

Report No.:

Test Time: 18.06.2020 19:19

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 32W 4000K microprisma iFA40'300(110) s soedineniem

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.0 V

Current: 0.156 A

Power: 33.29 W

Power Factor: 0.962

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 4168.5 lm

Measurement Flux: 4168.5 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.3, 155.1, 146.4, 148.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 77.8, 73.9, 73.9, 74.0

Luminaire Efficacy Rating (LER): 125.27

Central Intensity: 2238.47 cd

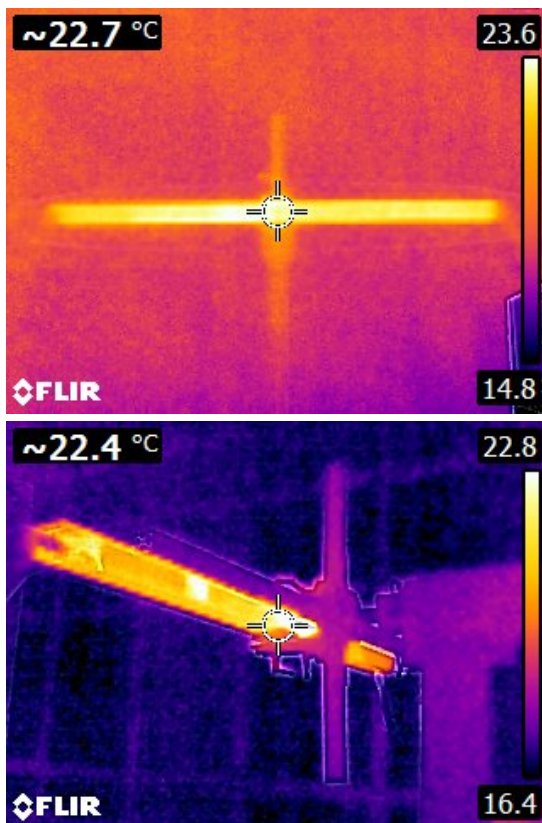
Max. Intensity: 2240.92 cd

Pos of Max. Intensity: H225 V2

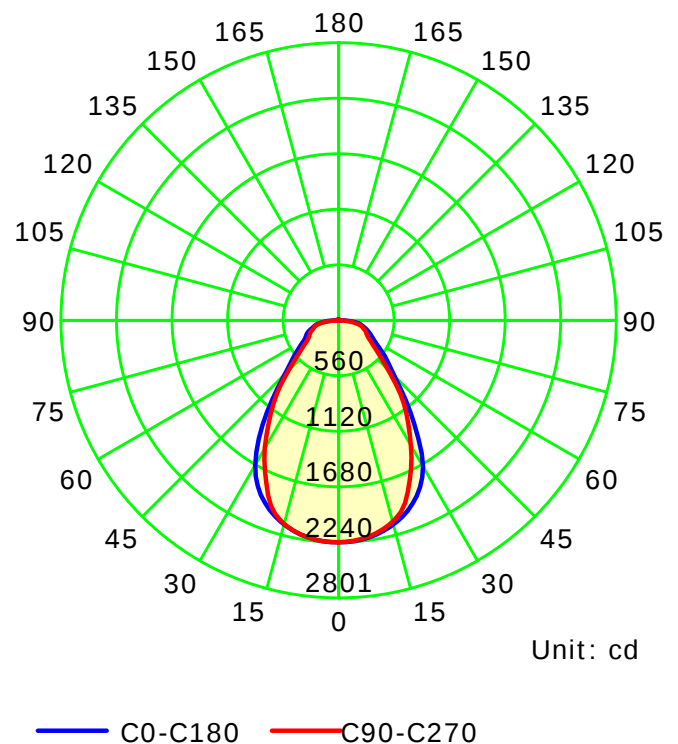
S/MH(C0/C180): 1.14

