

Report No.:

Test Time: 26.06.2020 11:57

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 24W 4000K prozrachniy ИПС35-300ТД s soedineniem

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.3 V

Current: 0.115 A

Power: 24.85 W

Power Factor: 0.968

Photometric Results

CIE Class: Direct

Measurement Flux: 3634.7 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3634.7 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.0, 118.1, 133.4, 133.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.9, 106.5, 111.2, 110.9

Luminaire Efficacy Rating (LER): 146.32

Central Intensity: 1416.83 cd

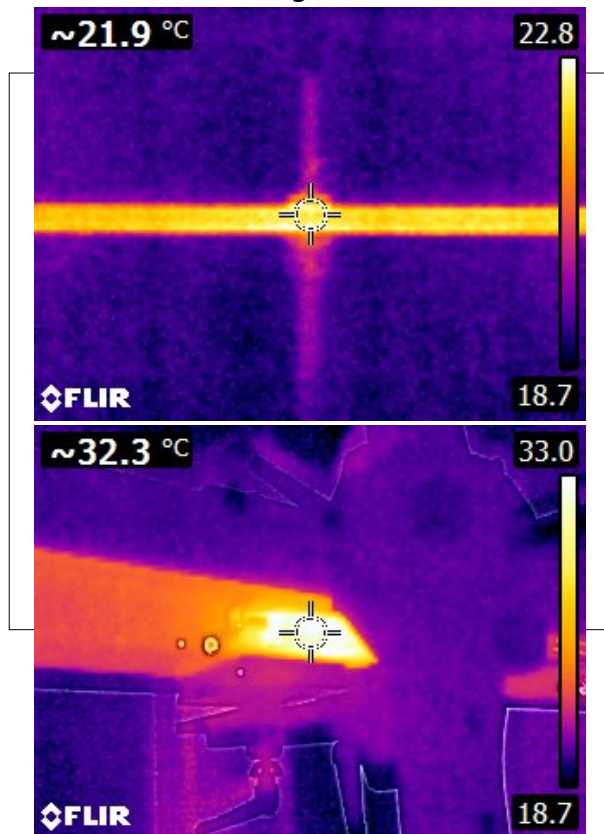
Max. Intensity: 1418.57 cd

Pos of Max. Intensity: H112.5 V2

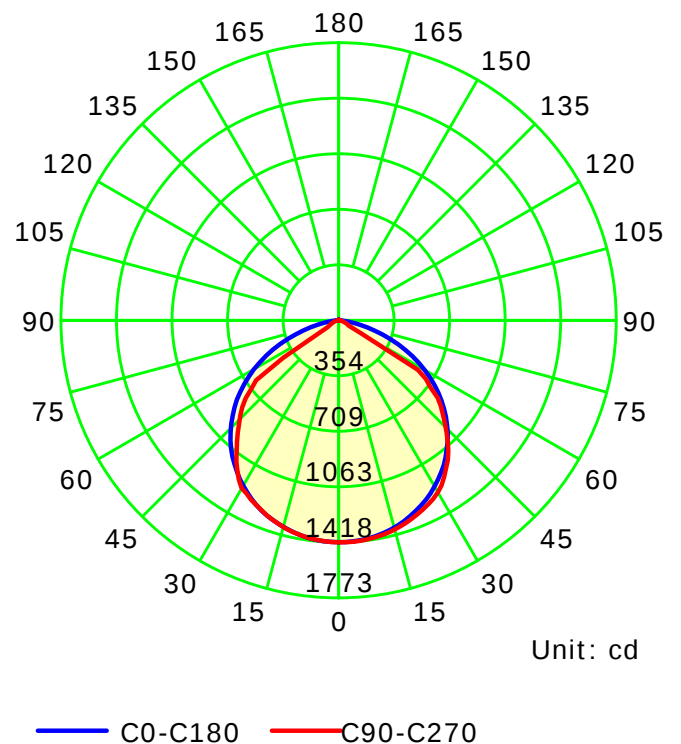
S/MH(C0/C180): 1.28

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

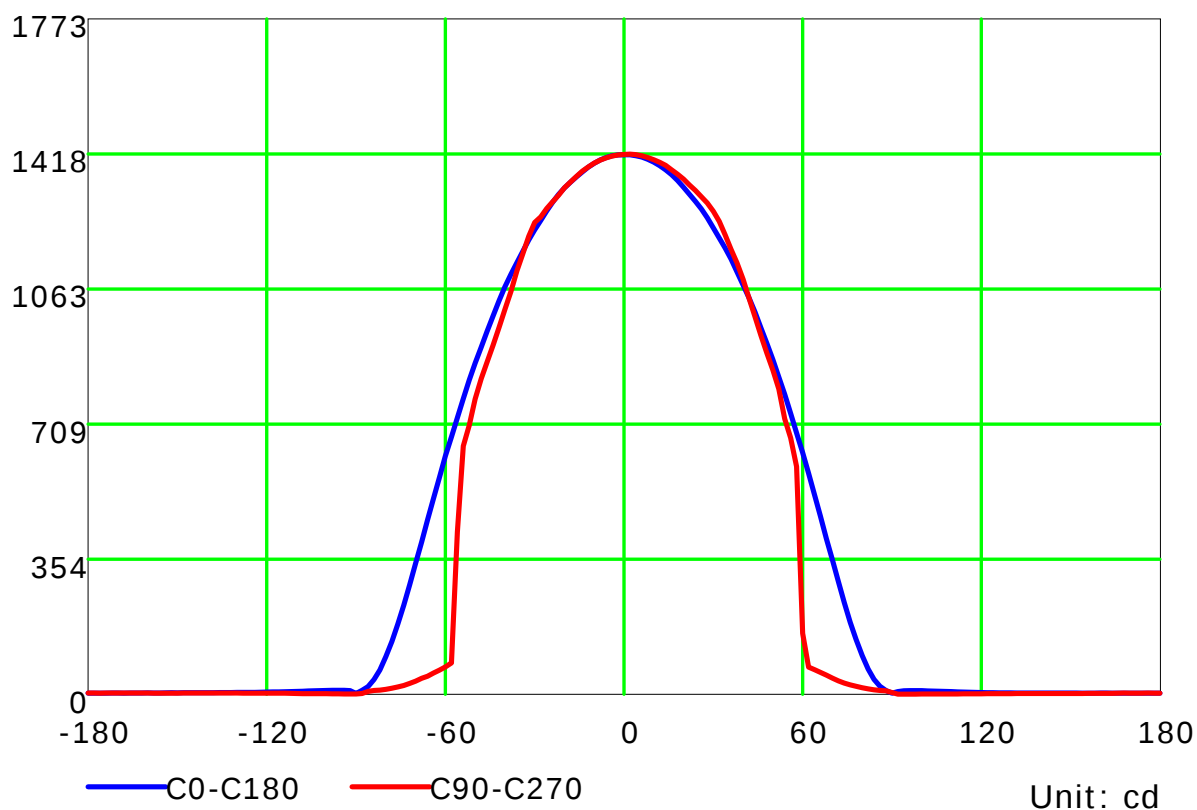
