

Report No.: 1

Test Time: 26.03.2020 00:24

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 105LED 46W 3000K 96x55 gr

Luminous Length (mm): 1500

Luminous Height (mm): 60

Current: 0.203 A

Power Factor: 0.973

Luminous Width (mm): 75

Voltage: 228.7 V

Power: 45.28 W

Photometric Results

CIE Class: Direct

Measurement Flux: 6174.9 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 133.8, 112.9, 112.6, 113.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 94.3, 53.2, 61.7, 62.5

Luminaire Efficacy Rating (LER): 136.42

Max. Intensity: 4372.07 cd

S/MH(C0/C180): 1.39

Total Rated Lamp Lumens: 6174.9 lm

Efficiency: 100%

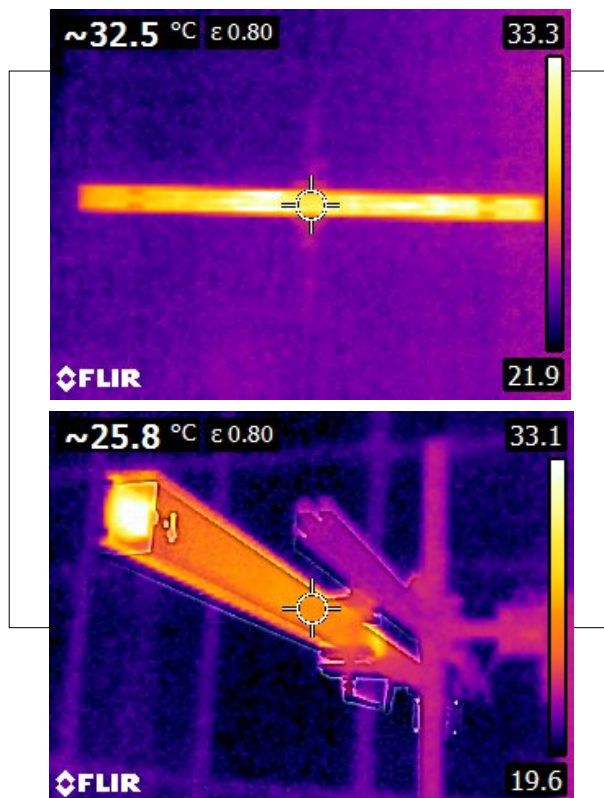
Upward Ratio: 1%

Central Intensity: 4367.03 cd

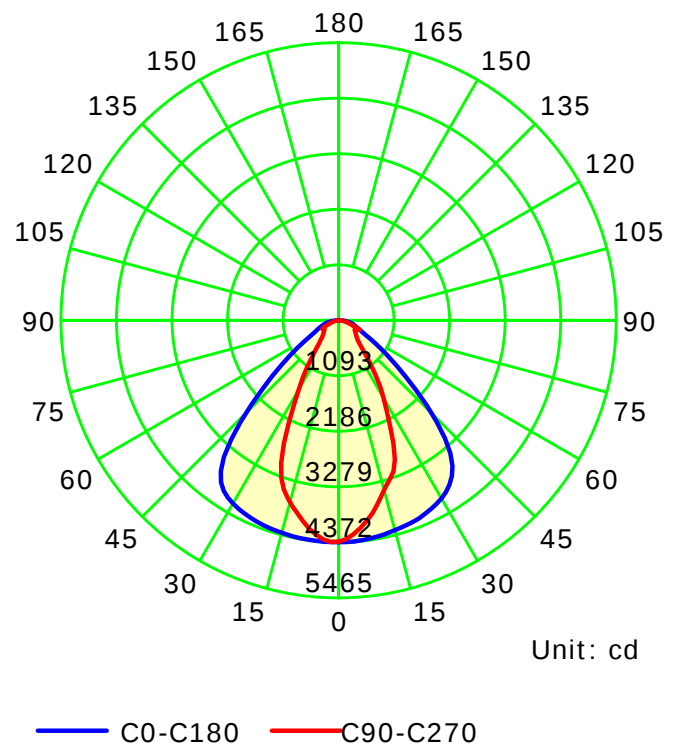
