

Report No.:

Test Time: 25.03.2020 21:47

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 60LED 32W 5000K 96x55 gr.

Number of Lamps: 1

Luminous Width (mm): 75

Voltage: 229.4 V

Power: 31.96 W

Luminous Length (mm): 1500

Luminous Height (mm): 60

Current: 0.145 A

Power Factor: 0.958

Photometric Results

CIE Class: Direct

Measurement Flux: 4325 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 133.6, 113.3, 112.2, 112.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 94.6, 52.2, 61.2, 61.3

Luminaire Efficacy Rating (LER): 135.37

Max. Intensity: 3086.65 cd

S/MH(C0/C180): 1.39

Total Rated Lamp Lumens: 4325.0 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 3078.11 cd

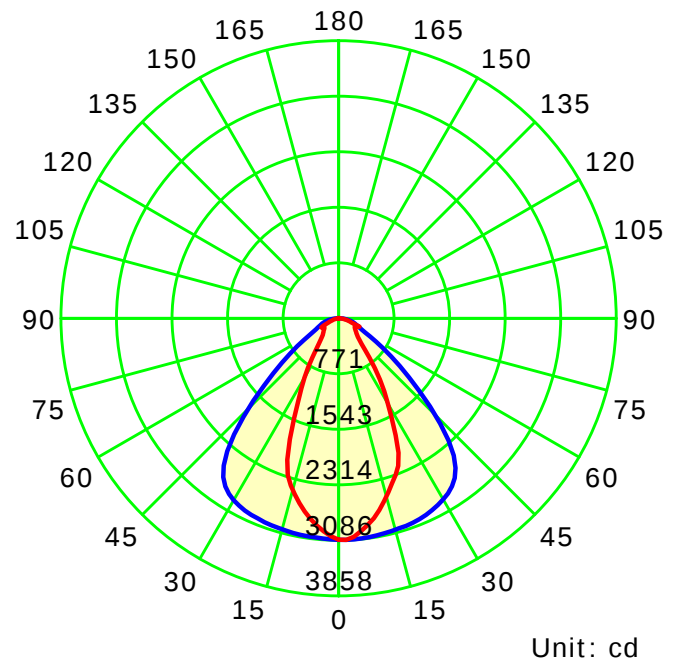
Pos of Max. Intensity: H45 V2

S/MH(C90/C270): 0.83

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— 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

