

Report No.:

Test Time: 19.06.2020 17:42

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 72W 4000K prozrachniy iFA40'320(110) (x2) s soedineniem

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.3 V

Current: 0.347 A

Power: 74.61 W

Power Factor: 0.970

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 9769.2 lm

Measurement Flux: 9769.2 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.2, 118.0, 134.2, 133.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.5, 108.3, 111.6, 111.3

Luminaire Efficacy Rating (LER): 130.99

Central Intensity: 3788.74 cd

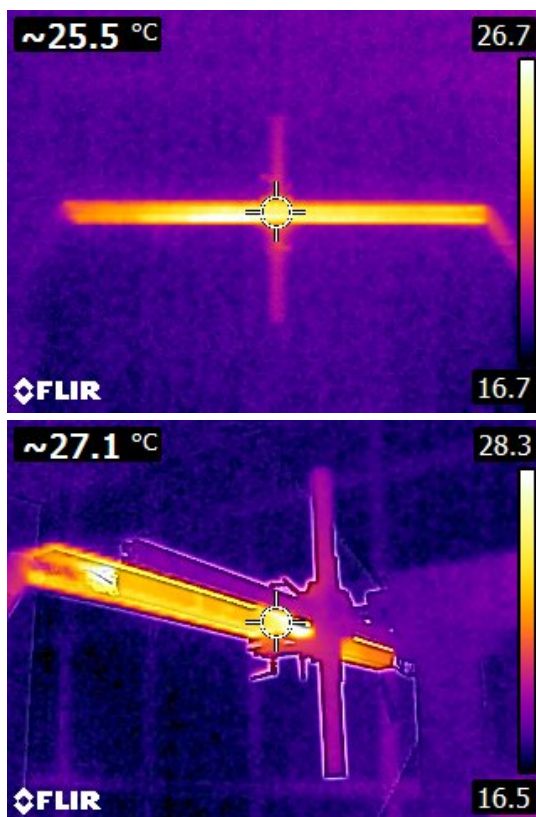
Max. Intensity: 3796.38 cd

Pos of Max. Intensity: H112.5 V0

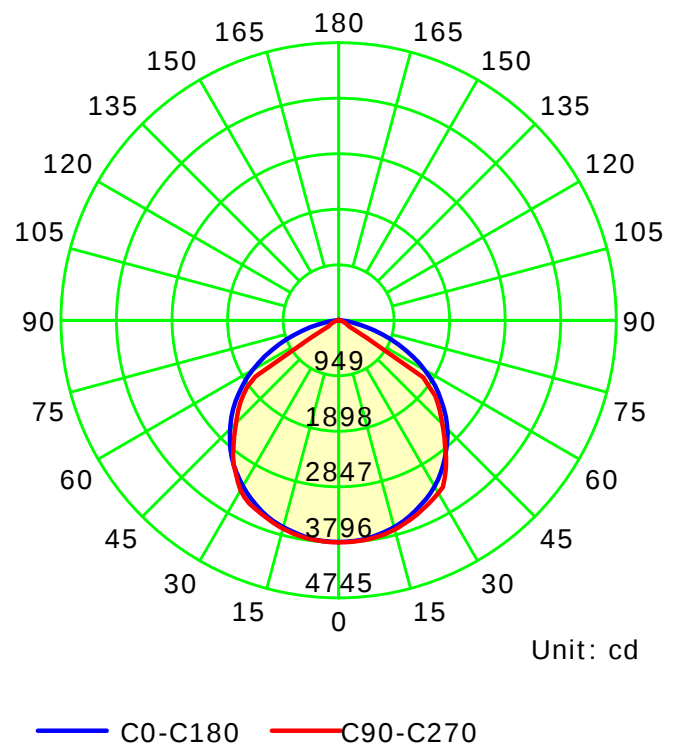
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.31