Pos of Max. Intensity: H225 V2

S/MH(C90/C270): 0.85

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

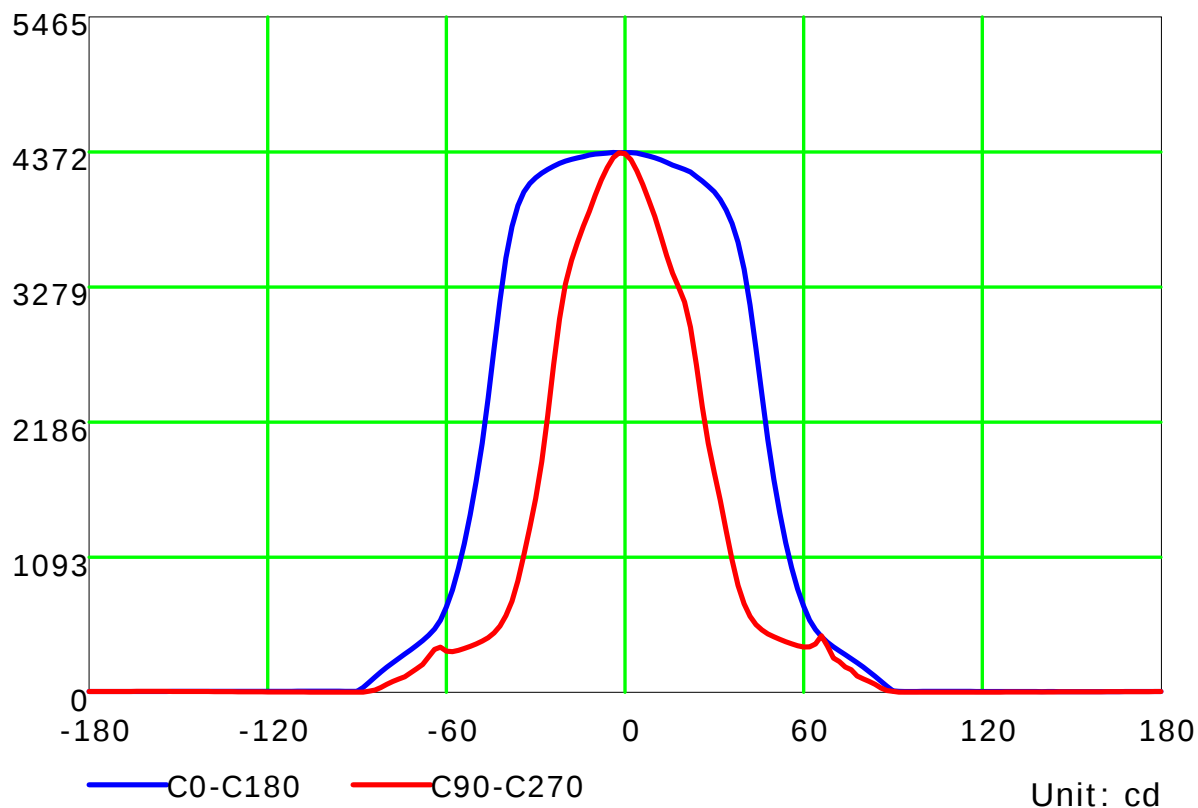
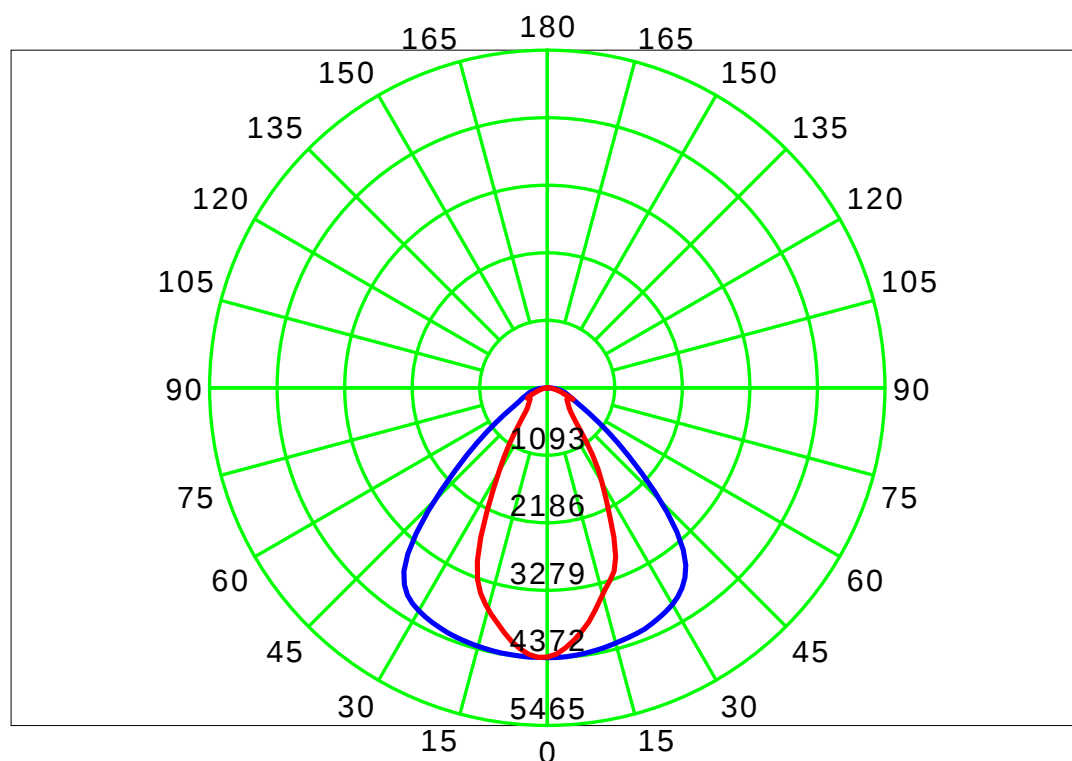
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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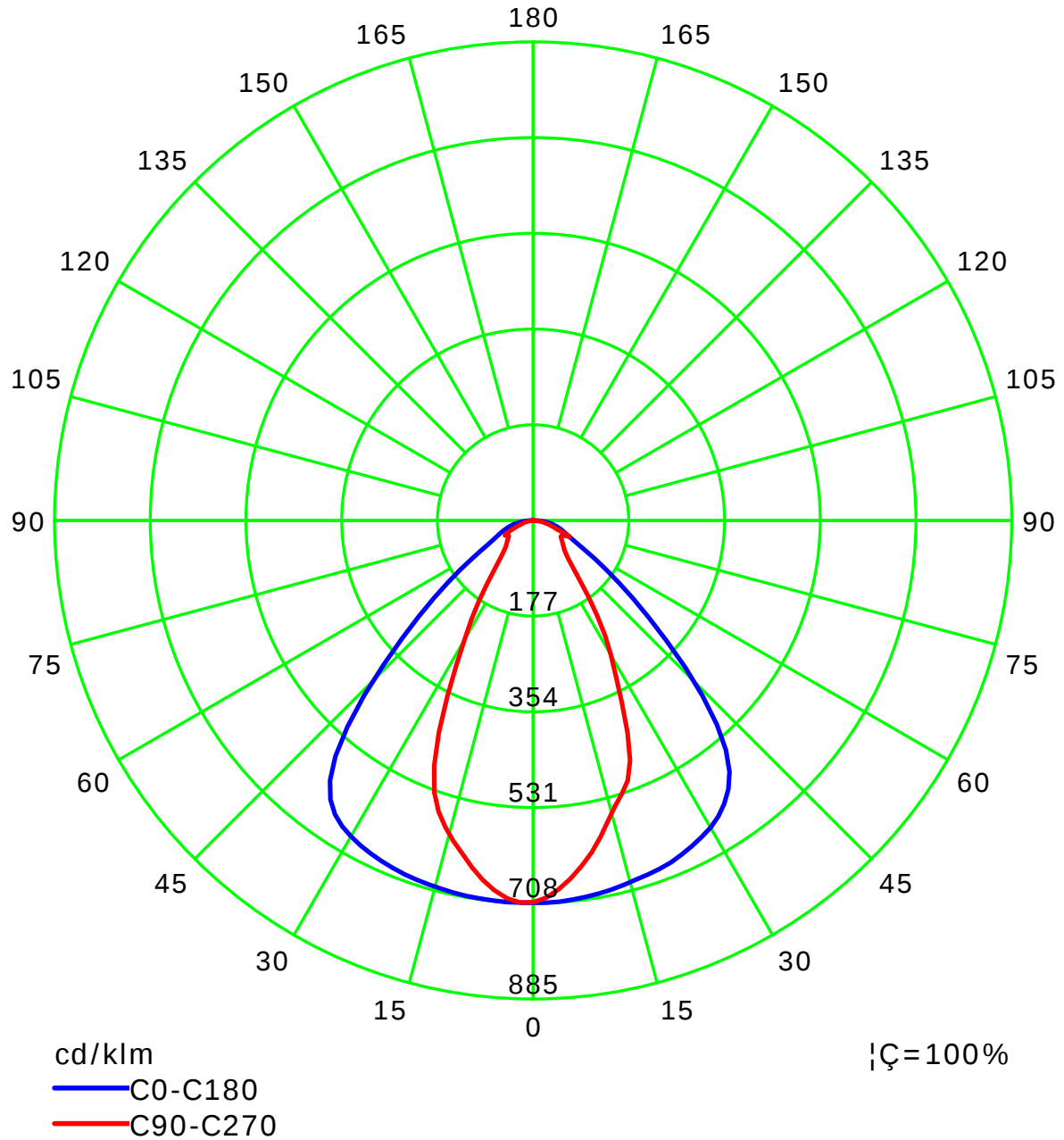
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

