

Report No.:

Test Time: 17.04.2020 19:15

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 2x96LED 0,45A 45W 4000K prozrachnoe

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 229.0 V

Current: 0.198 A

Power: 44.70 W

Power Factor: 0.982

Photometric Results

CIE Class: Direct

Measurement Flux: 6270.2 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 6270.2 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.4, 117.2, 132.8, 133.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.7, 108.6, 111.8, 112.4

Luminaire Efficacy Rating (LER): 140.32

Central Intensity: 2418.34 cd

Max. Intensity: 2424.38 cd

Pos of Max. Intensity: H90 V2

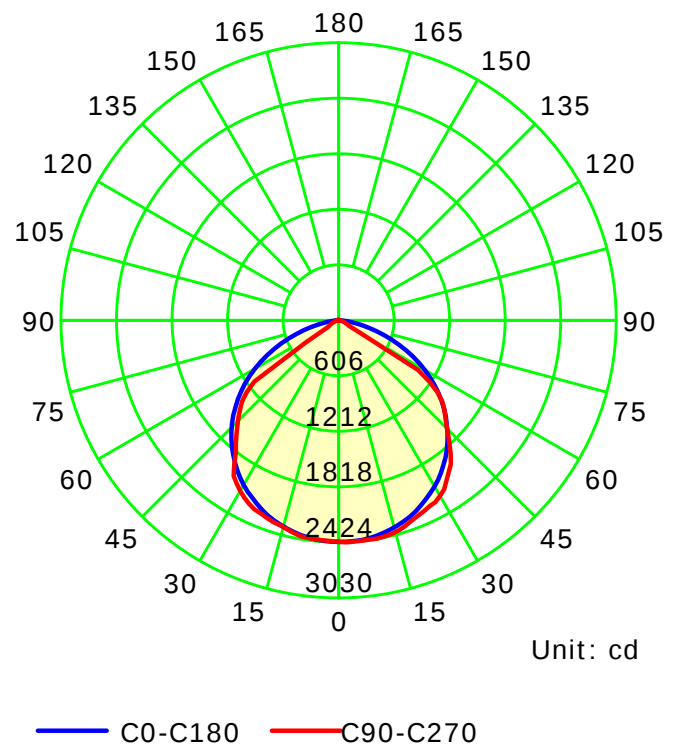
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.33

