

Report No.:

Test Time: 18.06.2020 23:03

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 45W 4000K матовый (opal) ИПС50-382Т(130) IP20 s soedineniem

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.3 V

Current: 0.203 A

Power: 44.11 W

Power Factor: 0.981

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 4914.8 lm

Measurement Flux: 4914.8 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 166.0, 162.4, 163.5, 163.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.1, 108.8, 109.9, 109.8

Luminaire Efficacy Rating (LER): 111.47

Central Intensity: 1719.52 cd

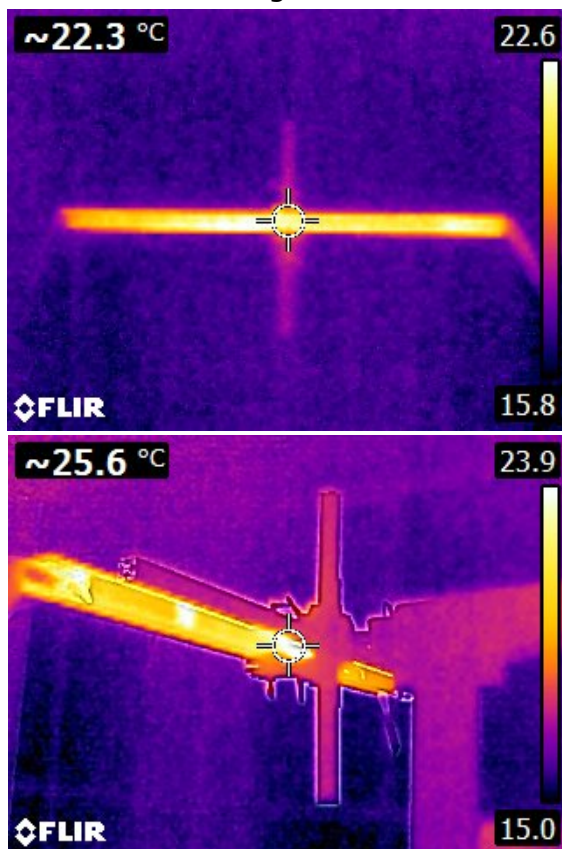
Max. Intensity: 1722.12 cd

Pos of Max. Intensity: H90 V0

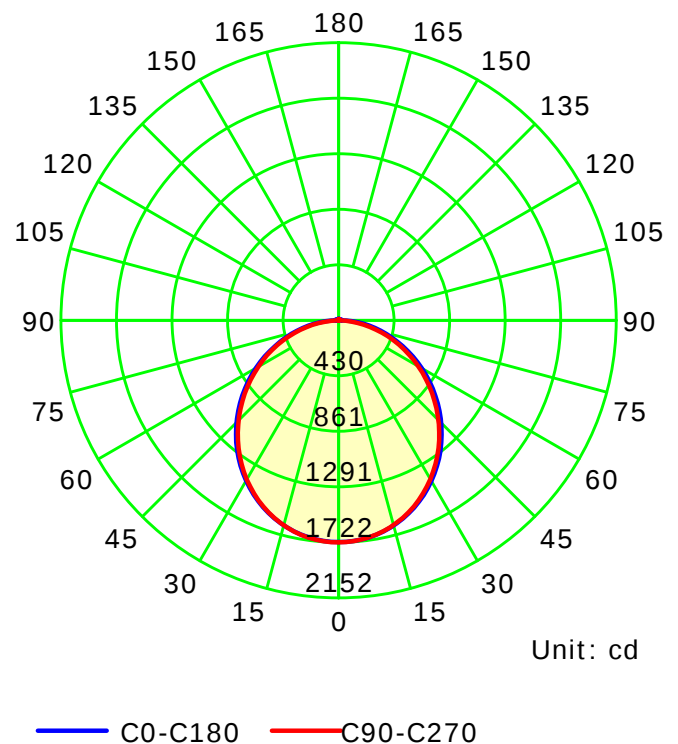
S/MH(C0/C180): 1.24

S/MH(C90/C270): 1.23

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

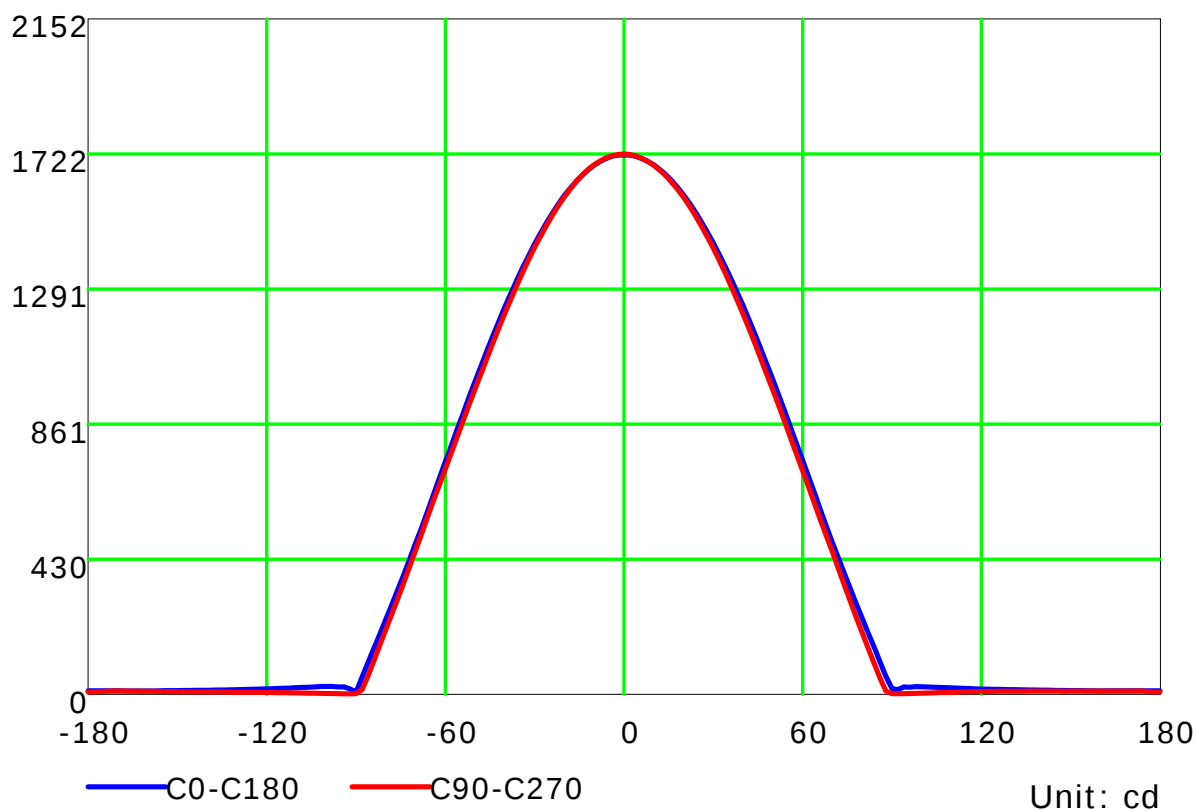
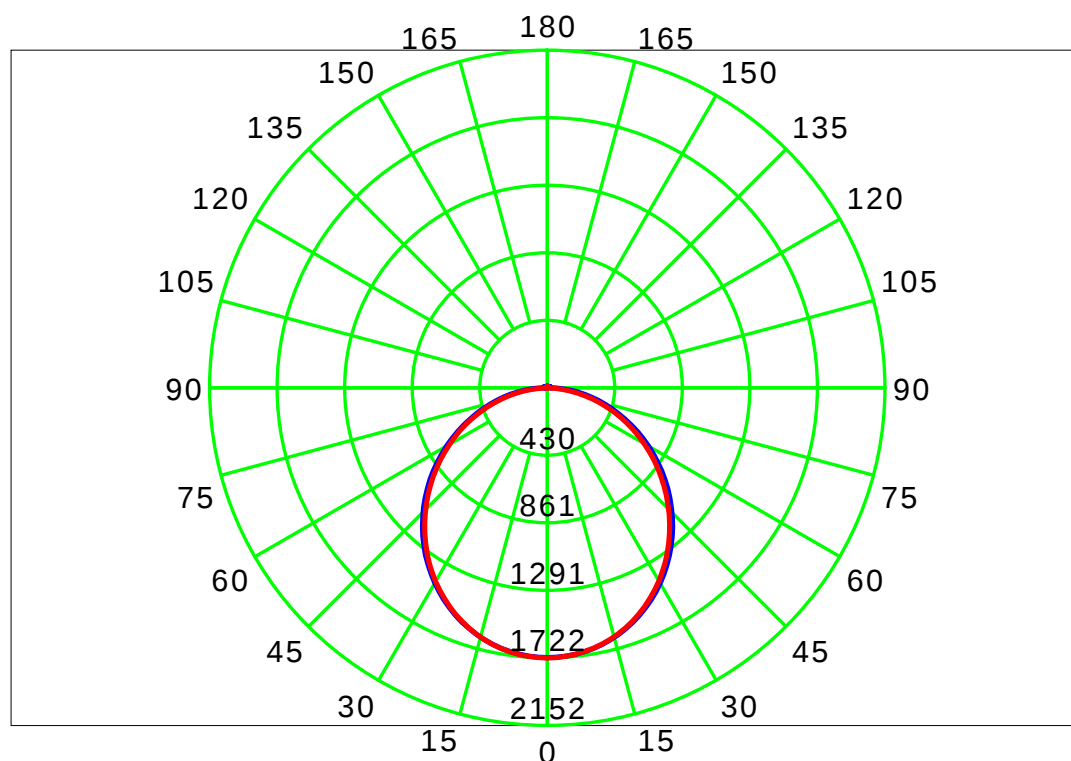
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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Temperature:

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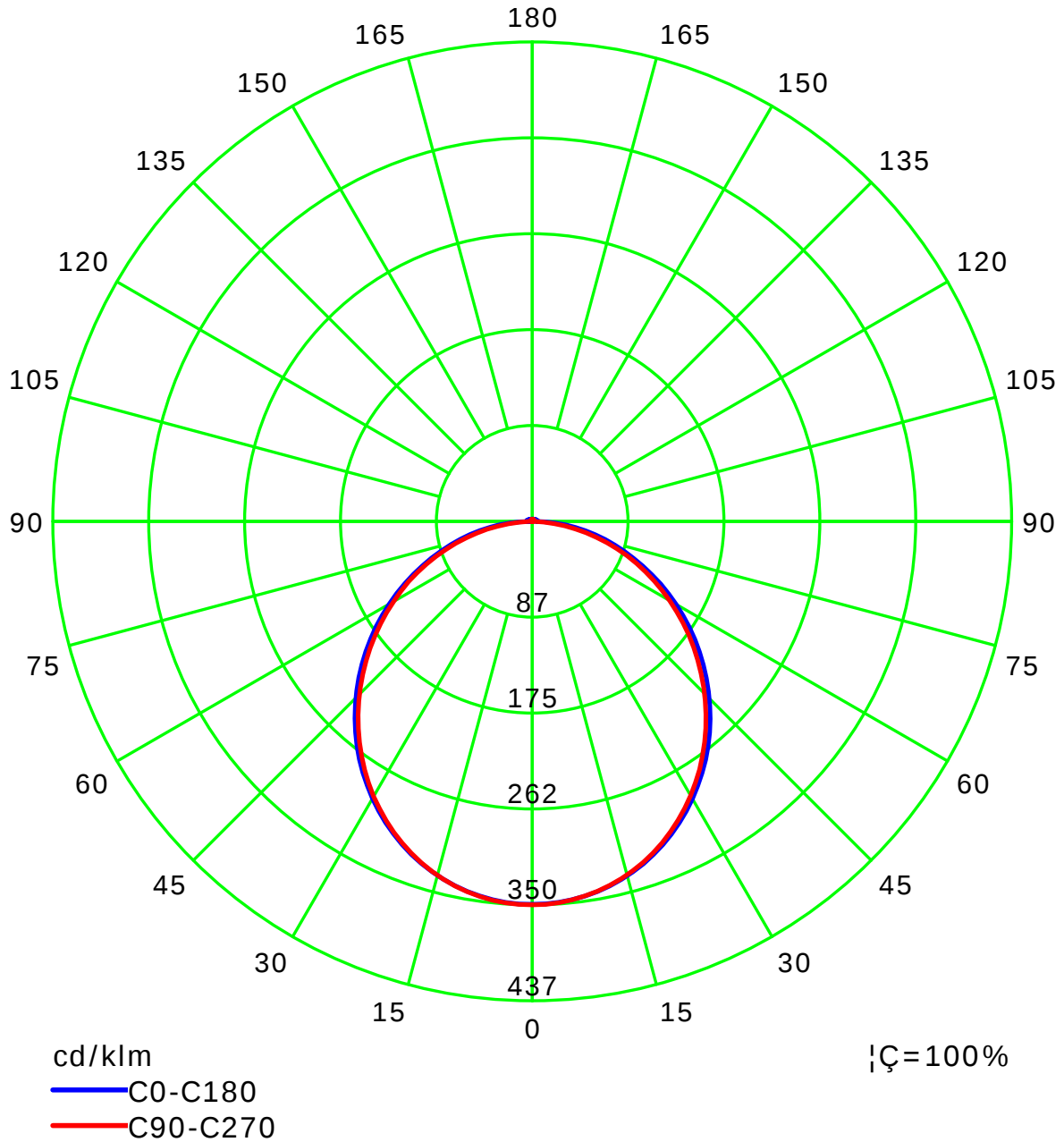
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

