

Report No.:

Test Time: 19.06.2020 11:02

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 65W 4000K матовый (opal) iFA40'300(110) (x2) s soedineniem

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.0 V

Current: 0.323 A

Power: 68.83 W

Power Factor: 0.963

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 7087.5 lm

Measurement Flux: 7087.5 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 166.0, 162.1, 163.2, 163.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.0, 108.7, 109.8, 109.9

Luminaire Efficacy Rating (LER): 103.02

Central Intensity: 2480.35 cd

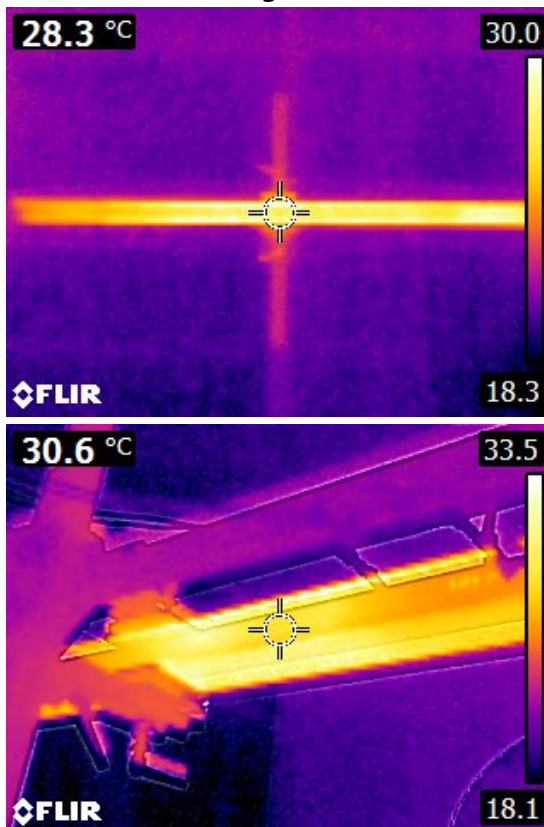
Max. Intensity: 2488.78 cd

Pos of Max. Intensity: H112.5 V0

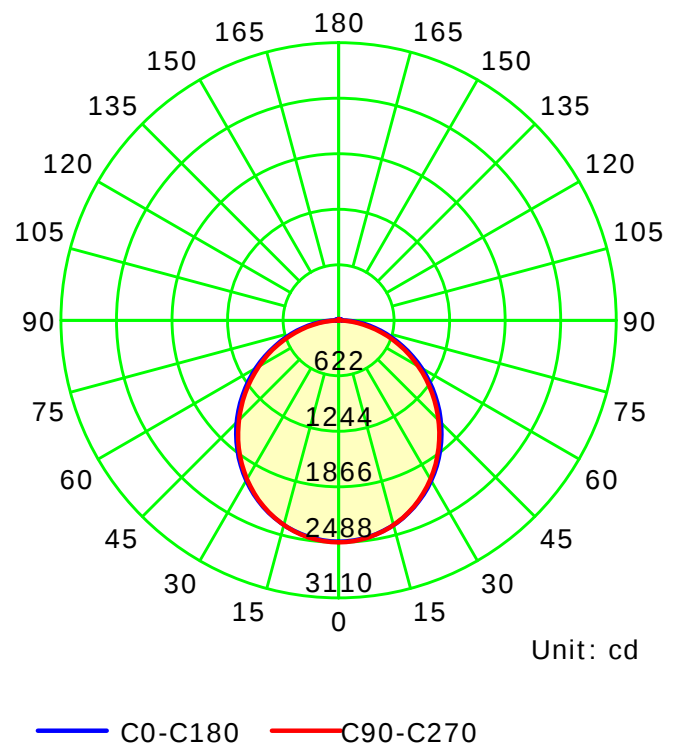