S/MH(C90/C270): 1.04

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

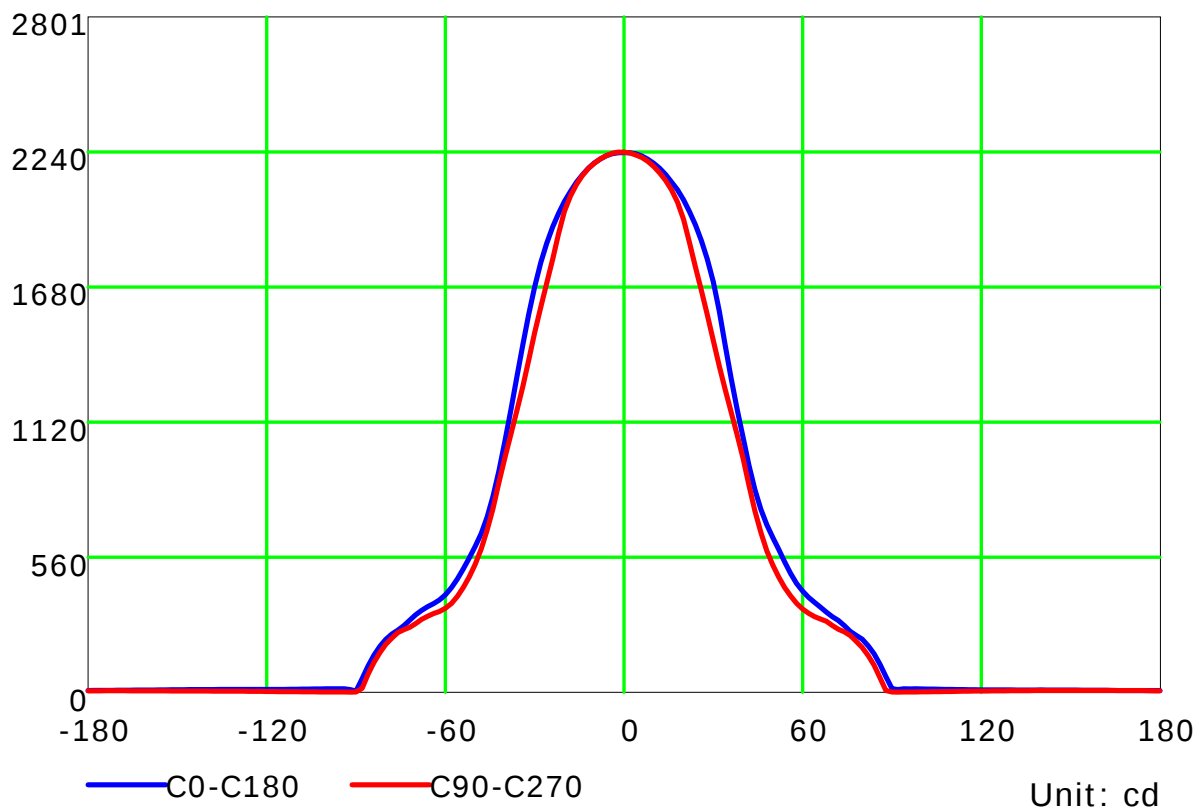
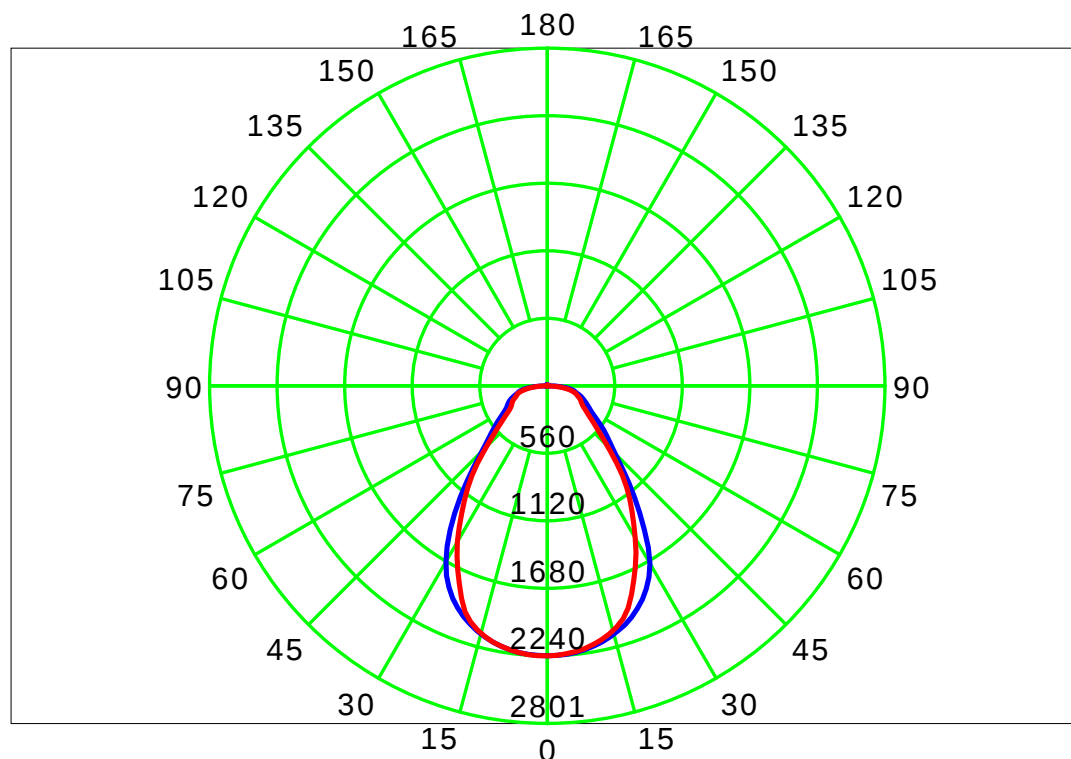
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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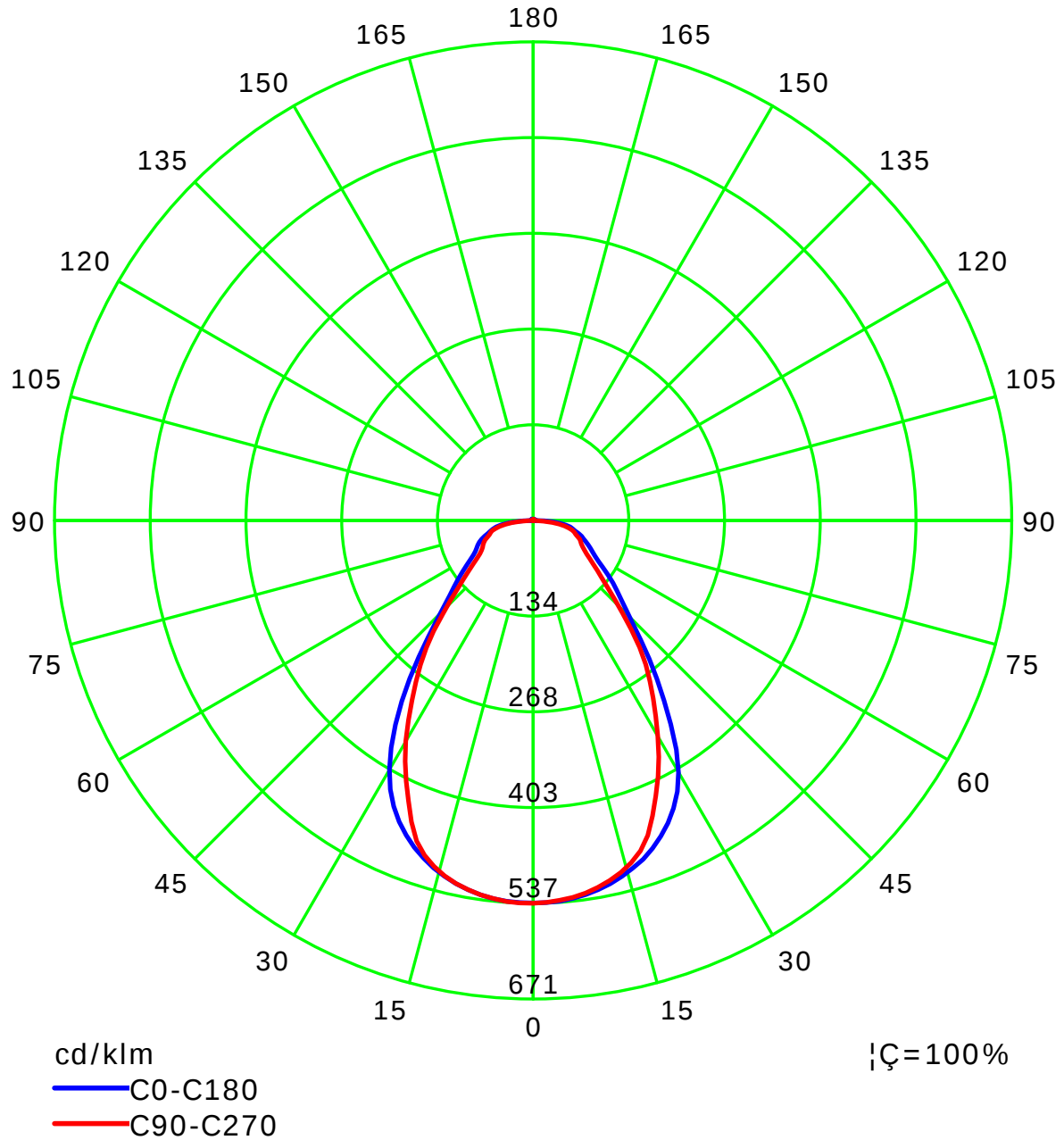
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Humidity:

Inspector:

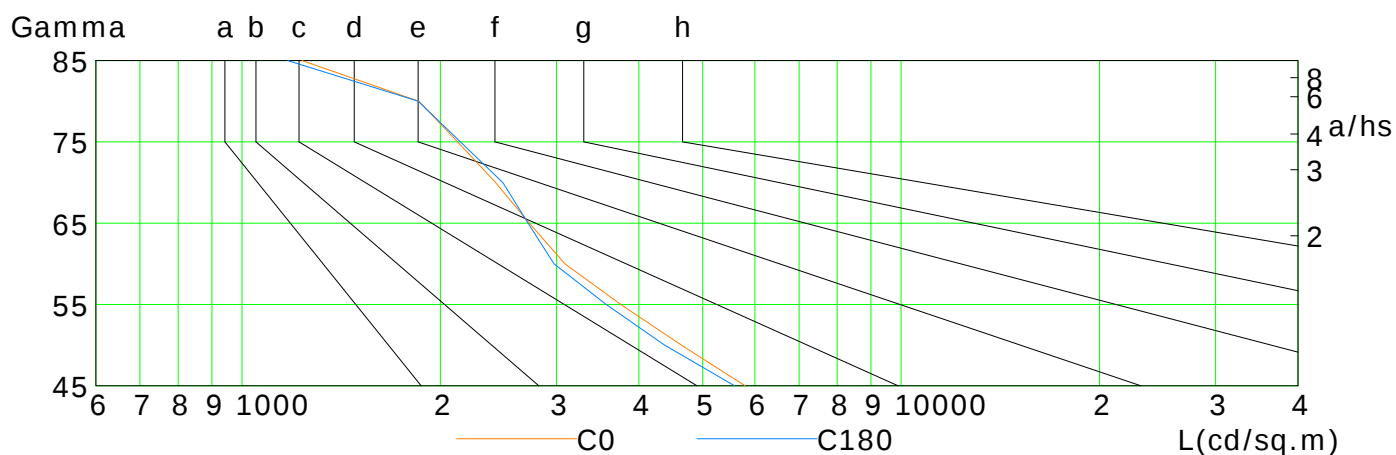
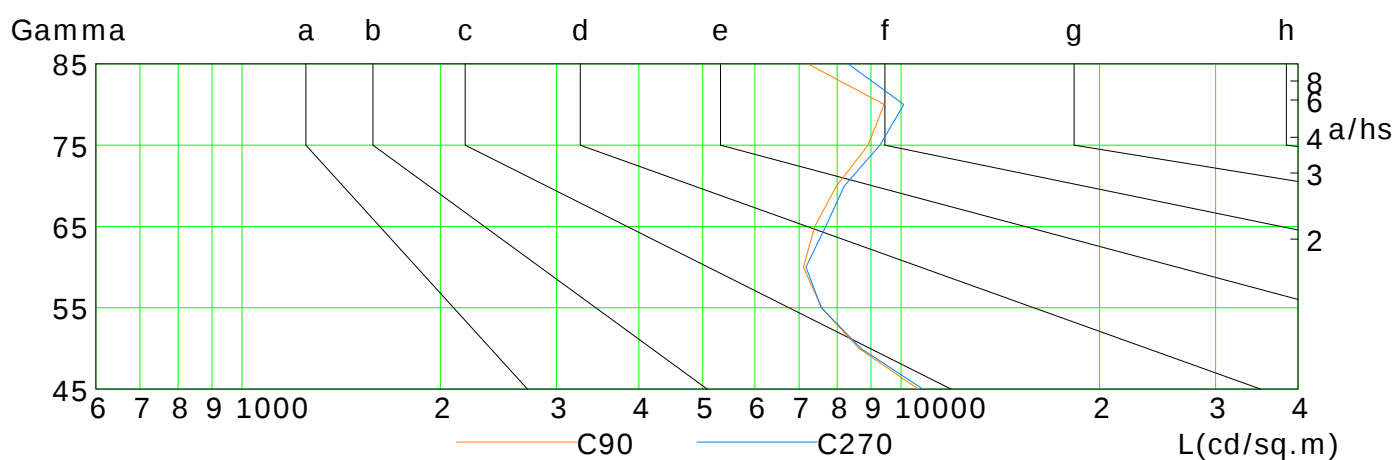
Luminous Intensity Distribution Curve(cd / klm)