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

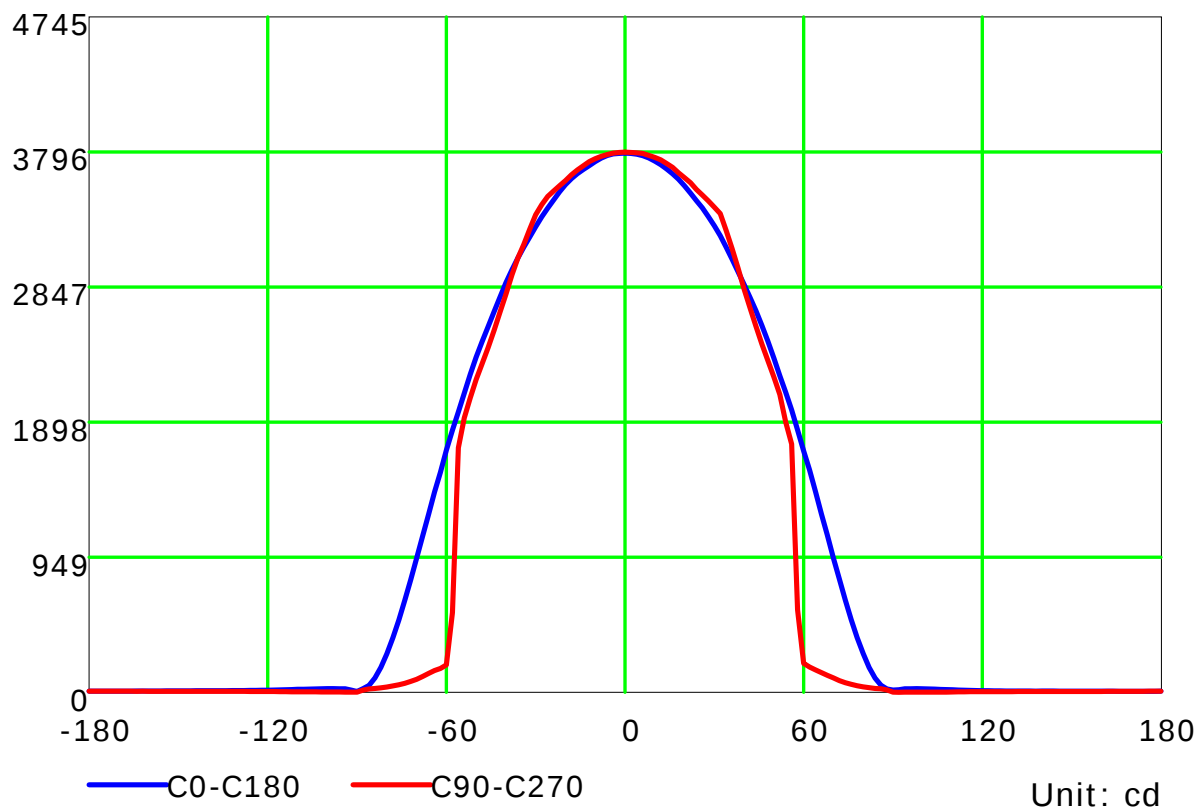
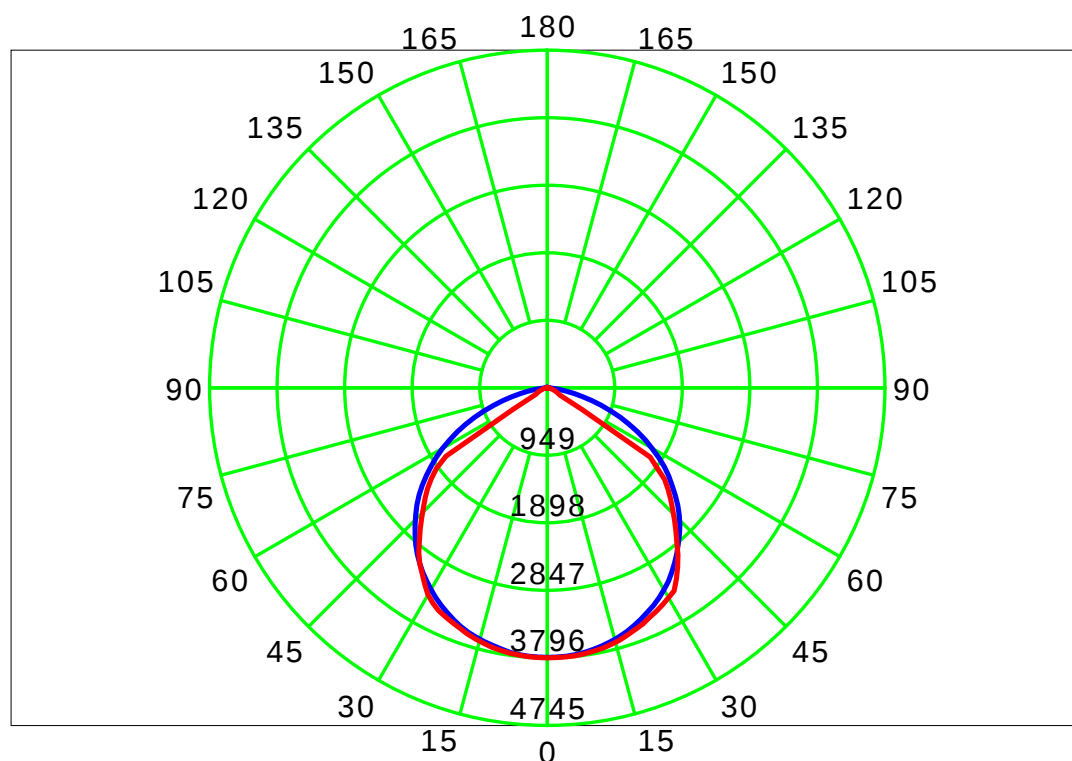