S/MH(C0/C180): 1.24

S/MH(C90/C270): 1.23

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

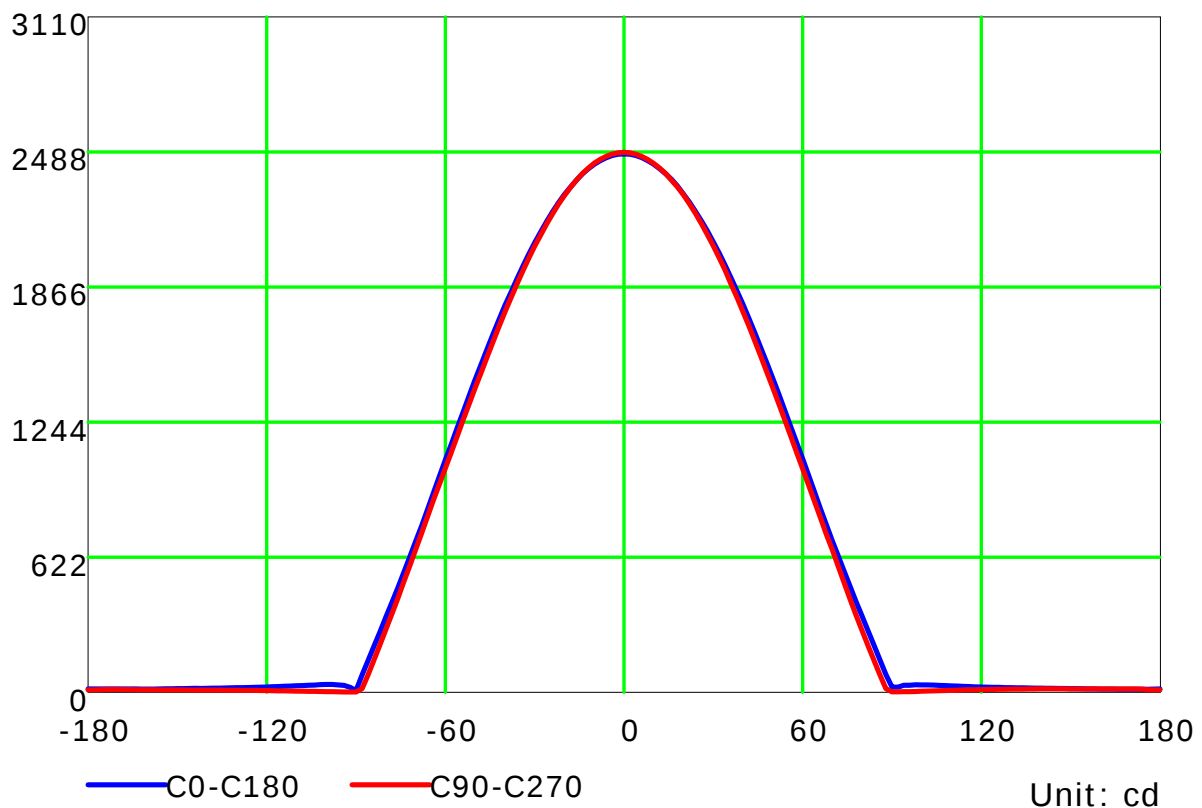
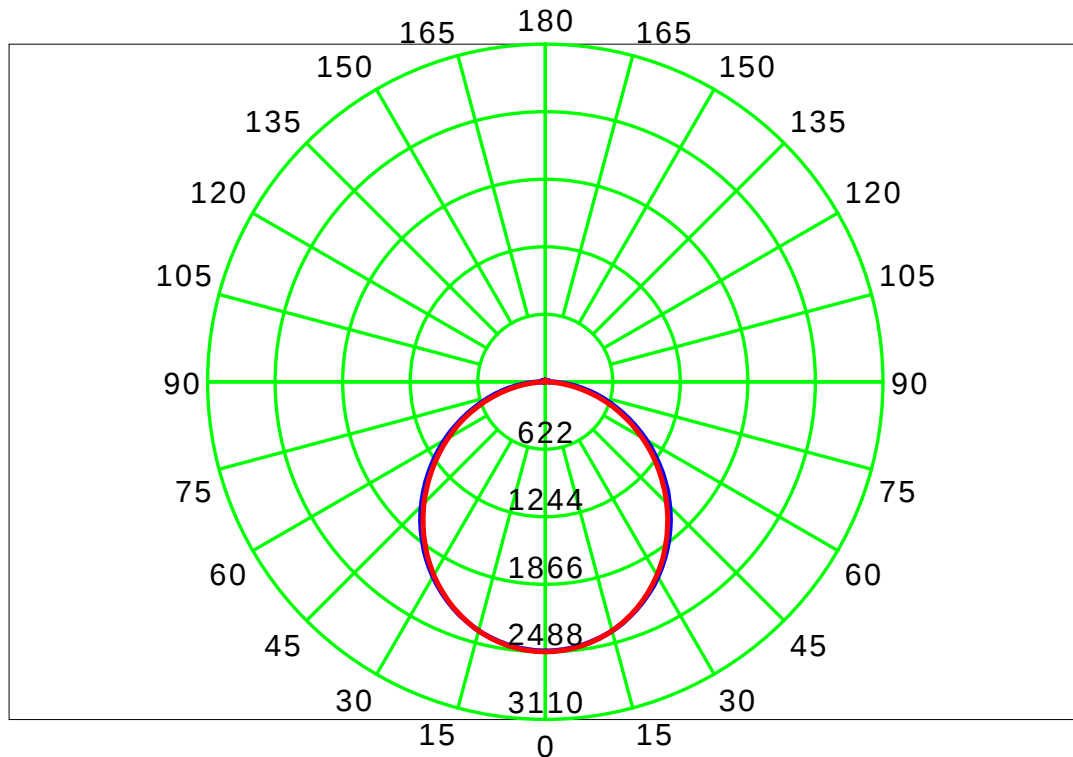
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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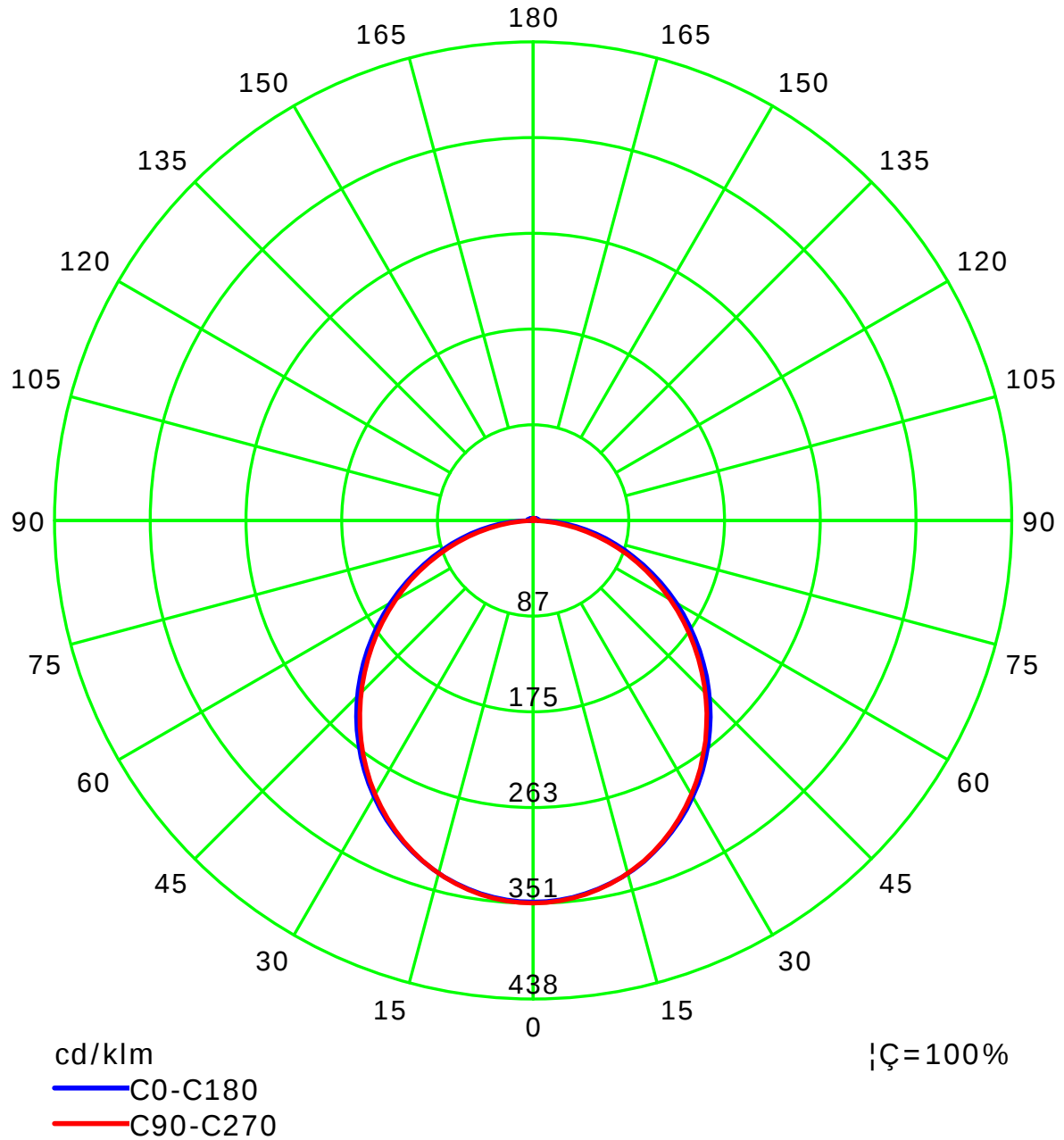
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

