

Report No.:

Test Time: 27.08.2020 16:35

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 200W 5000K 90 gr. prozrachnoe steclo

Luminous Length (mm): 364

Luminous Width (mm): 364

Luminous Height (mm): 138

Voltage: 221.7 V

Current: 0.920 A

Power: 200.69 W

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 29531.4 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 29531.4 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 120.0, 117.3, 118.3, 118.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 92.9, 93.4, 92.0, 92.1

Luminaire Efficacy Rating (LER): 147.20

Central Intensity: 13617.8 cd

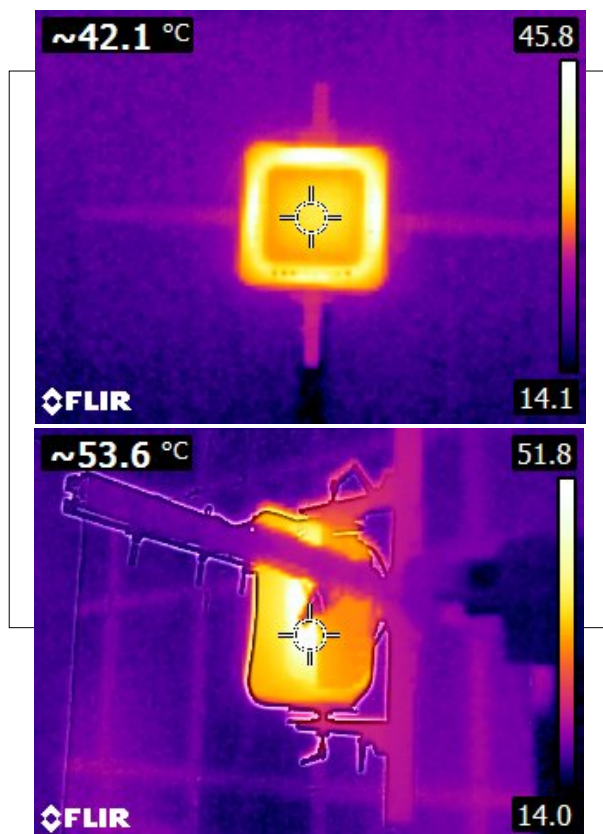
