

Report No.:

Test Time: 24.04.2020 11:26

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 200LED 62W Refond 3N 5000K 2x25-90

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 229.0 V

Current: 0.276 A

Power: 62.54 W

Power Factor: 0.991

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 10208.1 lm

Measurement Flux: 10208.1 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.5, 130.9, 135.3, 135.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 103.6, 73.7, 87.3, 87.1

Luminaire Efficacy Rating (LER): 163.28

Central Intensity: 3123.12 cd

Max. Intensity: 5860.4 cd

Pos of Max. Intensity: H270 V22

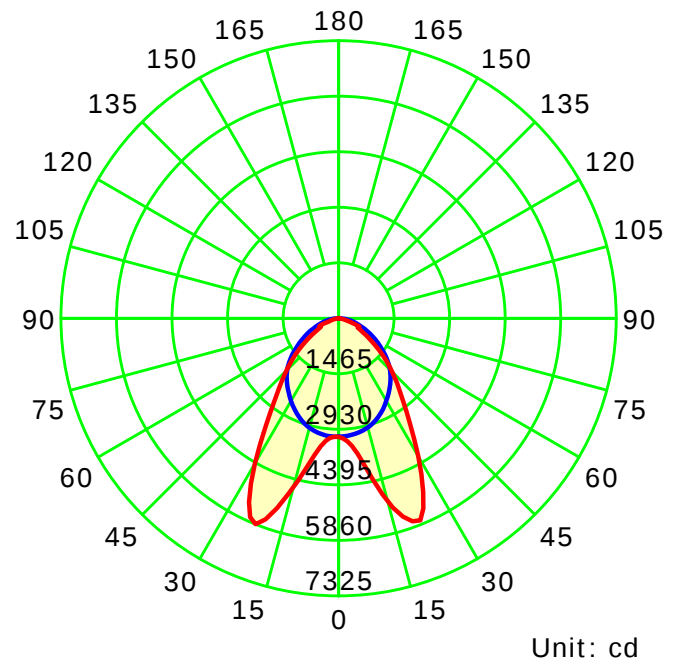
S/MH(C0/C180): 1.20

