

Report No.:

Test Time: 25.06.2020 13:13

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60/1000 31W 4000K прозрачный DALI

Luminous Length (mm): 950

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.1 V

Current: 0.144 A

Power: 30.67 W

Power Factor: 0.960

Photometric Results

CIE Class: Direct

Measurement Flux: 4161.7 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 4161.7 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.0, 118.5, 133.5, 134.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.6, 108.9, 110.8, 110.7

Luminaire Efficacy Rating (LER): 135.74

Central Intensity: 1634.9 cd

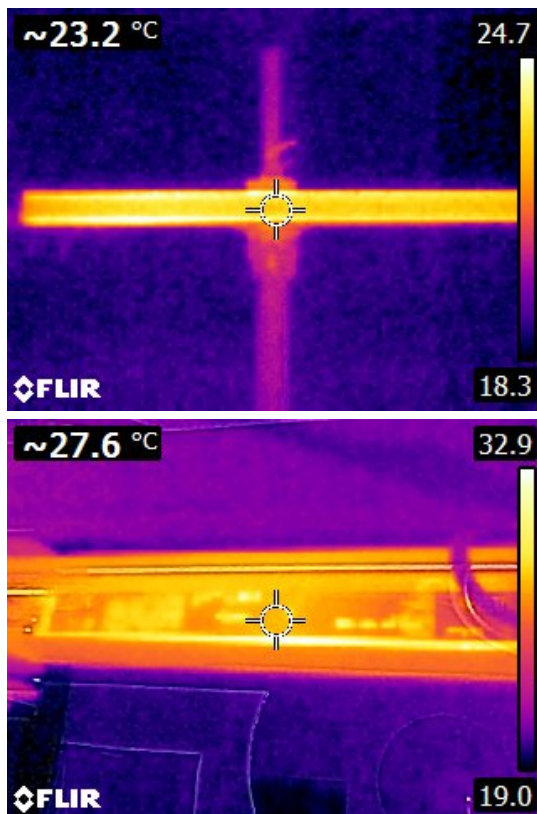
Max. Intensity: 1636.07 cd

Pos of Max. Intensity: H67.5 V0

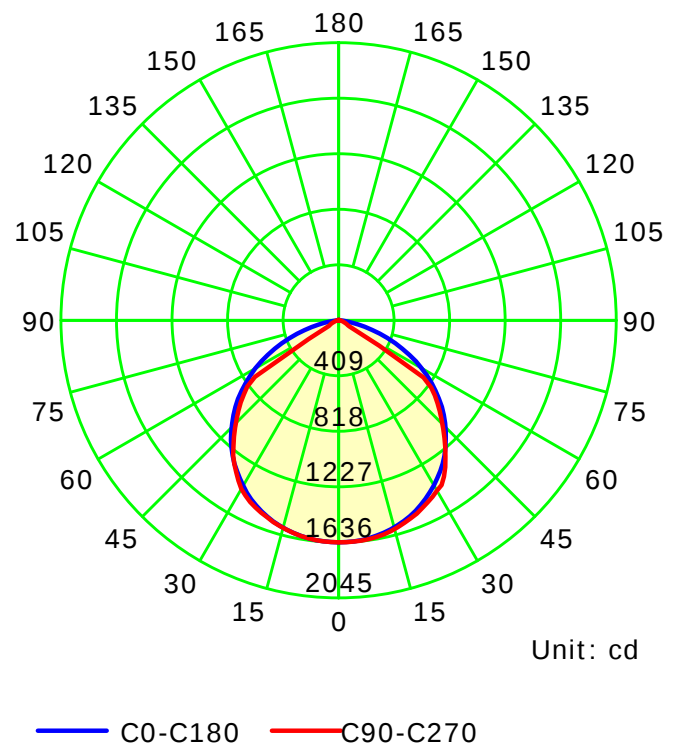
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.30

