

Report No.:

Test Time: 26.06.2020 13:36

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 24W 4000K матовый (opal) ИПС35-300ТД s soedineniem

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.4 V

Current: 0.114 A

Power: 24.59 W

Power Factor: 0.966

Photometric Results

CIE Class: Direct

Measurement Flux: 2628.2 lm

Downward Ratio: 98%

Total Rated Lamp Lumens: 2628.2 lm

Efficiency: 100%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 166.6, 162.9, 163.6, 163.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.3, 111.6, 112.4, 112.4

Luminaire Efficacy Rating (LER): 106.93

Central Intensity: 896.39 cd

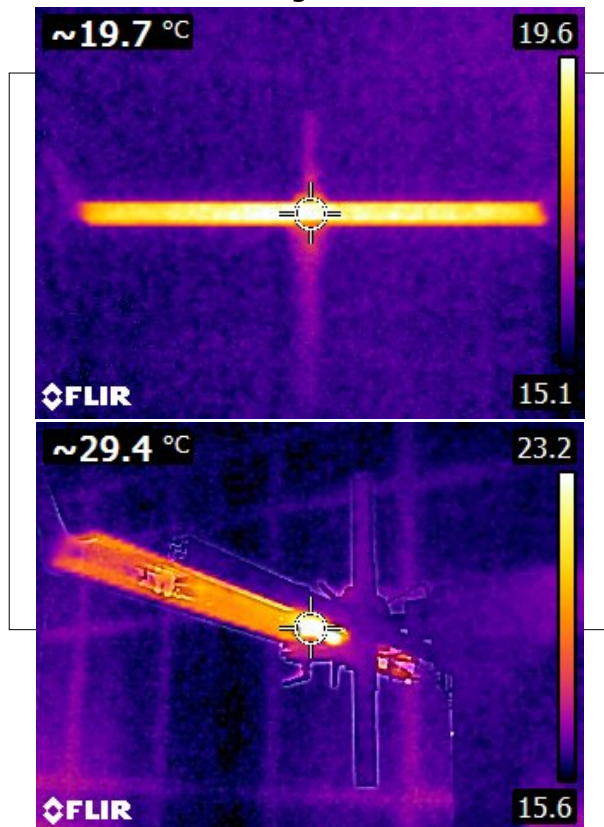
Max. Intensity: 896.62 cd

Pos of Max. Intensity: H90 V2

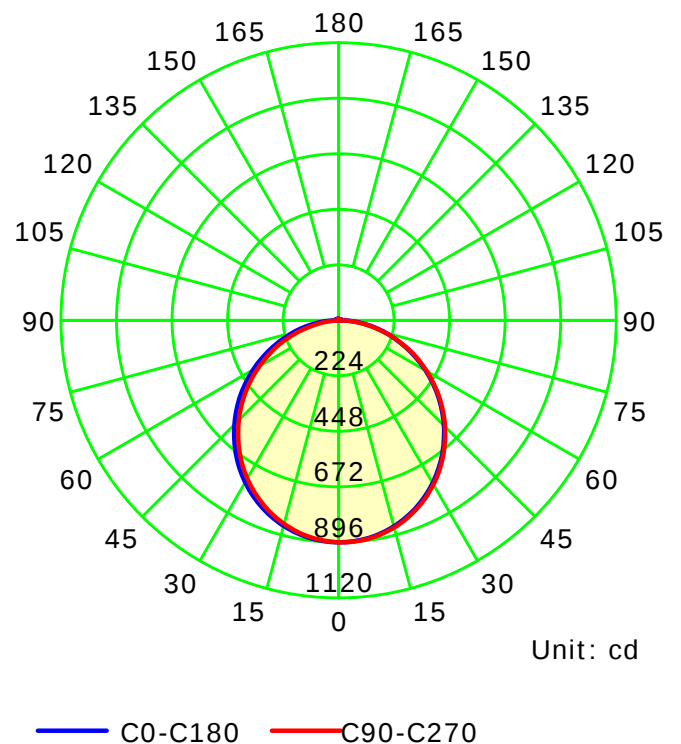
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.25