S/MH(C90/C270): 1.47

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

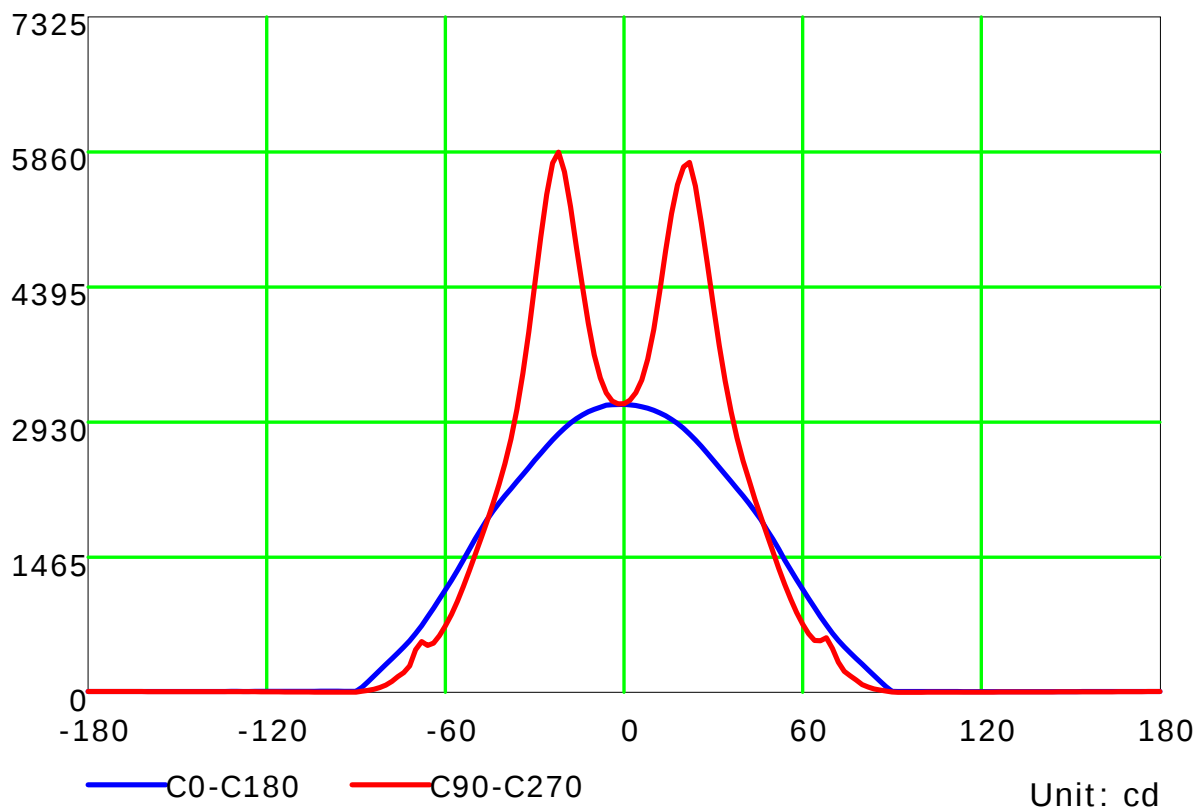
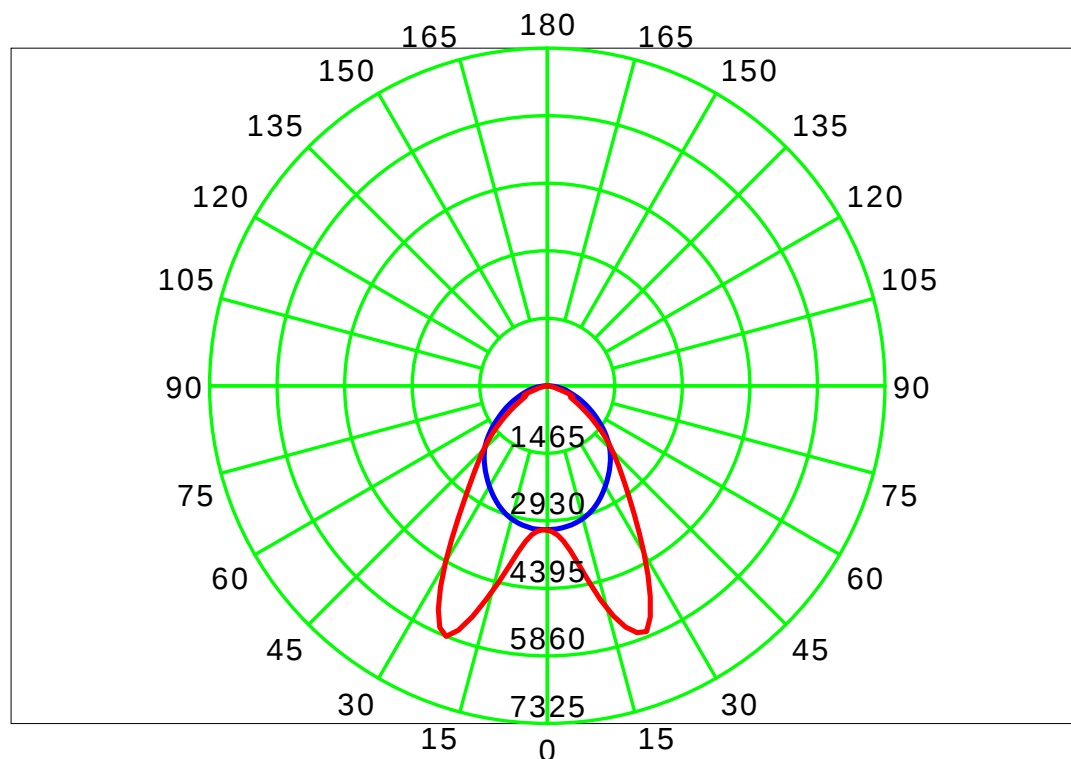
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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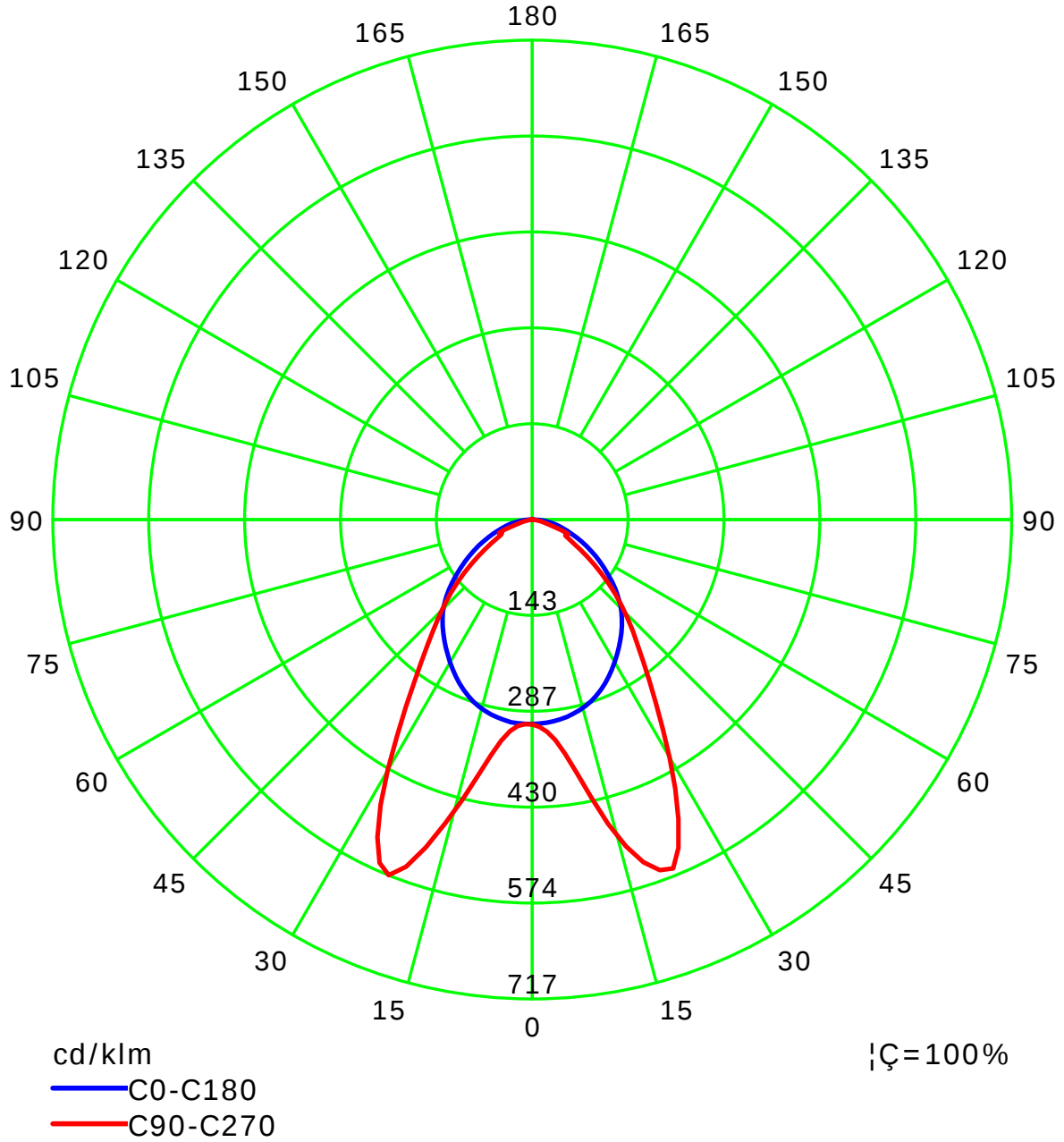
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