Max. Intensity: 15120.27 cd

Pos of Max. Intensity: H225 V24

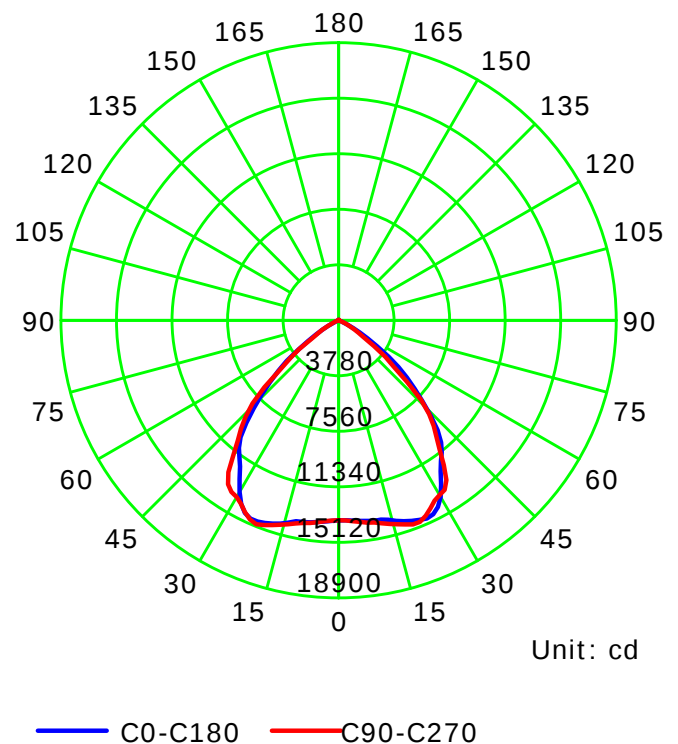
S/MH(C0/C180): 1.37

S/MH(C90/C270): 1.43

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

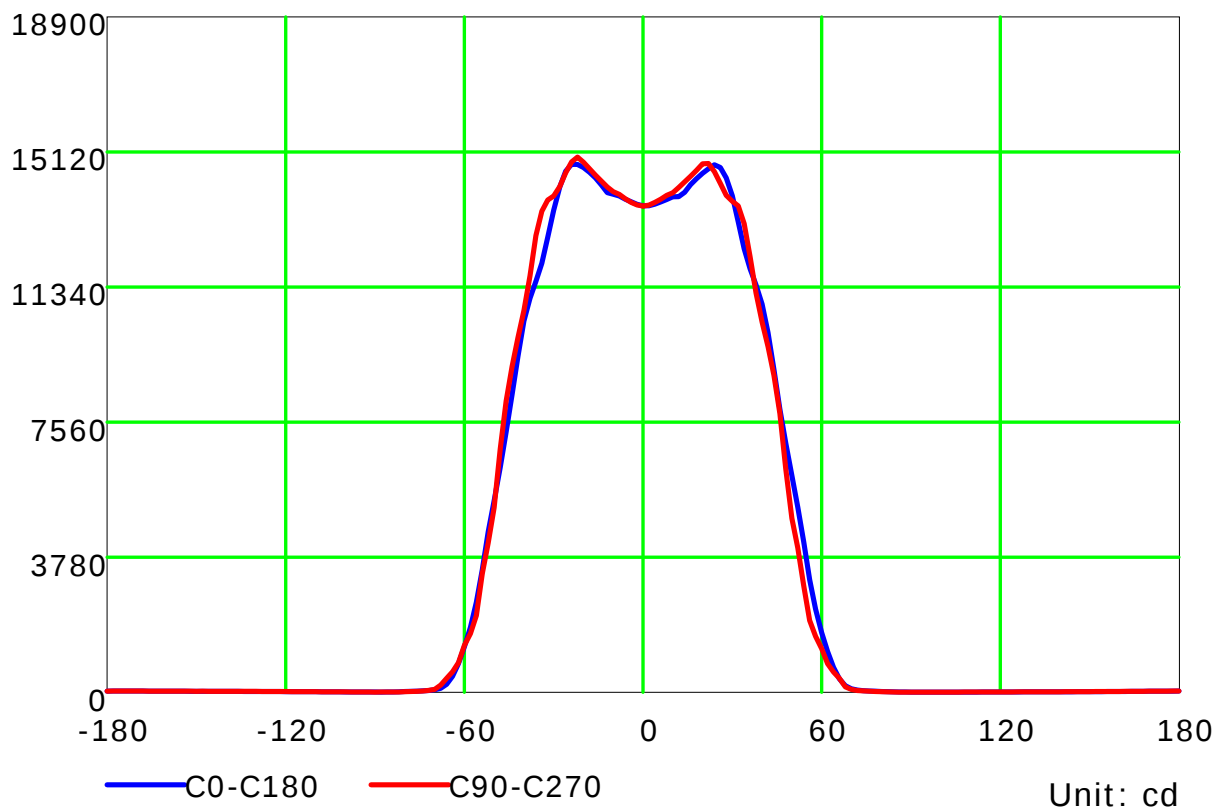
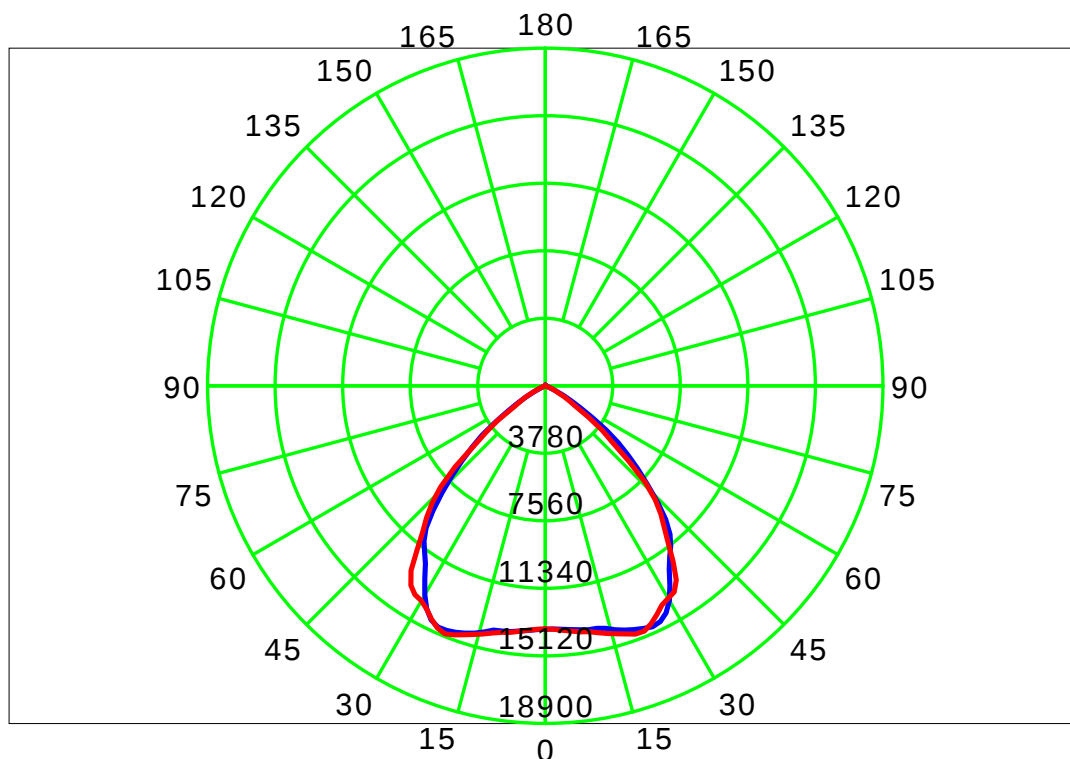
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

