

Report No.:

Test Time: 22.06.2020 12:52

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60/1000 48W 4000K микропризма

Luminous Length (mm): 950

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 222.3 V

Current: 0.232 A

Power: 48.95 W

Power Factor: 0.947

## Photometric Results

CIE Class: Direct

Measurement Flux: 5438.6 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 5438.6 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.4, 158.2, 148.1, 148.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 76.8, 74.4, 73.1, 73.6

Luminaire Efficacy Rating (LER): 111.16

Central Intensity: 2918.56 cd

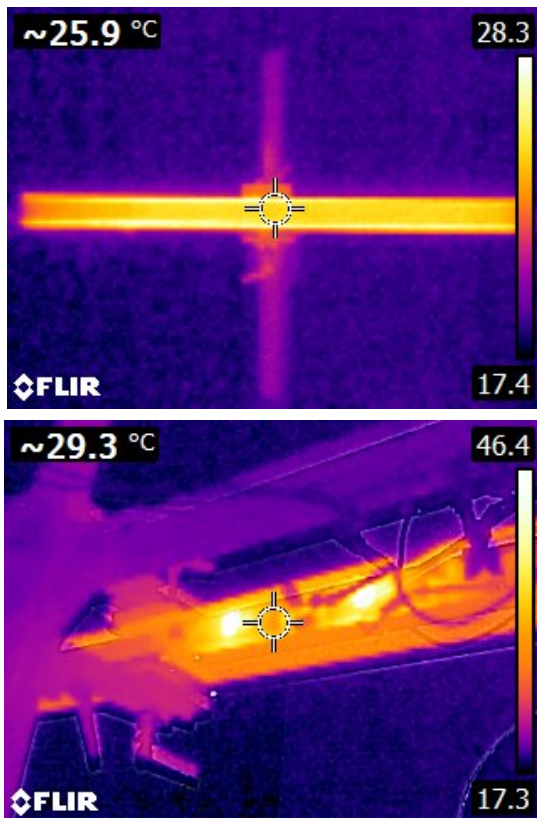
Max. Intensity: 2926.42 cd

Pos of Max. Intensity: H112.5 V0

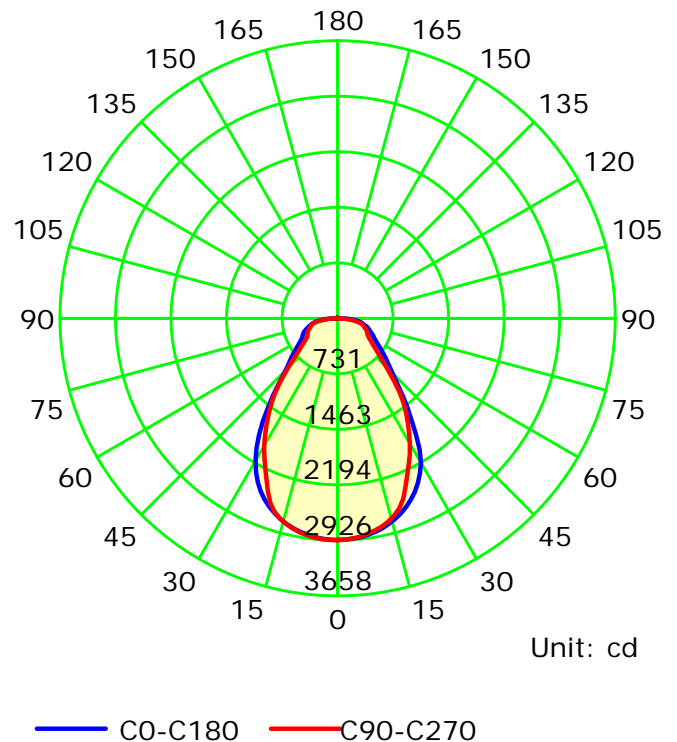
S/MH(C0/C180): 1.13

S/MH(C90/C270): 1.03

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

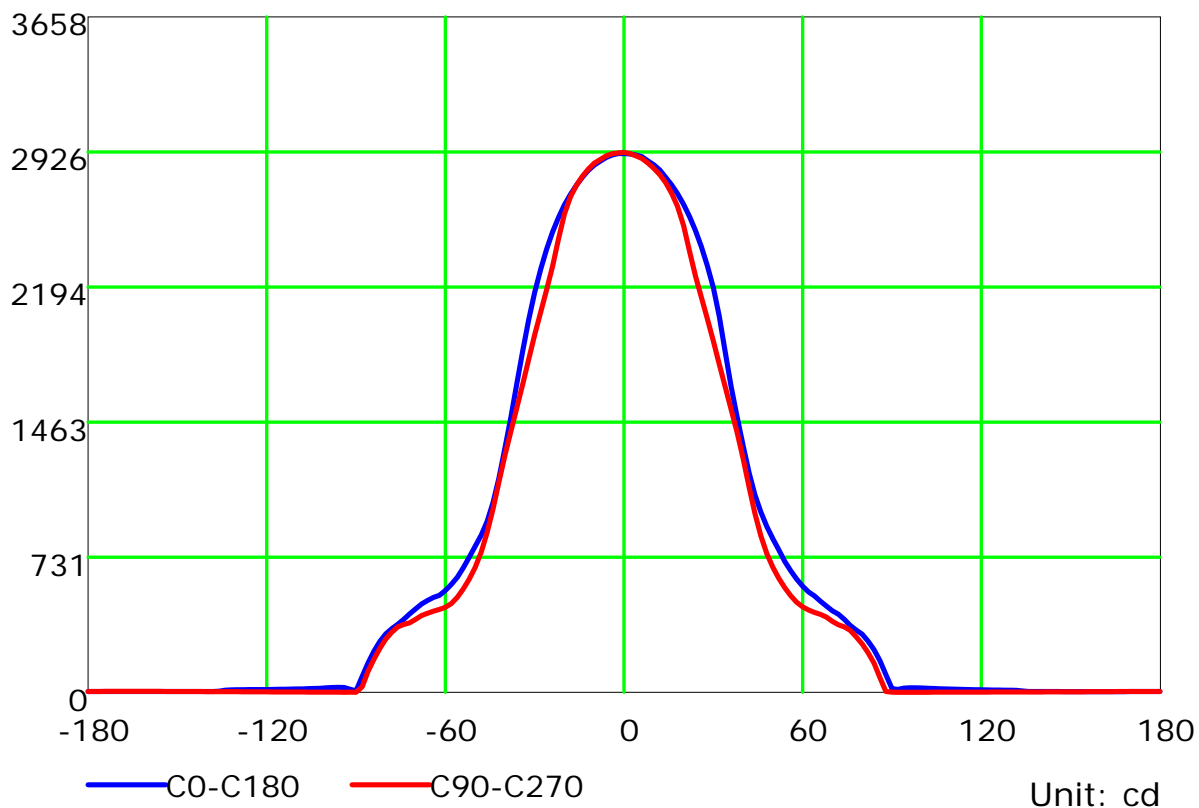
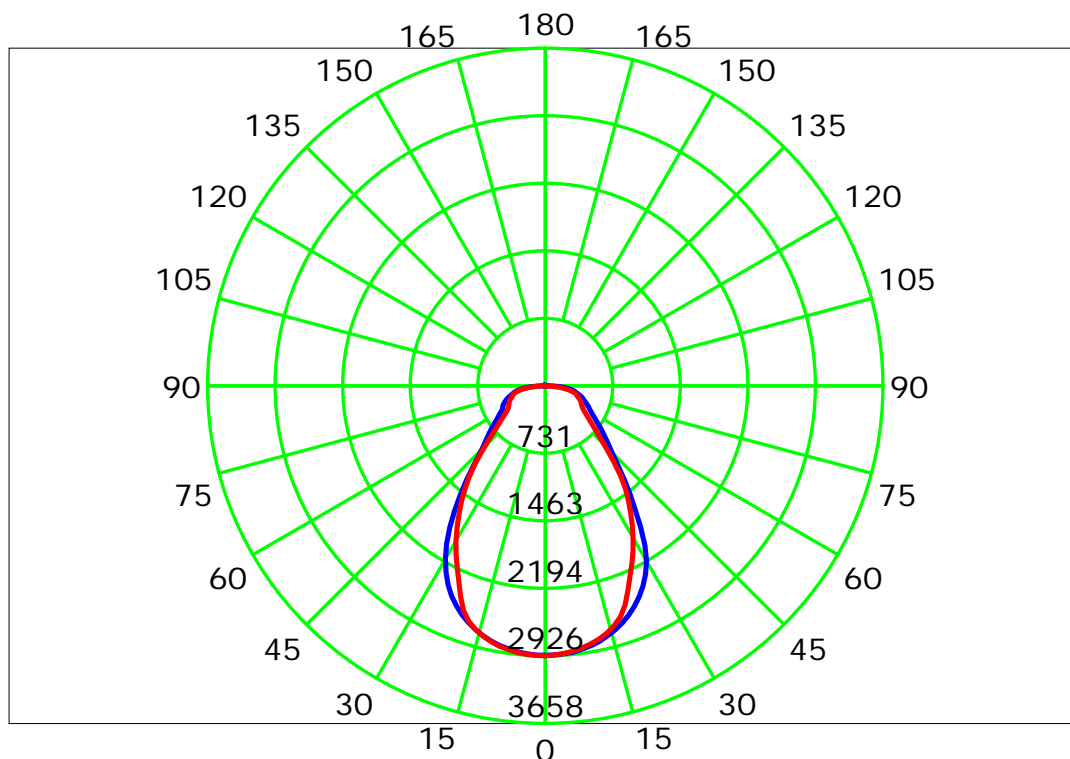
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