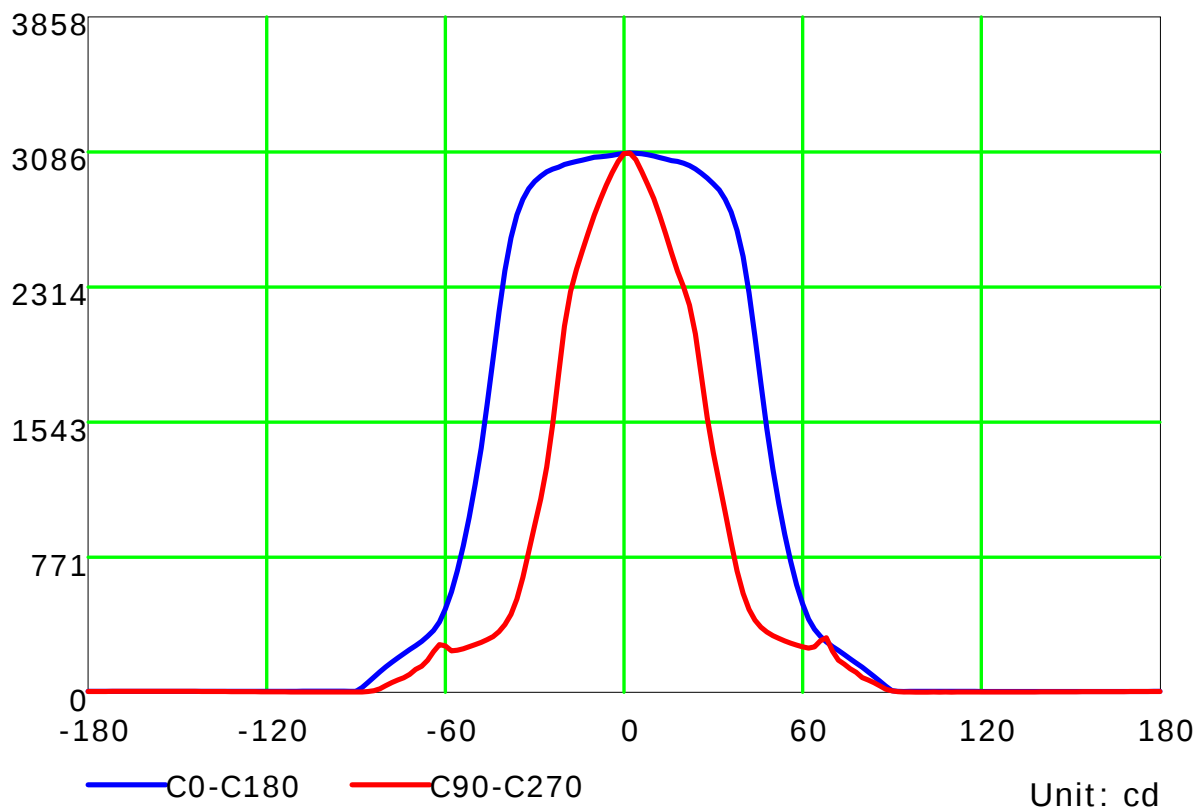
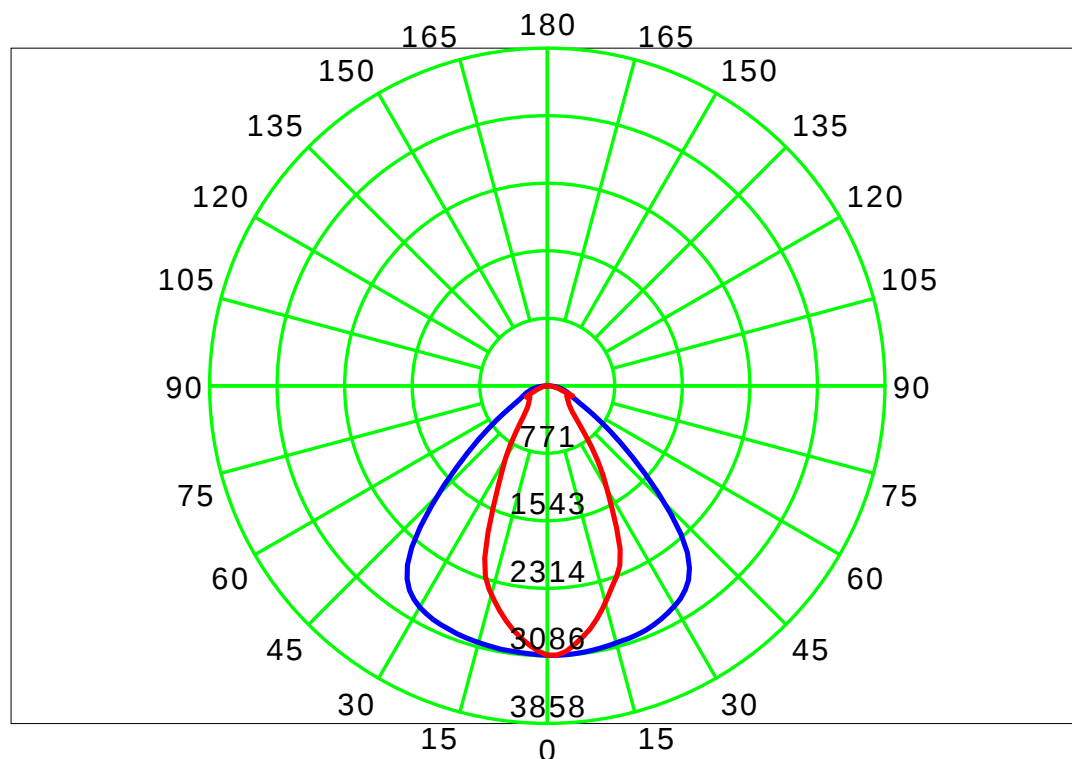
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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