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	5798	4640	3755	3089	2729	2425	2124	1854	1233
C90	10621	8632	7577	7108	7394	7981	8908	9421	7218
C180	5588	4377	3570	2975	2717	2486	2144	1850	1173
C270	10787	8689	7567	7170	7681	8201	9285	10092	8313

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Test Type: TYPE C

Temperature:

Operator:

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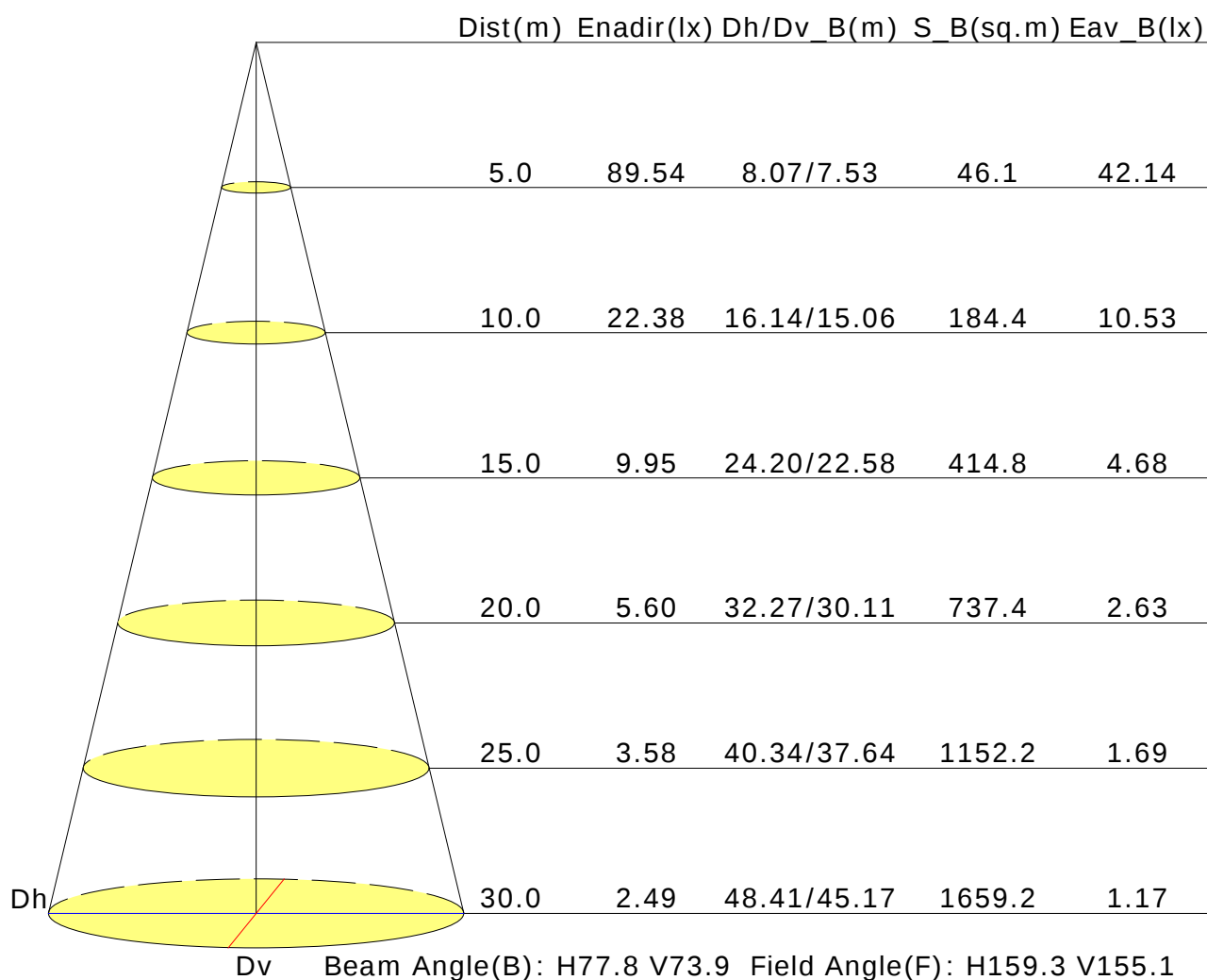
Test Device: LSG-1800B

