

Report No.:

Test Time: 22.06.2020 21:05

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60/1000 30W 4000K прозрачный

Luminous Length (mm): 950

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 222.3 V

Current: 0.141 A

Power: 30.35 W

Power Factor: 0.965

## Photometric Results

CIE Class: Direct

Measurement Flux: 4269.4 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 4269.4 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.2, 117.8, 132.9, 133.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.1, 109.8, 111.1, 111.1

Luminaire Efficacy Rating (LER): 140.72

Central Intensity: 1669.16 cd

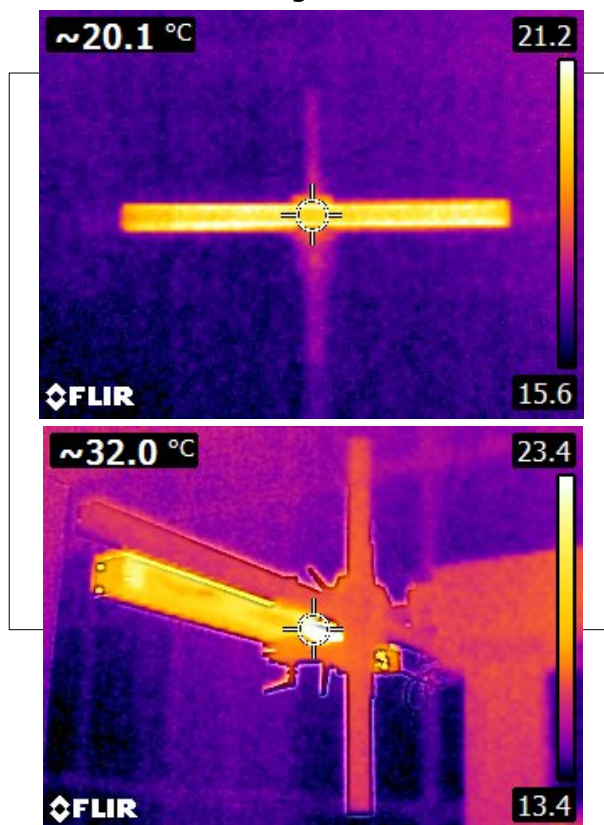
Max. Intensity: 1672.56 cd

Pos of Max. Intensity: H112.5 V2

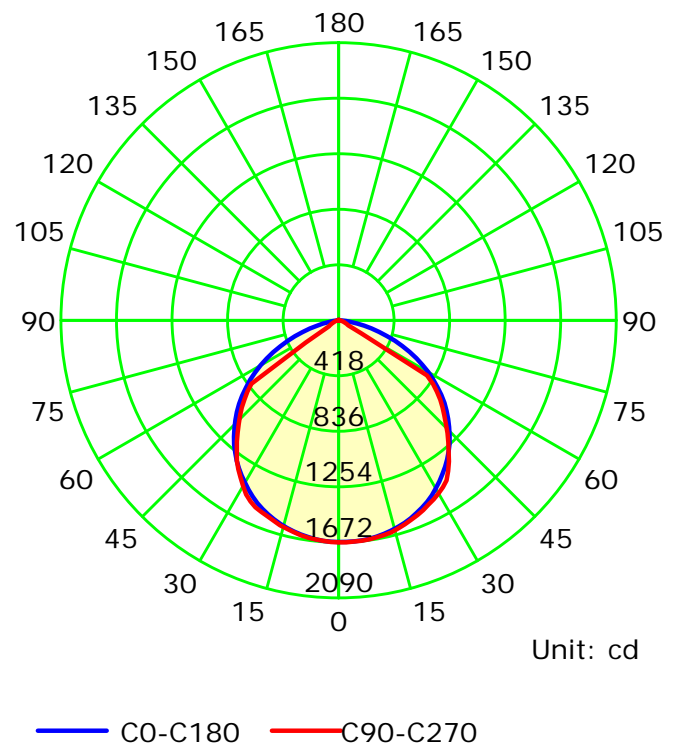
S/MH(C0/C180): 1.28

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

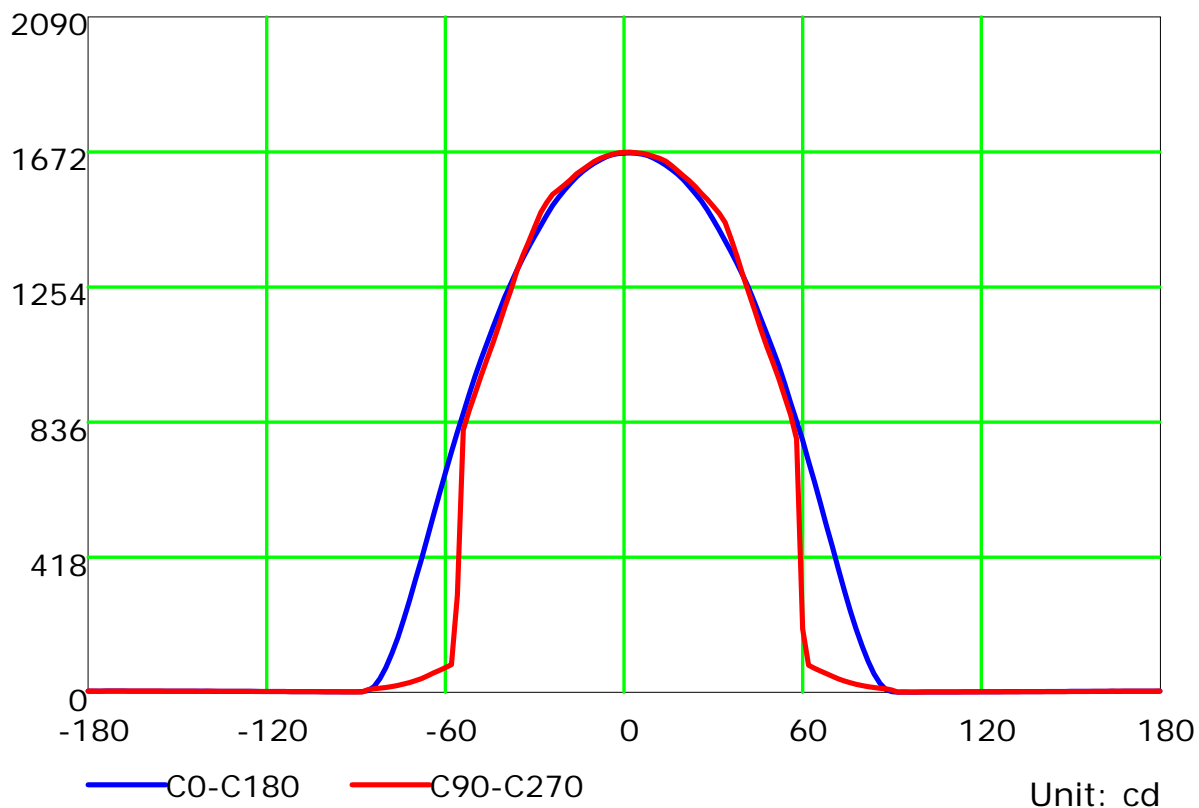
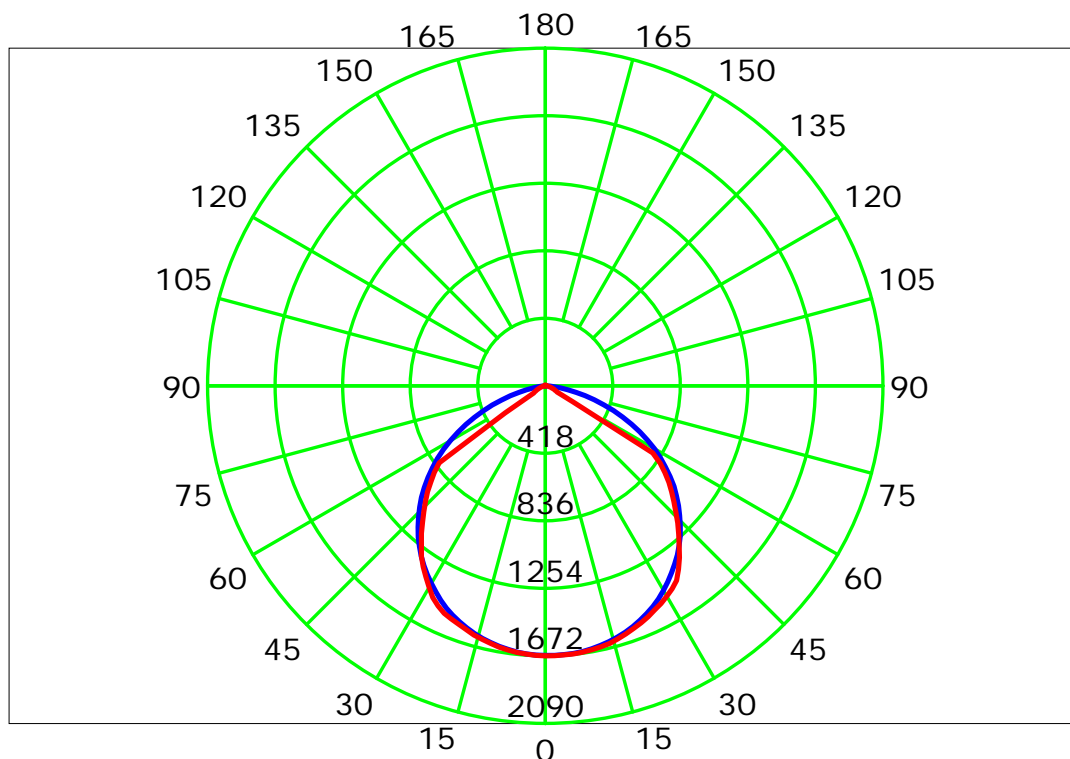
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