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Temperature:

Operator:

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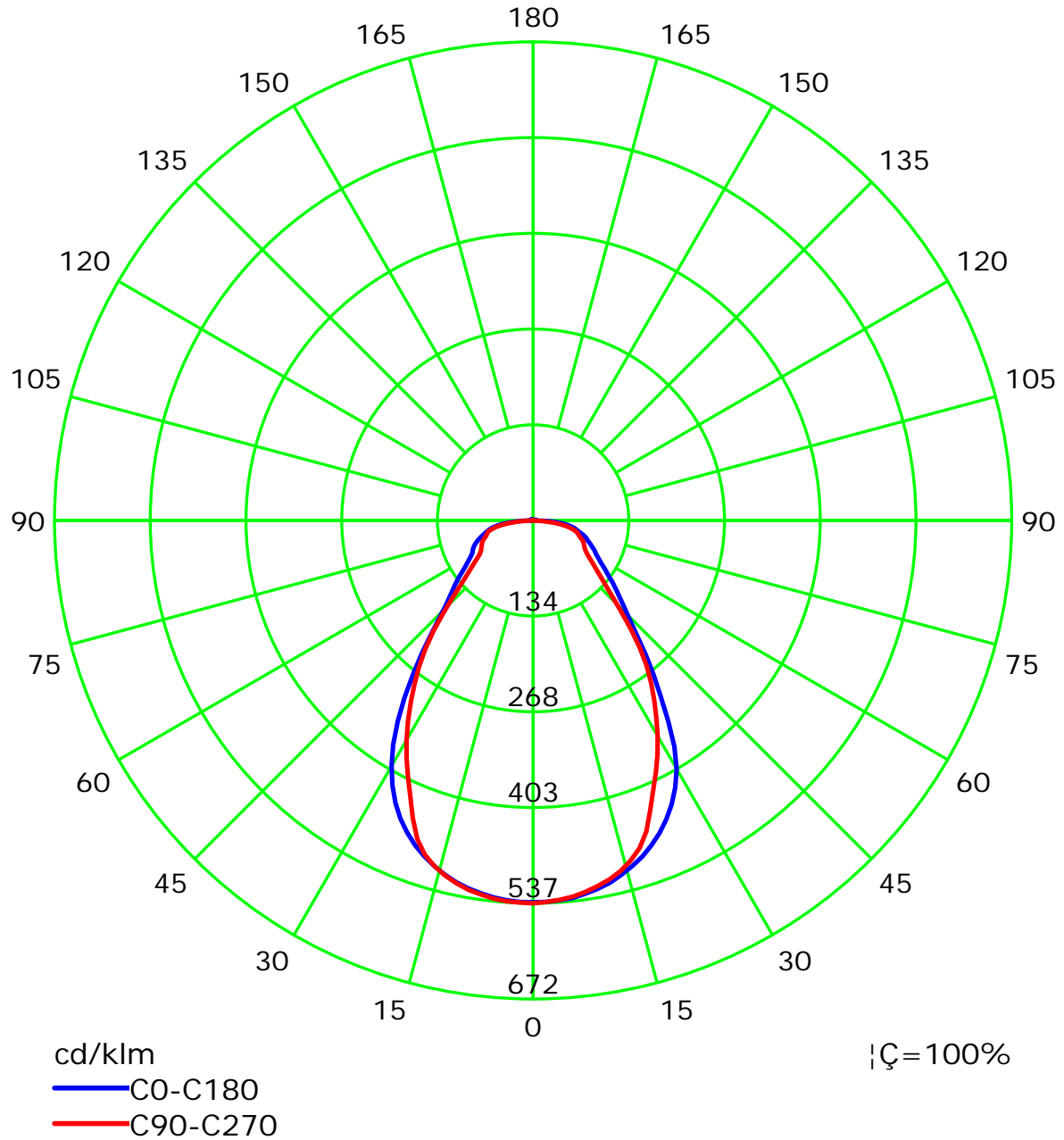
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.677 m

