

Report No.:

Test Time: 22.06.2020 15:58

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60/1000 24W 4000K прозрачный

Luminous Length (mm): 950

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 222.2 V

Current: 0.111 A

Power: 23.54 W

Power Factor: 0.947

Photometric Results

CIE Class: Direct

Measurement Flux: 3300.9 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 3300.9 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.0, 117.5, 133.9, 134.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.2, 109.5, 111.2, 111.1

Luminaire Efficacy Rating (LER): 140.28

Central Intensity: 1293.2 cd

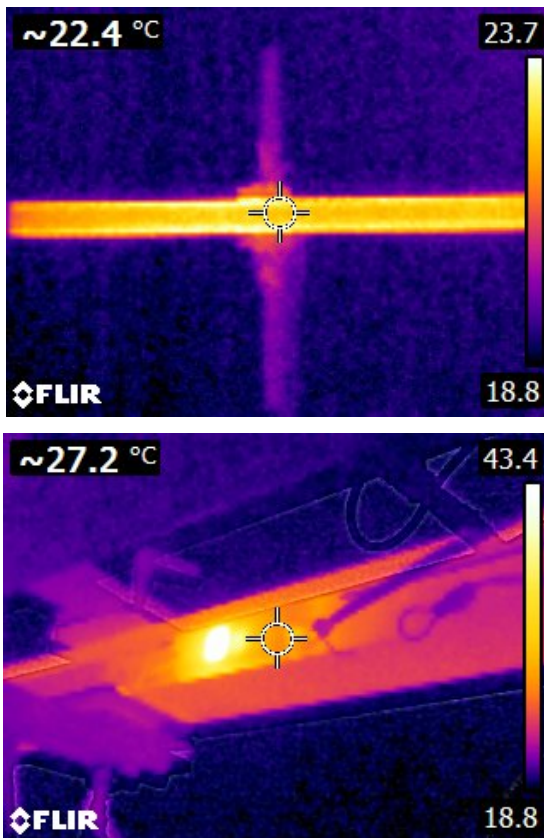
Max. Intensity: 1293.53 cd

Pos of Max. Intensity: H45 V0

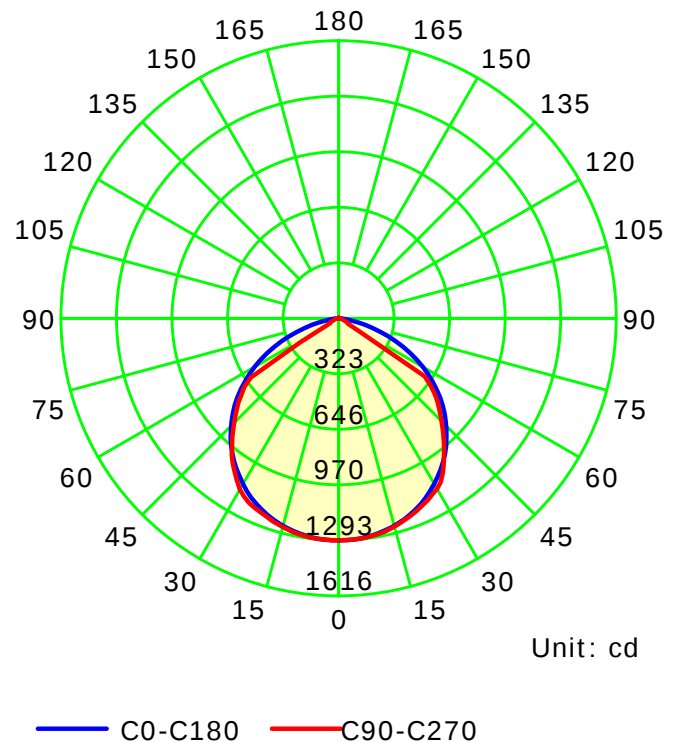
S/MH(C0/C180): 1.28

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

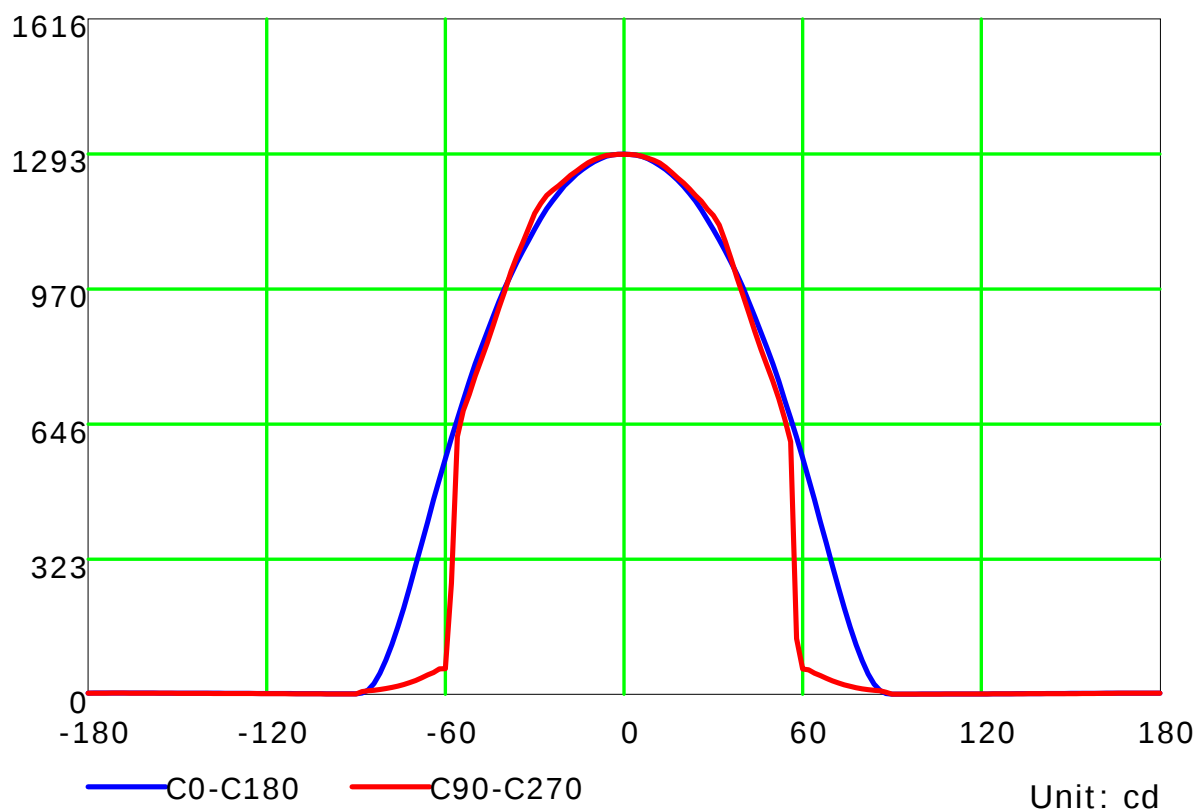
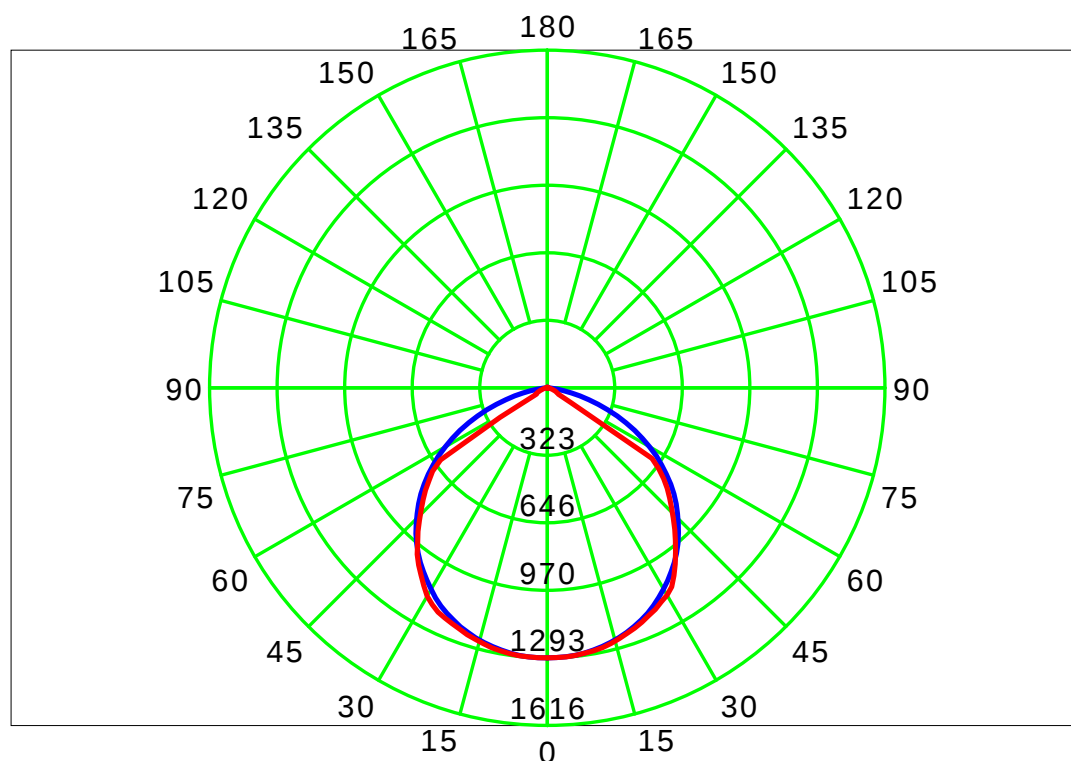
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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Temperature:

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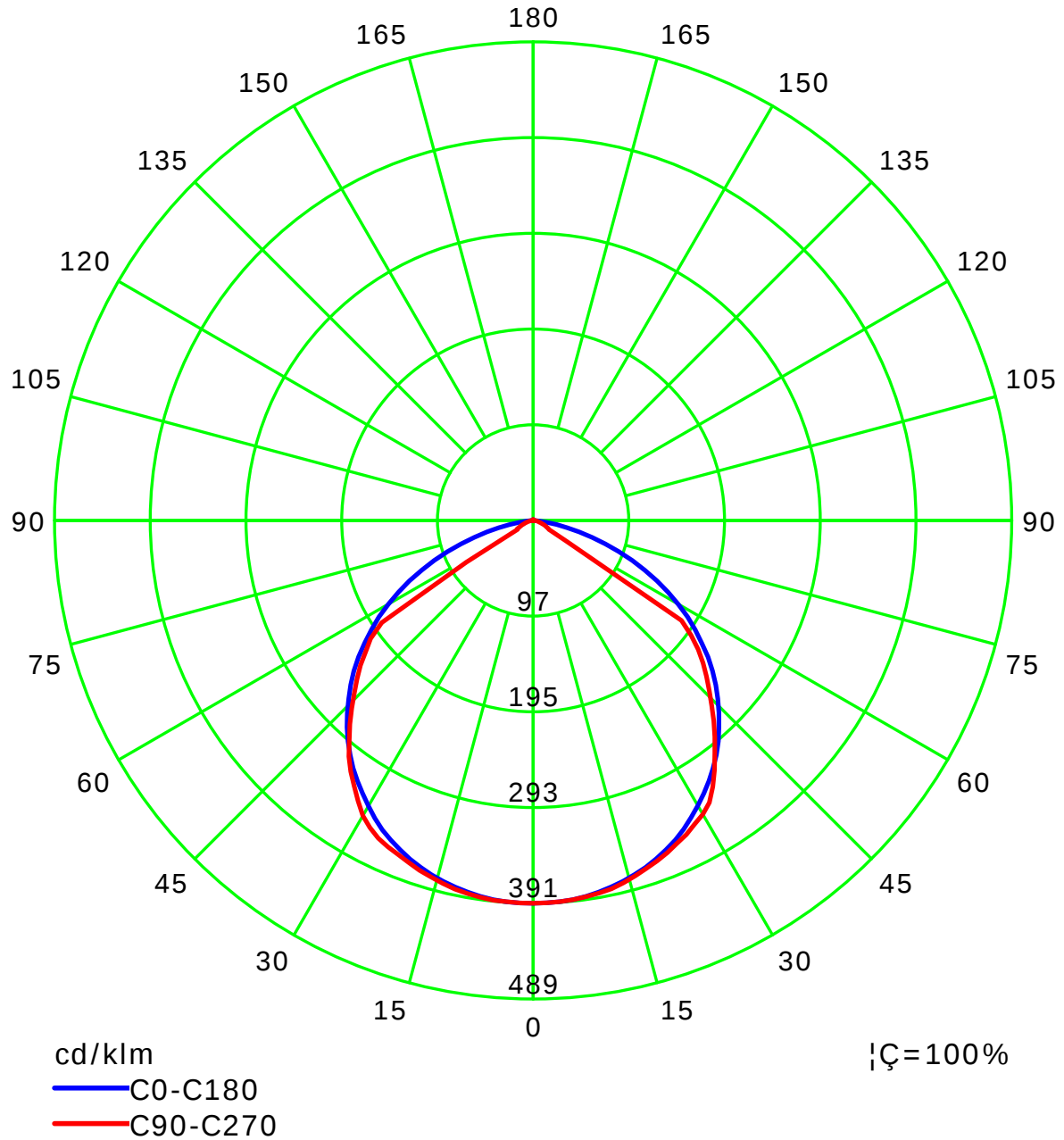
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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Test Device: LSG-1800B