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

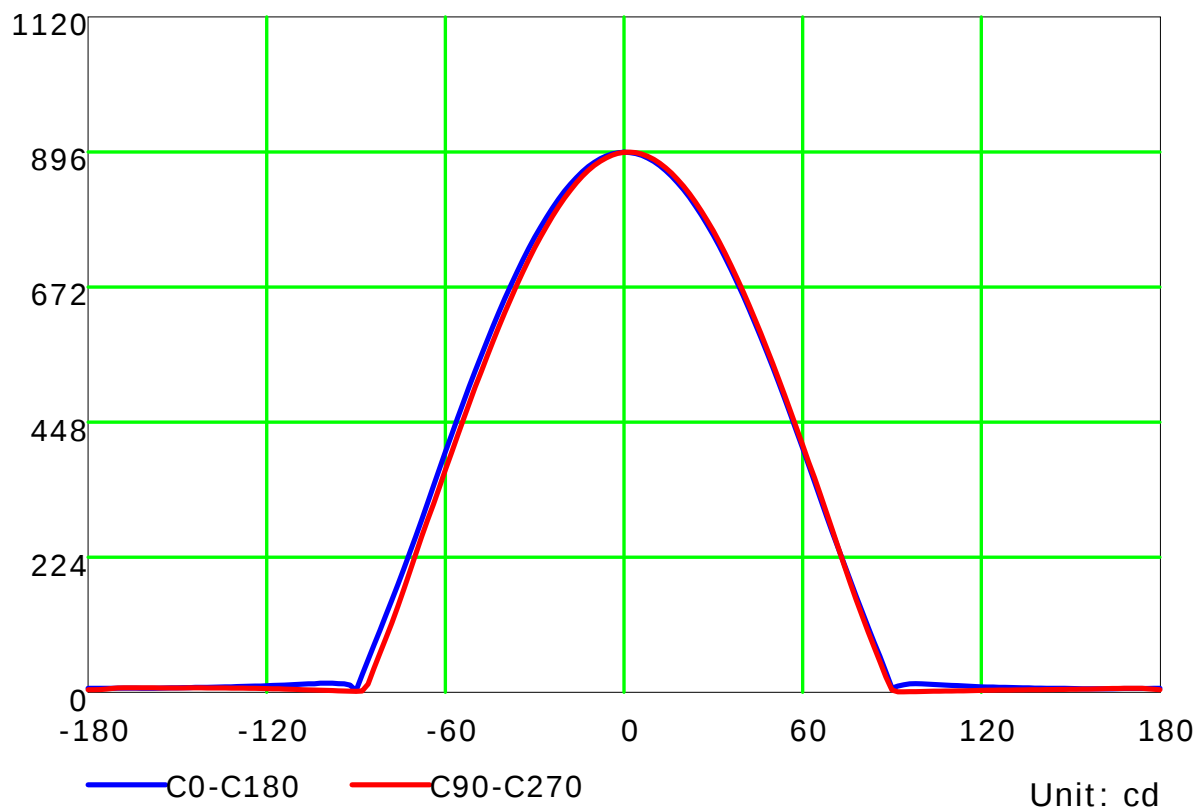
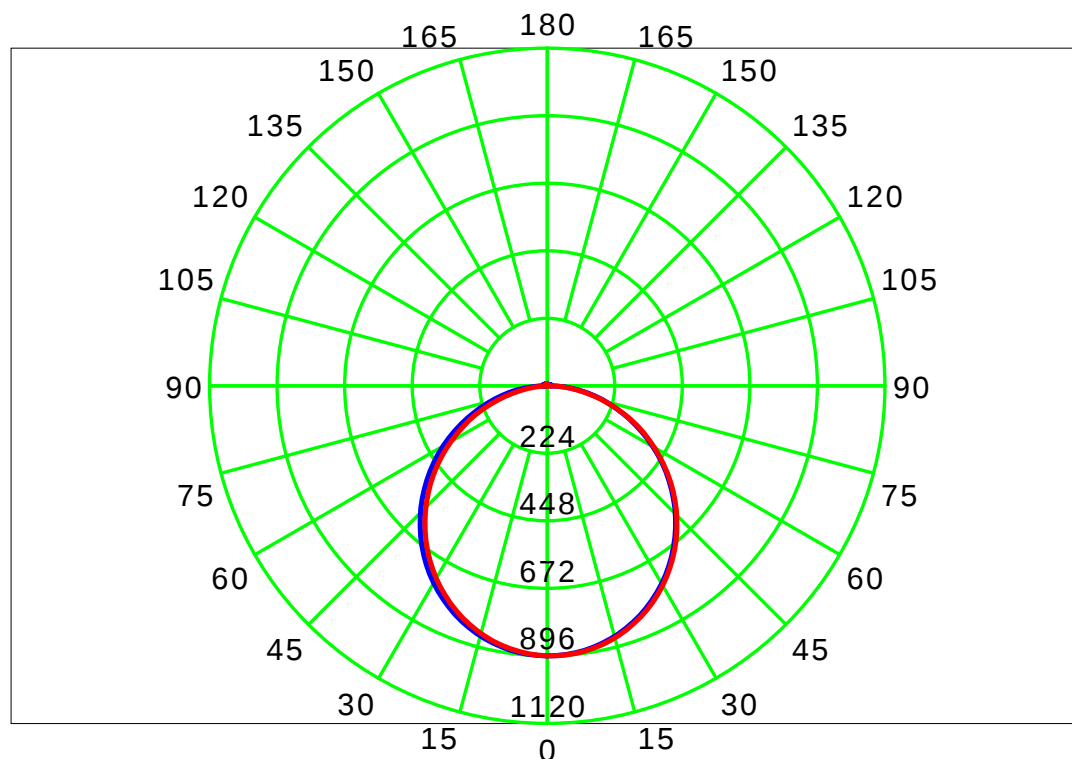
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