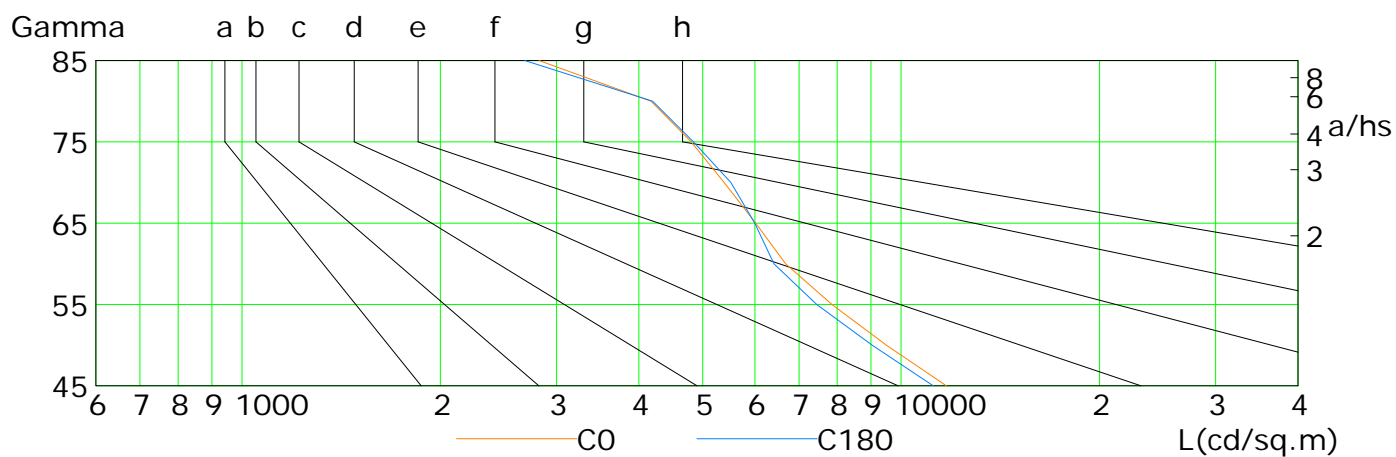
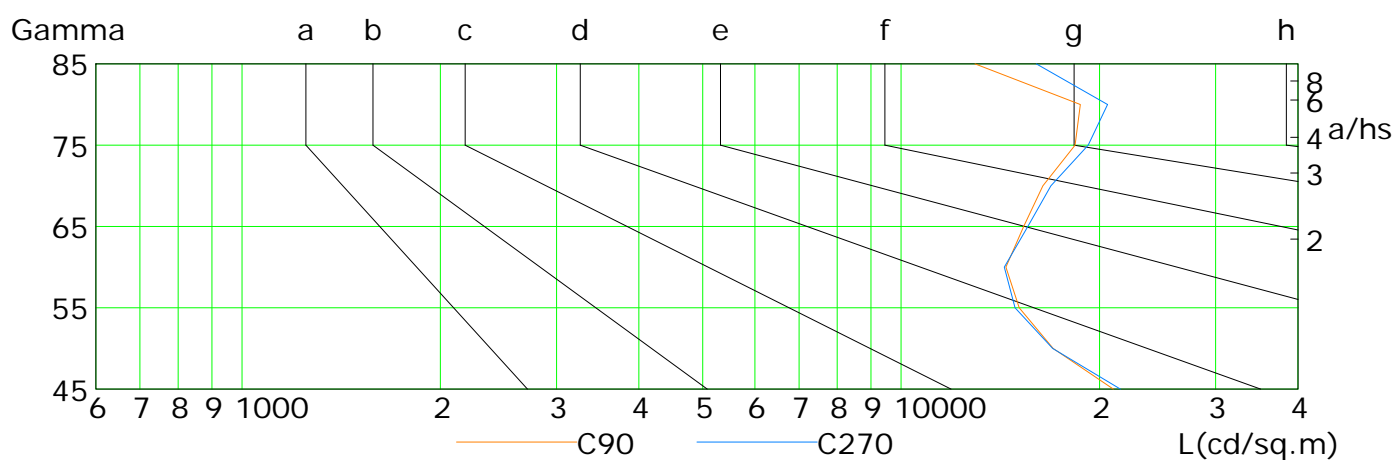
Humidity:

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	11711	9498	7850	6682	6017	5388	4802	4174	2823
C90	20990	17005	15109	14423	15346	16413	18360	18699	12941
C180	11188	9033	7445	6413	5998	5517	4840	4198	2686
C270	21504	16976	14890	14338	15564	16872	19218	20570	16038

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

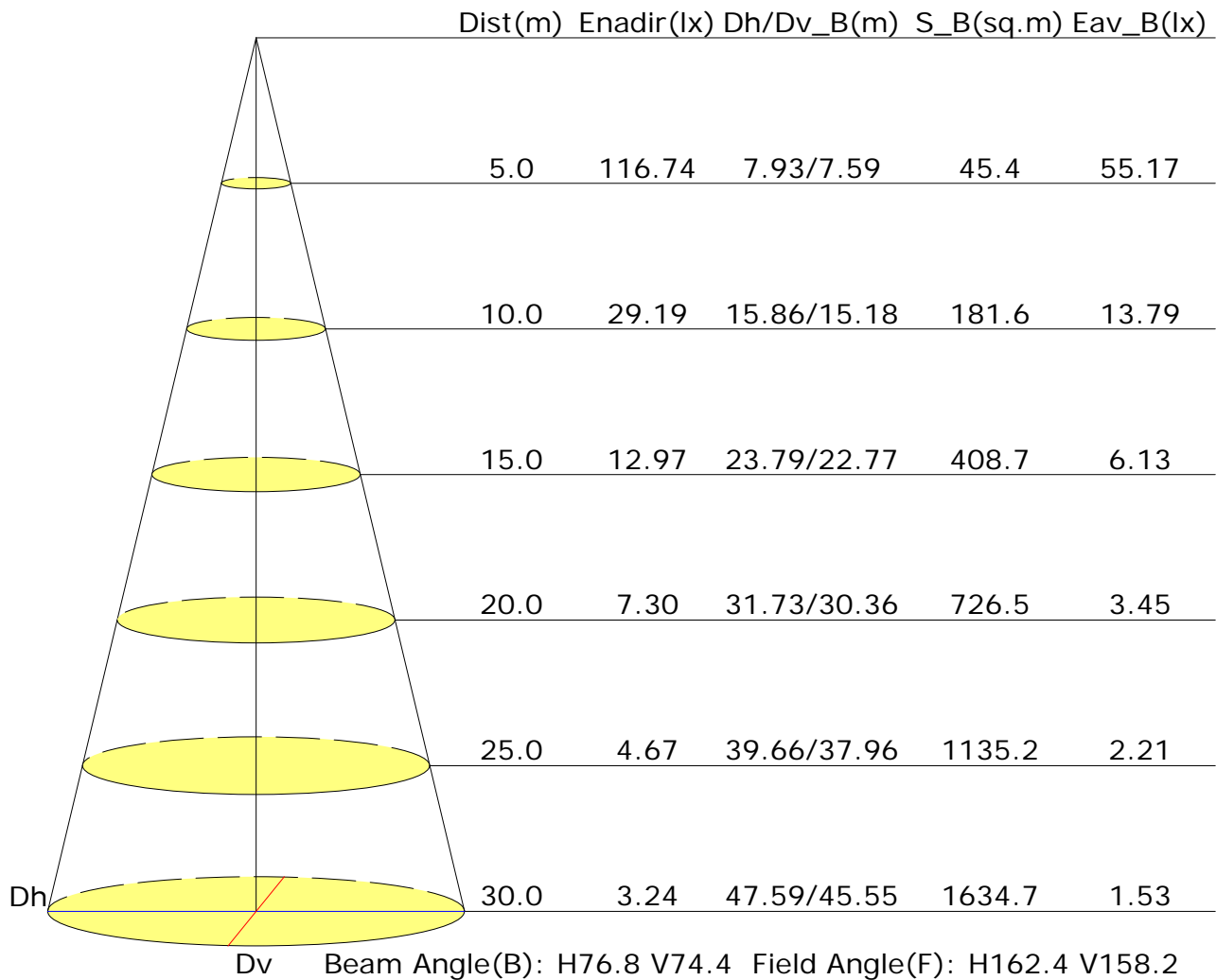
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## 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	19.3	20.5	19.6	20.7	21.0	19.9	21.2	20.2	21.4	21.7
3H	20.4	21.6	20.8	21.8	22.1	21.6	22.7	21.9	23.0	23.3
4H	21.0	22.1	21.4	22.4	22.7	22.6	23.7	22.9	24.0	24.3
6H	21.5	22.5	21.9	22.9	23.2	23.6	24.6	24.0	24.9	25.3
8H	21.8	22.7	22.1	23.1	23.4	24.0	25.0	24.4	25.3	25.6
12H	21.9	22.8	22.3	23.2	23.5	24.2	25.2	24.6	25.5	25.9
X=4H Y=2H	19.6	20.7	20.0	21.0	21.3	20.2	21.3	20.6	21.6	21.9
3H	21.1	22.0	21.4	22.3	22.7	22.0	23.0	22.4	23.3	23.7
4H	21.8	22.6	22.2	23.0	23.4	23.2	24.0	23.6	24.4	24.8
6H	22.5	23.2	22.9	23.6	24.0	24.3	25.1	24.8	25.5	25.9
8H	22.8	23.4	23.2	23.8	24.3	24.8	25.5	25.2	25.9	26.3
12H	23.0	23.6	23.4	24.0	24.5	25.1	25.7	25.6	26.1	26.6
X=8H Y=4H	22.1	22.7	22.5	23.2	23.6	23.3	24.0	23.8	24.4	24.9
6H	22.9	23.4	23.3	23.9	24.4	24.6	25.1	25.1	25.6	26.1
8H	23.2	23.7	23.7	24.2	24.7	25.1	25.6	25.6	26.1	26.6
12H	23.5	23.9	24.0	24.4	24.9	25.5	25.9	26.0	26.4	26.9
X=12H Y=4H	22.1	22.7	22.6	23.2	23.6	23.3	23.9	23.8	24.4	24.8
6H	22.9	23.4	23.4	23.9	24.4	24.6	25.1	25.1	25.6	26.1
8H	23.3	23.8	23.8	24.2	24.8	25.1	25.6	25.6	26.0	26.6
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.3/-0.3				
S=1.5H	+0.6/-0.8					+0.7/-0.7				
S=2.0H	+1.1/-1.2					+1.2/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 5439Im ( $8\log(F/F_0) = 5.9$ ).