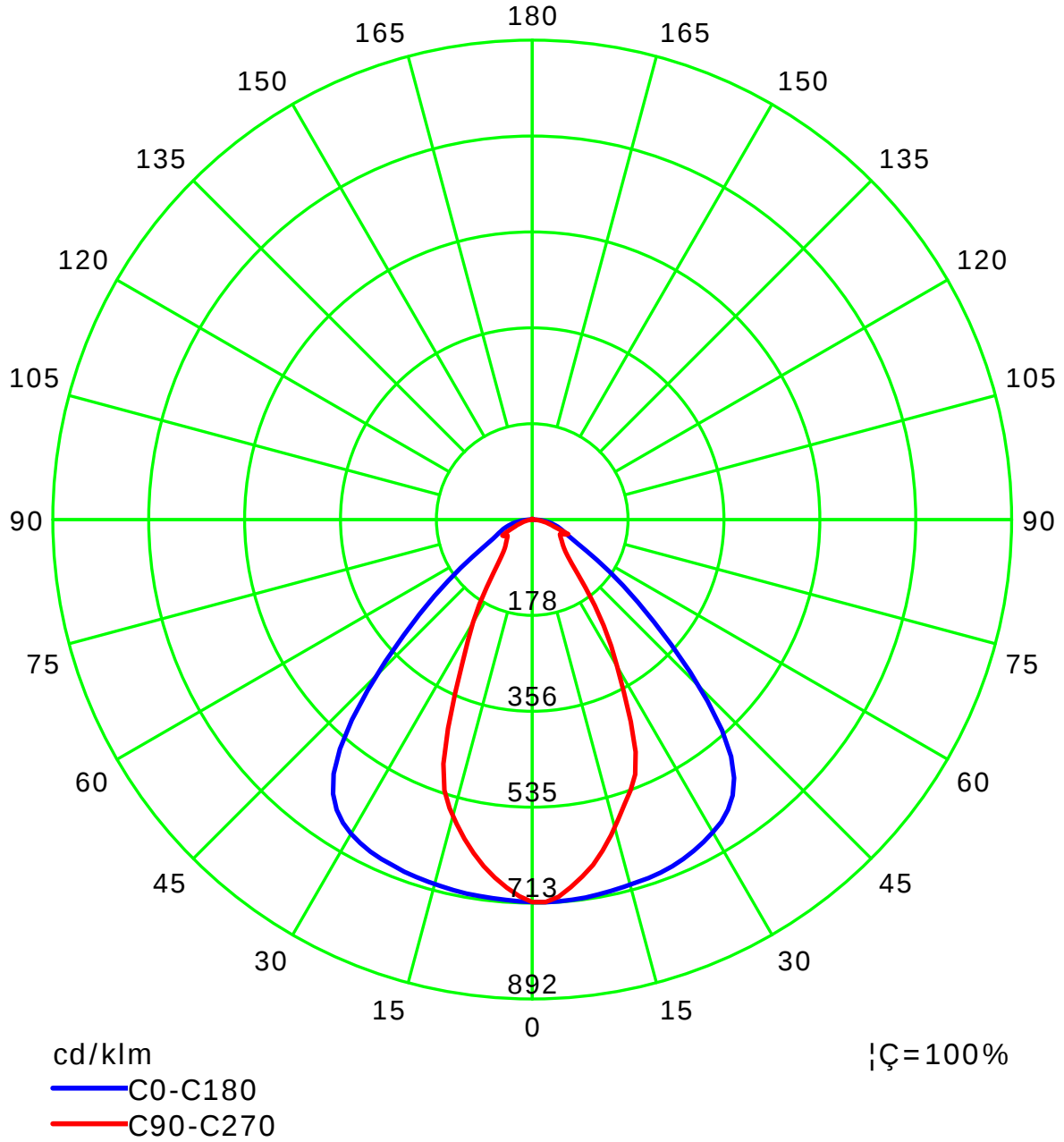
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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Test Device: LSG-1800B