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

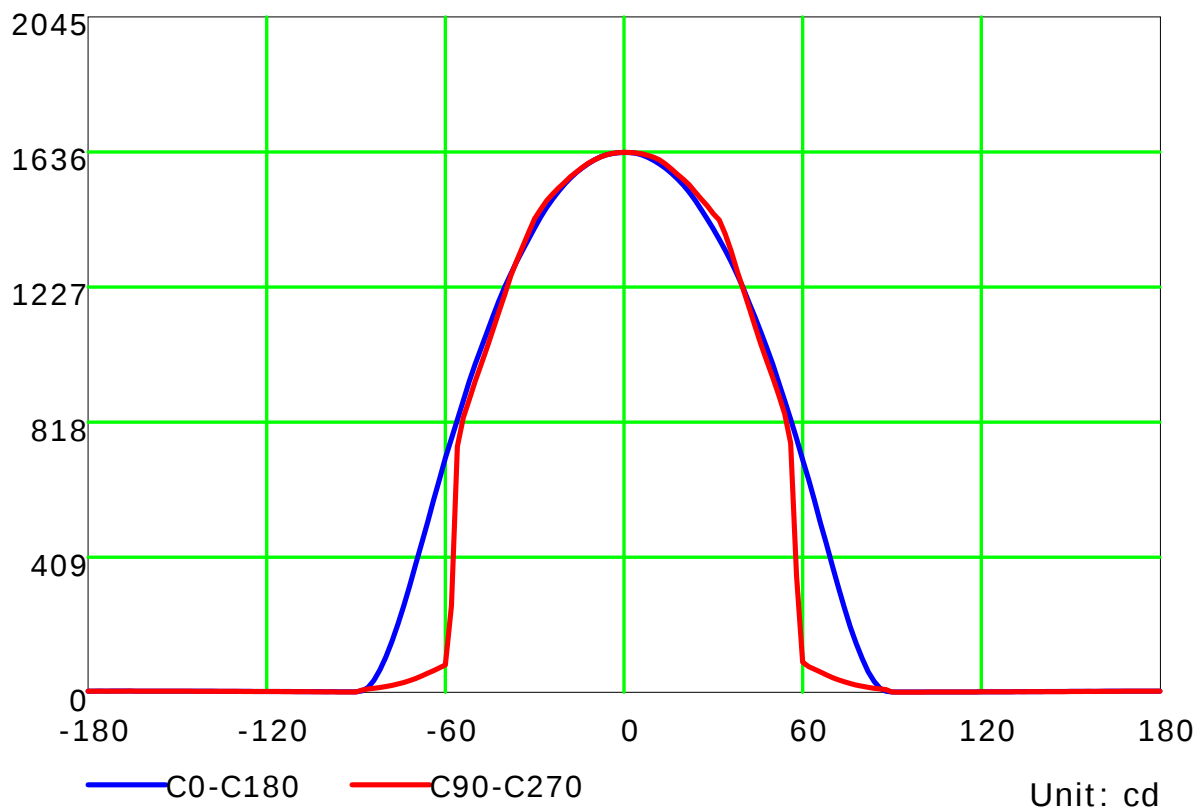
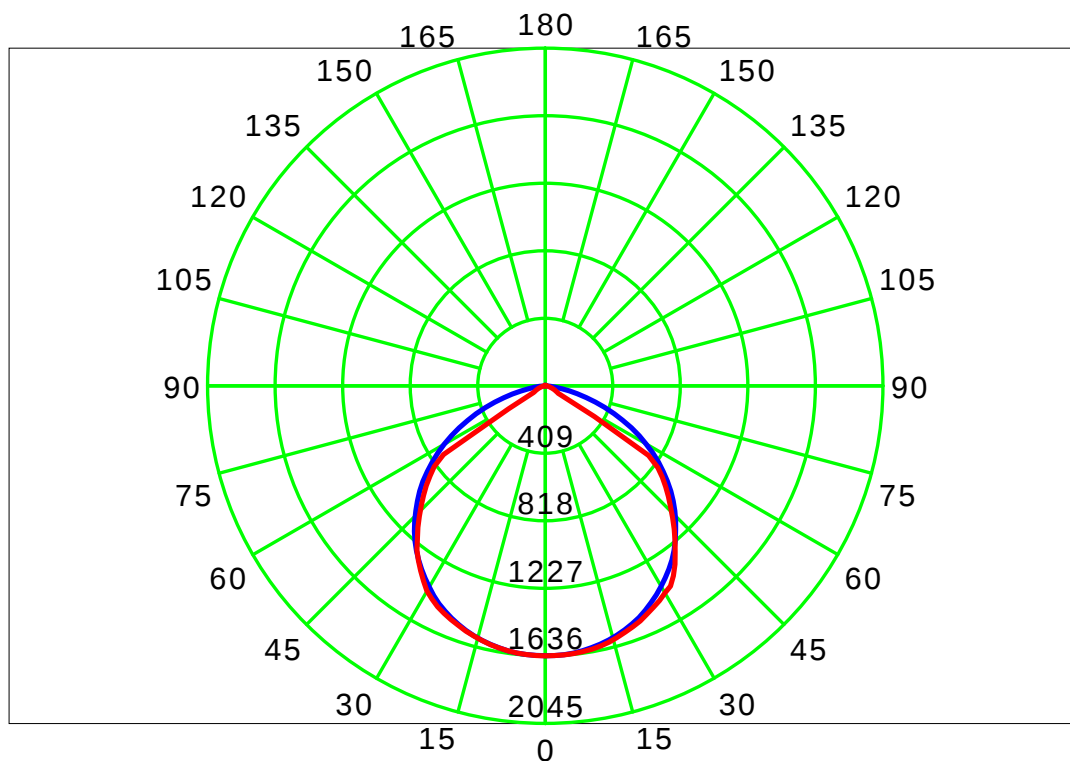
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