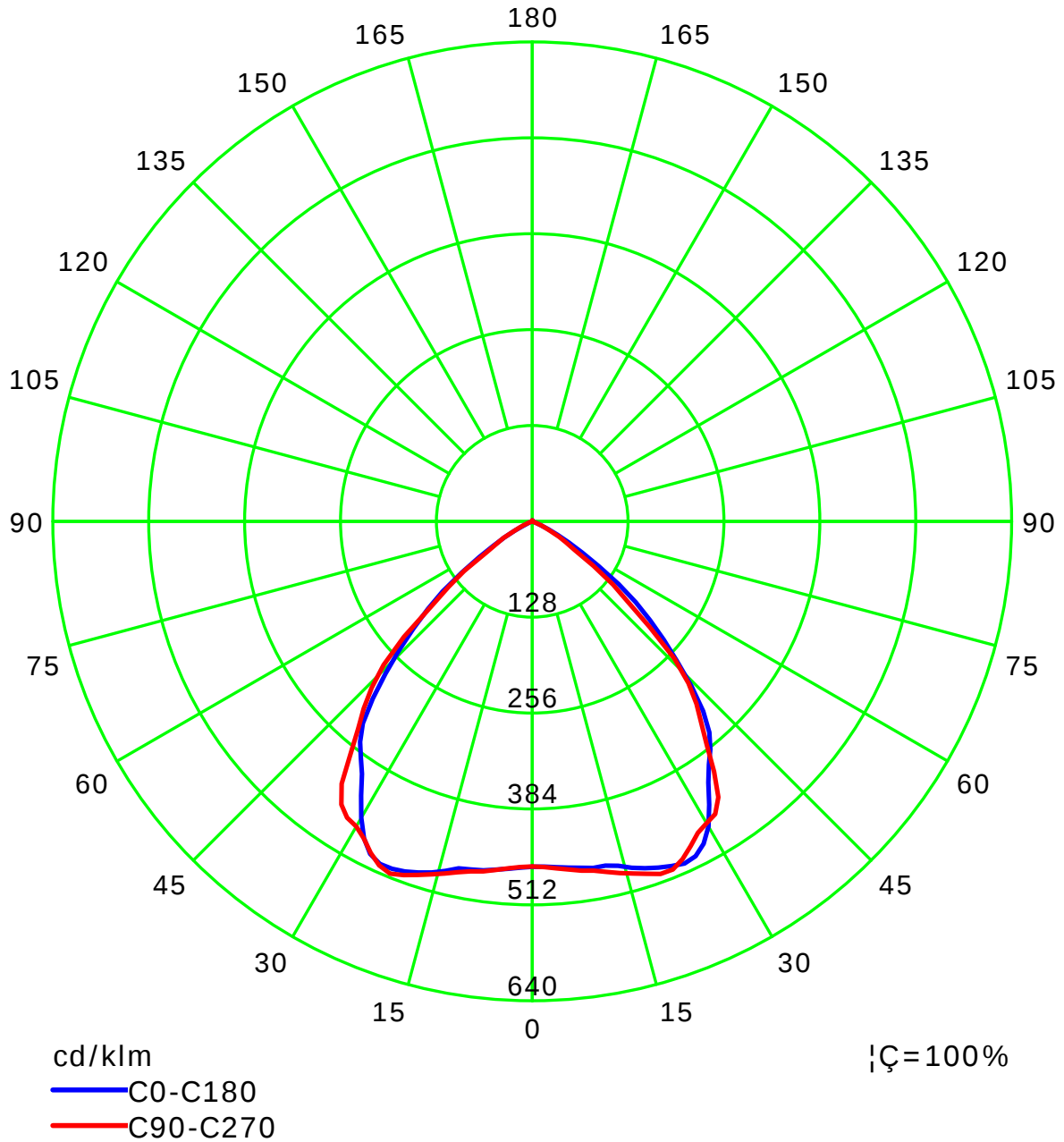
Luminous Intensity Distribution Curve



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Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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Test Device: LSG-1800B
Distance: 12.682 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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Test Device: LSG-1800B

