

Report No.:

Test Time: 19.08.2020 10:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 100W 5000K 60gr prozrachnoe steclo

Number of Lamps: 1

Luminous Width (mm): 275

Voltage: 221.4 V

Power: 98.22 W

Luminous Length (mm): 275

Luminous Height (mm): 90

Current: 0.447 A

Power Factor: 0.991

Photometric Results

CIE Class: Direct

Measurement Flux: 13710.6 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 103.0, 103.6, 102.5, 102.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 63.0, 63.2, 62.6, 62.3

Luminaire Efficacy Rating (LER): 139.64

Max. Intensity: 12108.97 cd

S/MH(C0/C180): 0.99

Total Rated Lamp Lumens: 13710.6 lm

Efficiency: 100%

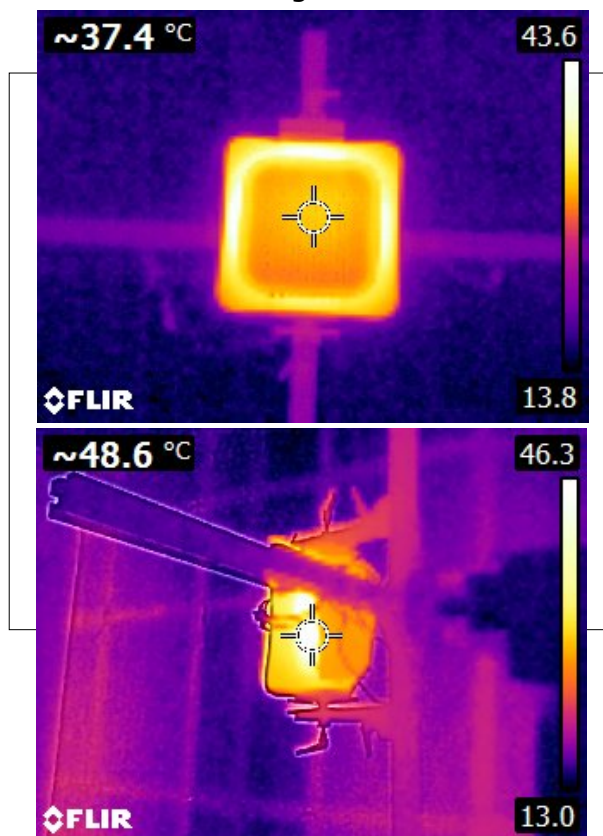
Upward Ratio: 1%

Central Intensity: 11793.41 cd

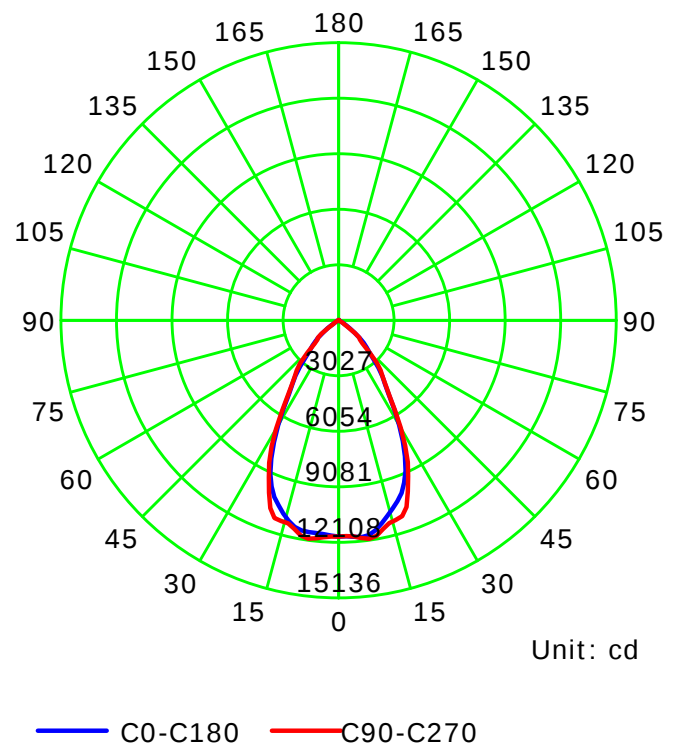
Pos of Max. Intensity: H292.5 V8

S/MH(C90/C270): 1.01

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

