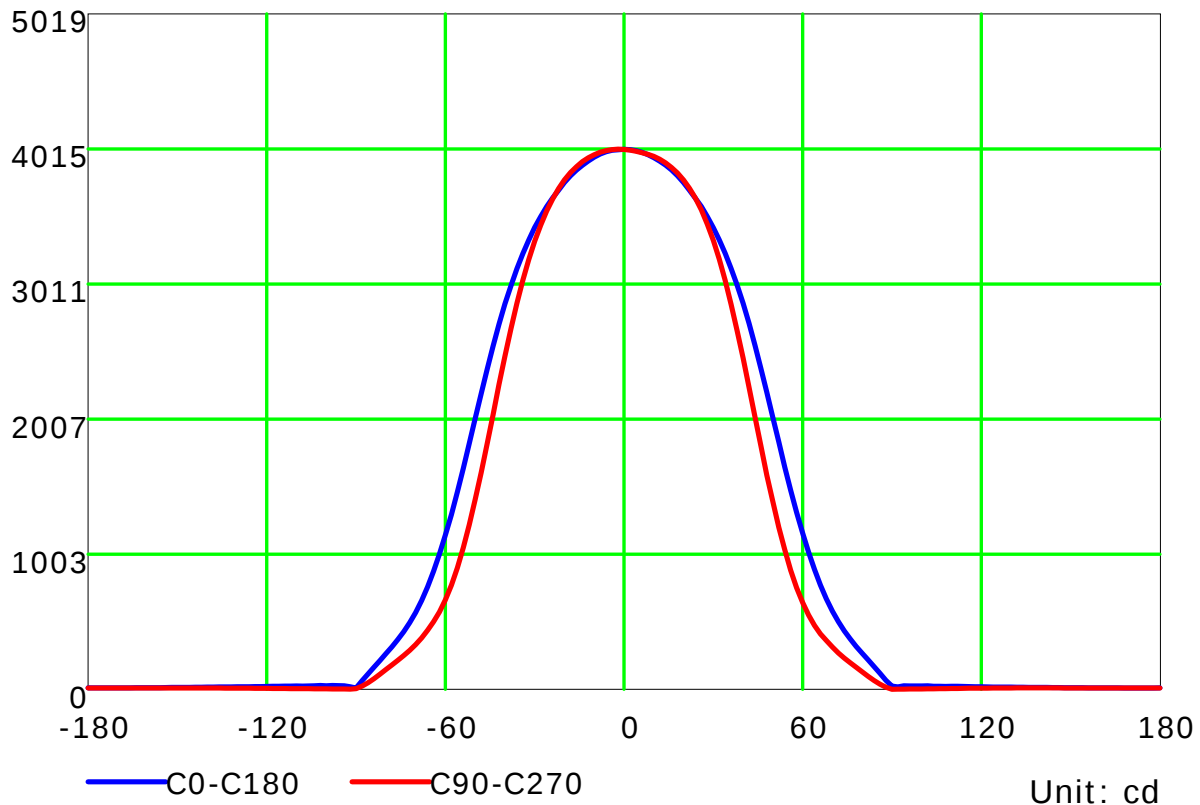
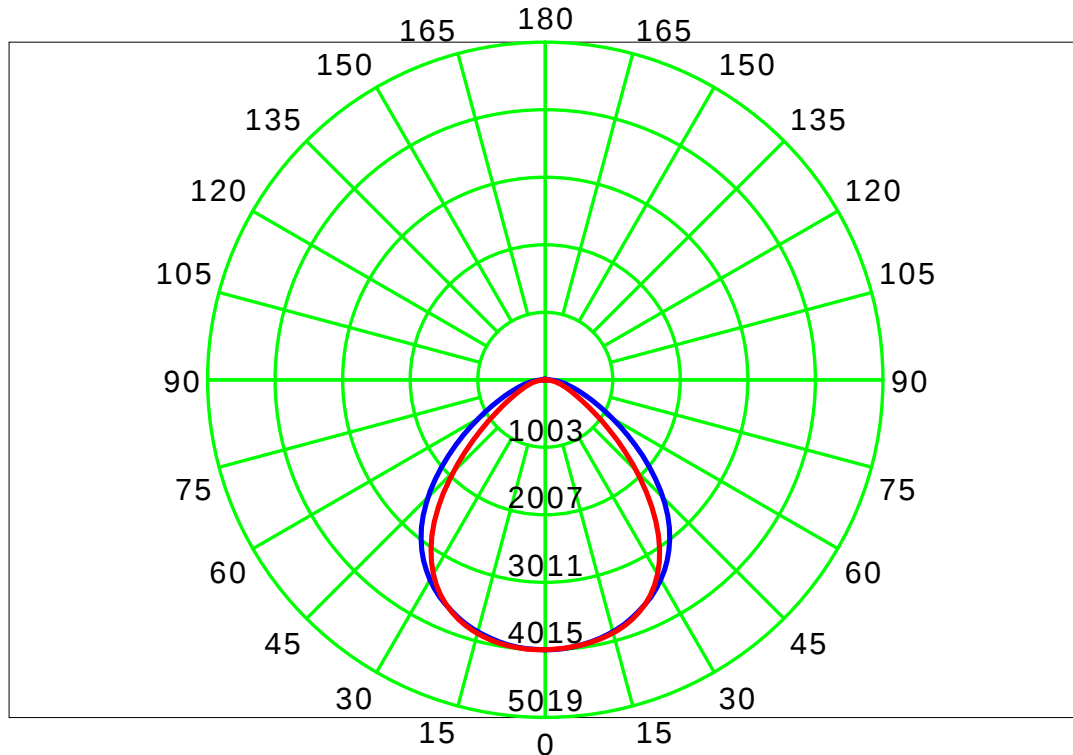
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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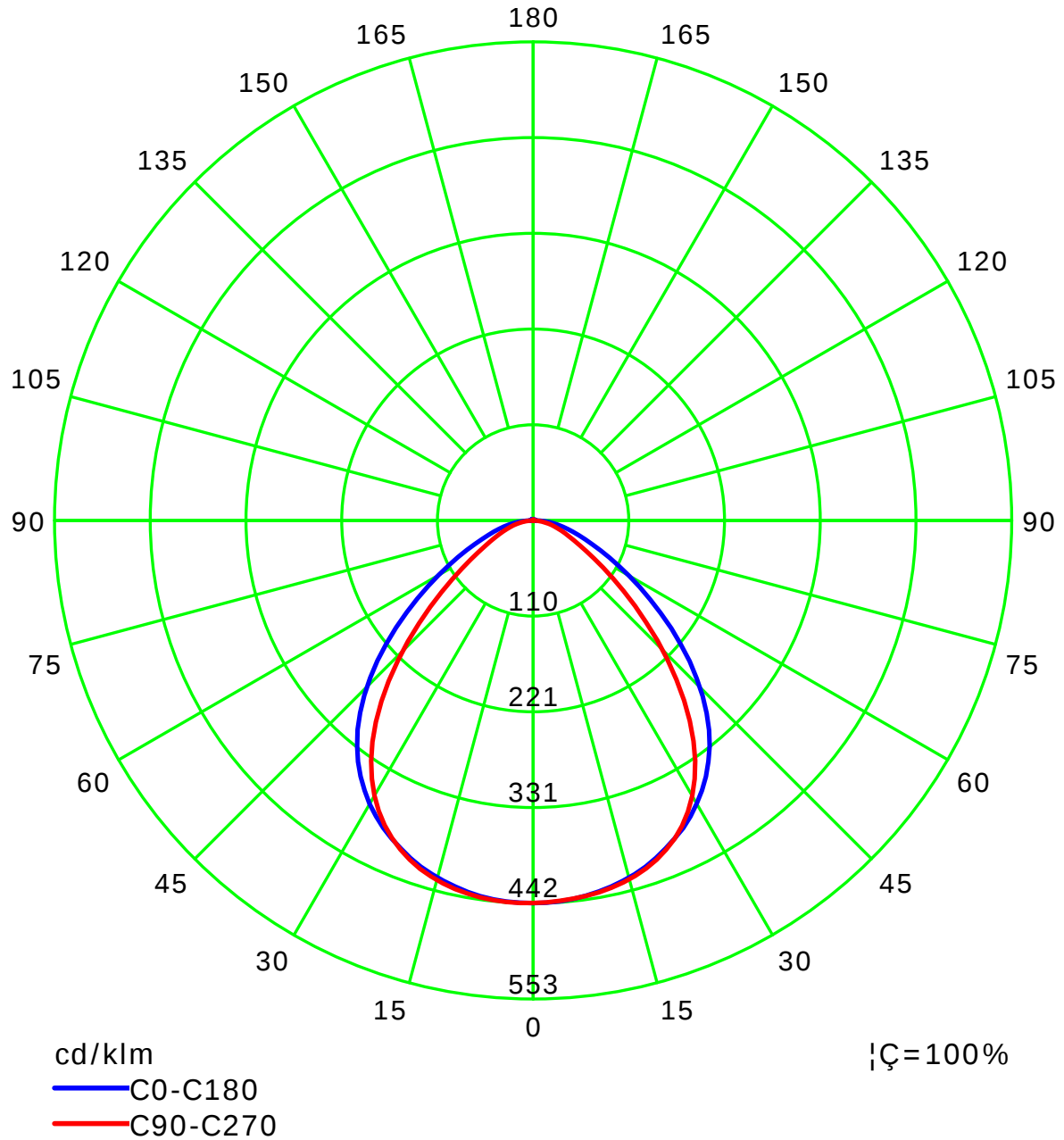
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°): 0.0-360.0: 22.5

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Distance: 12.677 m

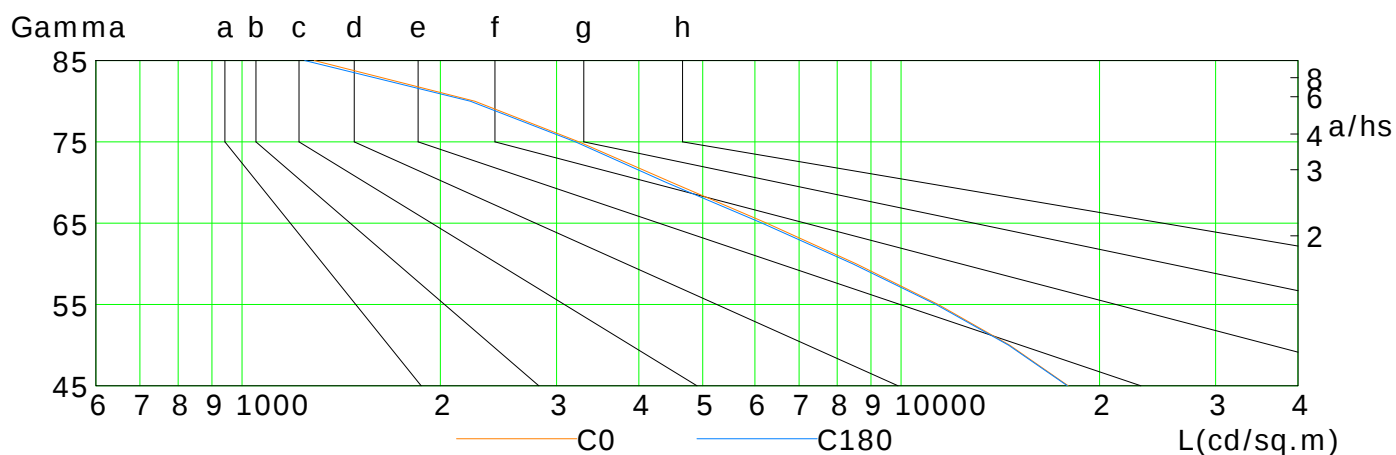
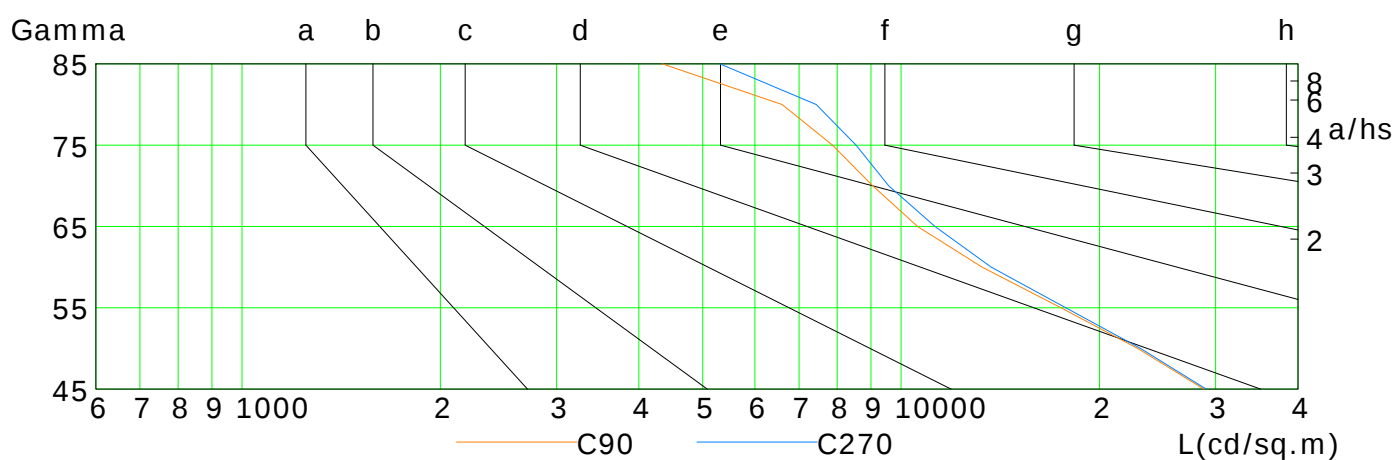
Humidity:

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	17926	14605	11382	8548	6255	4490	3245	2255	1288
C90	28803	22842	17477	13269	10591	9054	7871	6597	4341
C180	17876	14553	11295	8444	6151	4404	3205	2220	1245
C270	29017	23083	17770	13694	11254	9577	8545	7432	5309

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