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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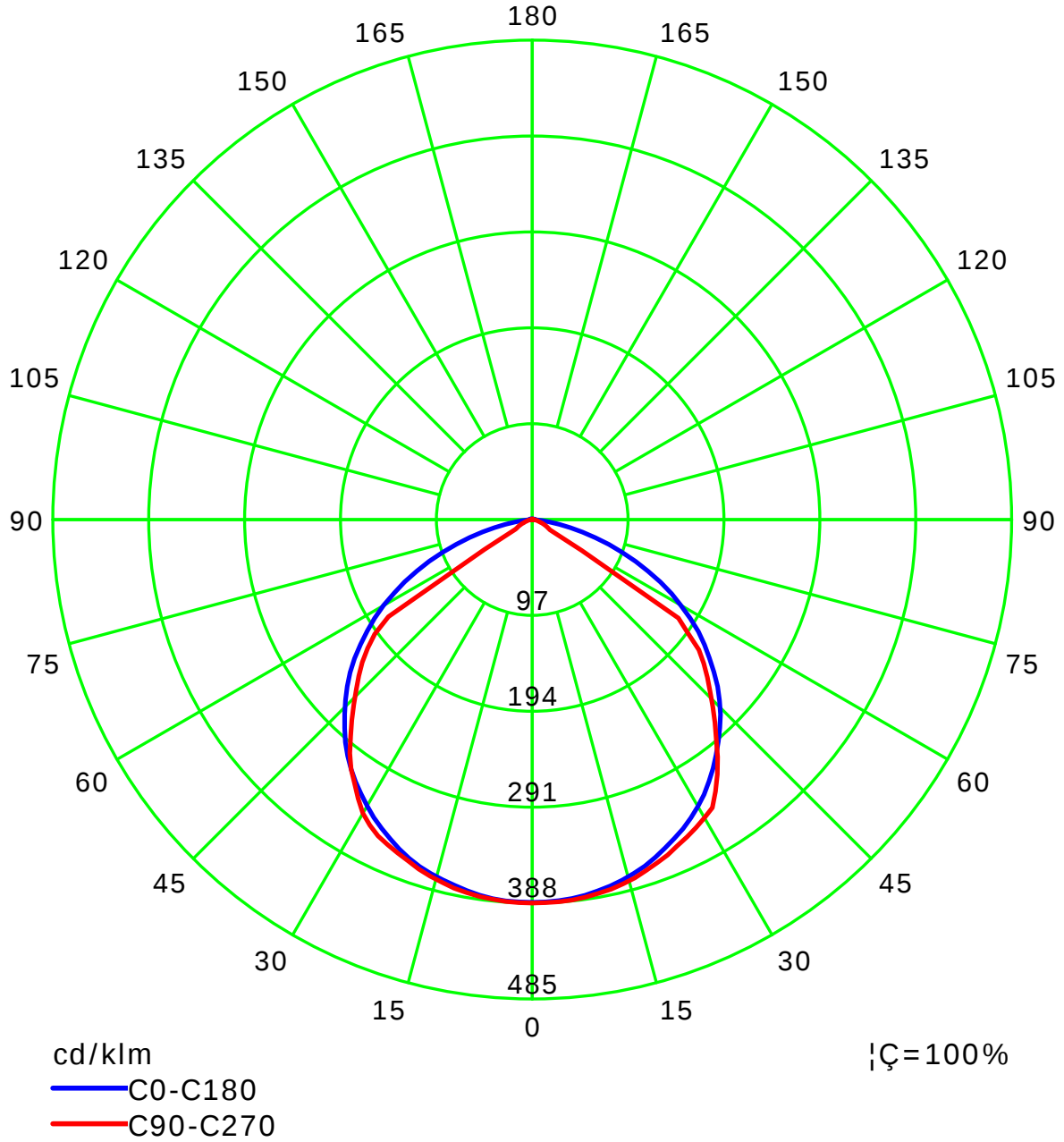
Test Device: LSG-1800B