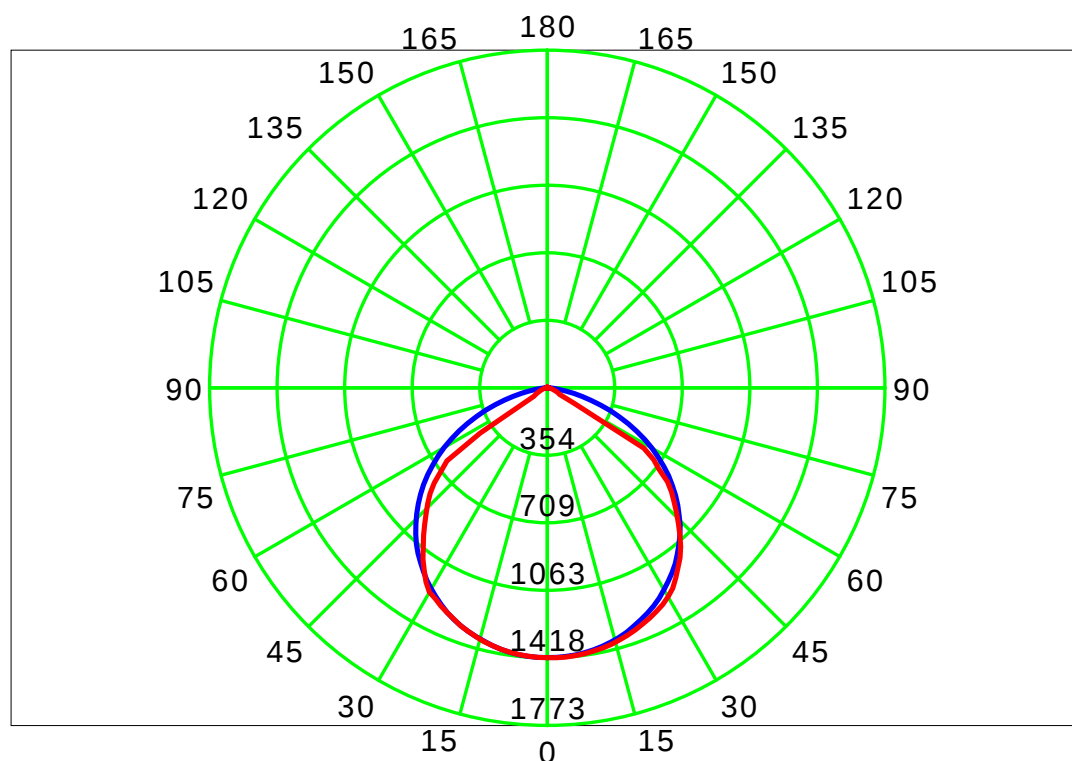
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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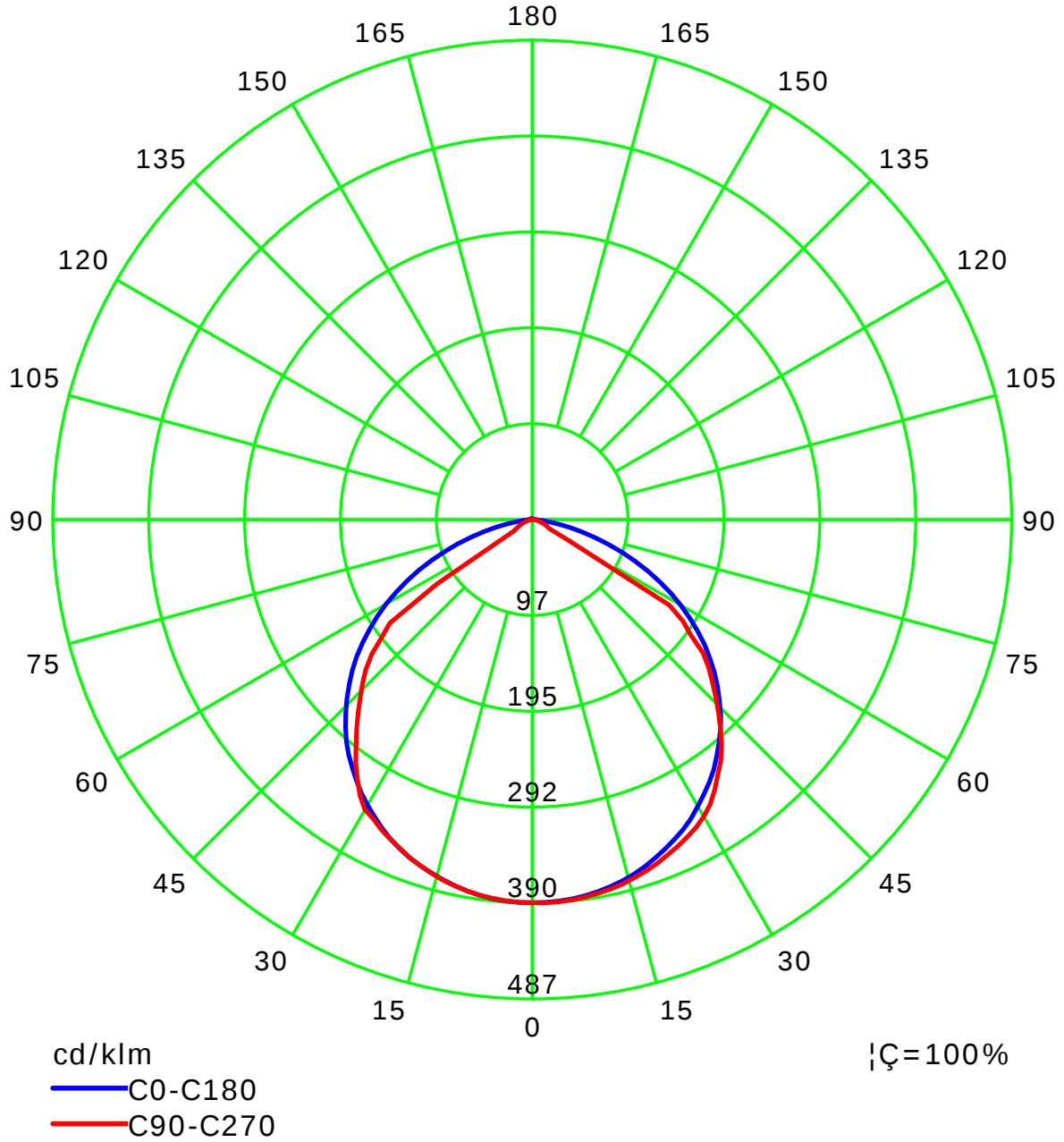
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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Test Device: LSG-1800B