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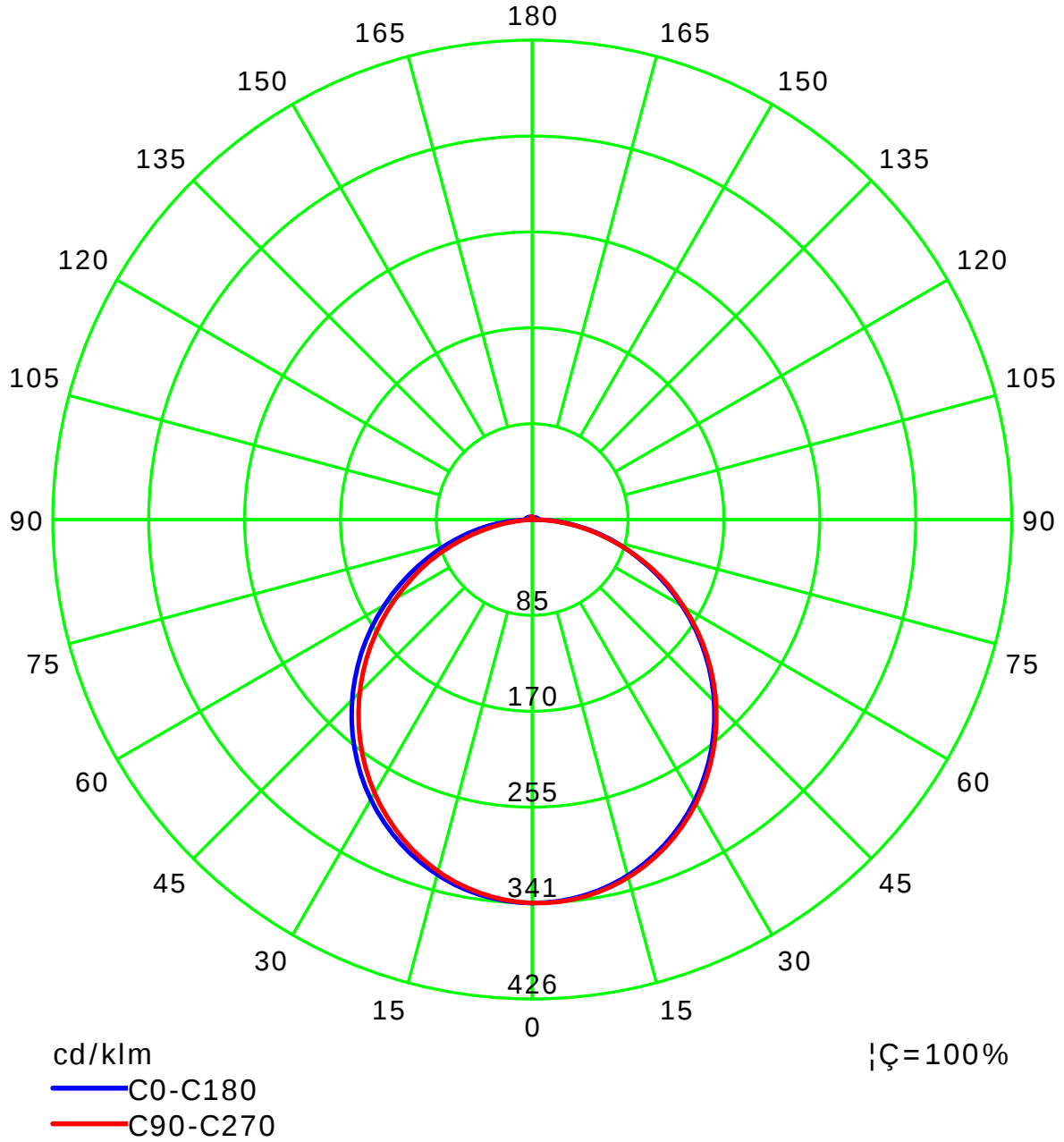
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