C Plane (°):0.0-360.0: 22.5

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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 = 1.00									
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	0.63	0.72	0.79	0.83	0.90	0.94	0.97	1.01	1.04	
	0.30		0.56	0.66	0.72	0.77	0.84	0.89	0.93	0.98	1.01	
	0.20		0.51	0.60	0.67	0.72	0.79	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.62	0.70	0.76	0.81	0.87	0.91	0.94	0.97	1.00	
	0.30		0.55	0.64	0.70	0.75	0.82	0.86	0.90	0.94	0.97	
	0.20		0.51	0.60	0.66	0.71	0.78	0.83	0.86	0.91	0.95	
0.30	0.50	0.20	0.60	0.69	0.74	0.78	0.84	0.87	0.90	0.94	0.96	
	0.30		0.55	0.63	0.69	0.73	0.80	0.84	0.87	0.91	0.94	
	0.20		0.50	0.59	0.65	0.70	0.76	0.81	0.84	0.89	0.91	
0.00	0.00	0.00	0.48	0.56	0.62	0.66	0.73	0.77	0.80	0.84	0.87	
Rating: 49W 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	0.90	0.74	0.64	0.56	0.45	0.37	0.32	0.25	0.21	
	0.30		0.75	0.64	0.55	0.49	0.41	0.34	0.30	0.24	0.20	
	0.20		0.64	0.55	0.49	0.44	0.37	0.32	0.28	0.22	0.19	
0.50	0.50	0.20	0.86	0.71	0.61	0.53	0.43	0.39	0.31	0.24	0.20	
	0.30		0.73	0.62	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
	0.20		0.63	0.54	0.48	0.43	0.36	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.83	0.68	0.58	0.51	0.41	0.34	0.29	0.23	0.19	
	0.30		0.71	0.60	0.52	0.46	0.37	0.32	0.27	0.22	0.18	
	0.20		0.62	0.54	0.47	0.42	0.35	0.30	0.26	0.21	0.17	
0.00	0.00	0.00	0.51	0.43	0.37	0.33	0.27	0.23	0.20	0.16	0.13	
Rating: 49W 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	0.19	0.20	0.21	0.21	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	0.07	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	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.19	0.19	
	0.20		0.06	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	0.21	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	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: 49W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												