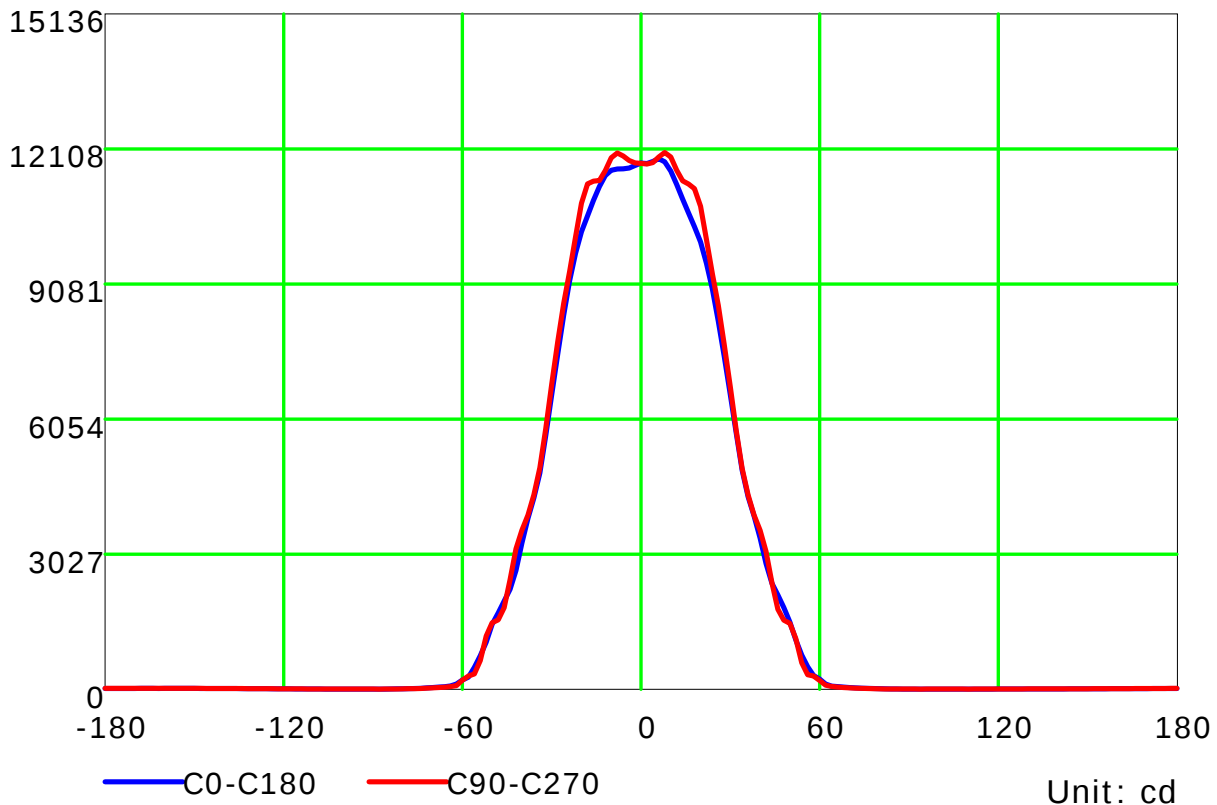
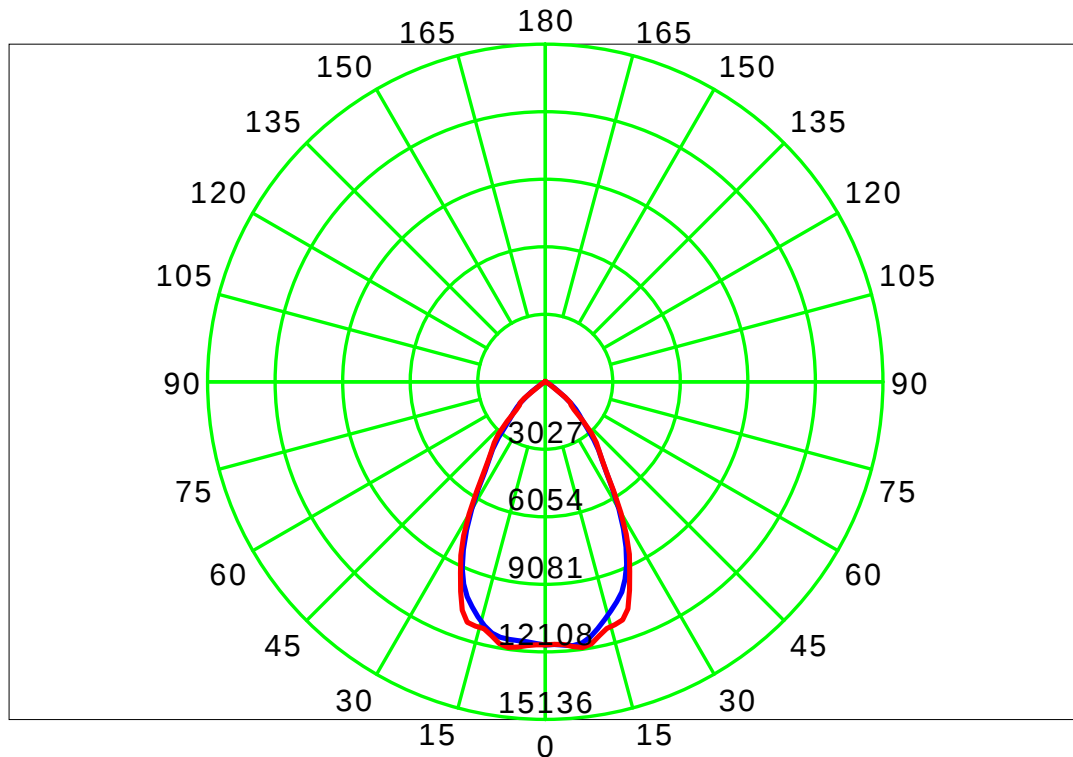
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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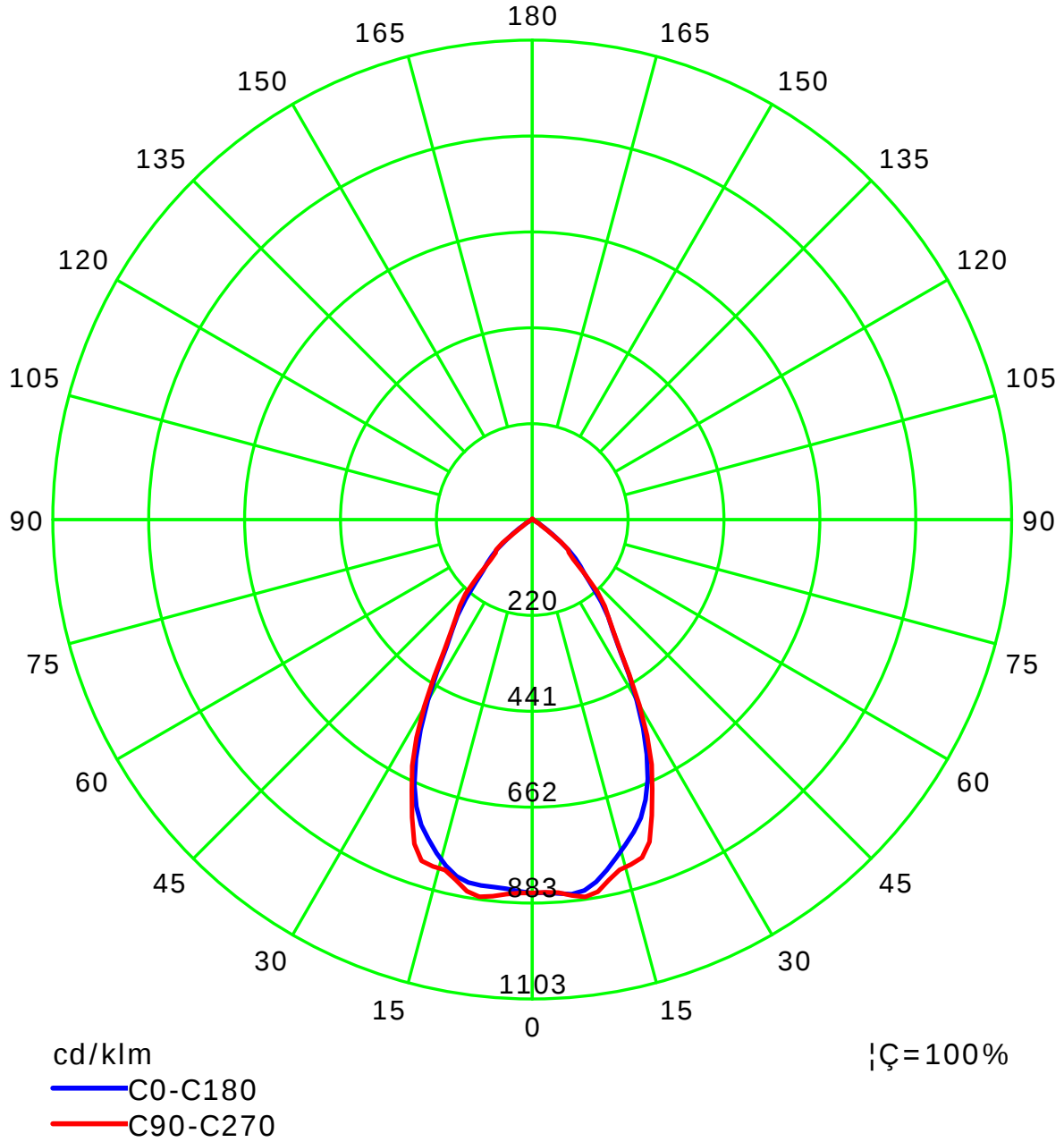
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