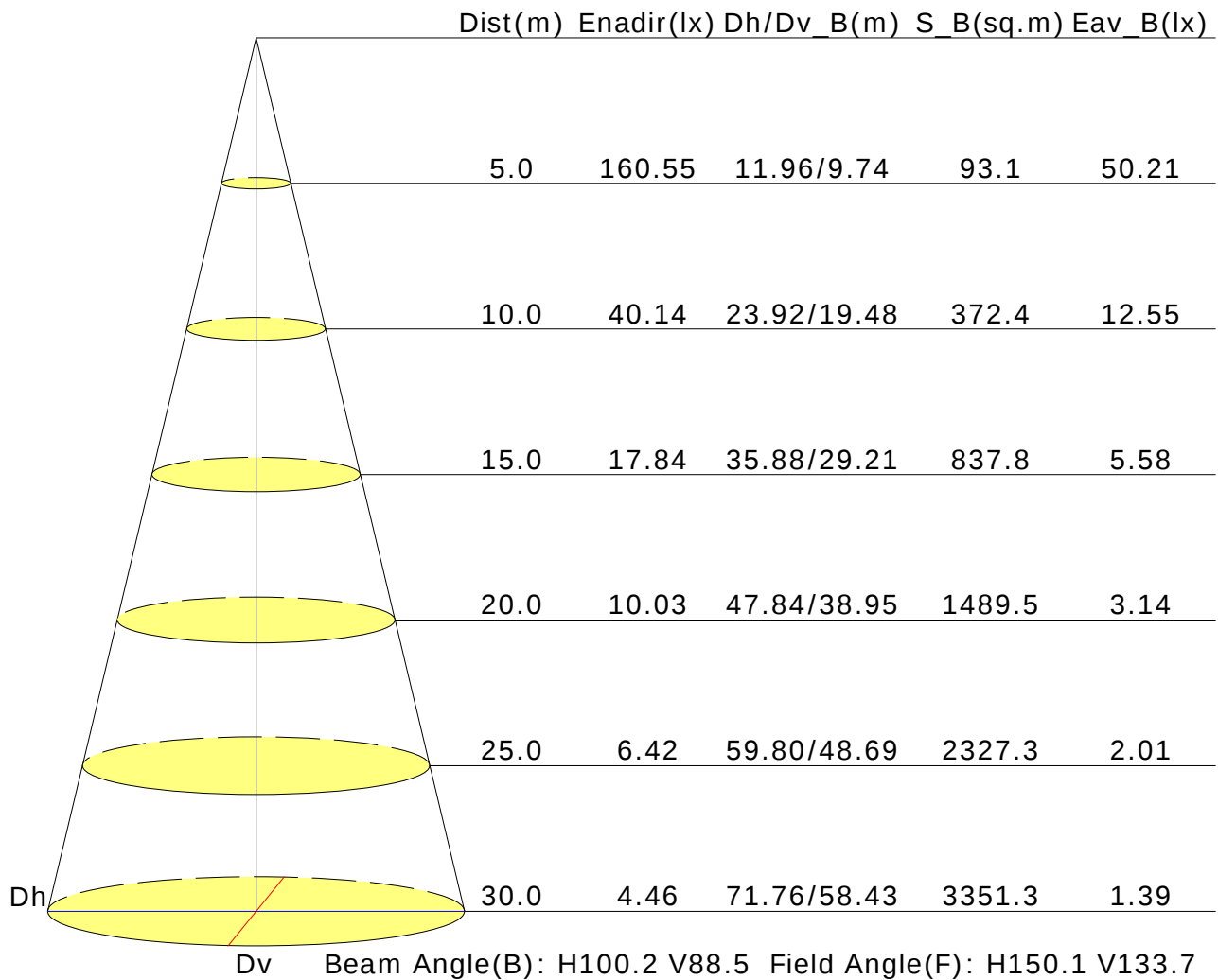
Test Device: LSG-1800B

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	21.0	22.3	21.3	22.5	22.8	20.8	22.1	21.1	22.3	22.6
3H	21.6	22.7	21.9	23.0	23.2	21.3	22.4	21.6	22.7	23.0
4H	21.7	22.8	22.1	23.1	23.4	21.5	22.5	21.8	22.8	23.1
6H	21.8	22.8	22.2	23.1	23.4	21.6	22.6	22.0	22.9	23.2
8H	21.8	22.8	22.2	23.1	23.4	21.7	22.6	22.0	22.9	23.3
12H	21.8	22.7	22.2	23.1	23.4	21.7	22.6	22.1	22.9	23.3
X=4H Y=2H	21.2	22.3	21.5	22.5	22.9	21.0	22.1	21.4	22.4	22.7
3H	21.8	22.7	22.2	23.1	23.4	21.6	22.5	22.0	22.8	23.2
4H	22.1	22.9	22.5	23.3	23.6	21.8	22.6	22.2	23.0	23.4
6H	22.3	23.0	22.7	23.4	23.8	22.0	22.8	22.5	23.1	23.6
8H	22.3	23.0	22.8	23.4	23.8	22.1	22.8	22.6	23.2	23.6
12H	22.3	22.9	22.8	23.4	23.8	22.1	22.7	22.6	23.2	23.6
X=8H Y=4H	22.1	22.8	22.6	23.2	23.6	21.9	22.5	22.3	22.9	23.4