Distance: 12.677 m

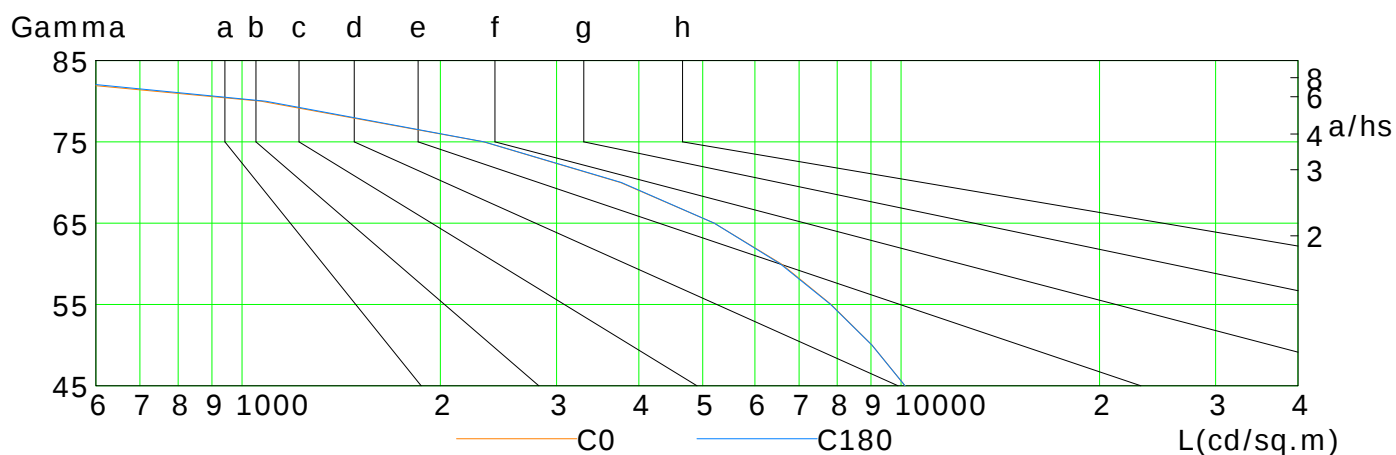
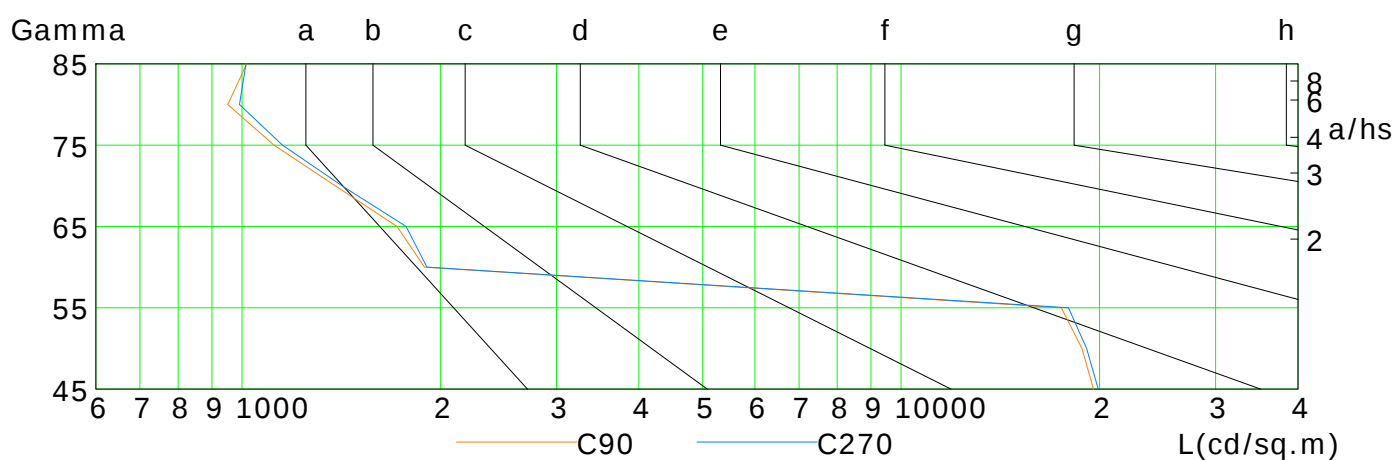
Humidity:

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	10137	9035	7828	6576	5206	3751	2327	1069	238
C90	19584	18804	17493	1892	1718	1386	1118	951	1016
C180	10139	9031	7816	6556	5205	3764	2331	1086	255
C270	19906	19114	17943	1908	1774	1418	1152	991	1014

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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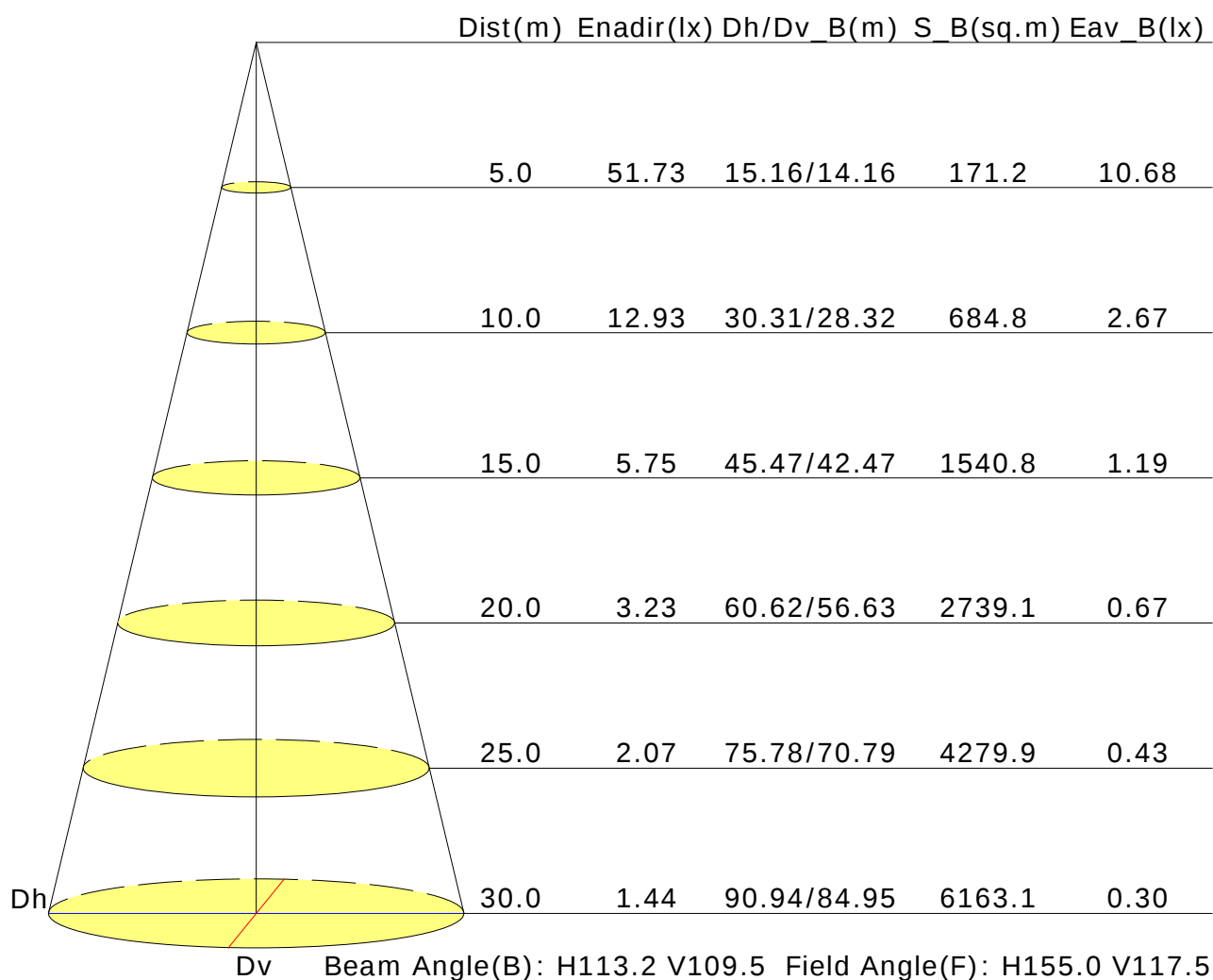
Test Device: LSG-1800B

