

Report No.:

Test Time: 19.06.2020 13:58

Luminaire Property

Luminaire Manufacturer:

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

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 222.0 V

Current: 0.324 A

Power: 69.50 W

Power Factor: 0.964

Photometric Results

CIE Class: Direct

Measurement Flux: 7897.1 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 7897.1 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.0, 154.9, 146.1, 148.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 77.8, 73.7, 73.7, 73.9

Luminaire Efficacy Rating (LER): 113.68

Central Intensity: 4259.37 cd

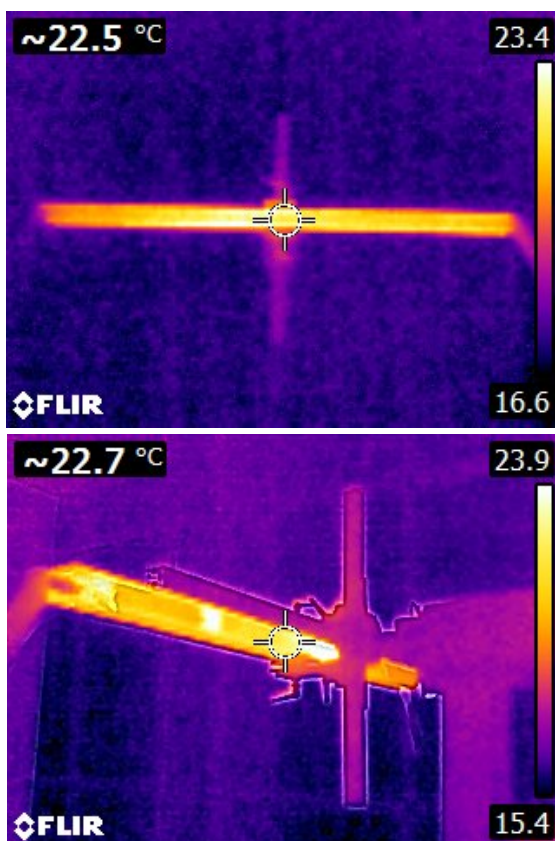
Max. Intensity: 4266.23 cd

Pos of Max. Intensity: H112.5 V0

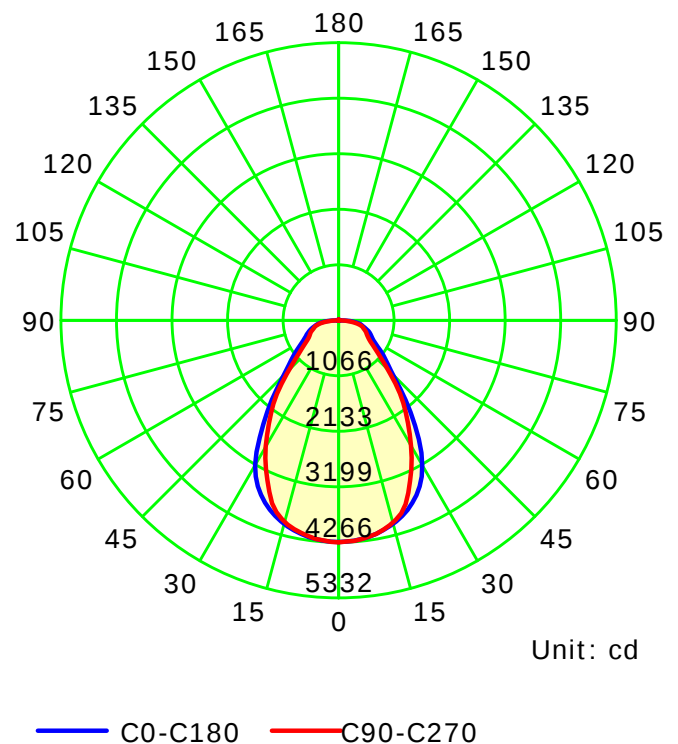
S/MH(C0/C180): 1.14

S/MH(C90/C270): 1.04

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

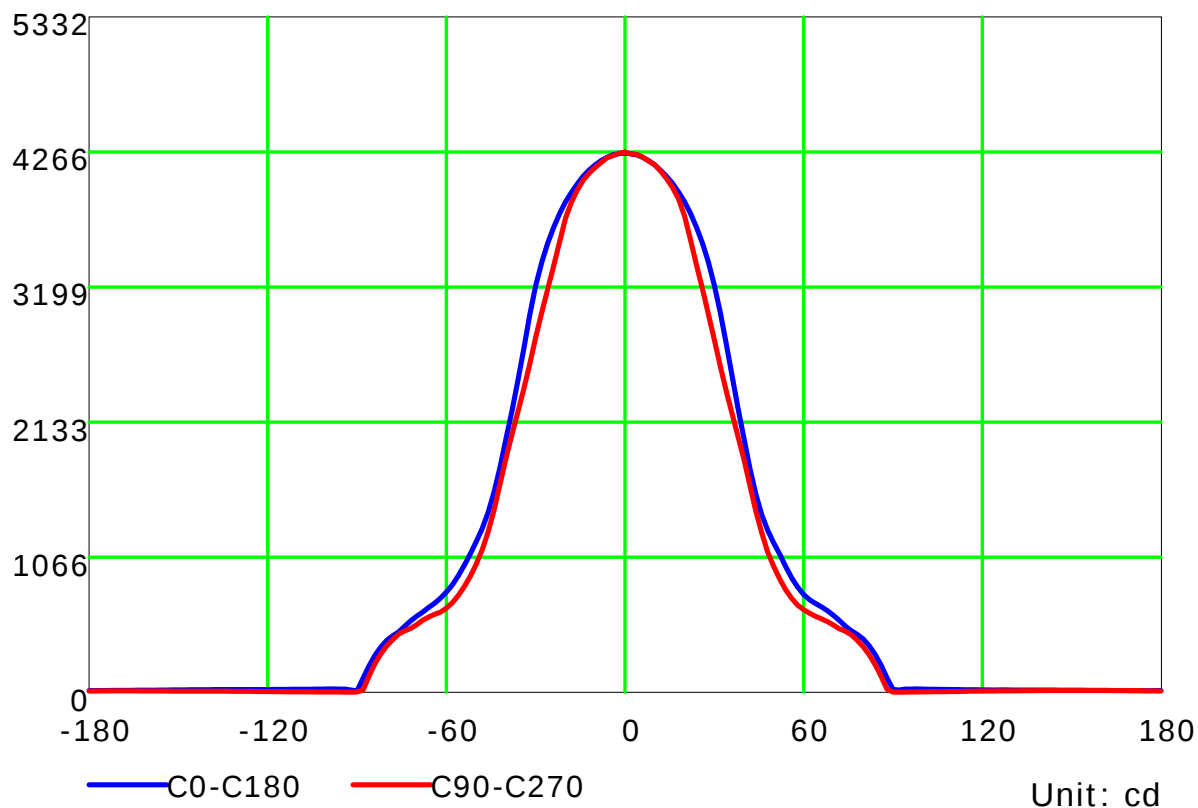
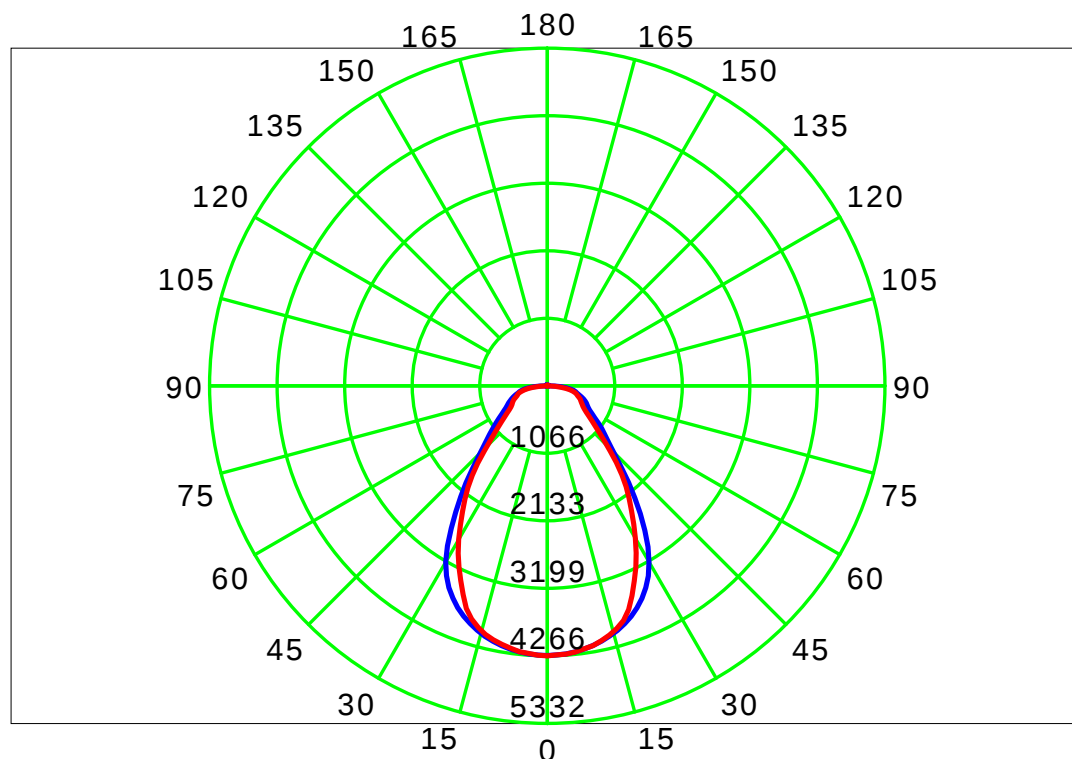
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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Temperature:

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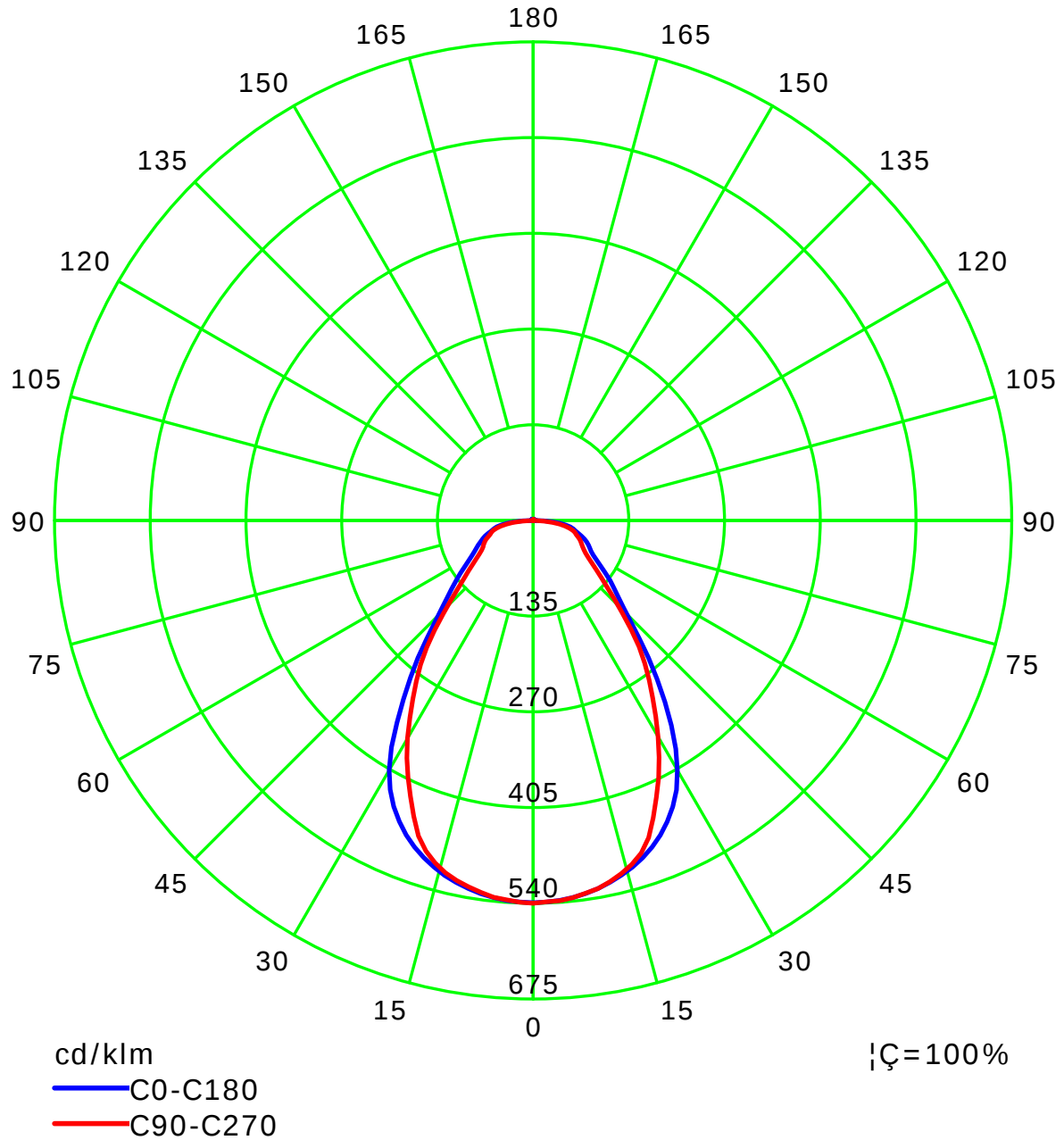
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