Distance: 12.677 m

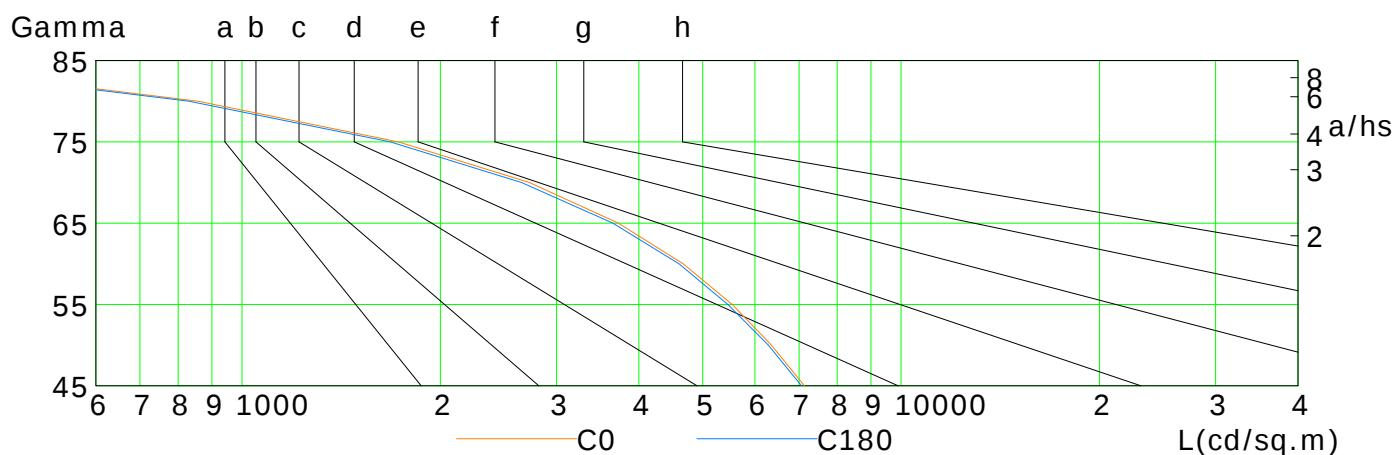
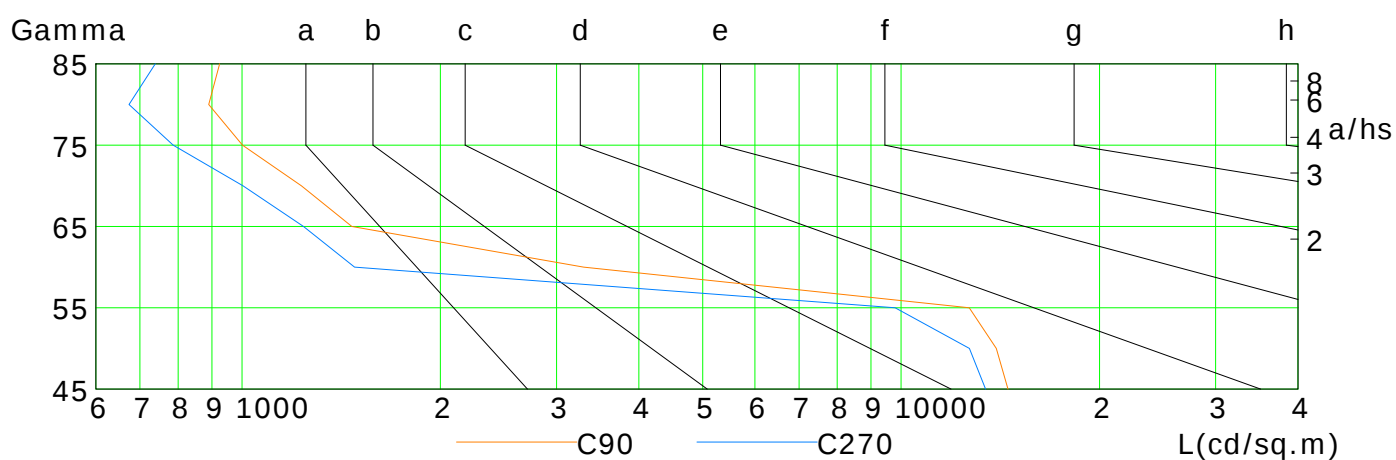
Humidity:

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	7131	6356	5541	4669	3725	2729	1726	857	270
C90	14522	13944	12686	3298	1467	1230	1001	890	925
C180	7060	6287	5459	4603	3654	2655	1678	831	263
C270	13431	12696	9792	1482	1240	1003	786	674	739

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Test Type: TYPE C

Temperature:

Operator:

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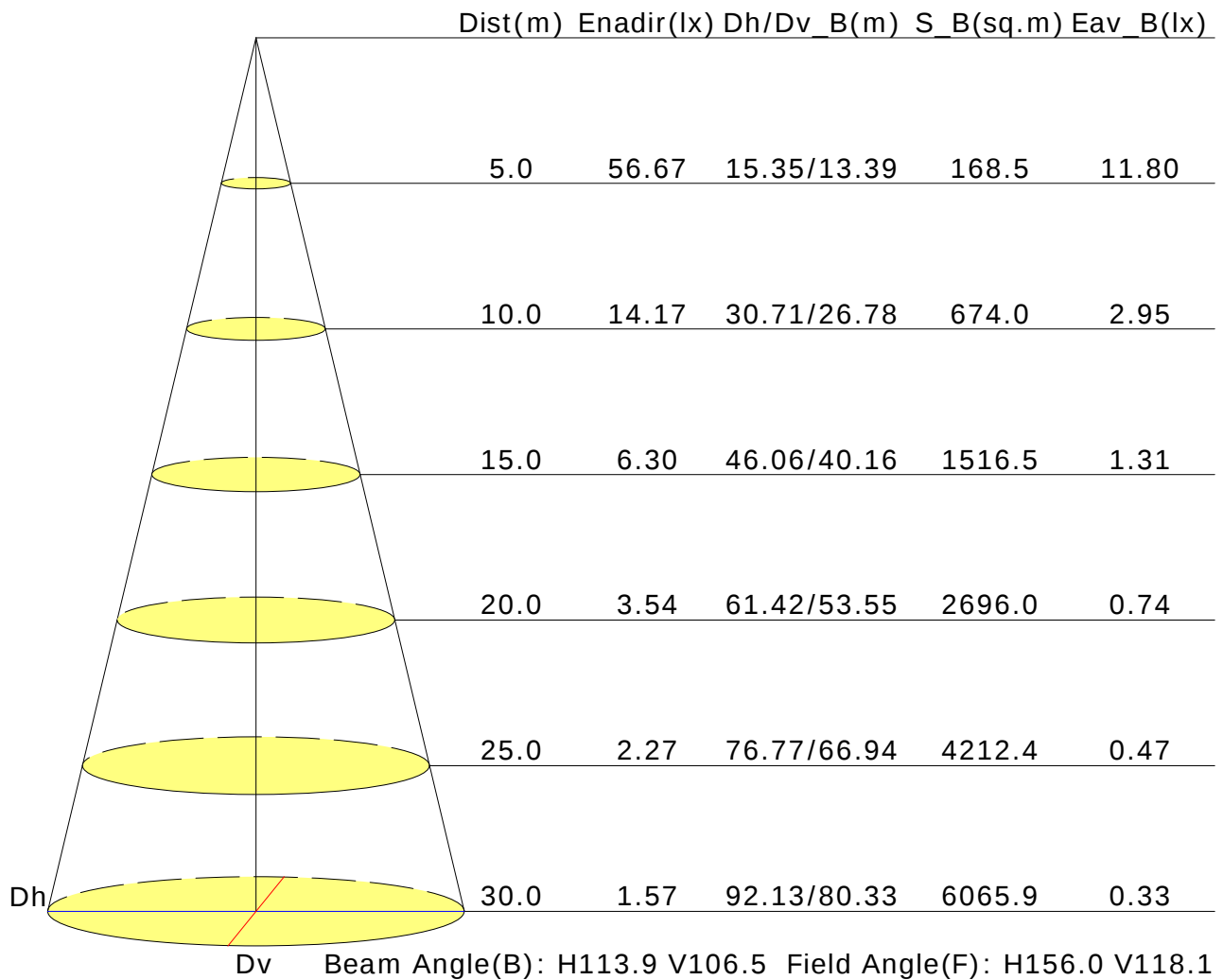
Test Device: LSG-1800B