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

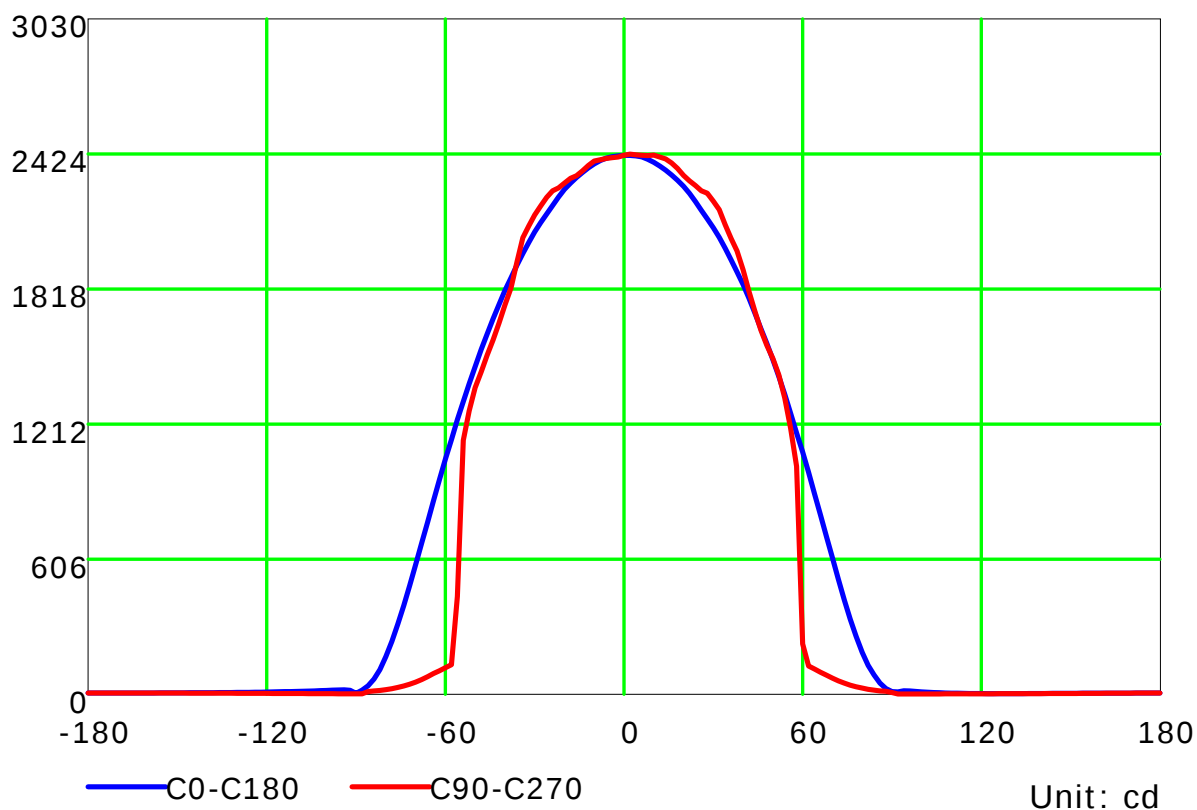
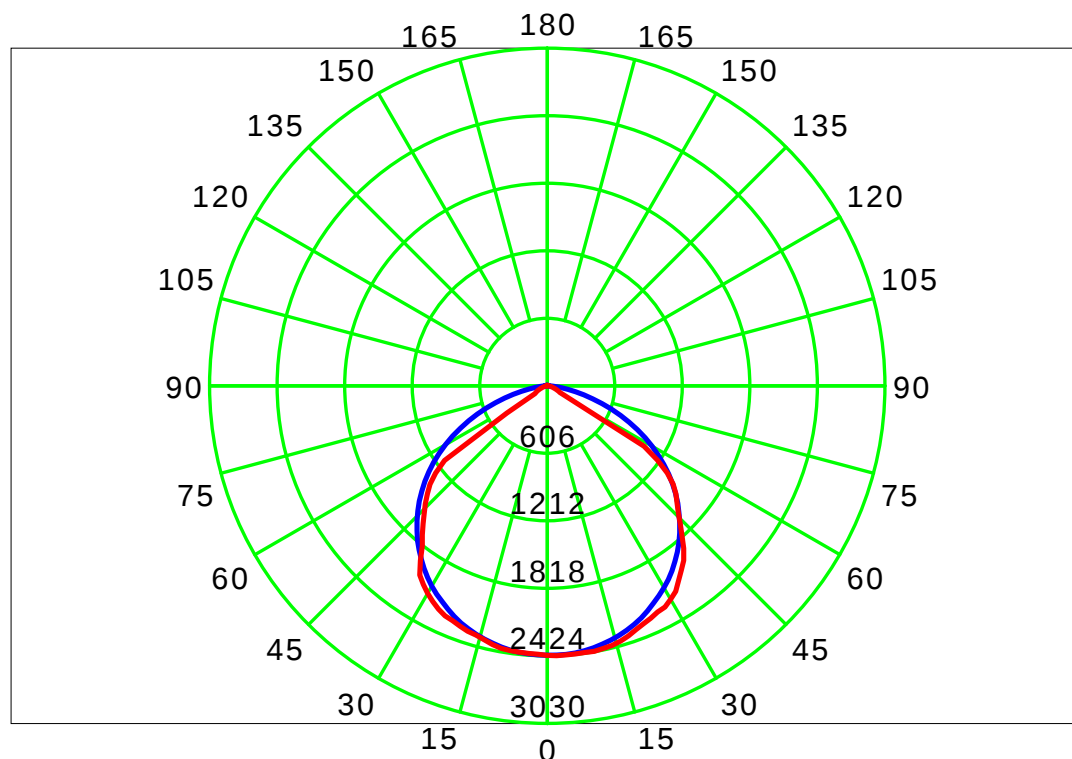
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