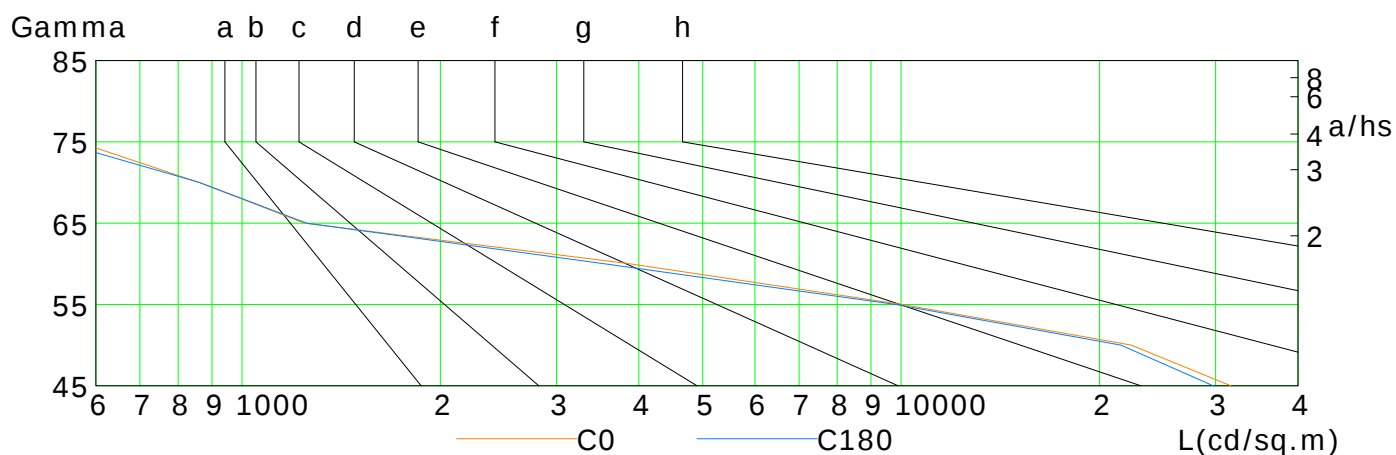
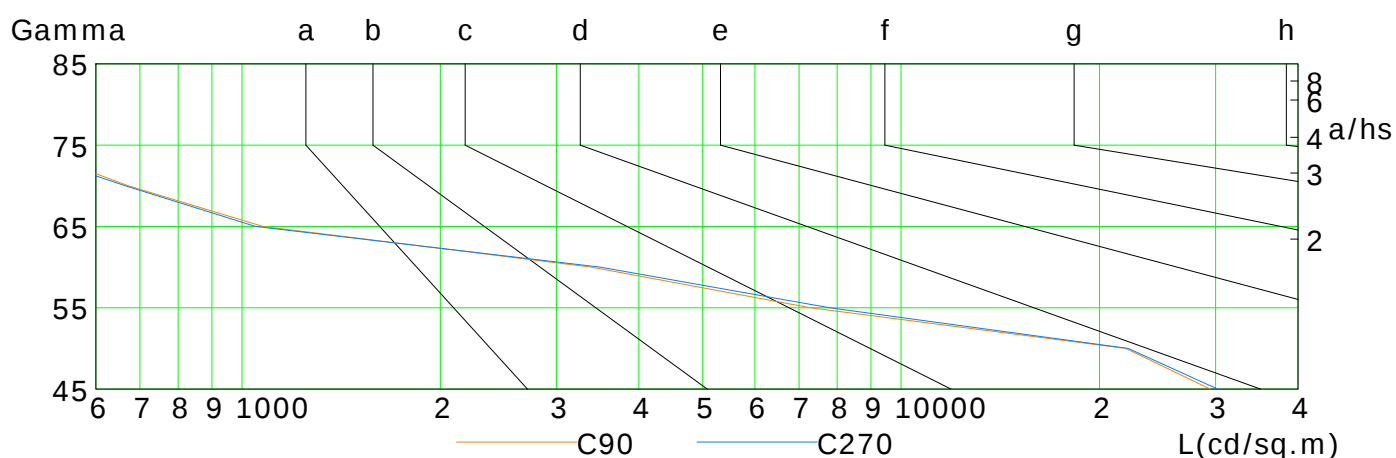
Luminous Intensity Distribution Curve(cd / klm)