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Test Device: LSG-1800B

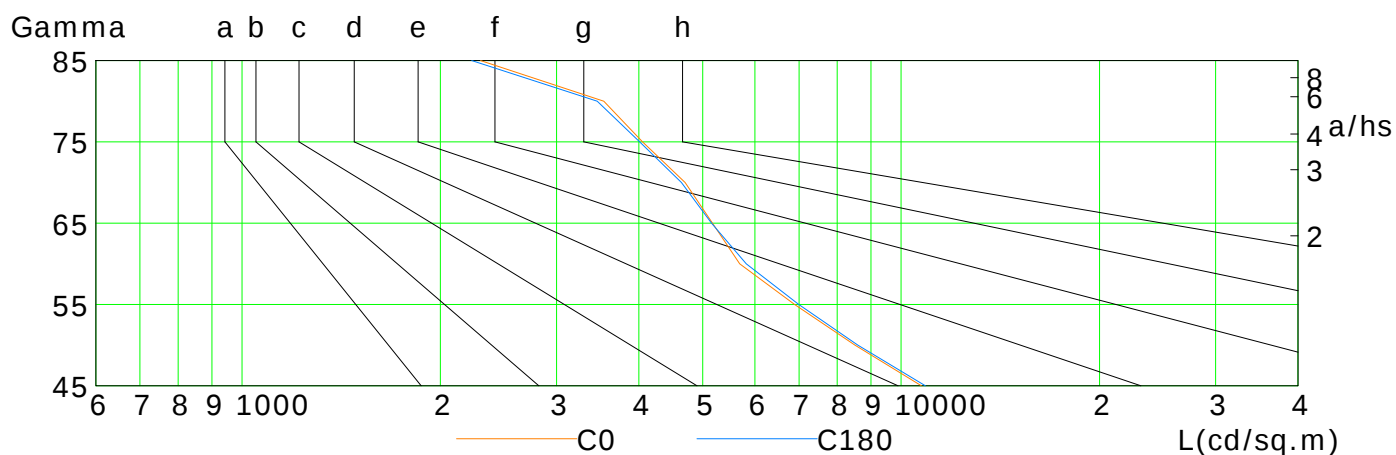
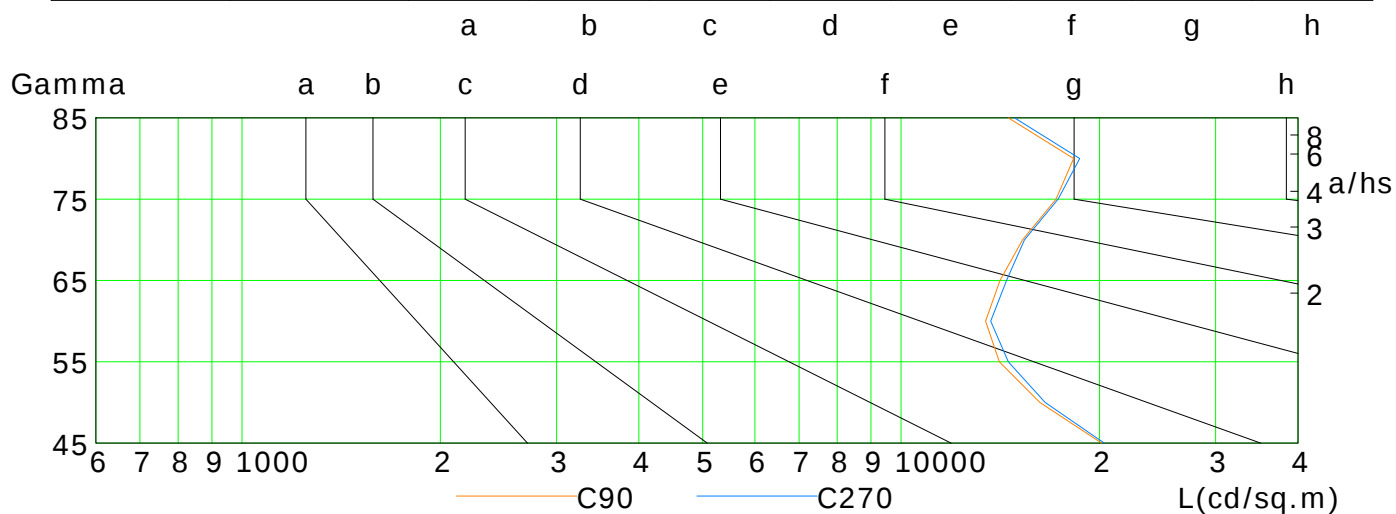
Distance: 12.677 m