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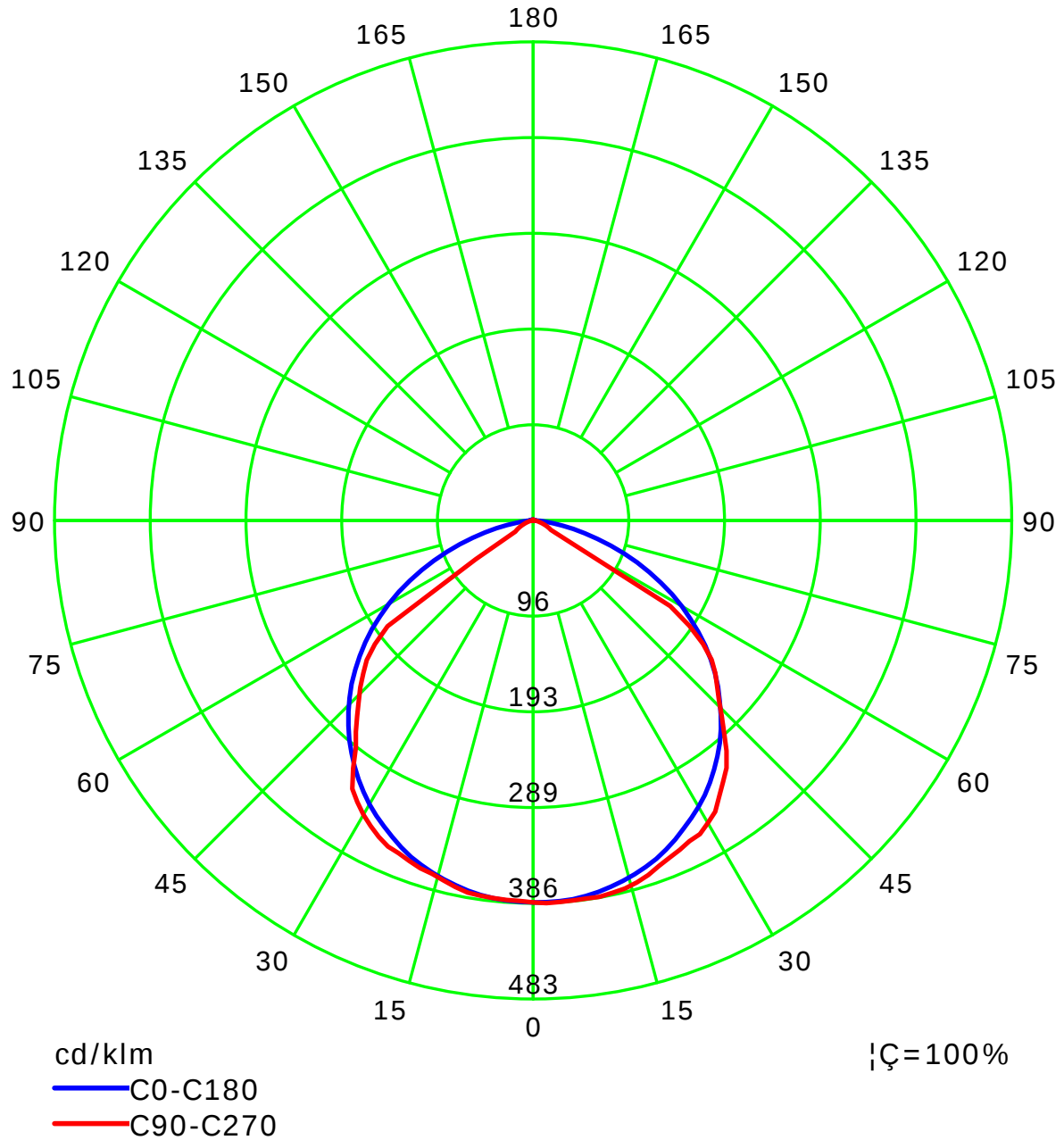
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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Test Device: LSG-1800B