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

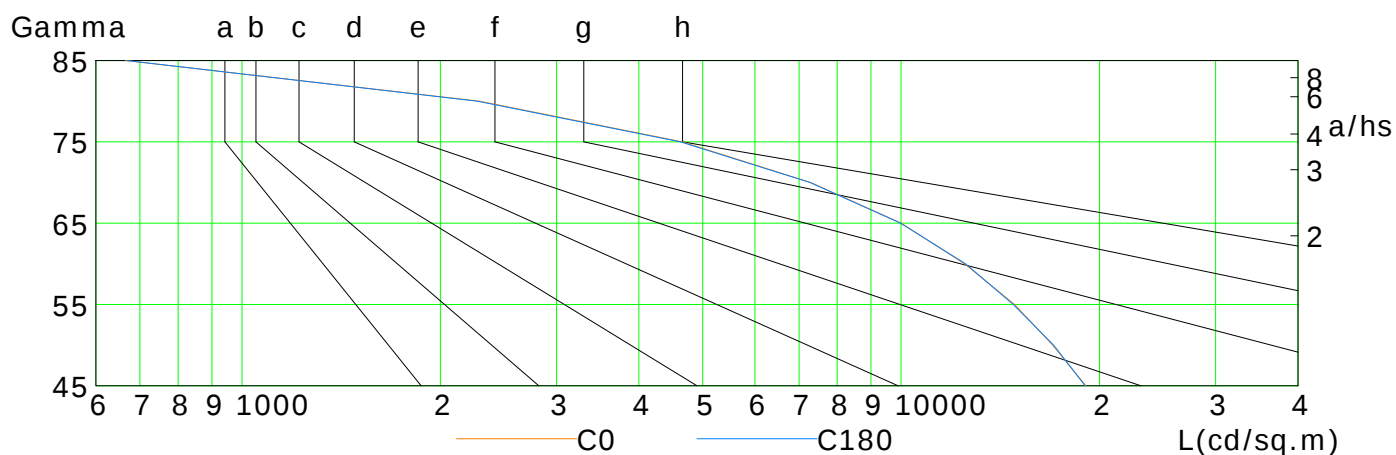
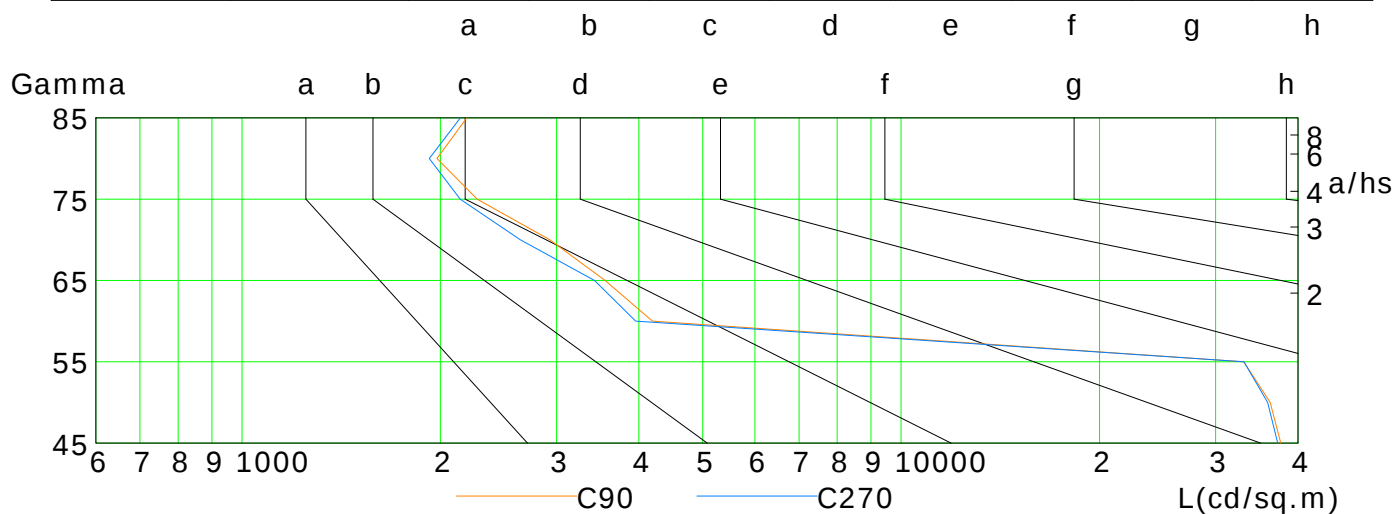
Distance: 12.677 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	19070	16980	14866	12483	10002	7288	4654	2293	666
C90	37676	36292	33093	4196	3554	2931	2274	1976	2193
C180	19020	17031	14799	12522	9979	7277	4626	2277	669
C270	37278	35982	33118	3957	3426	2645	2143	1924	2145