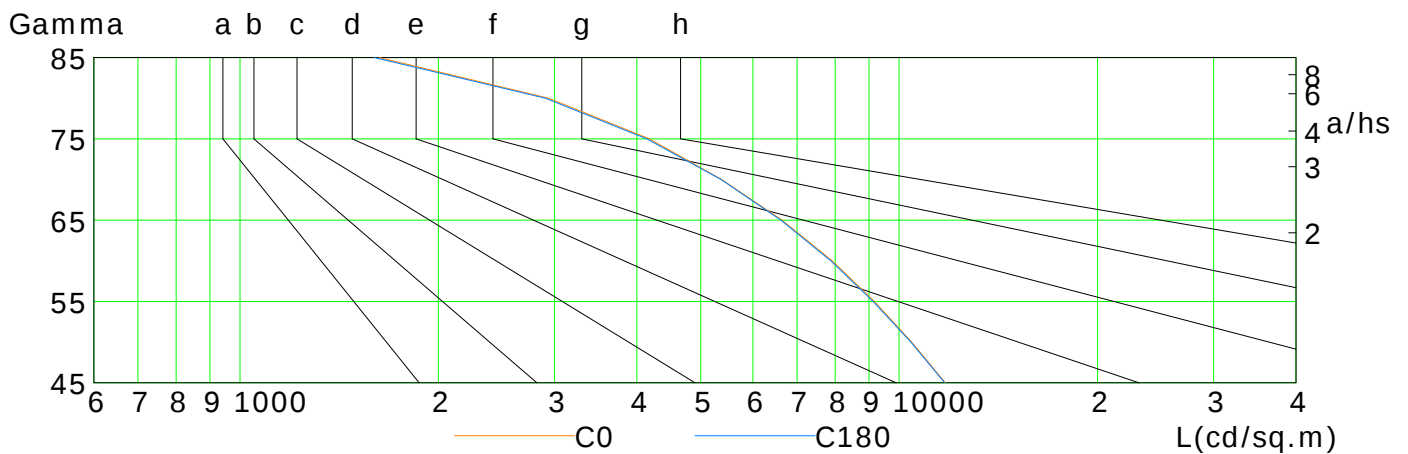
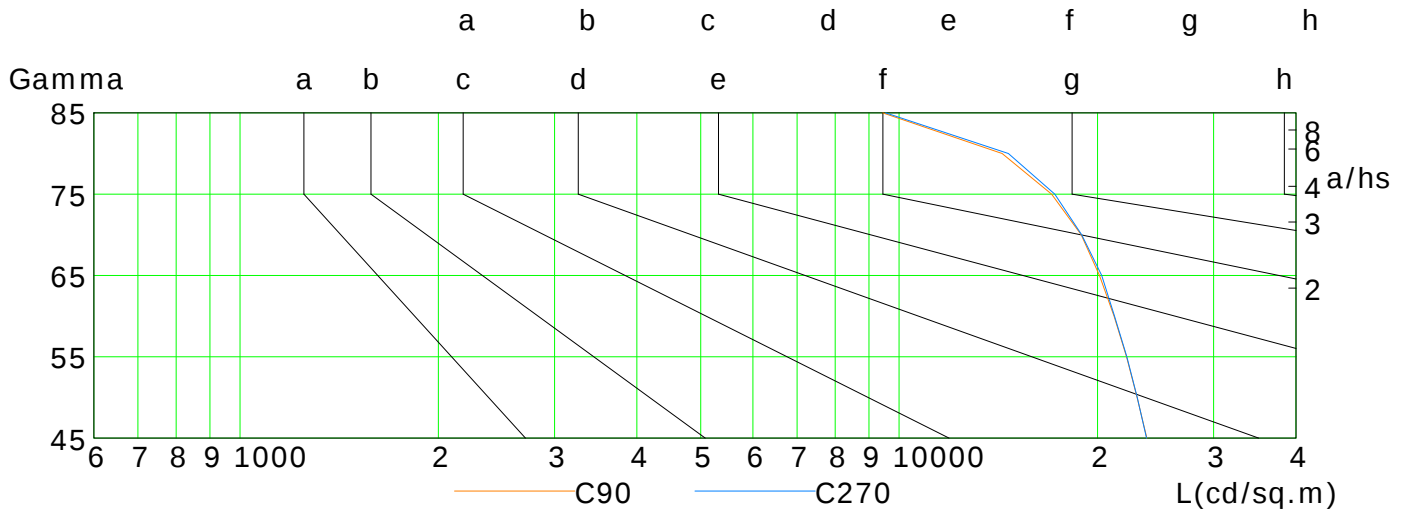
Inspector:

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	11752	10449	9170	7914	6643	5381	4179	2937	1626
C90	23753	22968	22129	21187	20133	18886	17031	14331	9442
C180	11722	10417	9130	7880	6616	5369	4140	2907	1598
C270	23727	22972	22152	21225	20294	18922	17226	14649	9540

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Test Type: TYPE C

Temperature:

Operator:

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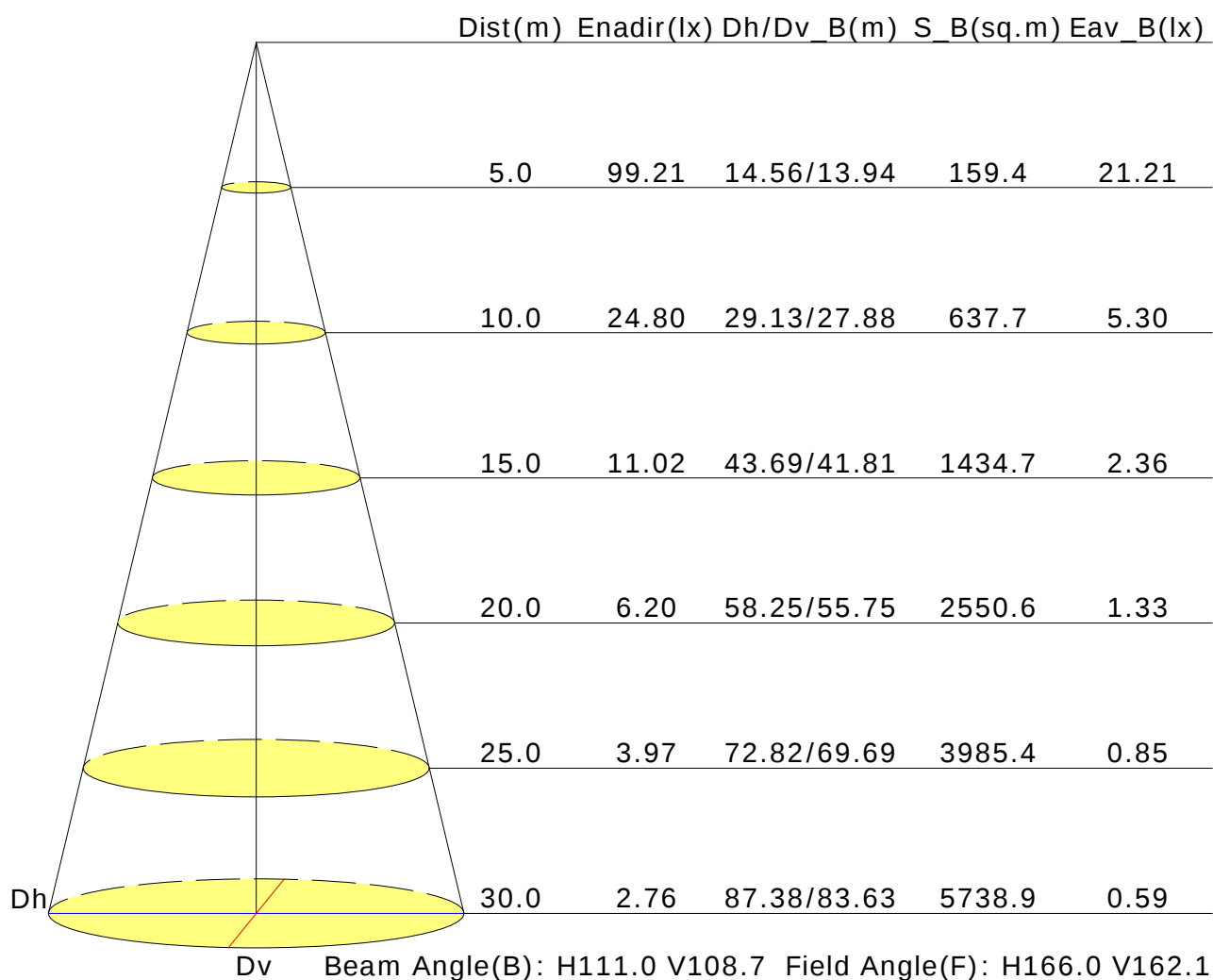
Test Device: LSG-1800B