Distance: 12.677 m

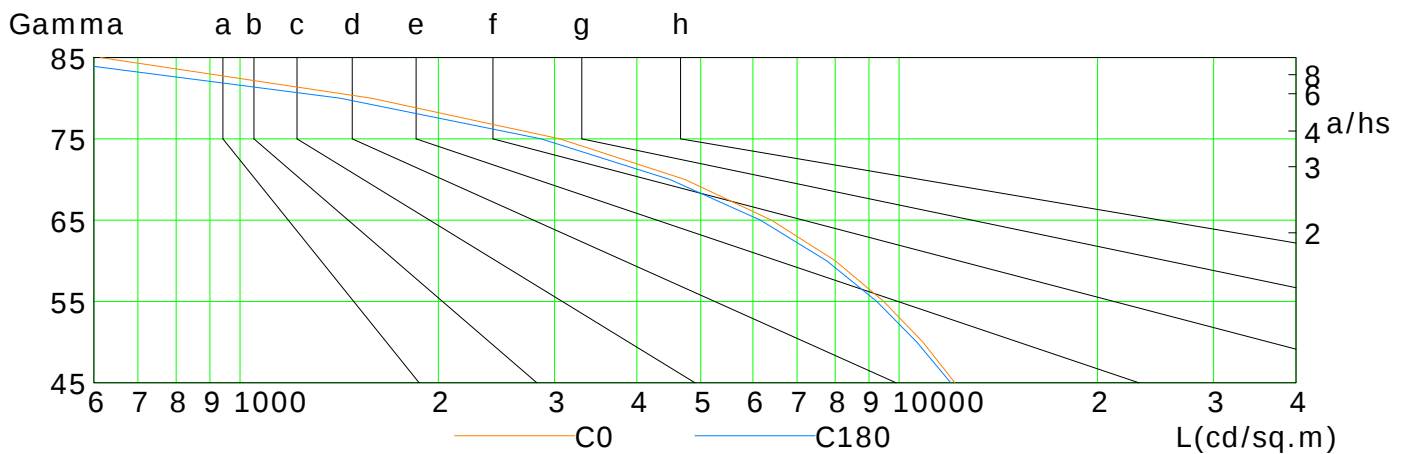
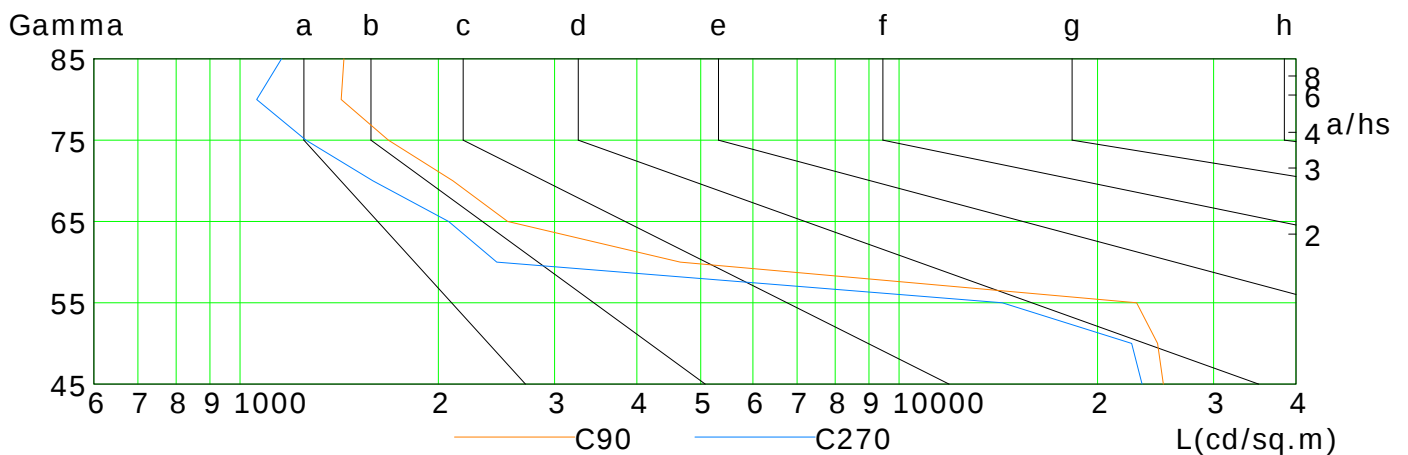
Humidity:

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	12152	10863	9475	8002	6403	4734	3056	1582	614
C90	25168	24673	22919	4656	2547	2103	1679	1424	1438
C180	11974	10635	9251	7763	6161	4490	2863	1419	475
C270	23361	22532	14338	2452	2072	1591	1259	1060	1156

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Operator:

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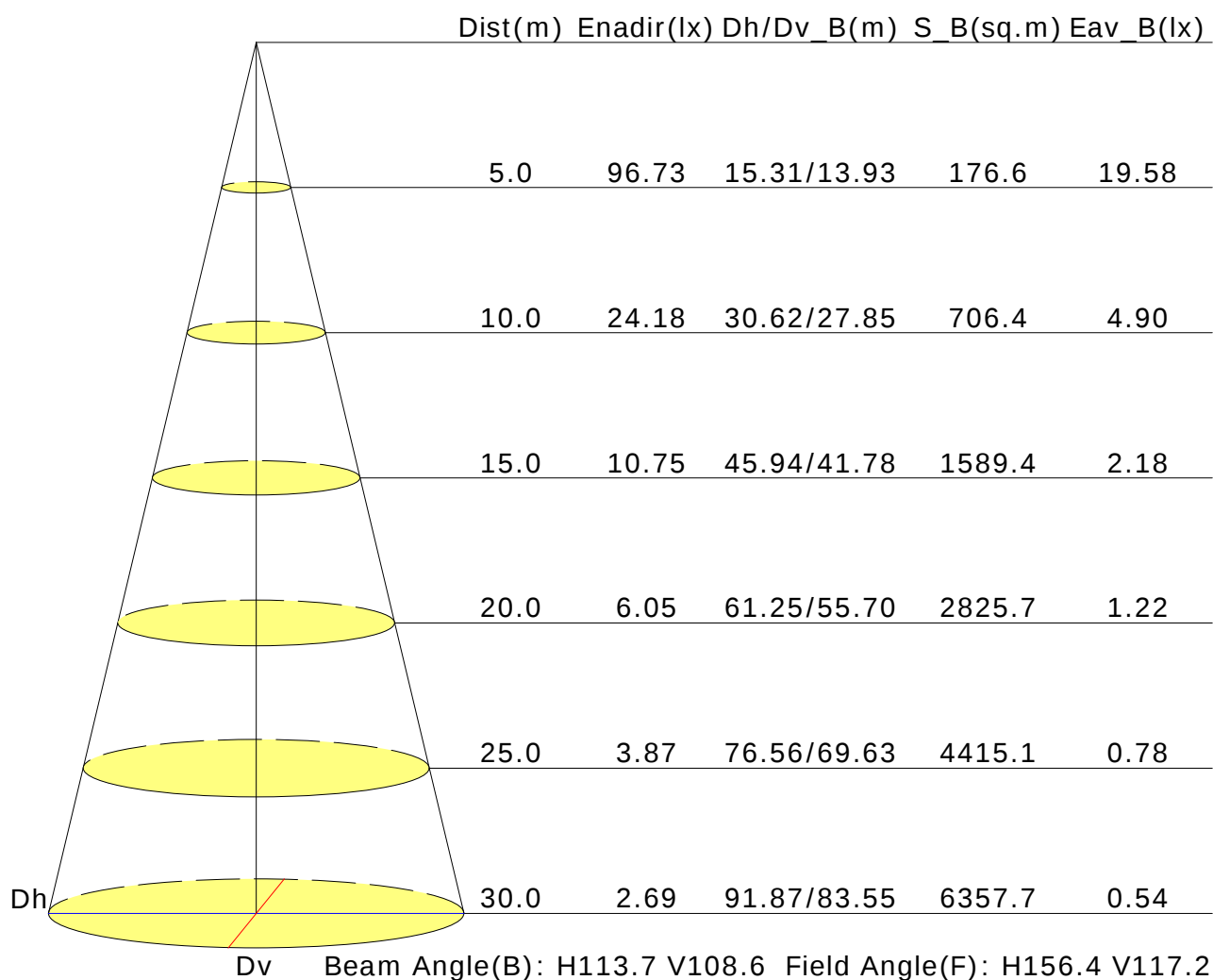
Test Device: LSG-1800B