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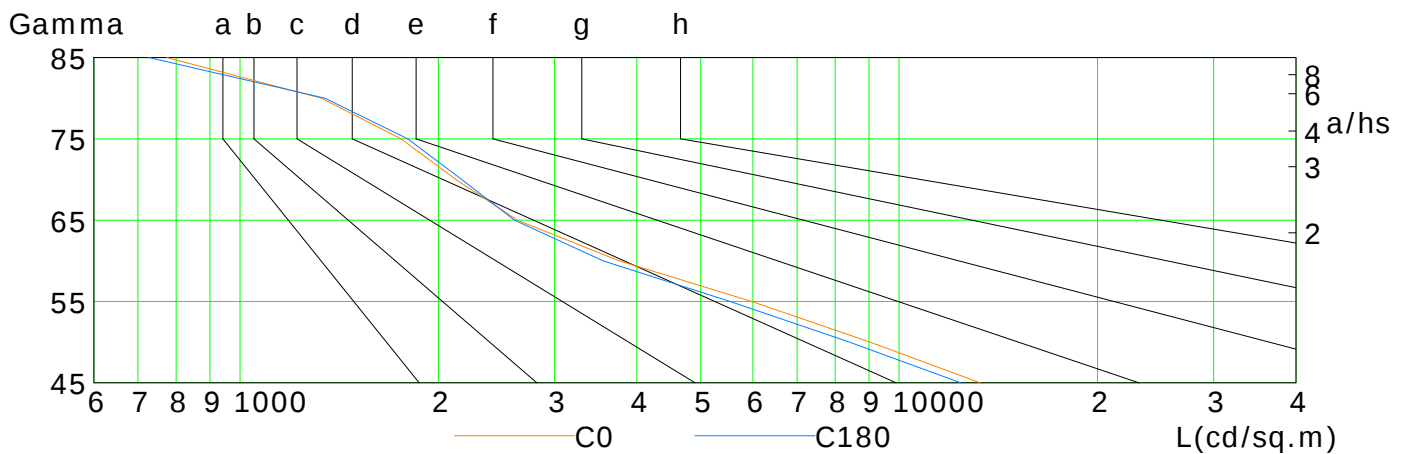
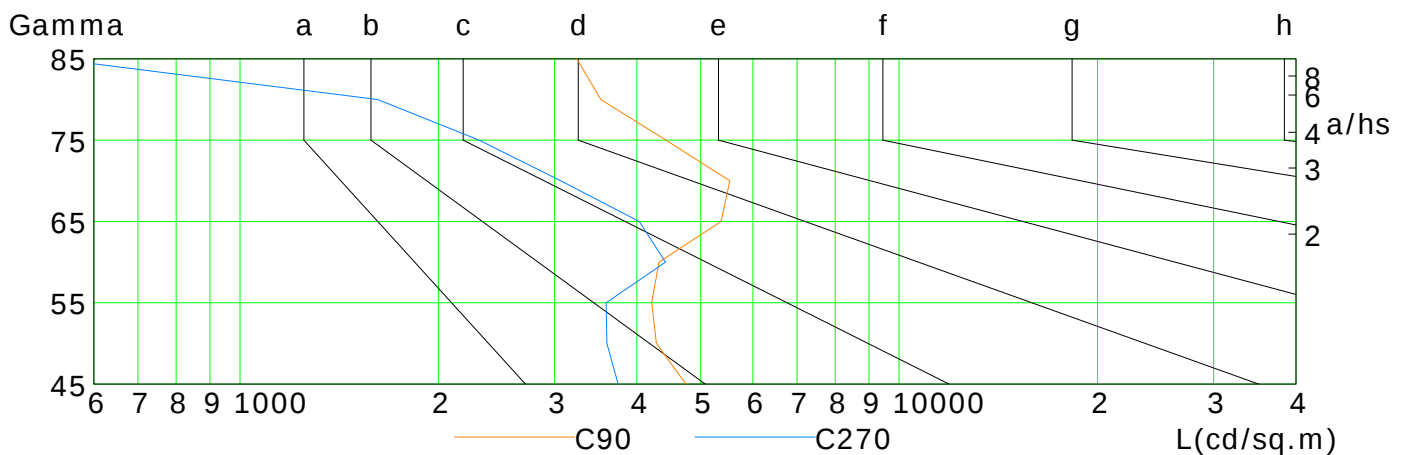
Humidity:

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	13264	9035	5976	3762	2635	2126	1756	1329	774
C90	4748	4283	4213	4320	5368	5535	4429	3527	3244
C180	12398	8405	5542	3555	2609	2169	1797	1346	728
C270	3747	3603	3593	4420	4033	3067	2306	1618	523

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Temperature:

Operator:

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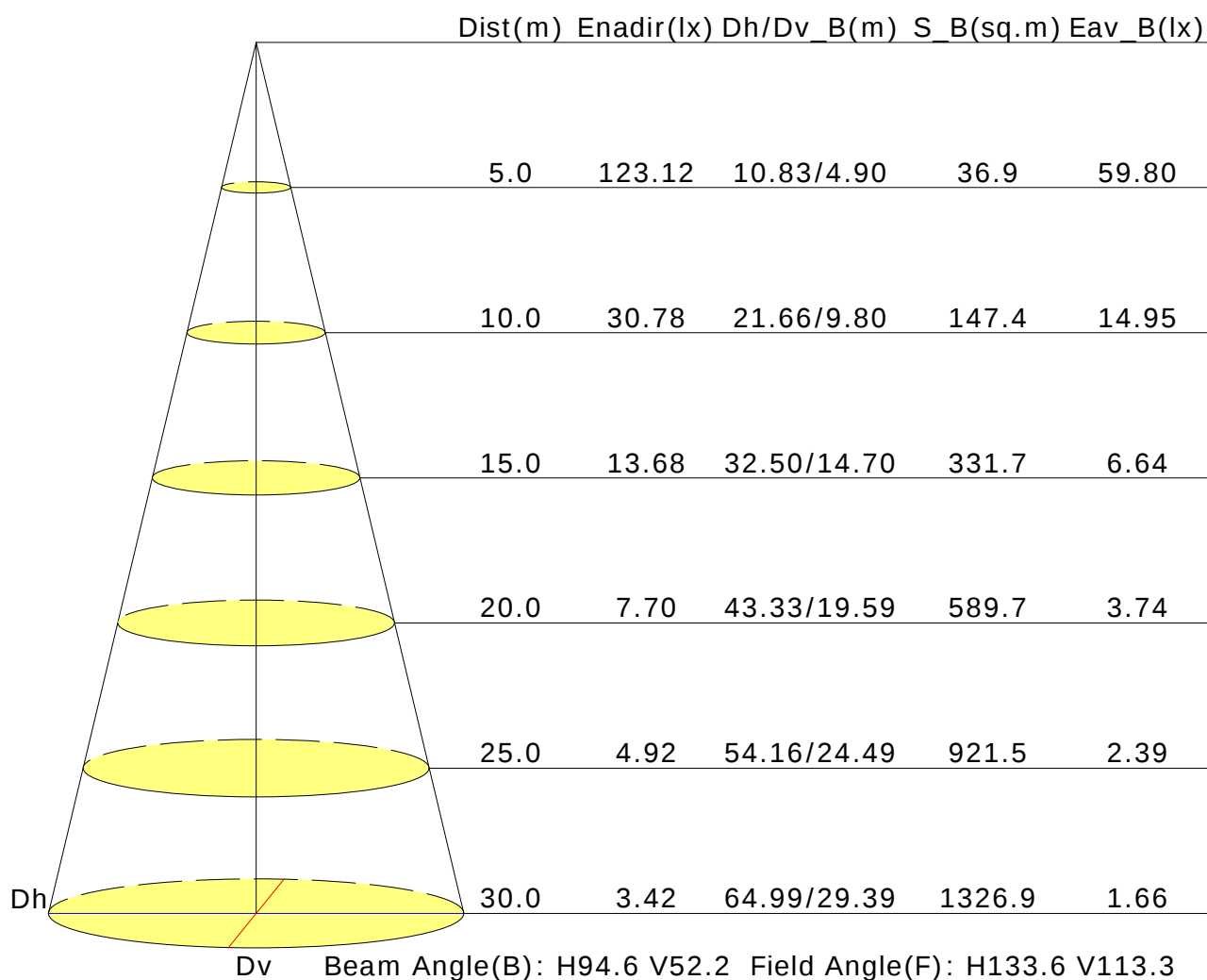
Test Device: LSG-1800B