6H	22.4	22.9	22.8	23.3	23.8	22.1	22.7	22.6	23.1	23.6
8H	22.5	22.9	22.9	23.4	23.9	22.2	22.7	22.7	23.2	23.7
12H	22.5	22.9	23.0	23.4	23.9	22.3	22.7	22.8	23.2	23.7
X=12H Y=4H	22.1	22.7	22.6	23.1	23.6	21.9	22.4	22.3	22.9	23.3
6H	22.4	22.8	22.8	23.3	23.8	22.1	22.6	22.6	23.1	23.6
8H	22.5	22.9	23.0	23.3	23.9	22.3	22.7	22.8	23.1	23.7
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.6					+0.5/-0.8				
S=1.5H	+0.9/-1.5					+1.5/-2.0				
S=2.0H	+1.9/-2.5					+2.7/-3.0				

Calculate in accordance with CIE Pub.117. The table is revised with 9072Im ($8\log(F/F_0) = 7.7$).

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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	0.64	0.74	0.81	0.86	0.92	0.96	0.99	1.03	1.06	
	0.30		0.58	0.68	0.75	0.80	0.87	0.92	0.95	1.00	1.03	
	0.20		0.53	0.63	0.70	0.75	0.83	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.63	0.72	0.79	0.83	0.89	0.93	0.96	0.99	1.01	
	0.30		0.57	0.67	0.73	0.78	0.85	0.89	0.92	0.96	0.99	
	0.20		0.52	0.62	0.69	0.74	0.81	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.61	0.70	0.76	0.81	0.86	0.90	0.92	0.95	0.97	
	0.30		0.56	0.65	0.72	0.76	0.82	0.87	0.89	0.93	0.95	
	0.20		0.52	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
0.00	0.00	0.00	0.50	0.59	0.65	0.70	0.76	0.80	0.83	0.86	0.89	
Rating:75W 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	0.88	0.71	0.60	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.73	0.61	0.52	0.46	0.37	0.31	0.27	0.21	0.17	
	0.20		0.63	0.53	0.46	0.41	0.34	0.29	0.25	0.20	0.16	
0.50	0.50	0.20	0.84	0.68	0.57	0.49	0.39	0.36	0.27	0.21	0.17	
	0.30		0.71	0.59	0.50	0.44	0.35	0.30	0.25	0.20	0.16	
	0.20		0.62	0.52	0.45	0.40	0.33	0.28	0.24	0.19	0.16	
0.30	0.50	0.20	0.82	0.65	0.54	0.47	0.37	0.30	0.26	0.20	0.16	
	0.30		0.70	0.57	0.49	0.42	0.34	0.28	0.24	0.19	0.16	
	0.20		0.61	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
0.00	0.00	0.00	0.50	0.40	0.34	0.30	0.24	0.20	0.17	0.13	0.11	
Rating:75W 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	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.10	0.13	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	0.12	0.13	0.14	0.15	0.17	0.17	0.19	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.20	
	0.30		0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	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:75W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												