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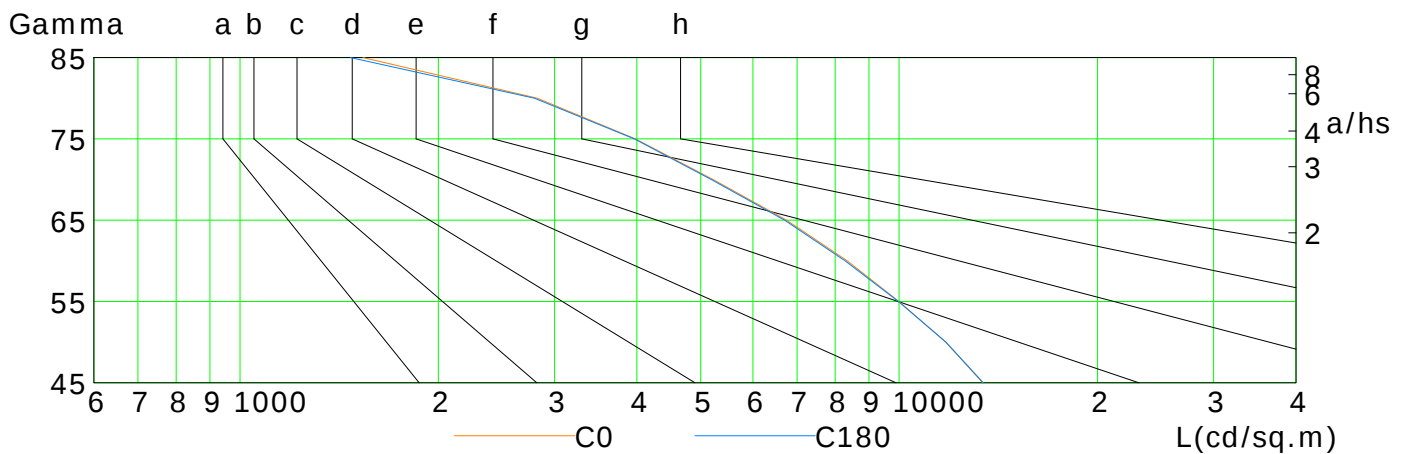
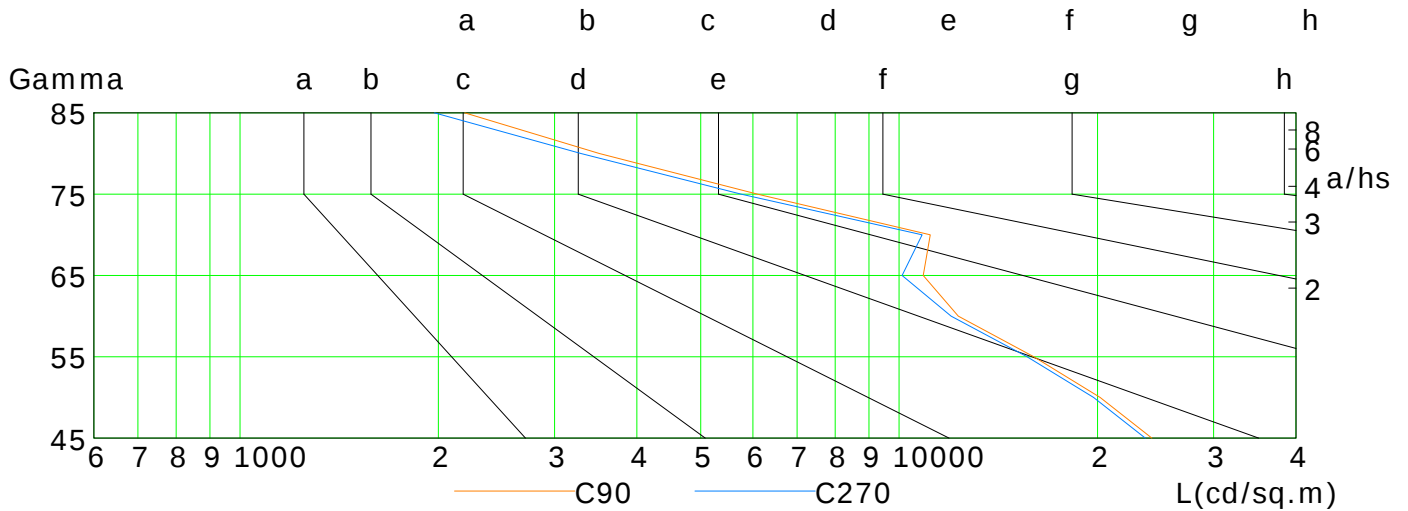
Distance: 12.677 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	13396	11766	9994	8340	6749	5219	3980	2825	1536
C90	24169	20174	16012	12297	10876	11147	6099	3510	2193
C180	13420	11774	9973	8280	6703	5188	3965	2797	1471
C270	23622	19721	15637	11990	10101	10838	5759	3291	1973