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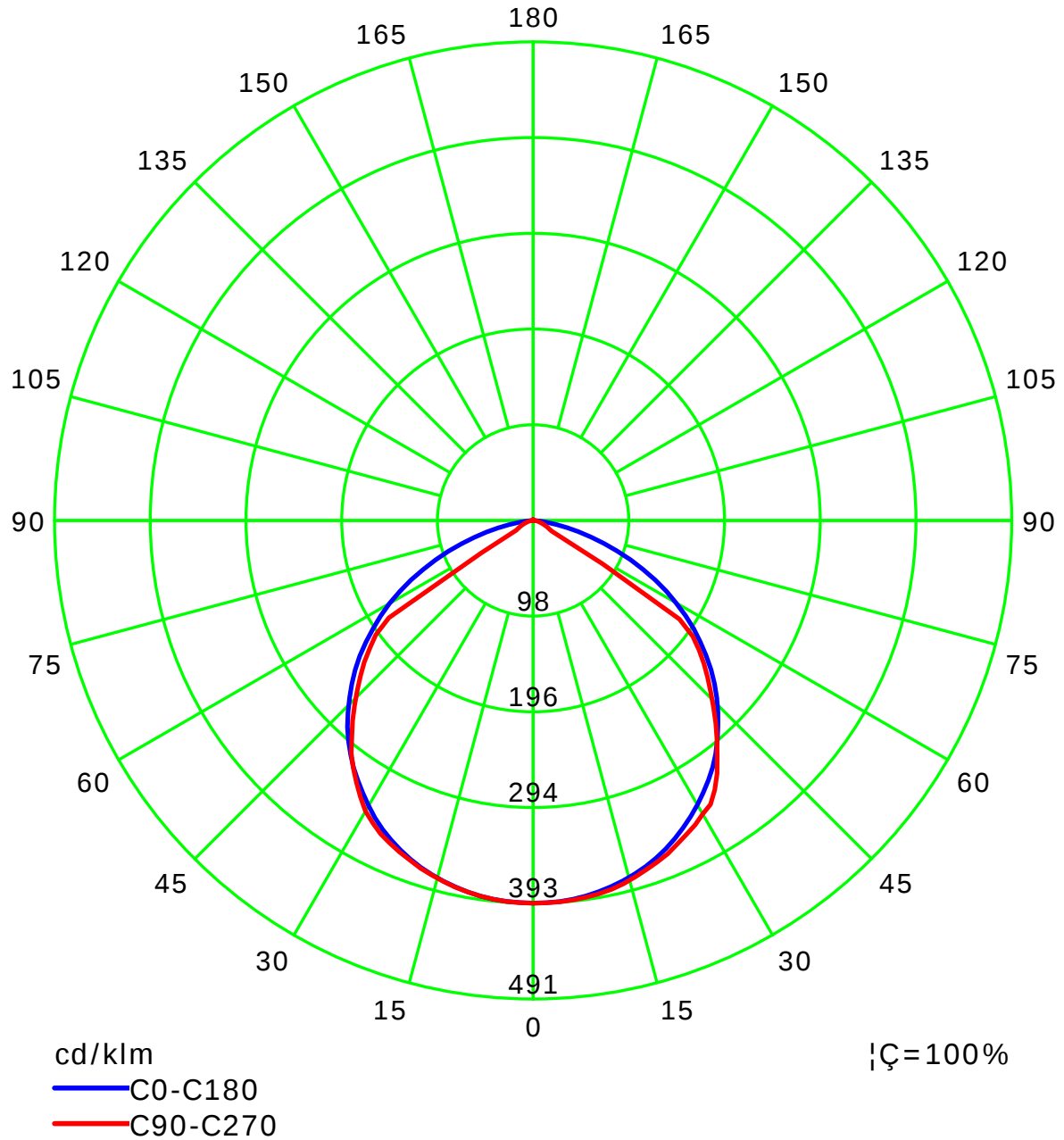
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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Distance: 12.677 m