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	10736	8509	6893	5689	5172	4701	4052	3540	2301
C90	20149	16236	14093	13428	14121	15284	17177	18263	14543
C180	10886	8594	6995	5821	5157	4641	4012	3459	2231
C270	20324	16535	14541	13673	14455	15389	17307	18656	14862

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

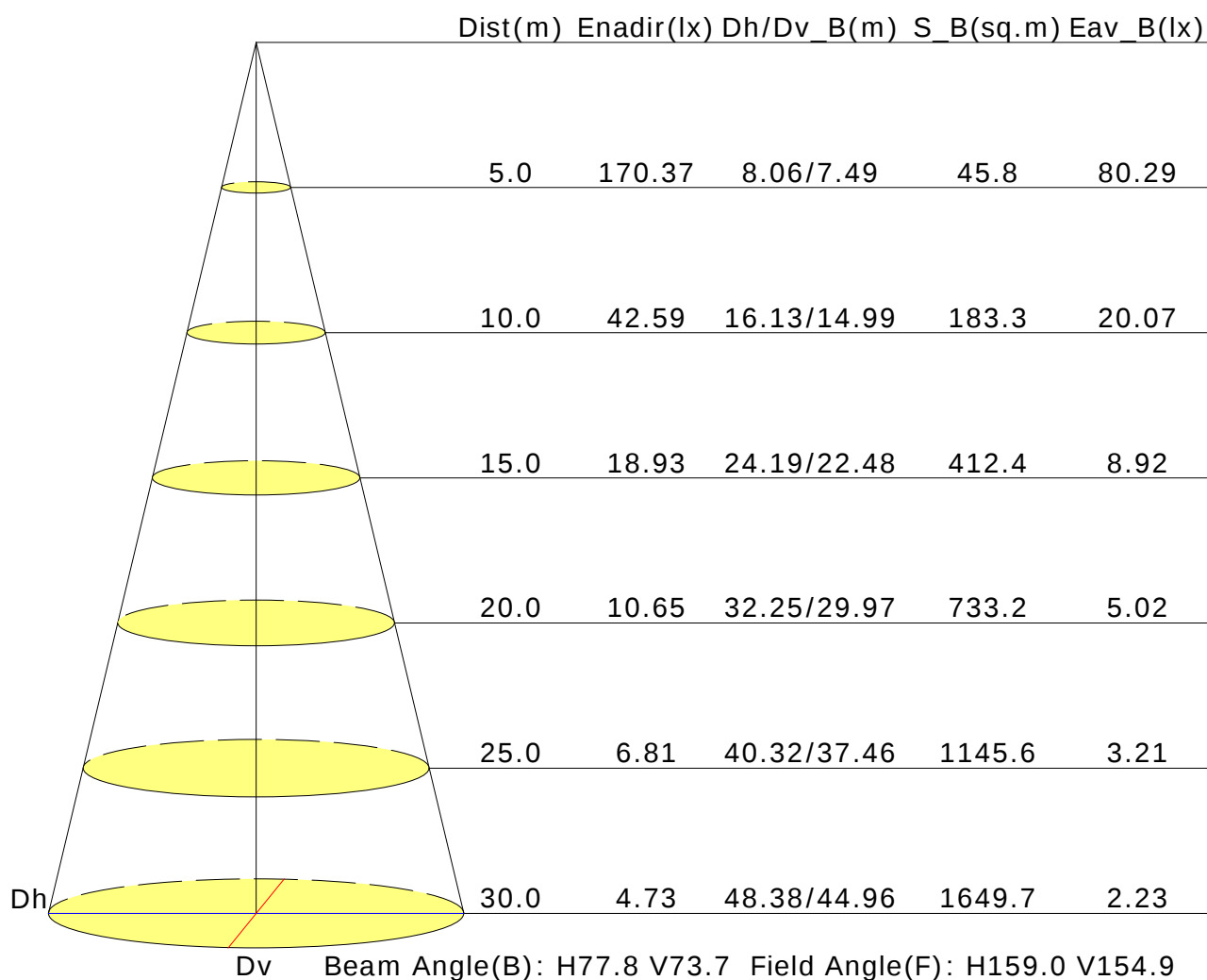
Test Device: LSG-1800B

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	18.8	20.0	19.1	20.3	20.5	19.7	20.9	20.0	21.2	21.4
3H	19.9	21.0	20.2	21.3	21.6	21.2	22.4	21.6	22.6	22.9
4H	20.4	21.5	20.8	21.8	22.1	22.2	23.2	22.5	23.5	23.8
6H	20.9	21.9	21.3	22.2	22.5	23.1	24.1	23.5	24.4	24.8
8H	21.1	22.1	21.5	22.4	22.7	23.5	24.4	23.9	24.8	25.1
12H	21.2	22.1	21.6	22.5	22.8	23.7	24.7	24.1	25.0	25.4
X=4H Y=2H	19.2	20.2	19.5	20.5	20.8	19.9	21.0	20.3	21.3	21.6
3H	20.5	21.4	20.9	21.7	22.1	21.7	22.6	22.1	22.9	23.3
4H	21.2	22.0	21.6	22.4	22.7	22.7	23.5	23.1	23.9	24.3
6H	21.8	22.5	22.2	22.9	23.4	23.8	24.5	24.2	24.9	25.3
8H	22.1	22.7	22.5	23.2	23.6	24.2	24.9	24.7	25.3	25.8
12H	22.3	22.9	22.7	23.3	23.8	24.5	25.2	25.0	25.6	26.1
X=8H Y=4H	21.4	22.1	21.9	22.5	22.9	22.8	23.5	23.3	23.9	24.4
6H	22.2	22.7	22.7	23.2	23.7	24.0	24.6	24.5	25.0	25.5
8H	22.5	23.0	23.0	23.5	24.0	24.5	25.0	25.0	25.5	26.0
12H	22.8	23.2	23.3	23.7	24.2	24.9	25.3	25.4	25.8	26.3
X=12H Y=4H	21.5	22.1	21.9	22.5	23.0	22.8	23.4	23.3	23.9	24.3
6H	22.3	22.7	22.8	23.2	23.7	24.0	24.5	24.5	25.0	25.5
8H	22.6	23.1	23.1	23.5	24.1	24.6	25.0	25.1	25.5	26.0
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.3/-0.3				
S=1.5H	+0.7/-0.9					+0.8/-0.8				
S=2.0H	+1.4/-1.2					+1.3/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 7897lm ($8\log(F/F_0) = 7.2$).

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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 = 1.00									