Distance: 12.682 m

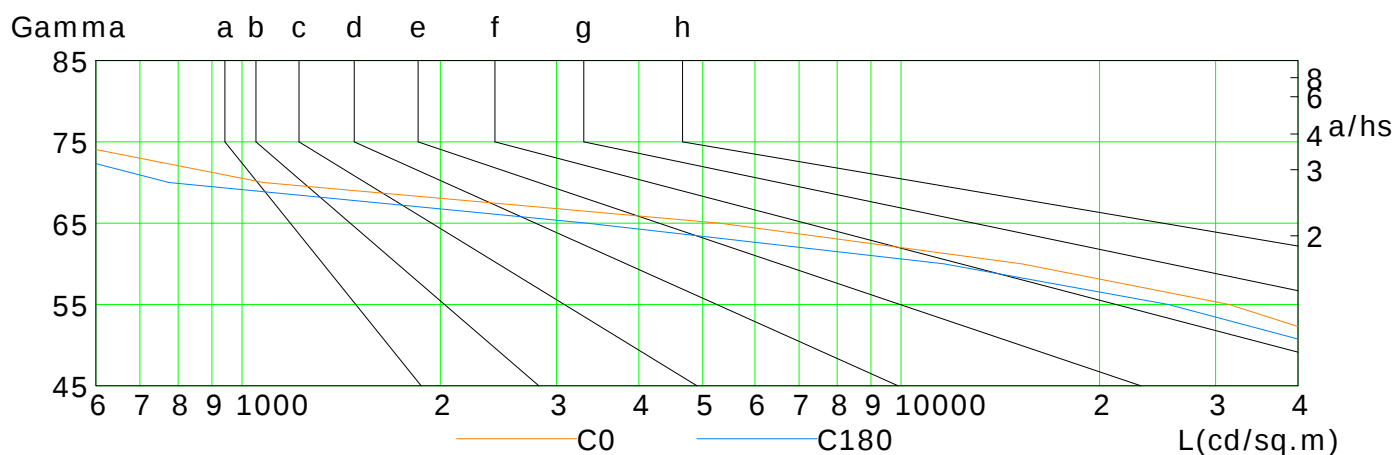
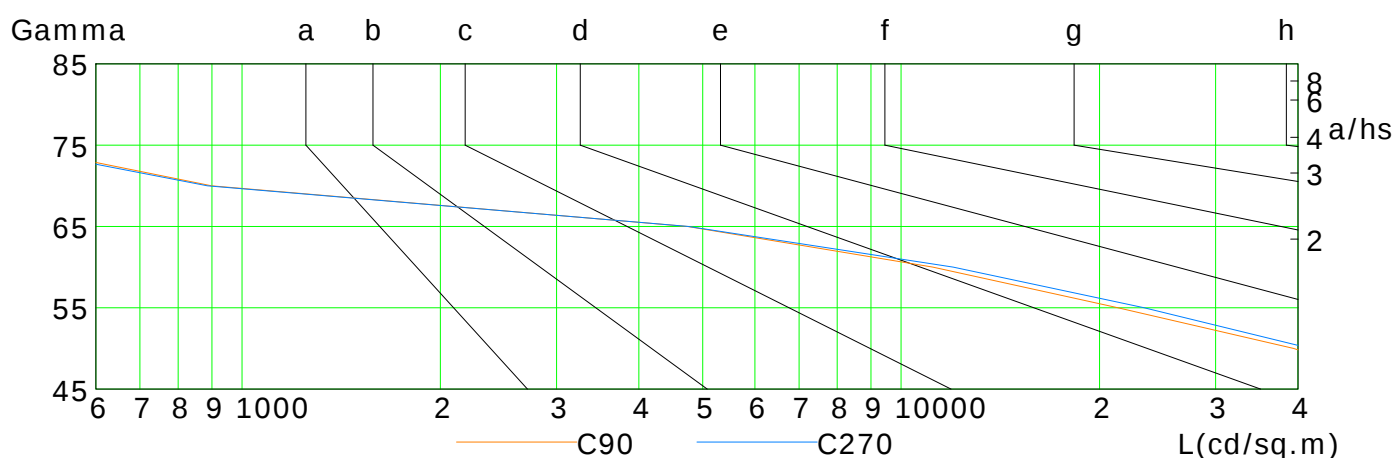
Humidity:

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	65613	49066	31441	15236	5306	1078	524	354	228
C90	64516	39379	21330	11177	4738	899	445	281	158
C180	60449	43371	25420	11604	3337	775	447	309	199
C270	66828	41805	23383	11996	4758	886	426	256	182