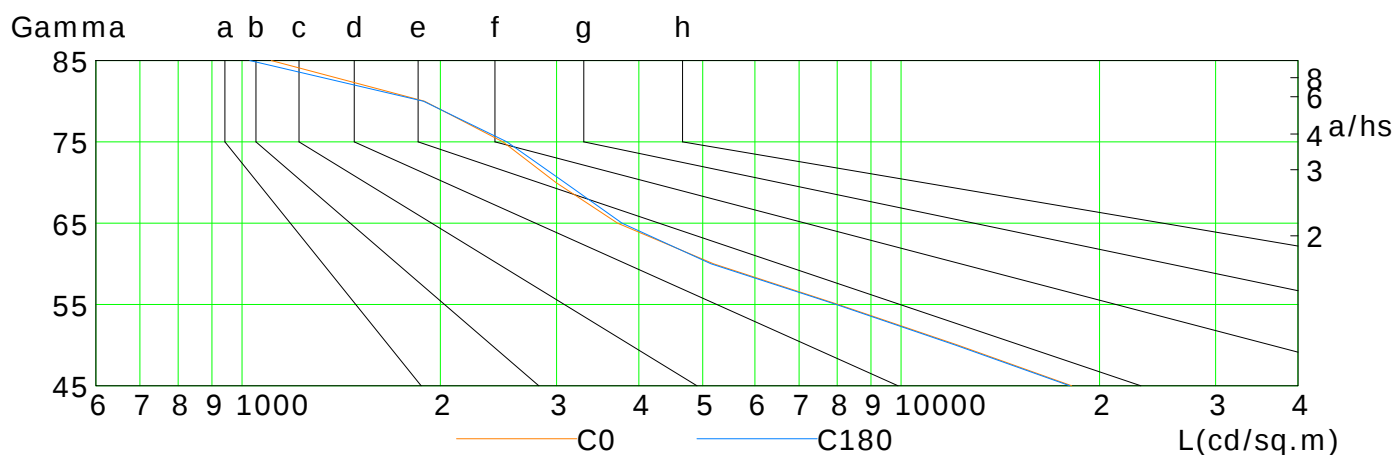
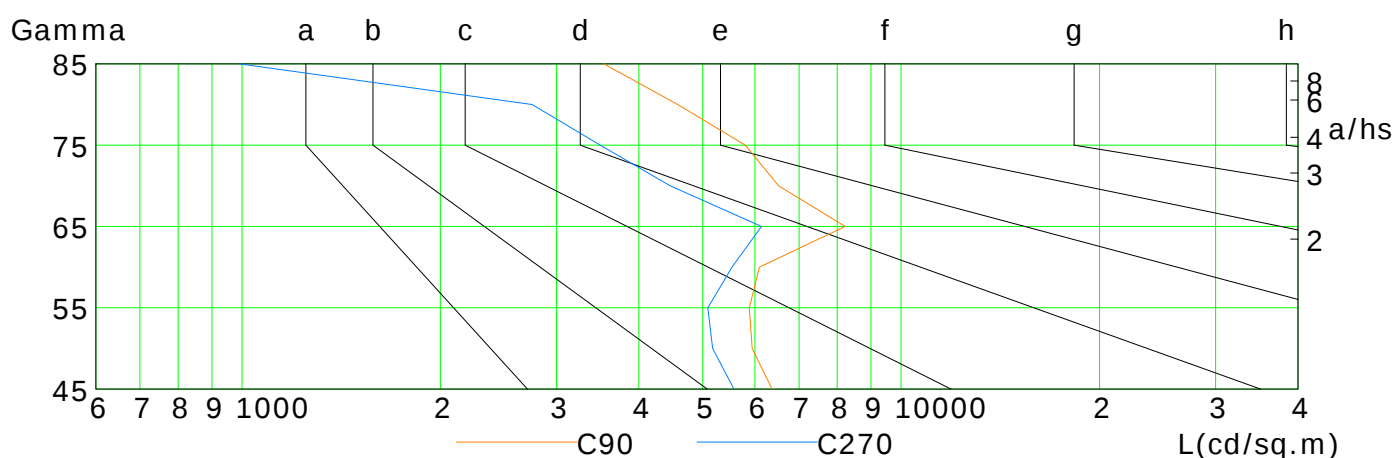
Luminous Intensity Distribution Curve(cd / klm)