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

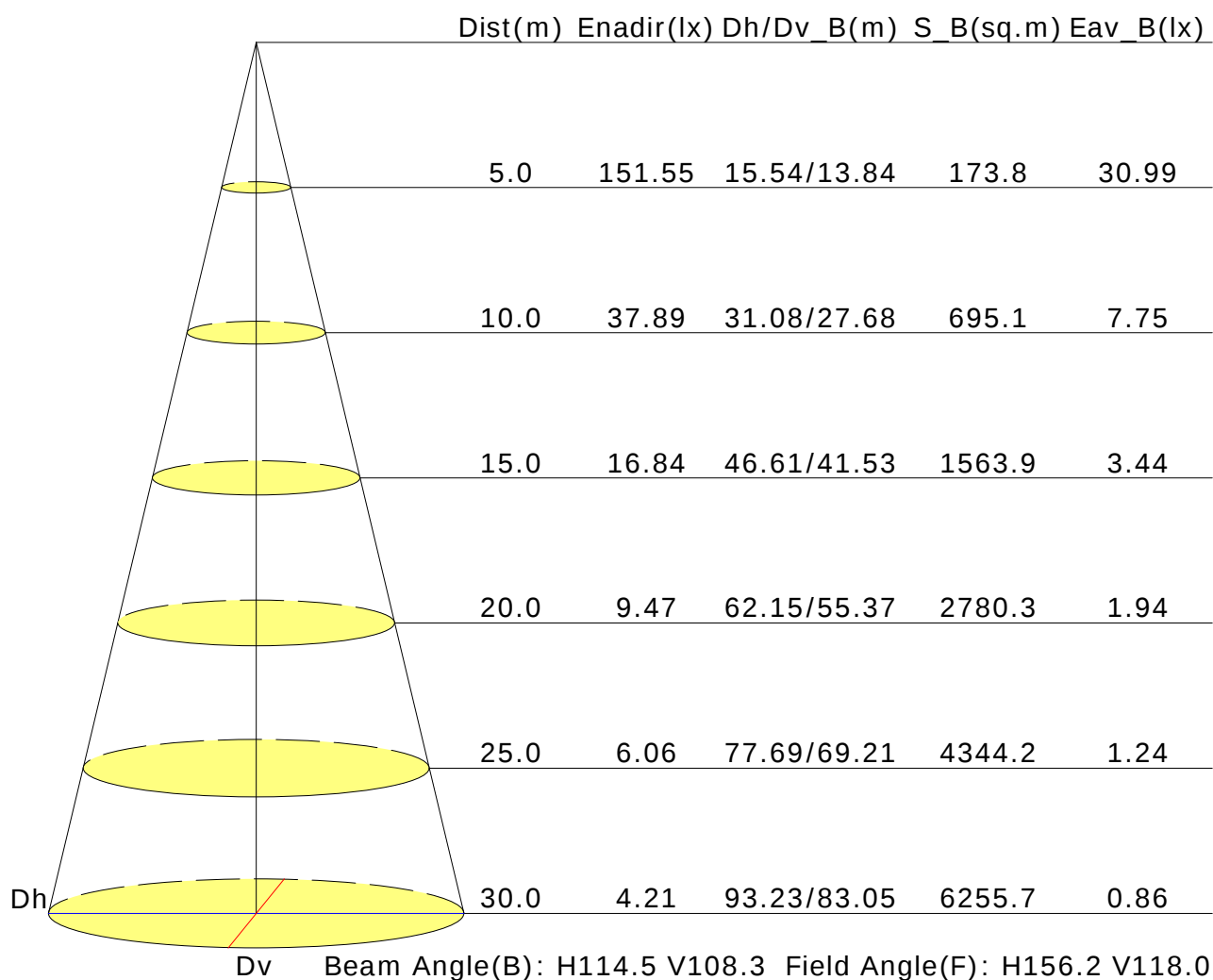
Test Device: LSG-1800B

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	22.6	23.9	22.9	24.1	24.4	22.4	23.6	22.7	23.9	24.1
3H	23.5	24.6	23.8	24.9	25.2	22.2	23.4	22.6	23.7	23.9
4H	23.7	24.8	24.0	25.1	25.4	22.2	23.2	22.5	23.5	23.8
6H	23.7	24.7	24.1	25.0	25.3	22.1	23.1	22.5	23.4	23.7
8H	23.7	24.7	24.1	25.0	25.3	22.1	23.0	22.4	23.3	23.7
12H	23.7	24.6	24.0	24.9	25.3	22.0	22.9	22.4	23.3	23.6
X=4H Y=2H	22.9	24.0	23.3	24.3	24.6	22.6	23.7	23.0	24.0	24.3
3H	23.8	24.7	24.2	25.1	25.4	22.5	23.4	22.9	23.8	24.1
4H	24.1	24.9	24.5	25.3	25.6	22.4	23.3	22.8	23.6	24.0
6H	24.1	24.8	24.5	25.2	25.6	22.4	23.1	22.8	23.5	23.9
8H	24.1	24.8	24.5	25.2	25.6	22.4	23.0	22.8	23.4	23.8
12H	24.1	24.7	24.5	25.1	25.5	22.3	22.9	22.8	23.3	23.8
X=8H Y=4H	24.0	24.6	24.4	25.1	25.5	22.4	23.1	22.8	23.5	23.9
6H	24.0	24.6	24.5	25.0	25.5	22.3	22.9	22.8	23.3	23.8
8H	24.0	24.5	24.5	24.9	25.4	22.3	22.8	22.8	23.2	23.7
12H	24.0	24.4	24.5	24.9	25.4	22.3	22.7	22.8	23.2	23.7
X=12H Y=4H	24.0	24.5	24.4	25.0	25.4	22.4	23.0	22.8	23.4	23.8
6H	24.0	24.5	24.5	24.9	25.4	22.3	22.8	22.8	23.2	23.7
8H	24.0	24.4	24.5	24.9	25.4	22.3	22.7	22.8	23.2	23.7
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.7/-1.1				
S=1.5H	+0.6/-1.4					+2.5/-9.1				