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	31637	22337	10038	3879	1244	861	564	388	298
C90	29445	21921	7286	3387	1076	672	462	329	288
C180	29744	21557	9809	3551	1253	862	528	365	258
C270	30212	22108	7792	3496	1049	665	437	295	259

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Test Type: TYPE C

Temperature:

Operator:

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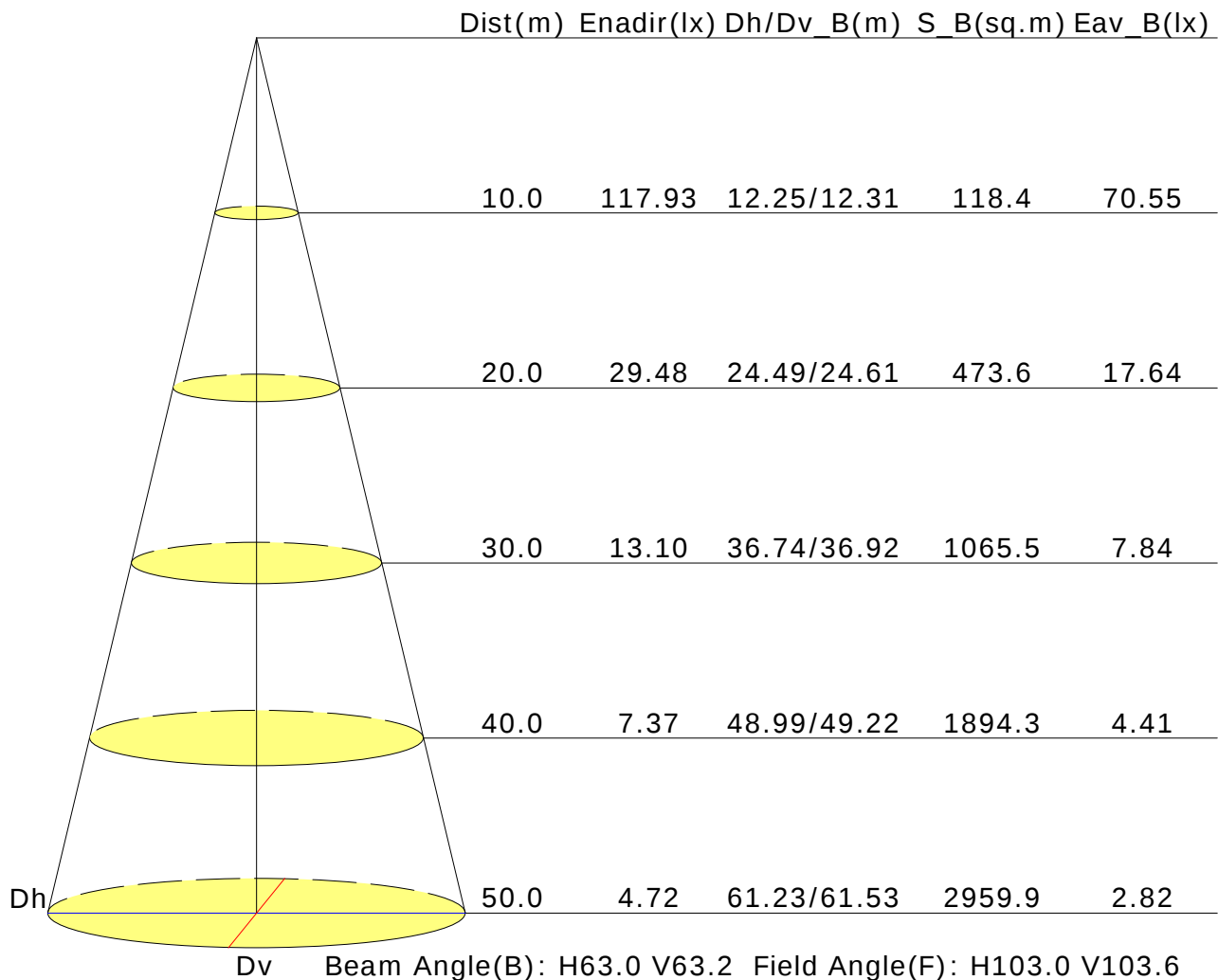
Test Device: LSG-1800B