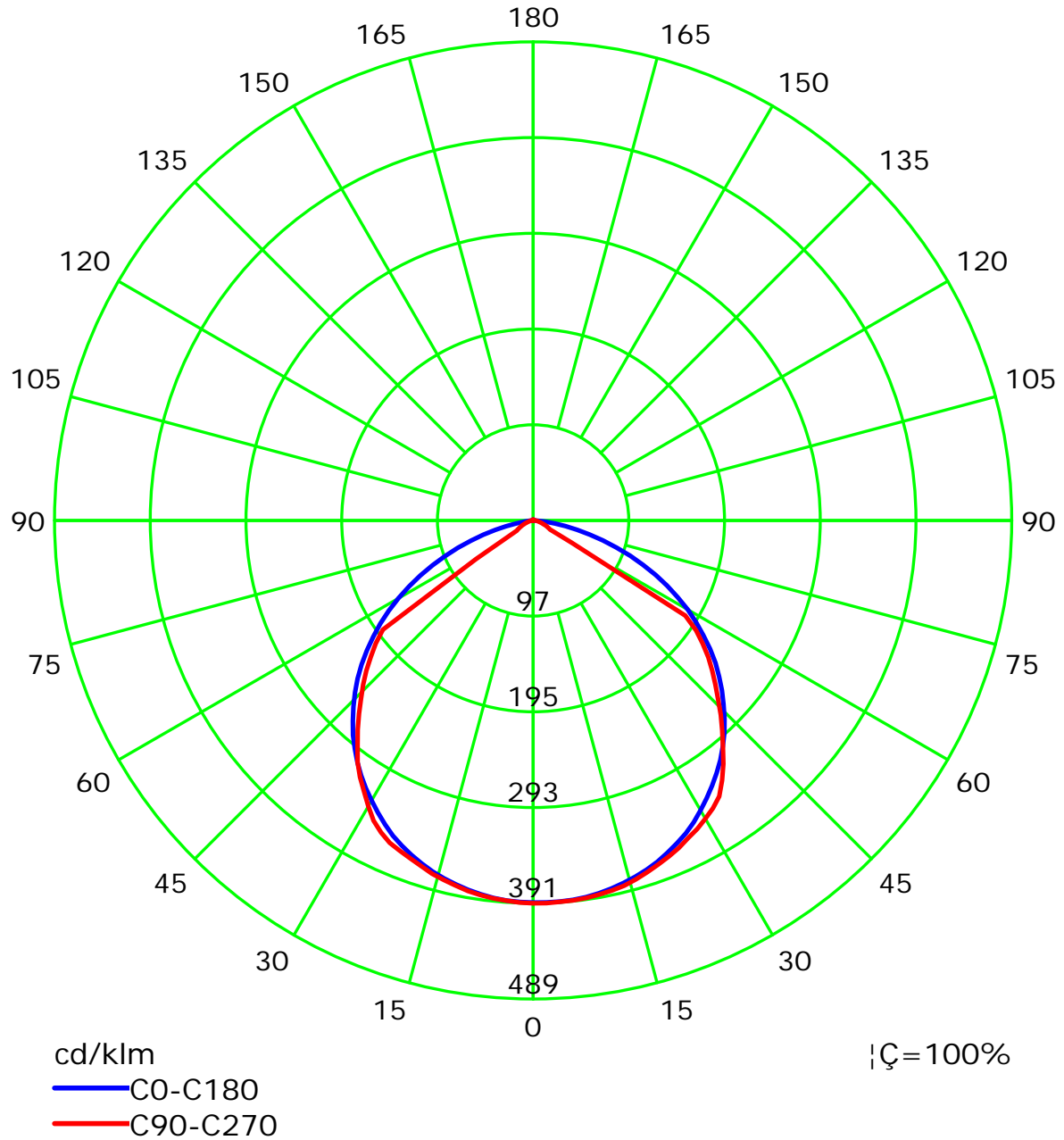
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve(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