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	18142	12192	8024	5193	3714	2995	2487	1892	1108
C90	6369	5943	5884	6094	8223	6518	5802	4581	3539
C180	18027	12091	7972	5148	3773	3087	2523	1884	1028
C270	5576	5178	5092	5539	6138	4462	3496	2755	991

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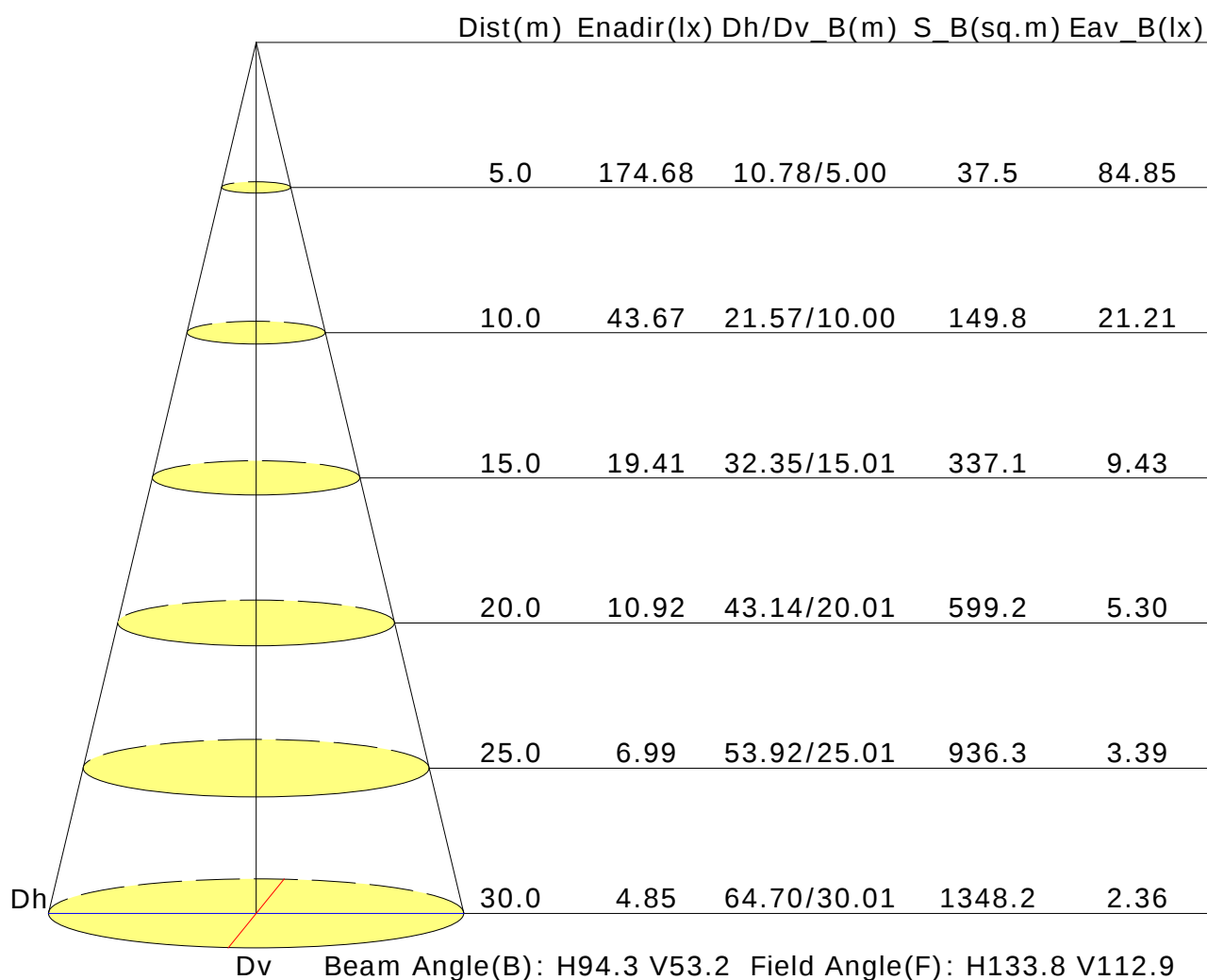
Test Device: LSG-1800B