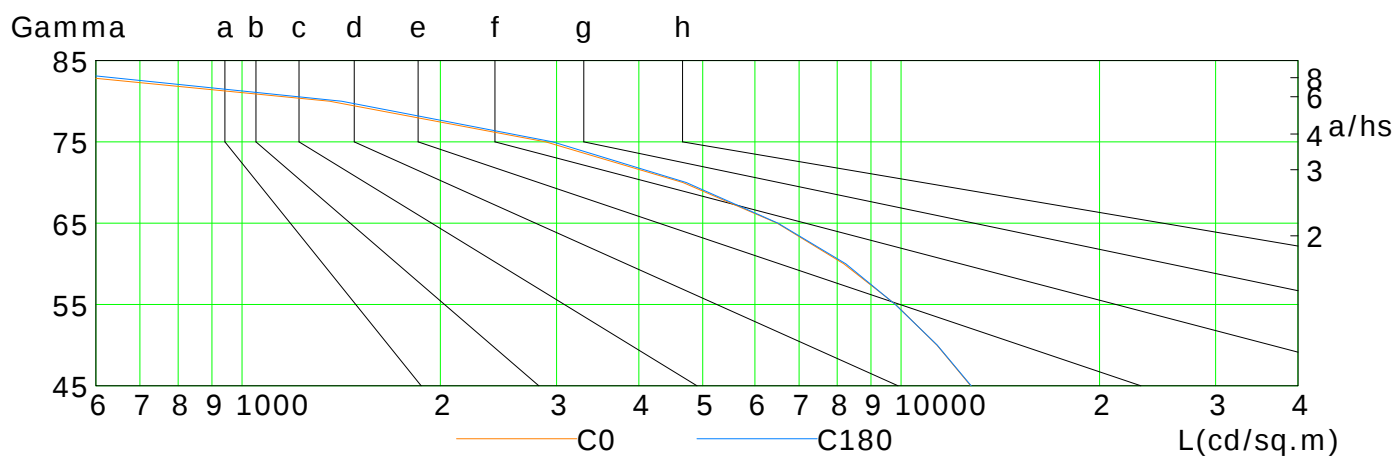
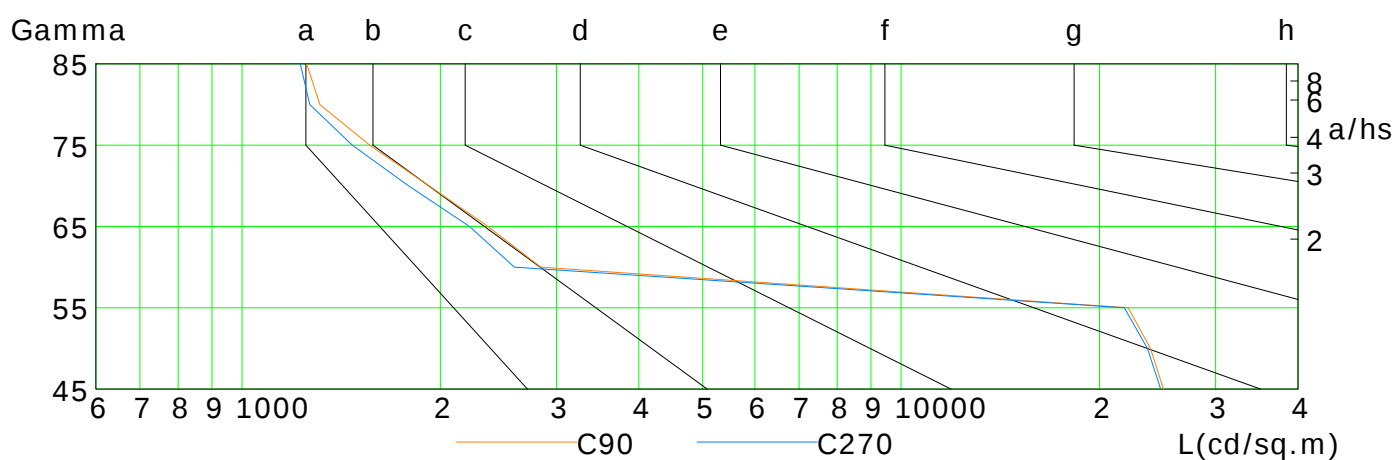
Humidity:

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	12753	11333	9807	8182	6484	4666	2888	1358	321
C90	24997	23894	22107	2839	2360	1921	1562	1313	1253
C180	12772	11346	9800	8241	6502	4721	2961	1416	359
C270	24766	23634	21814	2589	2213	1789	1470	1267	1226

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Test Type: TYPE C

Temperature:

Operator:

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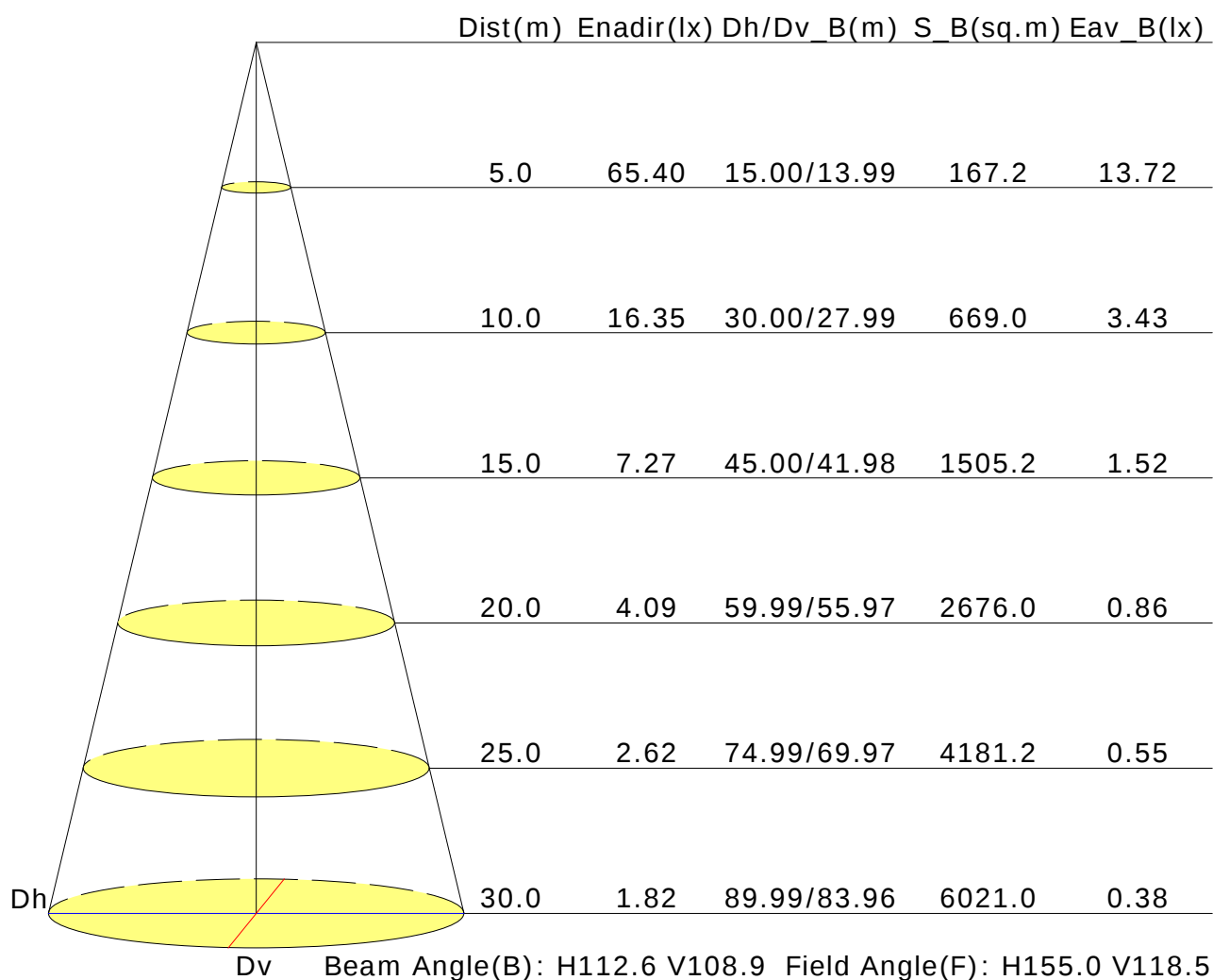
Test Device: LSG-1800B