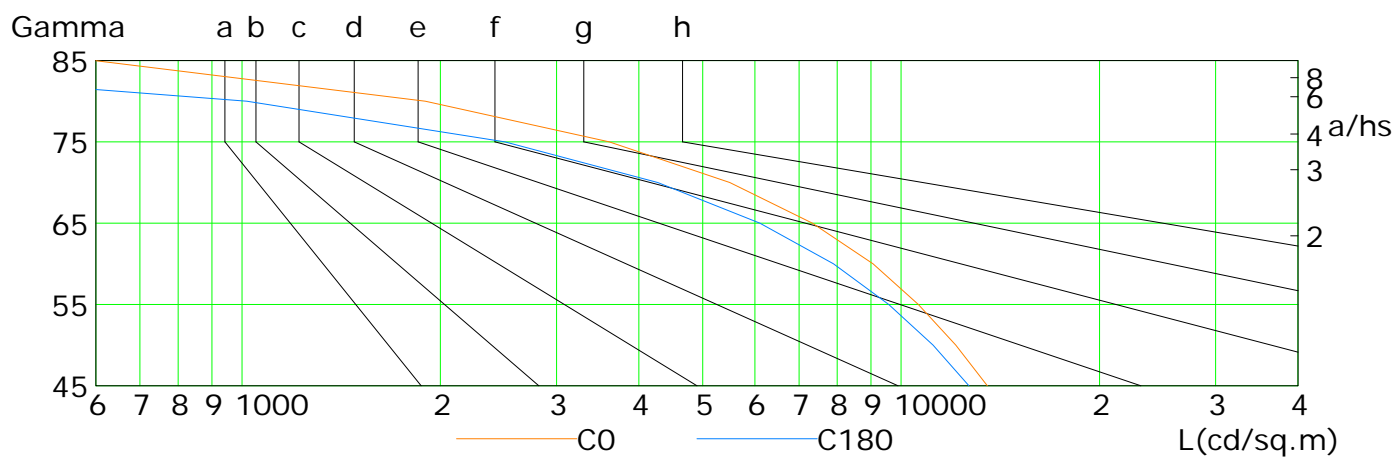
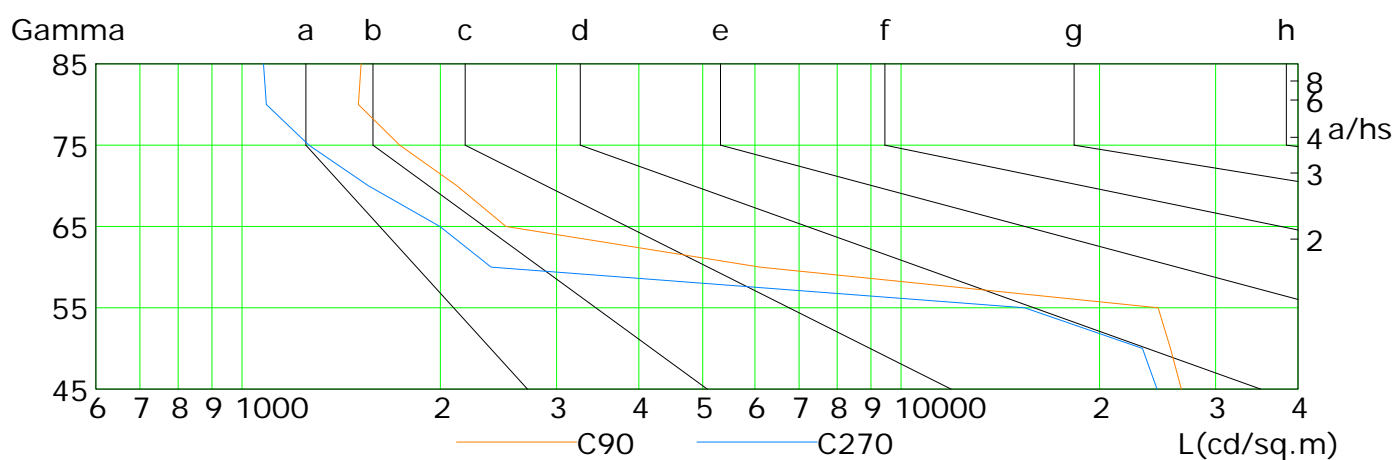
Humidity:

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	13511	12107	10619	9066	7334	5495	3607	1898	598
C90	26615	25620	24544	6107	2515	2120	1735	1501	1516
C180	12669	11178	9577	7894	6105	4273	2504	1017	163
C270	24447	23228	15397	2388	1996	1555	1263	1089	1078

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

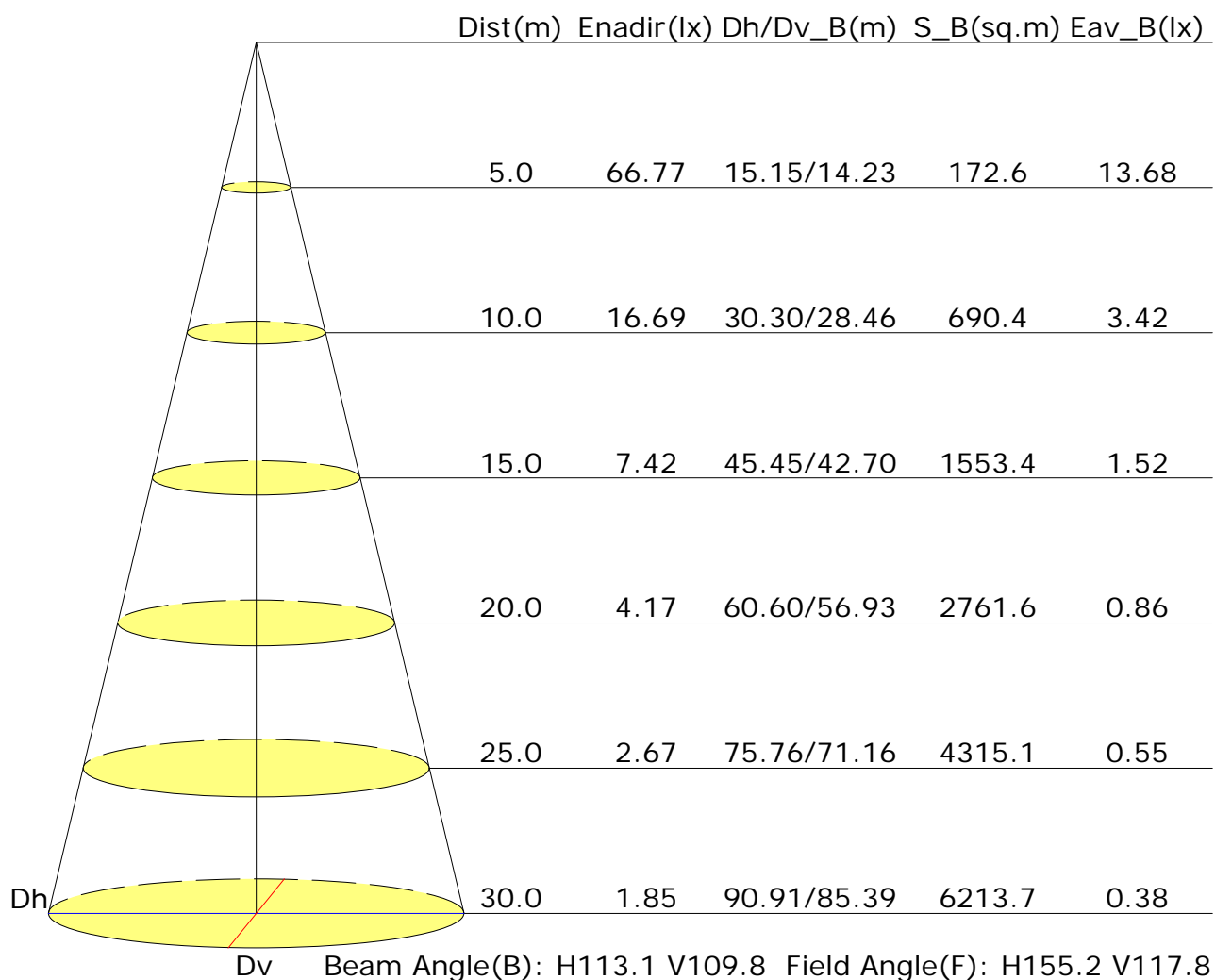
Test Device: LSG-1800B

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	21.5	22.8	21.8	23.1	23.3	21.4	22.7	21.7	22.9	23.2
3H	22.5	23.6	22.8	23.9	24.2	21.3	22.4	21.6	22.7	23.0
4H	22.7	23.8	23.1	24.1	24.4	21.2	22.3	21.6	22.6	22.9
6H	22.8	23.8	23.1	24.1	24.4	21.2	22.2	21.5	22.5	22.8
8H	22.8	23.7	23.1	24.1	24.4	21.1	22.1	21.5	22.4	22.7
12H	22.7	23.7	23.1	24.0	24.3	21.1	22.0	21.5	22.3	22.7
X=4H Y=2H	21.9	23.0	22.2	23.3	23.6	21.7	22.8	22.1	23.1	23.4
3H	22.9	23.8	23.3	24.1	24.5	21.6	22.5	22.0	22.9	23.2
4H	23.2	24.0	23.6	24.4	24.8	21.5	22.4	21.9	22.7	23.1
6H	23.3	24.0	23.7	24.4	24.8	21.5	22.2	21.9	22.6	23.0
8H	23.3	23.9	23.7	24.3	24.8	21.5	22.1	21.9	22.5	22.9
12H	23.3	23.8	23.7	24.3	24.7	21.4	22.0	21.9	22.4	22.9
X=8H Y=4H	23.1	23.8	23.6	24.2	24.6	21.5	22.2	21.9	22.6	23.0
6H	23.2	23.7	23.7	24.2	24.6	21.5	22.0	21.9	22.4	22.9
8H	23.2	23.7	23.7	24.1	24.6	21.4	21.9	21.9	22.4	22.8
12H	23.2	23.6	23.7	24.1	24.6	21.4	21.8	21.9	22.3	22.8
X=12H Y=4H	23.1	23.7	23.5	24.1	24.5	21.5	22.1	21.9	22.5	22.9
6H	23.2	23.6	23.7	24.1	24.6	21.4	21.9	21.9	22.3	22.8
8H	23.2	23.6	23.7	24.0	24.6	21.4	21.8	21.9	22.3	22.8
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.5/-1.2				
S=1.5H	+0.5/-1.2					+2.2/-8.4				
S=2.0H	+1.1/-2.0					+3.8/-11.2				

Calculate in accordance with CIE Pub.117. The table is revised with 4269lm ( $8\log(F/F_0) = 5.0$ ).

C Plane (°):0.0-360.0: 22.5

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Temperature:

Operator:

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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	1.06	
	0.30		0.54	0.65	0.73	0.79	0.87	0.92	0.95	1.00	1.03	
	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	0.60	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	0.92	0.97	1.00	
	0.20		0.48	0.59	0.67	0.73	0.80	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.58	0.68	0.75	0.80	0.86	0.90	0.93	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		0.48	0.59	0.66	0.72	0.79	0.84	0.87	0.92	0.94	
0.00	0.00	0.00	0.46	0.56	0.64	0.69	0.76	0.80	0.83	0.87	0.90	
Rating: 30W 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	0.42	0.35	0.30	0.23	0.18	
	0.30		0.78	0.64	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.20		0.67	0.56	0.49	0.43	0.35	0.29	0.25	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	0.30	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	0.26	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: 30W 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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22
	0.30		0.10	0.11	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	0.17	0.18	0.19	0.20	0.20	0.21	0.21
	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	0.08	0.10	0.12	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.18	0.18
	0.20		0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.16	0.17
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rating: 30W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											