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	0.64	0.73	0.79	0.84	0.90	0.95	0.98	1.02	1.04	
	0.30		0.57	0.66	0.73	0.77	0.85	0.89	0.93	0.98	1.01	
	0.20		0.52	0.61	0.67	0.72	0.80	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.91	0.94	0.98	1.00	
	0.30		0.56	0.65	0.71	0.76	0.82	0.87	0.90	0.94	0.97	
	0.20		0.51	0.60	0.66	0.71	0.78	0.83	0.87	0.92	0.95	
0.30	0.50	0.20	0.61	0.69	0.74	0.78	0.84	0.88	0.90	0.94	0.96	
	0.30		0.55	0.64	0.69	0.74	0.80	0.84	0.87	0.91	0.94	
	0.20		0.51	0.59	0.65	0.70	0.77	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.49	0.57	0.63	0.67	0.73	0.77	0.80	0.84	0.87	
Rating:70W 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 = 1.00									
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	0.89	0.73	0.63	0.55	0.44	0.37	0.32	0.25	0.20	
	0.30		0.74	0.63	0.55	0.49	0.40	0.34	0.29	0.23	0.19	
	0.20		0.64	0.55	0.49	0.44	0.36	0.31	0.27	0.22	0.18	
0.50	0.50	0.20	0.85	0.70	0.60	0.52	0.42	0.38	0.30	0.23	0.19	
	0.30		0.72	0.61	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.63	0.54	0.47	0.43	0.35	0.30	0.26	0.21	0.18	
0.30	0.50	0.20	0.83	0.67	0.57	0.50	0.40	0.33	0.29	0.22	0.18	
	0.30		0.70	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.18	
	0.20		0.62	0.53	0.46	0.42	0.34	0.29	0.25	0.20	0.17	
0.00	0.00	0.00	0.51	0.42	0.37	0.32	0.26	0.22	0.19	0.15	0.13	
Rating:70W 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 = 1.00									
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	0.16	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		0.10	0.12	0.13	0.14	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	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.20	0.20	0.20	0.21	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	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:70W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												