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	20.1	21.0	20.3	21.2	21.5	19.8	20.8	20.1	21.0	21.2
3H	19.9	20.8	20.2	21.0	21.3	19.7	20.6	20.0	20.8	21.1
4H	19.8	20.7	20.2	20.9	21.2	19.6	20.4	19.9	20.7	21.0
6H	19.8	20.5	20.1	20.8	21.1	19.5	20.3	19.9	20.6	20.9
8H	19.7	20.4	20.1	20.8	21.1	19.5	20.2	19.9	20.5	20.8
12H	19.7	20.4	20.1	20.7	21.0	19.5	20.1	19.8	20.5	20.8
X=4H Y=2H	19.9	20.7	20.2	21.0	21.3	19.7	20.5	20.0	20.7	21.0
3H	19.7	20.4	20.1	20.7	21.1	19.5	20.2	19.9	20.5	20.9
4H	19.7	20.3	20.1	20.6	21.0	19.4	20.0	19.8	20.4	20.8
6H	19.6	20.1	20.0	20.5	20.9	19.4	19.9	19.8	20.3	20.7
8H	19.6	20.0	20.0	20.4	20.9	19.3	19.8	19.8	20.2	20.6
12H	19.5	19.9	20.0	20.4	20.8	19.3	19.7	19.7	20.1	20.6
X=8H Y=4H	19.6	20.0	20.0	20.4	20.9	19.3	19.8	19.8	20.2	20.6
6H	19.5	19.9	19.9	20.3	20.8	19.2	19.6	19.7	20.1	20.5
8H	19.4	19.8	19.9	20.2	20.7	19.2	19.5	19.7	20.0	20.5
12H	19.4	19.7	19.9	20.2	20.7	19.2	19.5	19.7	19.9	20.4
X=12H Y=4H	19.5	19.9	20.0	20.4	20.8	19.3	19.7	19.7	20.1	20.6
6H	19.4	19.8	19.9	20.2	20.7	19.2	19.5	19.7	20.0	20.5
8H	19.4	19.7	19.9	20.2	20.7	19.2	19.5	19.7	19.9	20.4
Variations with the observer position at spacings:										
S=1.0H	+2.1/-5.0					+2.5/-5.6				
S=1.5H	+4.6/-14.1					+4.9/-14.3				
S=2.0H	+6.5/-15.6					+6.9/-16.5				

Calculate in accordance with CIE Pub.117. The table is revised with 13711lm ($8\log(F/F_0) = 9.1$).

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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 = 0.75									
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	0.76	0.84	0.90	0.94	0.99	1.02	1.04	1.07	1.09	
	0.30		0.70	0.79	0.85	0.89	0.95	0.98	1.01	1.04	1.07	
	0.20		0.66	0.75	0.81	0.85	0.91	0.95	0.98	1.02	1.05	
0.50	0.50	0.20	0.74	0.82	0.88	0.91	0.96	0.99	1.01	1.03	1.05	
	0.30		0.69	0.78	0.83	0.87	0.92	0.96	0.98	1.01	1.03	
	0.20		0.66	0.74	0.80	0.84	0.90	0.93	0.96	0.99	1.01	
0.30	0.50	0.20	0.73	0.81	0.86	0.89	0.93	0.96	0.97	0.99	1.01	
	0.30		0.69	0.77	0.82	0.86	0.90	0.93	0.95	0.98	0.99	
	0.20		0.65	0.74	0.79	0.83	0.88	0.91	0.93	0.96	0.98	
0.00	0.00	0.00	0.63	0.71	0.77	0.80	0.85	0.88	0.90	0.92	0.93	
Rating:98W 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 = 0.75									
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	0.71	0.56	0.47	0.40	0.31	0.25	0.22	0.17	0.13	
	0.30		0.59	0.48	0.41	0.35	0.28	0.23	0.20	0.16	0.13	
	0.20		0.51	0.42	0.36	0.32	0.26	0.22	0.19	0.15	0.12	
0.50	0.50	0.20	0.68	0.53	0.44	0.38	0.29	0.28	0.20	0.15	0.12	
	0.30		0.57	0.46	0.39	0.34	0.27	0.22	0.19	0.14	0.12	
	0.20		0.50	0.41	0.35	0.30	0.24	0.20	0.18	0.14	0.11	
0.30	0.50	0.20	0.65	0.51	0.42	0.35	0.27	0.22	0.19	0.14	0.11	
	0.30		0.56	0.45	0.37	0.32	0.25	0.21	0.18	0.14	0.11	
	0.20		0.49	0.40	0.34	0.29	0.23	0.19	0.17	0.13	0.11	
0.00	0.00	0.00	0.36	0.28	0.23	0.19	0.15	0.12	0.10	0.08	0.06	
Rating:98W 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 = 0.75									
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	0.14	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	
	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	0.10	0.11	0.13	0.15	0.16	0.17	0.18	
0.50	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	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.13	0.15	0.16	0.16	0.17	0.18	0.19	0.19	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	0.11	0.12	0.14	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:98W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												