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	19.2	20.4	19.5	20.7	20.9	19.0	20.3	19.3	20.6	20.8
3H	20.0	21.2	20.4	21.5	21.7	18.9	20.1	19.2	20.3	20.6
4H	20.2	21.3	20.6	21.6	21.9	18.8	19.9	19.2	20.2	20.5
6H	20.2	21.2	20.6	21.6	21.9	18.8	19.8	19.1	20.1	20.4
8H	20.2	21.2	20.6	21.5	21.9	18.7	19.7	19.1	20.0	20.4
12H	20.2	21.1	20.6	21.5	21.8	18.7	19.6	19.1	20.0	20.3
X=4H Y=2H	19.5	20.5	19.8	20.8	21.1	19.3	20.4	19.6	20.7	21.0
3H	20.4	21.3	20.8	21.6	22.0	19.2	20.1	19.6	20.4	20.8
4H	20.6	21.4	21.0	21.8	22.2	19.1	19.9	19.5	20.3	20.7
6H	20.7	21.4	21.1	21.8	22.2	19.1	19.8	19.5	20.2	20.6
8H	20.6	21.3	21.1	21.7	22.1	19.0	19.7	19.5	20.1	20.5
12H	20.6	21.2	21.1	21.6	22.1	19.0	19.6	19.5	20.0	20.5
X=8H Y=4H	20.5	21.2	21.0	21.6	22.0	19.1	19.7	19.5	20.1	20.6
6H	20.6	21.1	21.0	21.5	22.0	19.0	19.5	19.5	20.0	20.5
8H	20.6	21.0	21.1	21.5	22.0	19.0	19.5	19.5	19.9	20.4
12H	20.5	20.9	21.1	21.4	21.9	19.0	19.4	19.5	19.9	20.4
X=12H Y=4H	20.5	21.1	21.0	21.5	22.0	19.0	19.6	19.5	20.0	20.5
6H	20.5	21.0	21.0	21.5	22.0	19.0	19.4	19.5	19.9	20.4
8H	20.5	20.9	21.0	21.4	21.9	19.0	19.4	19.5	19.8	20.4
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.4					+0.5/-1.2				
S=1.5H	+0.7/-1.5					+2.3/-8.5				
S=2.0H	+1.1/-2.1					+3.9/-10.8				

Calculate in accordance with CIE Pub.117. The table is revised with 3635lm ($8\log(F/F_0) = 4.5$).

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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	0.72	0.80	0.85	0.92	0.96	1.00	1.04	1.06	
	0.30		0.54	0.65	0.73	0.79	0.86	0.92	0.95	1.00	1.03	
	0.20		0.48	0.60	0.68	0.74	0.82	0.87	0.91	0.97	1.00	
0.50	0.50	0.20	0.59	0.70	0.77	0.82	0.89	0.93	0.96	1.00	1.02	
	0.30		0.53	0.64	0.71	0.77	0.84	0.89	0.92	0.97	0.99	
	0.20		0.48	0.59	0.67	0.72	0.80	0.85	0.89	0.94	0.97	
0.30	0.50	0.20	0.58	0.68	0.75	0.80	0.86	0.90	0.92	0.96	0.98	
	0.30		0.52	0.63	0.70	0.75	0.82	0.86	0.89	0.93	0.96	
	0.20		0.47	0.58	0.66	0.71	0.79	0.83	0.87	0.91	0.94	
0.00	0.00	0.00	0.45	0.56	0.63	0.68	0.75	0.80	0.83	0.87	0.89	
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	0.94	0.75	0.63	0.54	0.43	0.35	0.30	0.23	0.18	
	0.30		0.78	0.65	0.55	0.48	0.39	0.32	0.27	0.21	0.18	
	0.20		0.67	0.56	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.91	0.72	0.60	0.52	0.40	0.37	0.28	0.21	0.17	
	0.30		0.77	0.63	0.53	0.46	0.37	0.31	0.26	0.20	0.17	
	0.20		0.66	0.55	0.48	0.42	0.34	0.28	0.25	0.19	0.16	
0.30	0.50	0.20	0.88	0.69	0.58	0.49	0.38	0.31	0.27	0.20	0.16	
	0.30		0.75	0.61	0.52	0.45	0.35	0.29	0.25	0.19	0.16	
	0.20		0.66	0.54	0.47	0.41	0.33	0.27	0.24	0.18	0.15	
0.00	0.00	0.00	0.55	0.44	0.37	0.32	0.25	0.20	0.17	0.13	0.11	
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	0.17	0.18	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	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	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.19	0.20	0.20	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	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:25W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												