C Plane (°):0.0-360.0: 22.5

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

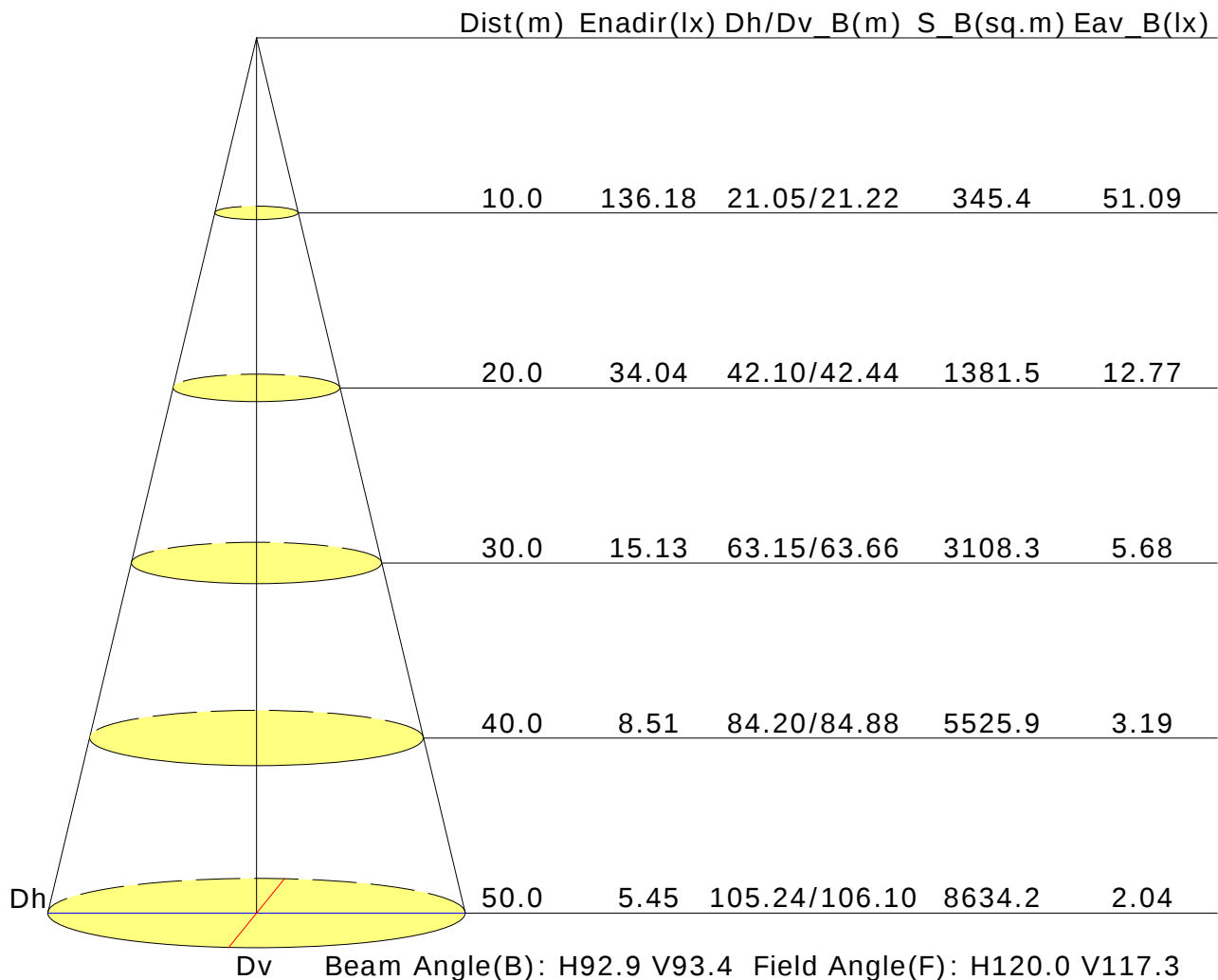
Test Device: LSG-1800B

Distance: 12.682 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	23.9	25.1	24.2	25.3	25.5	23.9	25.0	24.1	25.2	25.4
3H	23.8	24.8	24.1	25.1	25.3	23.7	24.7	24.0	25.0	25.2
4H	23.7	24.7	24.1	24.9	25.2	23.6	24.6	24.0	24.8	25.1
6H	23.6	24.5	24.0	24.8	25.1	23.6	24.4	23.9	24.7	25.0
8H	23.6	24.4	24.0	24.7	25.1	23.5	24.3	23.9	24.7	25.0
12H	23.6	24.4	23.9	24.7	25.0	23.5	24.3	23.9	24.6	24.9
X=4H Y=2H	23.8	24.7	24.2	25.0	25.3	23.7	24.7	24.1	24.9	25.2
3H	23.7	24.5	24.1	24.8	25.1	23.6	24.4	24.0	24.7	25.0
4H	23.6	24.3	24.0	24.7	25.0	23.5	24.2	23.9	24.6	24.9
6H	23.5	24.1	24.0	24.5	24.9	23.4	24.0	23.9	24.4	24.8
8H	23.5	24.1	23.9	24.5	24.9	23.4	24.0	23.8	24.4	24.8
12H	23.5	24.0	23.9	24.4	24.8	23.4	23.9	23.8	24.3	24.7
X=8H Y=4H	23.5	24.1	23.9	24.5	24.9	23.4	24.0	23.8	24.4	24.8
6H	23.4	23.9	23.9	24.3	24.8	23.3	23.8	23.8	24.2	24.7
8H	23.4	23.8	23.9	24.2	24.7	23.3	23.7	23.8	24.1	24.6
12H	23.4	23.7	23.8	24.2	24.7	23.3	23.6	23.8	24.1	24.6
X=12H Y=4H	23.5	24.0	23.9	24.4	24.8	23.4	23.9	23.8	24.3	24.7
6H	23.4	23.8	23.9	24.2	24.7	23.3	23.7	23.8	24.1	24.6
8H	23.4	23.7	23.8	24.2	24.7	23.3	23.6	23.8	24.1	24.6
Variations with the observer position at spacings:										
S=1.0H	+1.1/-3.3					+1.2/-3.2				
S=1.5H	+3.1/-8.8					+3.0/-9.7				
S=2.0H	+5.1/-15.7					+4.9/-18.3				

Calculate in accordance with CIE Pub.117. The table is revised with 29531lm ($8\log(F/F_0) = 11.8$).

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Test Device: LSG-1800B

Distance: 12.682 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	0.72	0.82	0.88	0.92	0.98	1.01	1.04	1.07	1.09	