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	17.7	18.9	18.0	19.1	19.3	14.1	15.2	14.4	15.5	15.7
3H	18.2	19.3	18.6	19.5	19.8	16.0	17.1	16.4	17.3	17.6
4H	18.5	19.4	18.8	19.7	20.0	16.6	17.5	16.9	17.8	18.1
6H	18.7	19.6	19.0	19.9	20.2	16.9	17.8	17.3	18.1	18.5
8H	18.7	19.6	19.1	19.9	20.3	17.0	17.9	17.4	18.2	18.6
12H	18.8	19.6	19.2	19.9	20.3	17.1	17.9	17.5	18.3	18.6
X=4H Y=2H	17.8	18.7	18.1	19.0	19.3	14.6	15.6	15.0	15.9	16.2
3H	18.4	19.3	18.8	19.6	19.9	16.7	17.5	17.1	17.8	18.2
4H	18.8	19.5	19.2	19.9	20.3	17.3	18.0	17.7	18.4	18.8
6H	19.1	19.8	19.6	20.2	20.6	17.7	18.4	18.2	18.8	19.2
8H	19.2	19.8	19.7	20.2	20.7	17.9	18.5	18.3	18.9	19.3
12H	19.3	19.8	19.8	20.3	20.7	18.0	18.5	18.4	18.9	19.4
X=8H Y=4H	18.9	19.5	19.3	19.9	20.3	17.5	18.1	17.9	18.5	18.9
6H	19.3	19.8	19.8	20.2	20.7	18.0	18.5	18.5	18.9	19.4
8H	19.5	19.9	20.0	20.4	20.9	18.2	18.6	18.6	19.1	19.5
12H	19.6	20.0	20.1	20.4	20.9	18.3	18.7	18.8	19.1	19.7
X=12H Y=4H	18.9	19.4	19.3	19.8	20.3	17.5	18.0	17.9	18.4	18.9
6H	19.3	19.7	19.8	20.2	20.7	18.0	18.4	18.5	18.9	19.4
8H	19.5	19.9	20.0	20.3	20.9	18.2	18.6	18.7	19.1	19.6
Variations with the observer position at spacings:										
S=1.0H	+1.2/-1.1					+0.4/-0.4				
S=1.5H	+2.8/-1.9					+0.6/-0.7				
S=2.0H	+4.4/-2.5					+0.8/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4325lm ($8\log(F/F_0) = 5.1$).

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Distance: 12.677 m

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	0.79	0.84	0.89	0.94	0.98	1.01	1.04	1.07	
	0.30		0.64	0.73	0.79	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	0.69	0.77	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	0.98	1.00	
	0.20		0.59	0.67	0.73	0.77	0.84	0.88	0.91	0.95	0.98	
0.30	0.50	0.20	0.67	0.75	0.80	0.83	0.88	0.92	0.94	0.97	0.98	
	0.30		0.62	0.70	0.76	0.80	0.85	0.89	0.91	0.94	0.97	
	0.20		0.58	0.67	0.72	0.76	0.82	0.86	0.89	0.93	0.95	
0.00	0.00	0.00	0.57	0.64	0.70	0.73	0.79	0.82	0.85	0.88	0.90	
Rating:32W 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		0.66	0.56	0.48	0.42	0.34	0.29	0.25	0.20	0.16	
	0.20		0.57	0.49	0.43	0.38	0.31	0.27	0.23	0.19	0.16	
0.50	0.50	0.20	0.76	0.62	0.52	0.46	0.36	0.33	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	0.40	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:32W 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	0.15	0.17	0.18	0.18	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	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	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		0.06	0.08	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	0.19	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		0.06	0.08	0.09	0.10	0.12	0.13	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:32W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												