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	21.1	22.4	21.4	22.6	22.9	21.0	22.3	21.3	22.5	22.8
3H	22.0	23.1	22.3	23.4	23.7	20.9	22.0	21.2	22.3	22.6
4H	22.2	23.3	22.5	23.6	23.9	20.8	21.9	21.2	22.2	22.5
6H	22.2	23.2	22.6	23.5	23.9	20.7	21.8	21.1	22.1	22.4
8H	22.2	23.2	22.6	23.5	23.8	20.7	21.7	21.1	22.0	22.3
12H	22.2	23.1	22.6	23.4	23.8	20.7	21.6	21.1	21.9	22.3
X=4H Y=2H	21.4	22.5	21.8	22.8	23.1	21.3	22.4	21.6	22.6	23.0
3H	22.3	23.3	22.7	23.6	23.9	21.2	22.1	21.5	22.4	22.8
4H	22.6	23.4	23.0	23.8	24.2	21.1	21.9	21.5	22.3	22.7
6H	22.7	23.4	23.1	23.8	24.2	21.0	21.8	21.5	22.2	22.6
8H	22.7	23.3	23.1	23.7	24.2	21.0	21.7	21.5	22.1	22.5
12H	22.6	23.2	23.1	23.7	24.1	21.0	21.6	21.4	22.0	22.5
X=8H Y=4H	22.5	23.2	23.0	23.6	24.0	21.1	21.7	21.5	22.1	22.6
6H	22.6	23.1	23.1	23.6	24.0	21.0	21.5	21.5	22.0	22.4
8H	22.6	23.0	23.1	23.5	24.0	21.0	21.4	21.5	21.9	22.4
12H	22.6	23.0	23.1	23.5	24.0	21.0	21.4	21.5	21.8	22.3
X=12H Y=4H	22.5	23.1	23.0	23.5	24.0	21.0	21.6	21.5	22.0	22.5
6H	22.6	23.0	23.0	23.5	24.0	21.0	21.4	21.5	21.9	22.4
8H	22.6	23.0	23.1	23.4	23.9	21.0	21.4	21.5	21.8	22.3
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.6/-1.3				
S=1.5H	+0.6/-1.5					+2.3/-8.4				
S=2.0H	+1.1/-2.2					+3.9/-11.1				

Calculate in accordance with CIE Pub.117. The table is revised with 6270lm ($8\log(F/F_0) = 6.4$).

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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	0.61	0.72	0.80	0.85	0.92	0.96	1.00	1.04	1.06	
	0.30		0.54	0.65	0.73	0.79	0.86	0.92	0.95	1.00	1.03	
	0.20		0.48	0.60	0.68	0.74	0.82	0.88	0.92	0.97	1.01	
0.50	0.50	0.20	0.59	0.70	0.77	0.82	0.89	0.93	0.96	1.00	1.02	
	0.30		0.53	0.64	0.71	0.77	0.84	0.89	0.92	0.97	0.99	
	0.20		0.48	0.59	0.67	0.72	0.80	0.85	0.89	0.94	0.97	
0.30	0.50	0.20	0.58	0.68	0.75	0.80	0.86	0.90	0.92	0.96	0.98	
	0.30		0.52	0.63	0.70	0.75	0.82	0.86	0.89	0.94	0.96	
	0.20		0.47	0.58	0.66	0.71	0.79	0.84	0.87	0.91	0.94	
0.00	0.00	0.00	0.45	0.56	0.63	0.68	0.75	0.80	0.83	0.87	0.89	
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 = 1.25									
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	0.94	0.76	0.63	0.54	0.43	0.35	0.30	0.23	0.18	
	0.30		0.79	0.65	0.55	0.48	0.39	0.32	0.27	0.21	0.18	
	0.20		0.67	0.56	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.91	0.72	0.60	0.52	0.40	0.37	0.28	0.21	0.17	
	0.30		0.77	0.63	0.53	0.46	0.37	0.31	0.26	0.20	0.17	
	0.20		0.67	0.56	0.48	0.42	0.34	0.29	0.25	0.19	0.16	
0.30	0.50	0.20	0.88	0.69	0.58	0.49	0.38	0.31	0.27	0.20	0.16	
	0.30		0.75	0.61	0.52	0.45	0.36	0.29	0.25	0.19	0.16	
	0.20		0.66	0.55	0.47	0.41	0.33	0.28	0.24	0.18	0.15	
0.00	0.00	0.00	0.55	0.44	0.37	0.32	0.25	0.21	0.17	0.13	0.11	
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 = 1.25									
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	0.18	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		0.05	0.07	0.09	0.10	0.12	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	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	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		0.10	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	0.12	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												