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	18.8	20.0	19.1	20.2	20.4	15.2	16.3	15.5	16.6	16.8
3H	19.3	20.4	19.7	20.6	20.9	17.1	18.1	17.4	18.4	18.7
4H	19.6	20.6	19.9	20.8	21.1	17.6	18.6	18.0	18.9	19.2
6H	19.8	20.7	20.2	21.0	21.3	17.9	18.8	18.3	19.2	19.5
8H	19.9	20.7	20.2	21.1	21.4	18.0	18.9	18.4	19.2	19.6
12H	19.9	20.7	20.3	21.1	21.4	18.1	18.9	18.5	19.2	19.6
X=4H Y=2H	18.9	19.8	19.2	20.1	20.4	15.7	16.7	16.1	17.0	17.3
3H	19.6	20.4	19.9	20.7	21.1	17.7	18.6	18.1	18.9	19.2
4H	19.9	20.7	20.3	21.0	21.4	18.3	19.1	18.7	19.4	19.8
6H	20.3	20.9	20.7	21.3	21.7	18.7	19.4	19.2	19.8	20.2
8H	20.4	21.0	20.8	21.4	21.8	18.8	19.4	19.3	19.9	20.3
12H	20.4	21.0	20.9	21.4	21.9	18.9	19.4	19.4	19.9	20.3
X=8H Y=4H	20.0	20.6	20.4	21.0	21.4	18.5	19.1	18.9	19.5	19.9
6H	20.4	20.9	20.9	21.4	21.8	19.0	19.5	19.5	19.9	20.4
8H	20.6	21.0	21.1	21.5	22.0	19.1	19.6	19.6	20.0	20.5
12H	20.7	21.1	21.2	21.6	22.1	19.2	19.6	19.7	20.1	20.6
X=12H Y=4H	20.0	20.5	20.4	21.0	21.4	18.5	19.0	19.0	19.5	19.9
6H	20.4	20.9	20.9	21.3	21.8	19.0	19.4	19.5	19.9	20.4
8H	20.6	21.0	21.1	21.5	22.0	19.2	19.6	19.7	20.0	20.5
Variations with the observer position at spacings:										
S=1.0H	+1.1/-1.0					+0.3/-0.4				
S=1.5H	+2.8/-1.7					+1.1/-0.7				
S=2.0H	+4.3/-2.3					+1.4/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 6175lm ($8\log(F/F_0) = 6.3$).

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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	0.85	0.89	0.95	0.98	1.01	1.05	1.07	
	0.30		0.64	0.73	0.79	0.83	0.90	0.94	0.97	1.01	1.04	
	0.20		0.59	0.68	0.74	0.79	0.86	0.90	0.94	0.98	1.02	
0.50	0.50	0.20	0.69	0.77	0.82	0.86	0.91	0.95	0.97	1.01	1.03	
	0.30		0.63	0.72	0.77	0.81	0.87	0.91	0.94	0.98	1.00	
	0.20		0.59	0.67	0.73	0.78	0.84	0.88	0.91	0.96	0.98	
0.30	0.50	0.20	0.67	0.75	0.80	0.84	0.89	0.92	0.94	0.97	0.99	
	0.30		0.62	0.70	0.76	0.80	0.85	0.89	0.91	0.95	0.97	
	0.20		0.59	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	0.74	0.79	0.82	0.85	0.88	0.90	
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 = 1.00									
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	0.15	
0.50	0.50	0.20	0.76	0.62	0.52	0.45	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	0.14	
	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	0.17	0.15	0.12	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 = 1.00									
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	0.21	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	0.08	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	0.07	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												