S=2.0H	+1.1/-2.2					+4.0/-11.3				

Calculate in accordance with CIE Pub.117. The table is revised with 9769Im ($8\log(F/F_0) = 7.9$).

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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	0.97	1.00	1.04	1.07	
	0.30		0.54	0.65	0.73	0.79	0.87	0.92	0.96	1.00	1.04	
	0.20		0.48	0.60	0.68	0.74	0.82	0.88	0.92	0.97	1.01	
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	0.72	0.77	0.84	0.89	0.93	0.97	1.00	
	0.20		0.48	0.59	0.67	0.73	0.80	0.86	0.89	0.94	0.98	
0.30	0.50	0.20	0.58	0.68	0.75	0.80	0.86	0.90	0.93	0.96	0.98	
	0.30		0.52	0.63	0.70	0.75	0.82	0.87	0.90	0.94	0.96	
	0.20		0.47	0.59	0.66	0.72	0.79	0.84	0.87	0.92	0.95	
0.00	0.00	0.00	0.45	0.56	0.63	0.69	0.75	0.80	0.83	0.87	0.90	
Rating:75W 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	0.22	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	0.22	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	0.32	0.27	0.20	0.17	
	0.30		0.75	0.62	0.52	0.45	0.36	0.30	0.25	0.19	0.16	
	0.20		0.66	0.55	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
0.00	0.00	0.00	0.55	0.45	0.37	0.32	0.25	0.21	0.18	0.13	0.11	
Rating:75W 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	0.20	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:75W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												