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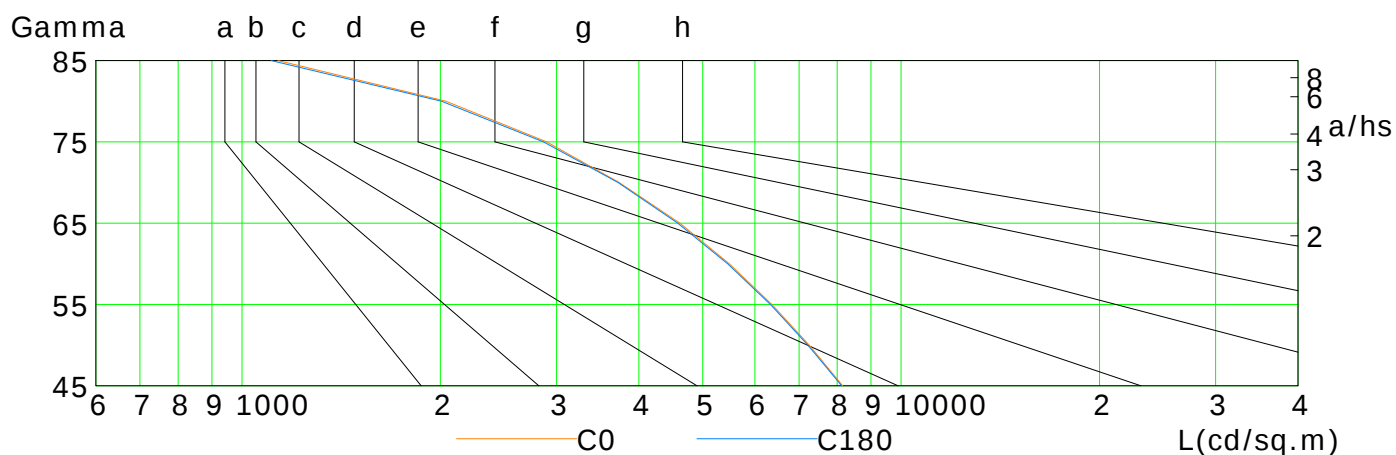
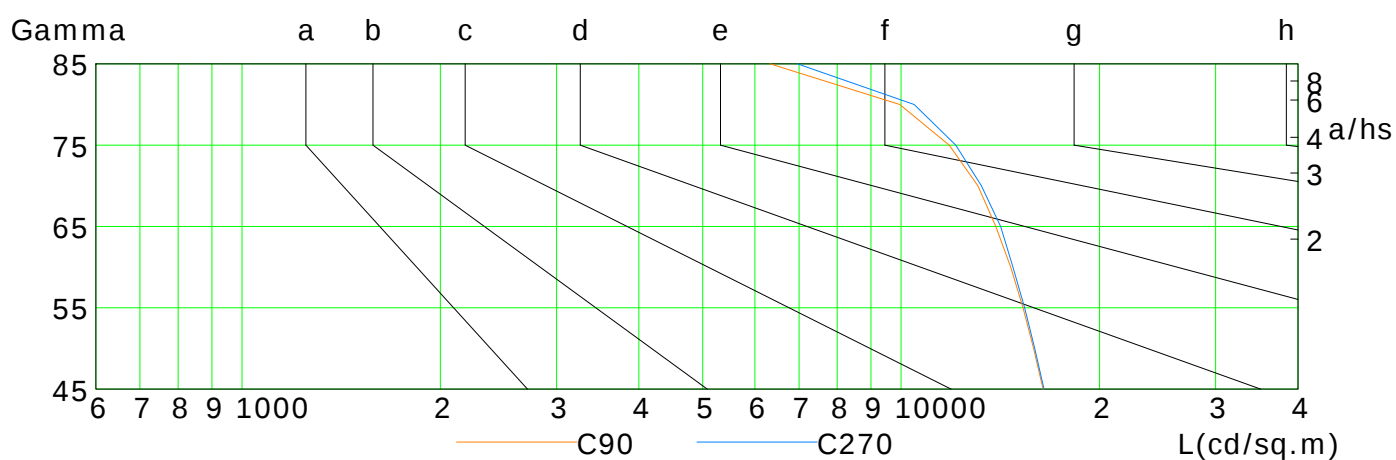
Humidity:

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	8153	7252	6367	5487	4615	3733	2899	2038	1134
C90	16420	15884	15311	14660	13921	13078	11831	9952	6329
C180	8125	7219	6333	5457	4582	3720	2867	2007	1107
C270	16472	15948	15399	14777	14155	13234	12107	10467	6962

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

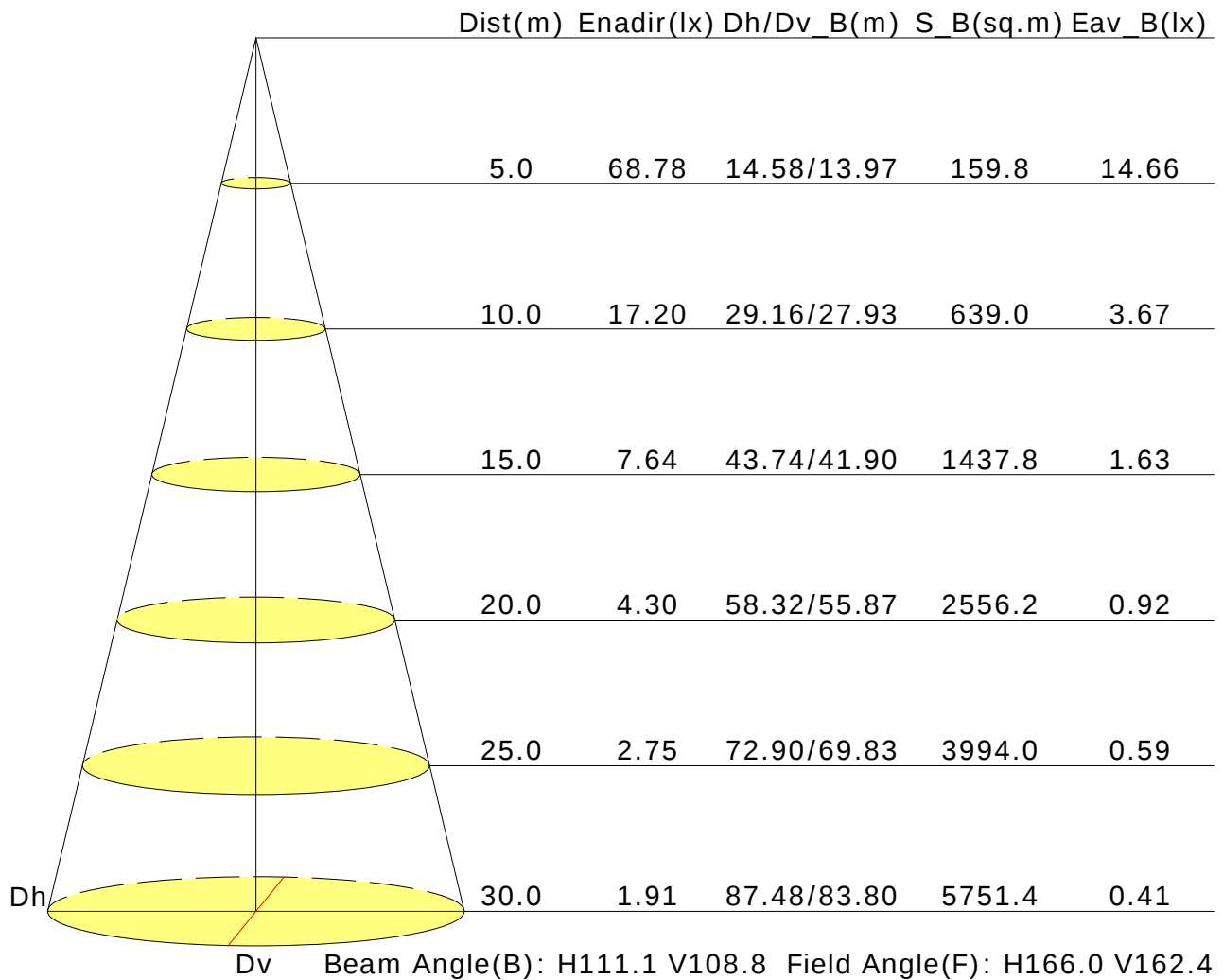
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