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Test Device: LSG-1800B

Distance: 12.677 m

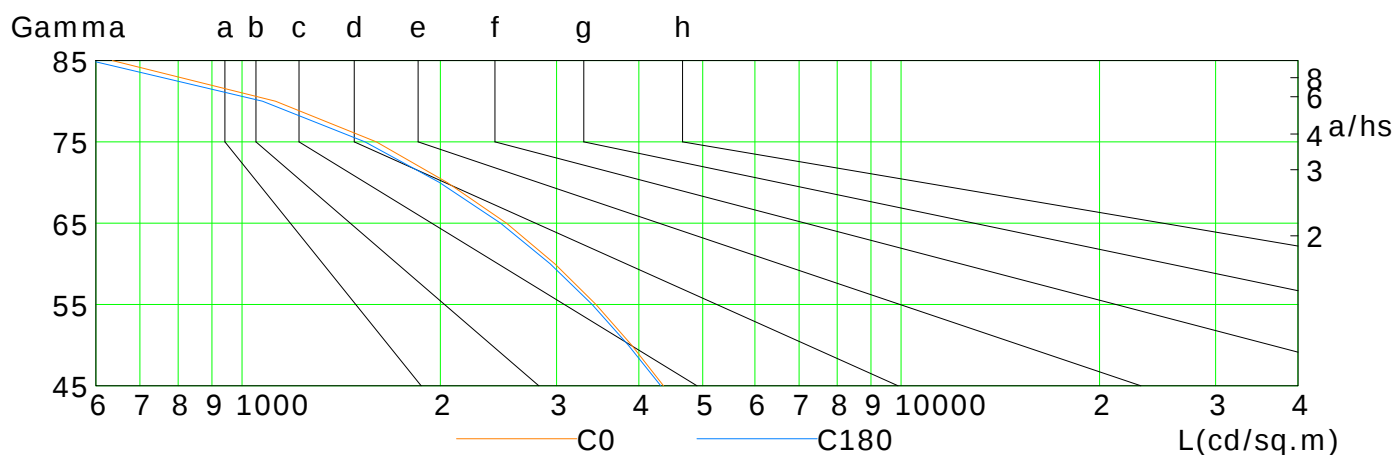
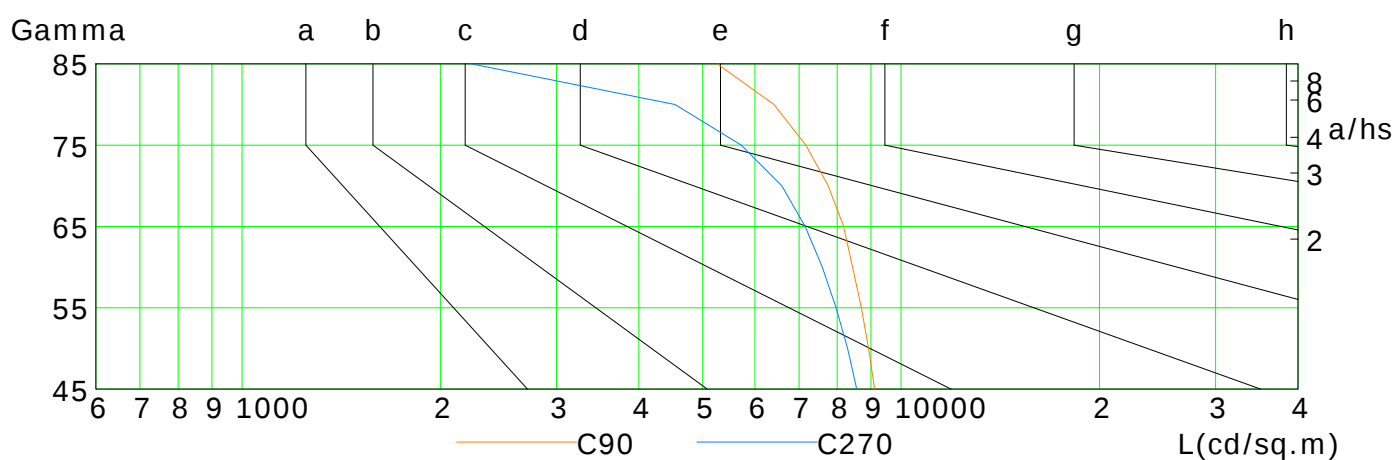
Humidity:

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	4359	3900	3443	2982	2519	2048	1599	1124	636
C90	9117	8926	8703	8439	8178	7753	7169	6411	5260
C180	4319	3855	3397	2935	2467	1994	1536	1074	589
C270	8563	8294	7969	7591	7154	6590	5722	4540	2229

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

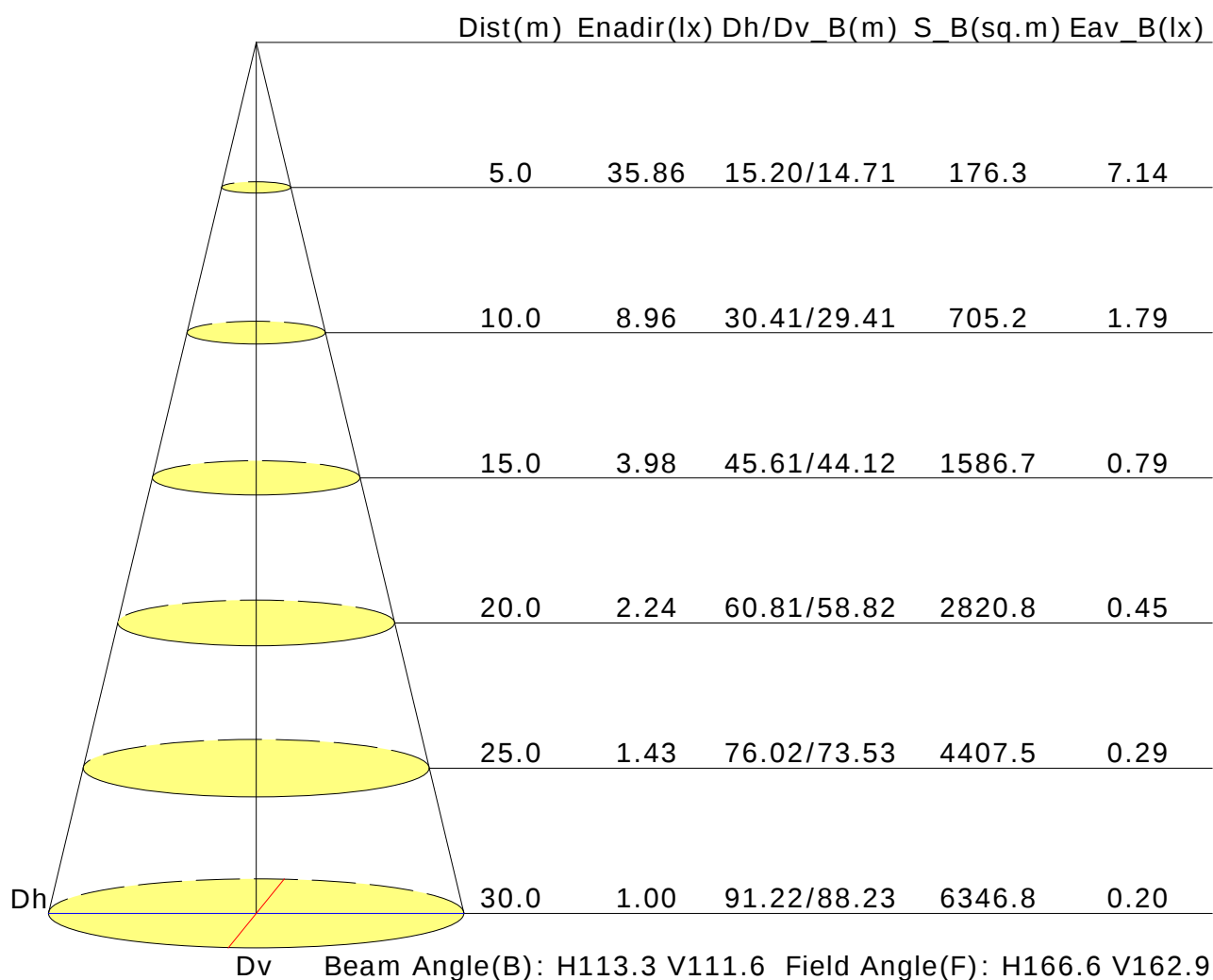
Test Device: LSG-1800B

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	17.0	18.4	17.3	18.6	18.9	18.6	20.0	18.9	20.2	20.5
3H	18.1	19.4	18.5	19.7	20.0	20.1	21.4	20.5	21.7	22.0
4H	18.6	19.7	18.9	20.1	20.4	20.8	21.9	21.1	22.3	22.6
6H	18.8	19.9	19.2	20.3	20.6	21.2	22.3	21.6	22.7	23.0
8H	18.9	20.0	19.3	20.3	20.7	21.4	22.4	21.7	22.8	23.1
12H	19.0	20.0	19.4	20.3	20.7	21.4	22.5	21.8	22.8	23.2
X=4H Y=2H	17.6	18.8	18.0	19.1	19.5	18.9	20.1	19.3	20.4	20.8
3H	18.9	20.0	19.3	20.3	20.7	20.6	21.6	21.0	22.0	22.4
4H	19.5	20.4	19.9	20.8	21.2	21.3	22.2	21.7	22.6	23.0
6H	19.8	20.7	20.3	21.1	21.5	21.8	22.7	22.3	23.1	23.5
8H	19.9	20.7	20.4	21.1	21.6	22.0	22.8	22.5	23.2	23.7
12H	20.0	20.7	20.5	21.1	21.6	22.1	22.8	22.6	23.3	23.8
X=8H Y=4H	19.7	20.5	20.2	20.9	21.3	21.4	22.2	21.9	22.6	23.0
6H	20.2	20.8	20.7	21.3	21.8	22.0	22.6	22.5	23.1	23.6
8H	20.4	20.9	20.9	21.4	21.9	22.2	22.8	22.8	23.3	23.8
12H	20.5	20.9	21.0	21.4	22.0	22.4	22.9	22.9	23.4	23.9
X=12H Y=4H	19.7	20.4	20.2	20.8	21.3	21.4	22.1	21.9	22.5	23.0
6H	20.2	20.8	20.7	21.2	21.8	22.0	22.6	22.5	23.0	23.6
8H	20.4	20.9	20.9	21.4	21.9	22.3	22.7	22.8	23.2	23.8
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.1/-0.1				
S=1.5H	+0.4/-0.7					+0.4/-0.4				
S=2.0H	+0.7/-1.2					+0.9/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2628lm ($8\log(F/F_0) = 3.4$).