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	20.4	21.6	20.7	21.9	22.1	20.2	21.5	20.5	21.8	22.0
3H	21.2	22.3	21.5	22.6	22.9	20.1	21.3	20.4	21.5	21.8
4H	21.4	22.5	21.7	22.7	23.0	20.0	21.1	20.4	21.4	21.7
6H	21.4	22.4	21.7	22.7	23.0	20.0	21.0	20.3	21.3	21.6
8H	21.3	22.3	21.7	22.6	23.0	19.9	20.9	20.3	21.2	21.6
12H	21.3	22.2	21.7	22.6	22.9	19.9	20.8	20.3	21.2	21.5
X=4H Y=2H	20.7	21.7	21.0	22.0	22.3	20.5	21.6	20.8	21.9	22.2
3H	21.5	22.5	21.9	22.8	23.1	20.4	21.3	20.8	21.6	22.0
4H	21.8	22.6	22.2	22.9	23.3	20.3	21.1	20.7	21.5	21.9
6H	21.8	22.5	22.2	22.9	23.3	20.3	21.0	20.7	21.4	21.8
8H	21.8	22.4	22.2	22.8	23.3	20.2	20.9	20.7	21.3	21.7
12H	21.7	22.3	22.2	22.7	23.2	20.2	20.8	20.7	21.2	21.7
X=8H Y=4H	21.7	22.3	22.1	22.7	23.2	20.3	20.9	20.7	21.3	21.7
6H	21.7	22.2	22.2	22.7	23.1	20.2	20.7	20.7	21.2	21.6
8H	21.7	22.1	22.2	22.6	23.1	20.2	20.6	20.7	21.1	21.6
12H	21.7	22.1	22.2	22.5	23.0	20.2	20.6	20.7	21.0	21.5
X=12H Y=4H	21.6	22.2	22.1	22.7	23.1	20.2	20.8	20.7	21.2	21.7
6H	21.7	22.1	22.2	22.6	23.1	20.2	20.6	20.7	21.1	21.6
8H	21.7	22.0	22.2	22.5	23.0	20.2	20.6	20.7	21.0	21.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.8/-1.0				
S=1.5H	+0.6/-1.5					+2.5/-9.5				
S=2.0H	+1.2/-2.3					+4.0/-11.7				

Calculate in accordance with CIE Pub.117. The table is revised with 3301lm ($8\log(F/F_0) = 4.1$).

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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 = 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	0.66	0.73	0.79	0.87	0.92	0.96	1.01	1.04	
	0.20		0.48	0.60	0.68	0.74	0.83	0.88	0.92	0.98	1.01	
0.50	0.50	0.20	0.60	0.71	0.78	0.83	0.89	0.94	0.97	1.00	1.03	
	0.30		0.53	0.64	0.72	0.77	0.85	0.90	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	0.76	0.80	0.86	0.90	0.93	0.97	0.99	
	0.30		0.52	0.63	0.71	0.76	0.83	0.87	0.90	0.94	0.97	
	0.20		0.48	0.59	0.67	0.72	0.79	0.84	0.88	0.92	0.95	
0.00	0.00	0.00	0.46	0.56	0.64	0.69	0.76	0.80	0.84	0.88	0.90	
Rating:24W 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	0.95	0.76	0.63	0.55	0.43	0.35	0.30	0.23	0.18	
	0.30		0.79	0.65	0.55	0.48	0.39	0.32	0.28	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	0.61	0.52	0.41	0.37	0.28	0.21	0.17	
	0.30		0.77	0.63	0.54	0.47	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		0.76	0.62	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	0.45	0.37	0.32	0.25	0.21	0.17	0.13	0.11	
Rating:24W 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:24W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												