	0.30		0.66	0.76	0.83	0.87	0.94	0.98	1.00	1.04	1.06	
	0.20		0.62	0.72	0.79	0.84	0.90	0.94	0.97	1.02	1.04	
0.50	0.50	0.20	0.71	0.80	0.86	0.90	0.95	0.98	1.00	1.03	1.04	
	0.30		0.65	0.75	0.81	0.86	0.91	0.95	0.97	1.01	1.03	
	0.20		0.61	0.71	0.78	0.82	0.88	0.92	0.95	0.99	1.01	
0.30	0.50	0.20	0.70	0.78	0.84	0.87	0.92	0.95	0.97	0.99	1.01	
	0.30		0.65	0.74	0.80	0.84	0.89	0.92	0.95	0.97	0.99	
	0.20		0.61	0.71	0.77	0.81	0.87	0.90	0.93	0.96	0.98	
0.00	0.00	0.00	0.59	0.69	0.75	0.78	0.83	0.87	0.89	0.91	0.93	
Rating:201W 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	0.76	0.60	0.49	0.42	0.33	0.27	0.23	0.17	0.14	
	0.30		0.64	0.51	0.43	0.37	0.30	0.25	0.21	0.16	0.13	
	0.20		0.54	0.45	0.38	0.33	0.27	0.23	0.20	0.15	0.13	
0.50	0.50	0.20	0.73	0.57	0.47	0.40	0.31	0.29	0.21	0.16	0.13	
	0.30		0.62	0.49	0.41	0.36	0.28	0.23	0.20	0.15	0.12	
	0.20		0.54	0.44	0.37	0.32	0.26	0.22	0.19	0.15	0.12	
0.30	0.50	0.20	0.70	0.54	0.44	0.38	0.29	0.23	0.20	0.15	0.12	
	0.30		0.60	0.48	0.40	0.34	0.27	0.22	0.19	0.14	0.12	
	0.20		0.53	0.43	0.36	0.31	0.25	0.21	0.18	0.14	0.11	
0.00	0.00	0.00	0.41	0.31	0.25	0.21	0.16	0.13	0.11	0.08	0.07	
Rating:201W 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	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.09	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	0.14	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	0.19	
	0.20		0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.14	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	0.07	0.09	0.10	0.12	0.14	0.15	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:201W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												