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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	0.73	0.79	0.86	0.91	0.95	0.99	1.02	
	0.30		0.48	0.58	0.66	0.71	0.80	0.85	0.89	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.74	0.80	0.85	0.91	0.95	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.87	0.91	0.95	0.98	
	0.30		0.47	0.57	0.64	0.69	0.77	0.83	0.86	0.92	0.95	
	0.20		0.41	0.52	0.59	0.64	0.73	0.78	0.83	0.88	0.92	
0.30	0.50	0.20	0.52	0.62	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
	0.30		0.46	0.56	0.62	0.68	0.75	0.80	0.83	0.88	0.91	
	0.20		0.41	0.51	0.58	0.63	0.71	0.76	0.80	0.86	0.89	
0.00	0.00	0.00	0.39	0.48	0.55	0.60	0.67	0.72	0.76	0.81	0.84	
Rating:25W 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	1.01	0.84	0.71	0.62	0.50	0.42	0.36	0.28	0.23	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.48	0.43	0.34	0.26	0.21	
	0.30		0.82	0.69	0.60	0.53	0.43	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.94	0.77	0.65	0.57	0.45	0.38	0.32	0.25	0.21	
	0.30		0.80	0.68	0.59	0.52	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	0.51	0.44	0.39	0.31	0.26	0.23	0.18	0.15	
Rating:25W 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	0.21	0.22	0.22	0.23	0.23	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	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	0.19	0.19	0.20	0.21	0.21	0.22	0.22	0.22	
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.17	0.19	0.19	
	0.20		0.06	0.08	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Rating:25W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												