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Temperature:

Operator:

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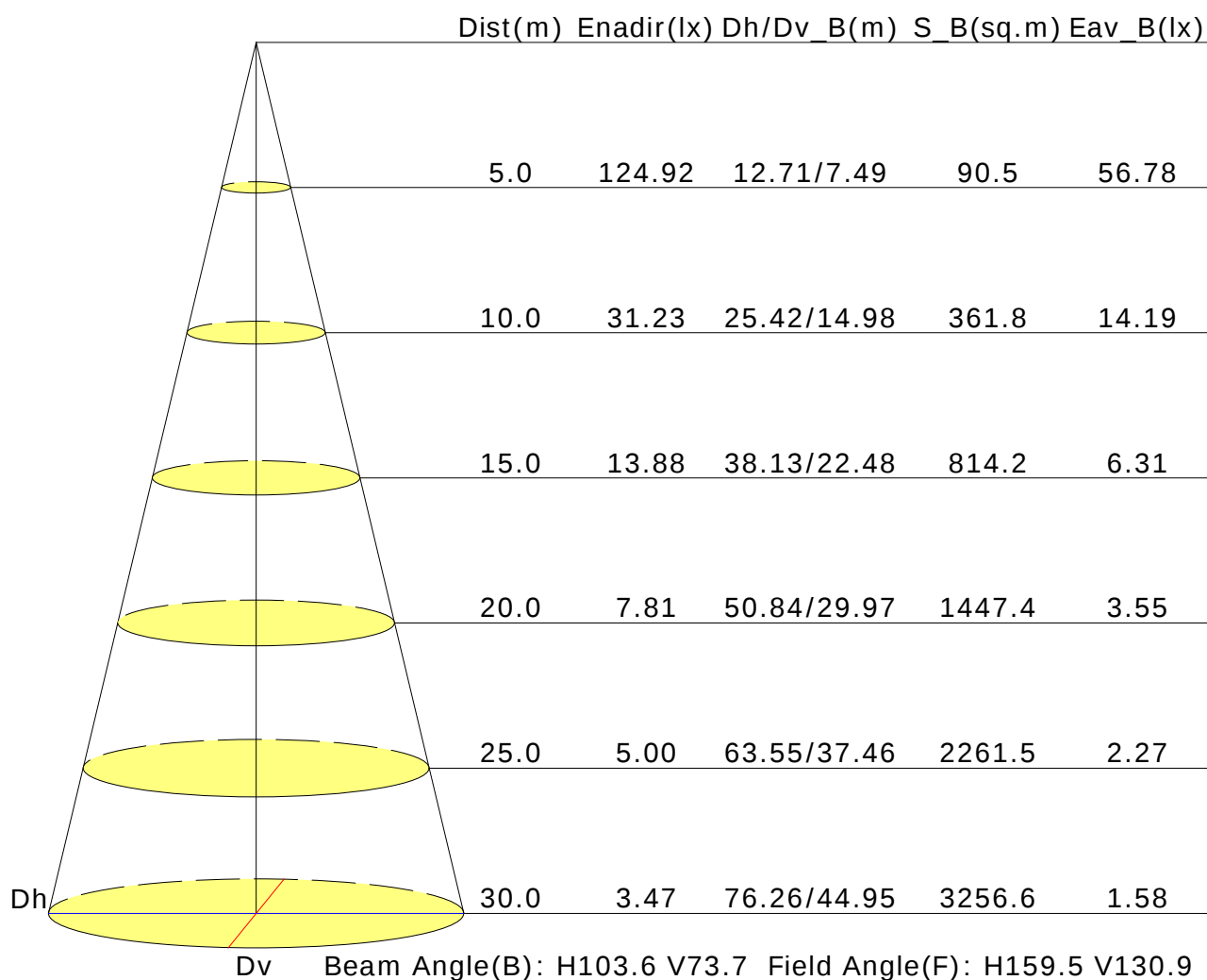
Test Device: LSG-1800B