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	21.1	22.4	21.4	22.6	22.9	21.0	22.3	21.3	22.6	22.8
3H	21.9	23.1	22.3	23.4	23.6	20.9	22.1	21.2	22.3	22.6
4H	22.1	23.2	22.5	23.5	23.8	20.9	21.9	21.2	22.2	22.5
6H	22.1	23.1	22.5	23.4	23.8	20.8	21.8	21.1	22.1	22.4
8H	22.1	23.1	22.5	23.4	23.7	20.8	21.7	21.1	22.0	22.4
12H	22.1	23.0	22.4	23.3	23.7	20.7	21.6	21.1	22.0	22.3
X=4H Y=2H	21.4	22.5	21.8	22.8	23.1	21.3	22.4	21.6	22.7	23.0
3H	22.3	23.2	22.7	23.5	23.9	21.2	22.1	21.6	22.4	22.8
4H	22.5	23.3	22.9	23.7	24.1	21.1	21.9	21.5	22.3	22.7
6H	22.5	23.3	23.0	23.6	24.1	21.1	21.8	21.5	22.2	22.6
8H	22.5	23.2	23.0	23.6	24.0	21.0	21.7	21.5	22.1	22.5
12H	22.5	23.1	22.9	23.5	24.0	21.0	21.6	21.5	22.0	22.5
X=8H Y=4H	22.4	23.1	22.9	23.5	23.9	21.1	21.7	21.5	22.1	22.6
6H	22.5	23.0	22.9	23.4	23.9	21.0	21.6	21.5	22.0	22.5
8H	22.4	22.9	22.9	23.4	23.8	21.0	21.5	21.5	21.9	22.4
12H	22.4	22.8	22.9	23.3	23.8	21.0	21.4	21.5	21.9	22.4
X=12H Y=4H	22.4	23.0	22.8	23.4	23.9	21.0	21.6	21.5	22.1	22.5
6H	22.4	22.9	22.9	23.3	23.8	21.0	21.5	21.5	21.9	22.4
8H	22.4	22.8	22.9	23.3	23.8	21.0	21.4	21.5	21.9	22.4
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.7/-1.1				
S=1.5H	+0.6/-1.4					+2.4/-9.1				
S=2.0H	+1.2/-2.3					+3.9/-11.3				

Calculate in accordance with CIE Pub.117. The table is revised with 4162lm ($8\log(F/F_0) = 5.0$).

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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 = 1.25									
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	0.73	0.80	0.85	0.92	0.97	1.00	1.04	1.07	
	0.30		0.54	0.65	0.73	0.79	0.87	0.92	0.96	1.01	1.04	
	0.20		0.48	0.60	0.68	0.74	0.82	0.88	0.92	0.98	1.01	
0.50	0.50	0.20	0.60	0.71	0.78	0.83	0.89	0.93	0.96	1.00	1.02	
	0.30		0.53	0.64	0.72	0.77	0.85	0.89	0.93	0.97	1.00	
	0.20		0.48	0.60	0.67	0.73	0.81	0.86	0.90	0.95	0.98	
0.30	0.50	0.20	0.58	0.69	0.75	0.80	0.86	0.90	0.93	0.96	0.99	
	0.30		0.52	0.63	0.70	0.76	0.82	0.87	0.90	0.94	0.97	
	0.20		0.48	0.59	0.66	0.72	0.79	0.84	0.87	0.92	0.95	
0.00	0.00	0.00	0.46	0.56	0.64	0.69	0.76	0.80	0.83	0.87	0.90	
Rating:31W 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		0.68	0.57	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.91	0.73	0.60	0.52	0.41	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	0.70	0.58	0.50	0.39	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:31W 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	0.17	0.18	0.19	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		0.05	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	0.12	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.15	0.16	0.17	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		0.05	0.07	0.08	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:31W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											