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	19.1	20.5	19.4	20.7	21.0	20.7	22.1	21.0	22.3	22.6
3H	20.2	21.5	20.6	21.8	22.1	22.2	23.5	22.6	23.8	24.1
4H	20.6	21.8	21.0	22.1	22.5	22.8	24.0	23.2	24.3	24.7
6H	20.9	22.0	21.3	22.4	22.7	23.3	24.4	23.7	24.7	25.1
8H	21.0	22.1	21.4	22.4	22.8	23.4	24.5	23.8	24.8	25.2
12H	21.0	22.0	21.4	22.4	22.8	23.5	24.5	23.9	24.9	25.3
X=4H Y=2H	19.7	20.9	20.1	21.2	21.6	21.0	22.2	21.4	22.5	22.8
3H	21.0	22.0	21.4	22.4	22.8	22.7	23.7	23.1	24.1	24.4
4H	21.5	22.5	22.0	22.8	23.2	23.4	24.3	23.8	24.7	25.1
6H	21.9	22.7	22.4	23.1	23.6	23.9	24.8	24.4	25.2	25.6
8H	22.0	22.8	22.5	23.2	23.7	24.1	24.9	24.6	25.3	25.8
12H	22.1	22.8	22.6	23.2	23.7	24.2	24.9	24.7	25.3	25.8
X=8H Y=4H	21.8	22.5	22.3	23.0	23.4	23.5	24.2	24.0	24.7	25.1
6H	22.3	22.9	22.8	23.3	23.8	24.1	24.7	24.6	25.2	25.7
8H	22.4	23.0	22.9	23.5	24.0	24.4	24.9	24.9	25.4	25.9
12H	22.5	23.0	23.1	23.5	24.0	24.5	25.0	25.0	25.4	26.0
X=12H Y=4H	21.8	22.5	22.3	22.9	23.4	23.5	24.2	24.0	24.6	25.1
6H	22.3	22.8	22.8	23.3	23.8	24.1	24.7	24.6	25.1	25.7
8H	22.5	23.0	23.0	23.5	24.0	24.4	24.8	24.9	25.3	25.9
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 4915lm ($8\log(F/F_0) = 5.5$).

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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:

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		0.42	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	0.58	0.64	0.71	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:44W 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	0.50	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	0.80	0.68	0.59	0.47	0.43	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	0.30	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	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.50	0.43	0.38	0.31	0.26	0.23	0.18	0.15	
Rating:44W 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	0.08	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:44W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												