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	21.5	22.8	21.8	23.0	23.3	20.6	21.8	20.9	22.0	22.3
3H	22.1	23.2	22.4	23.5	23.8	21.3	22.4	21.6	22.7	22.9
4H	22.3	23.3	22.6	23.6	23.9	21.4	22.5	21.7	22.8	23.1
6H	22.4	23.4	22.7	23.7	24.0	21.4	22.4	21.8	22.7	23.0
8H	22.4	23.4	22.8	23.7	24.0	21.4	22.4	21.8	22.7	23.0
12H	22.4	23.3	22.8	23.6	24.0	21.4	22.3	21.8	22.6	23.0
X=4H Y=2H	21.6	22.7	22.0	23.0	23.3	20.8	21.8	21.1	22.1	22.4
3H	22.3	23.2	22.7	23.6	23.9	21.6	22.5	22.0	22.9	23.2
4H	22.6	23.4	23.0	23.8	24.2	21.8	22.6	22.2	23.0	23.4
6H	22.8	23.5	23.3	23.9	24.3	21.9	22.6	22.3	23.0	23.4
8H	22.9	23.5	23.3	23.9	24.4	21.9	22.5	22.3	22.9	23.4
12H	22.9	23.5	23.4	23.9	24.4	21.9	22.4	22.3	22.9	23.3
X=8H Y=4H	22.6	23.3	23.1	23.7	24.1	21.9	22.5	22.3	22.9	23.4
6H	22.9	23.5	23.4	23.9	24.4	22.0	22.5	22.5	23.0	23.4
8H	23.0	23.5	23.5	24.0	24.4	22.0	22.4	22.5	22.9	23.4
12H	23.1	23.5	23.6	24.0	24.5	22.0	22.4	22.5	22.9	23.4
X=12H Y=4H	22.6	23.2	23.1	23.6	24.1	21.9	22.5	22.3	22.9	23.3
6H	22.9	23.4	23.4	23.8	24.3	22.0	22.4	22.5	22.9	23.4
8H	23.0	23.4	23.5	23.9	24.4	22.0	22.4	22.5	22.9	23.4
Variations with the observer position at spacings:										
S=1.0H	+1.0/-0.9					+0.7/-0.8				
S=1.5H	+1.6/-1.8					+1.3/-2.2				
S=2.0H	+2.8/-2.4					+2.8/-2.3				

Calculate in accordance with CIE Pub.117. The table is revised with 10208lm ($8\log(F/F_0) = 8.1$).

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Distance: 12.677 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
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	0.77	0.84	0.88	0.94	0.98	1.01	1.04	1.06	
	0.30		0.63	0.71	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
	0.20		0.59	0.67	0.73	0.78	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	0.70	0.76	0.81	0.87	0.91	0.94	0.98	1.00	
	0.20		0.58	0.66	0.72	0.77	0.84	0.88	0.91	0.95	0.98	
0.30	0.50	0.20	0.67	0.74	0.79	0.83	0.88	0.91	0.94	0.96	0.98	
	0.30		0.62	0.69	0.75	0.79	0.85	0.88	0.91	0.94	0.97	
	0.20		0.58	0.65	0.72	0.76	0.82	0.86	0.89	0.92	0.95	
0.00	0.00	0.00	0.56	0.63	0.69	0.73	0.79	0.82	0.85	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 = 1.50									
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	0.66	0.55	0.48	0.38	0.31	0.27	0.21	0.17	
	0.30		0.66	0.57	0.48	0.42	0.34	0.29	0.25	0.19	0.16	
	0.20		0.57	0.49	0.43	0.38	0.31	0.27	0.23	0.18	0.15	
0.50	0.50	0.20	0.76	0.63	0.53	0.45	0.36	0.33	0.25	0.19	0.16	
	0.30		0.65	0.55	0.47	0.41	0.33	0.27	0.24	0.18	0.15	
	0.20		0.56	0.48	0.42	0.37	0.30	0.25	0.22	0.17	0.14	
0.30	0.50	0.20	0.74	0.60	0.50	0.43	0.34	0.28	0.24	0.18	0.15	
	0.30		0.63	0.53	0.45	0.39	0.31	0.26	0.22	0.17	0.14	
	0.20		0.55	0.47	0.41	0.36	0.29	0.24	0.21	0.17	0.14	
0.00	0.00	0.00	0.43	0.37	0.31	0.26	0.21	0.17	0.15	0.12	0.09	
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 = 1.50									
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	0.17	0.18	0.19	0.20	0.20	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	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.14	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	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	0.14	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rating:63W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												