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	20.4	21.8	20.7	22.0	22.3	22.0	23.3	22.3	23.6	23.9
3H	21.5	22.8	21.8	23.0	23.4	23.5	24.7	23.8	25.0	25.3
4H	21.9	23.1	22.3	23.4	23.7	24.1	25.3	24.5	25.6	25.9
6H	22.2	23.3	22.6	23.6	24.0	24.5	25.7	24.9	26.0	26.3
8H	22.3	23.3	22.7	23.7	24.0	24.7	25.7	25.1	26.1	26.5
12H	22.3	23.3	22.7	23.7	24.0	24.7	25.8	25.1	26.1	26.5
X=4H Y=2H	21.0	22.2	21.4	22.5	22.8	22.3	23.5	22.7	23.8	24.1
3H	22.3	23.3	22.7	23.7	24.0	24.0	25.0	24.4	25.3	25.7
4H	22.8	23.7	23.2	24.1	24.5	24.7	25.6	25.1	26.0	26.4
6H	23.2	24.0	23.6	24.4	24.8	25.2	26.0	25.6	26.4	26.8
8H	23.3	24.0	23.7	24.5	24.9	25.4	26.1	25.8	26.5	27.0
12H	23.3	24.0	23.8	24.5	24.9	25.5	26.1	25.9	26.6	27.1
X=8H Y=4H	23.1	23.8	23.5	24.2	24.7	24.8	25.5	25.2	25.9	26.4
6H	23.5	24.1	24.0	24.6	25.1	25.4	26.0	25.9	26.4	26.9
8H	23.7	24.2	24.2	24.7	25.2	25.6	26.1	26.1	26.6	27.1
12H	23.8	24.3	24.3	24.8	25.3	25.7	26.2	26.2	26.7	27.2
X=12H Y=4H	23.1	23.7	23.5	24.2	24.7	24.7	25.4	25.2	25.9	26.3
6H	23.6	24.1	24.1	24.6	25.1	25.4	25.9	25.9	26.4	26.9
8H	23.8	24.2	24.3	24.7	25.2	25.6	26.1	26.1	26.6	27.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.1/-0.2				
S=1.5H	+0.4/-0.7					+0.5/-0.6				
S=2.0H	+0.7/-1.2					+1.1/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 7087lm ($8\log(F/F_0) = 6.8$).

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Temperature:

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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	0.56	0.66	0.74	0.79	0.86	0.91	0.95	1.00	1.03	
	0.30		0.48	0.59	0.66	0.72	0.80	0.86	0.90	0.95	0.99	
	0.20		0.43	0.53	0.60	0.66	0.75	0.81	0.85	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.95	0.98	
	0.30		0.47	0.57	0.65	0.70	0.78	0.83	0.87	0.92	0.95	
	0.20		0.42	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.92	
0.30	0.50	0.20	0.53	0.62	0.69	0.73	0.80	0.84	0.87	0.91	0.94	
	0.30		0.46	0.56	0.63	0.68	0.75	0.80	0.84	0.89	0.92	
	0.20		0.42	0.51	0.59	0.64	0.72	0.77	0.81	0.86	0.89	
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.68	0.73	0.76	0.81	0.84	
Rating:69W 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	1.00	0.83	0.71	0.62	0.49	0.41	0.35	0.27	0.22	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20	
0.50	0.50	0.20	0.96	0.79	0.68	0.59	0.47	0.42	0.34	0.26	0.21	
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.29	0.23	0.20	
0.30	0.50	0.20	0.93	0.76	0.65	0.57	0.45	0.37	0.32	0.25	0.20	
	0.30		0.80	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.28	0.23	0.19	
0.00	0.00	0.00	0.60	0.50	0.43	0.38	0.31	0.26	0.22	0.18	0.15	
Rating:69W 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	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.21	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.21	0.21	0.22	0.22	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.18	0.19	
	0.20		0.06	0.07	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:69W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												