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	16.7	17.9	17.0	18.2	18.4	17.5	18.7	17.8	18.9	19.2
3H	17.7	18.9	18.1	19.1	19.4	19.0	20.1	19.4	20.4	20.7
4H	18.3	19.3	18.6	19.6	19.9	20.0	21.0	20.3	21.3	21.6
6H	18.7	19.7	19.1	20.0	20.4	20.9	21.9	21.3	22.2	22.6
8H	18.9	19.9	19.3	20.2	20.6	21.3	22.2	21.7	22.6	22.9
12H	19.1	20.0	19.5	20.3	20.7	21.5	22.5	21.9	22.8	23.2
X=4H Y=2H	17.1	18.1	17.4	18.4	18.7	17.7	18.8	18.1	19.1	19.4
3H	18.3	19.3	18.7	19.6	20.0	19.5	20.4	19.8	20.7	21.1
4H	19.0	19.8	19.4	20.2	20.6	20.5	21.3	20.9	21.7	22.1
6H	19.6	20.4	20.1	20.8	21.2	21.6	22.3	22.0	22.7	23.2
8H	19.9	20.6	20.4	21.0	21.4	22.1	22.7	22.5	23.1	23.6
12H	20.1	20.7	20.6	21.1	21.6	22.4	23.0	22.8	23.4	23.9
X=8H Y=4H	19.3	20.0	19.7	20.4	20.8	20.7	21.3	21.1	21.7	22.2
6H	20.1	20.6	20.5	21.1	21.5	21.8	22.4	22.3	22.8	23.3
8H	20.4	20.9	20.9	21.4	21.9	22.4	22.8	22.9	23.3	23.8
12H	20.7	21.1	21.2	21.6	22.1	22.7	23.2	23.2	23.6	24.2
X=12H Y=4H	19.3	19.9	19.8	20.4	20.8	20.7	21.3	21.1	21.7	22.2
6H	20.1	20.6	20.6	21.1	21.6	21.9	22.4	22.4	22.8	23.3
8H	20.5	20.9	21.0	21.4	21.9	22.4	22.8	22.9	23.3	23.8
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.3/-0.3				
S=1.5H	+0.7/-0.9					+0.8/-0.8				
S=2.0H	+1.3/-1.3					+1.3/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 4169lm ($8\log(F/F_0) = 5.0$).

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Test Device: LSG-1800B

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	0.64	0.73	0.79	0.84	0.90	0.95	0.98	1.02	1.04	
	0.30		0.57	0.66	0.72	0.77	0.84	0.89	0.93	0.98	1.01	
	0.20		0.52	0.61	0.67	0.72	0.80	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.91	0.94	0.97	1.00	
	0.30		0.56	0.65	0.71	0.76	0.82	0.87	0.90	0.94	0.97	
	0.20		0.51	0.60	0.66	0.71	0.78	0.83	0.87	0.91	0.95	
0.30	0.50	0.20	0.61	0.69	0.74	0.78	0.84	0.88	0.90	0.94	0.96	
	0.30		0.55	0.64	0.69	0.74	0.80	0.84	0.87	0.91	0.94	
	0.20		0.51	0.59	0.65	0.70	0.76	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.49	0.57	0.63	0.67	0.73	0.77	0.80	0.84	0.87	
Rating:33W 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	0.89	0.74	0.63	0.55	0.44	0.37	0.32	0.25	0.20	
	0.30		0.74	0.63	0.55	0.49	0.40	0.34	0.29	0.23	0.19	
	0.20		0.64	0.55	0.49	0.44	0.36	0.31	0.27	0.22	0.18	
0.50	0.50	0.20	0.85	0.70	0.60	0.52	0.42	0.38	0.30	0.23	0.19	
	0.30		0.72	0.61	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.63	0.54	0.48	0.43	0.35	0.30	0.26	0.21	0.18	
0.30	0.50	0.20	0.83	0.67	0.57	0.50	0.40	0.33	0.29	0.22	0.18	
	0.30		0.71	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.18	
	0.20		0.62	0.53	0.46	0.42	0.34	0.29	0.25	0.20	0.17	
0.00	0.00	0.00	0.51	0.42	0.37	0.32	0.26	0.22	0.19	0.15	0.13	
Rating:33W 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	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.20	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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	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	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	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	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	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:33W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												