

Report No.:

Test Time: 05.06.2020 18:25

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 100W 5000K 90гр. диод 3Т матовое стекло DALI

Luminous Length (mm): 277

Luminous Width (mm): 277

Luminous Height (mm): 123

Voltage: 221.6 V

Current: 0.448 A

Power: 98.50 W

Power Factor: 0.991

## Photometric Results

CIE Class: Direct

Measurement Flux: 12496.7 lm

Total Rated Lamp Lumens: 12496.7 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 147.0, 145.5, 146.7, 146.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 92.7, 92.4, 92.3, 92.4

Luminaire Efficacy Rating (LER): 126.92

Central Intensity: 5571.11 cd

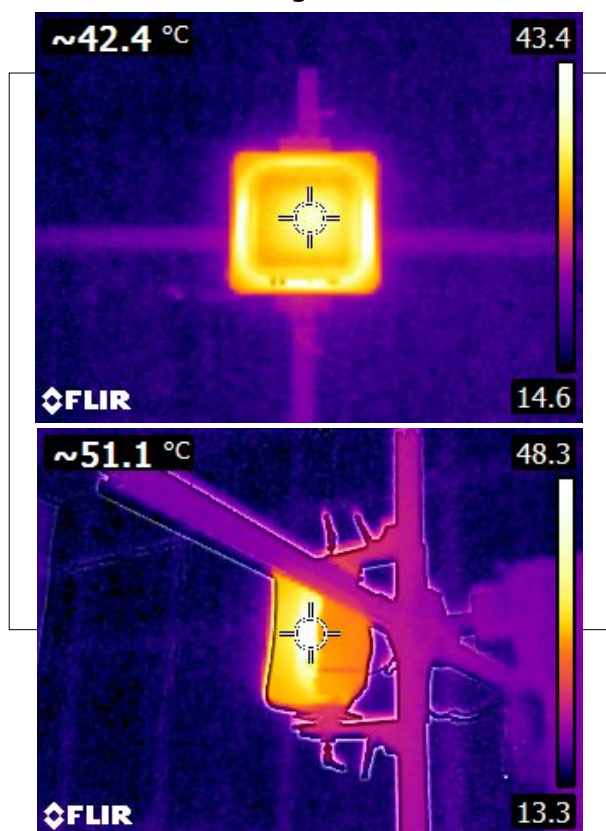
Max. Intensity: 5586.21 cd

Pos of Max. Intensity: H247.5 V6

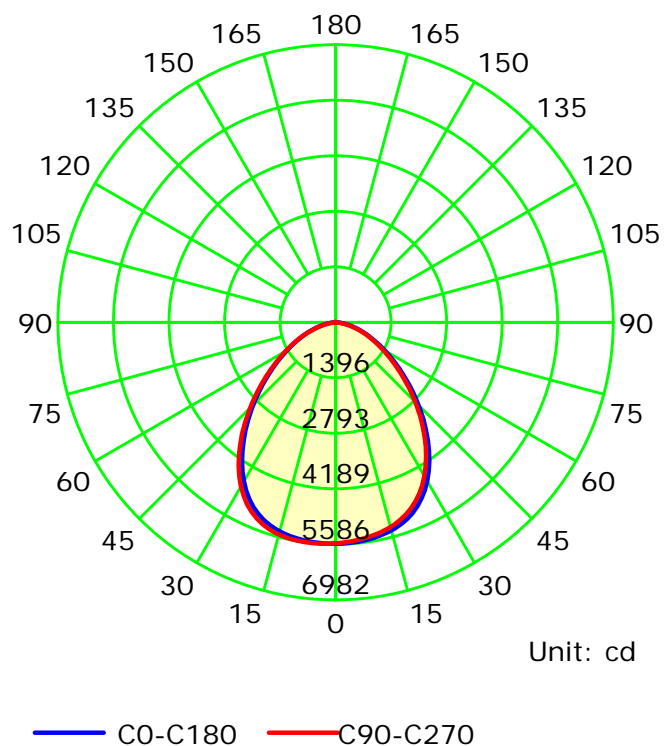
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.22

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

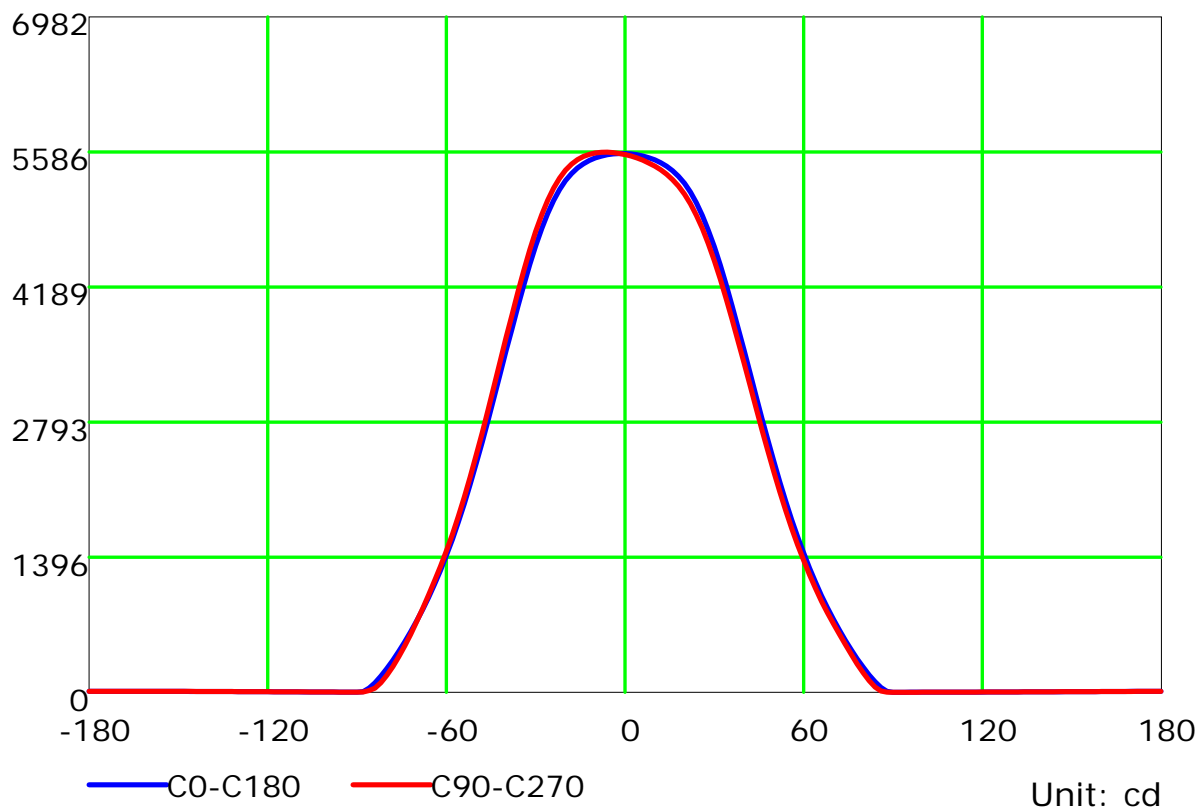
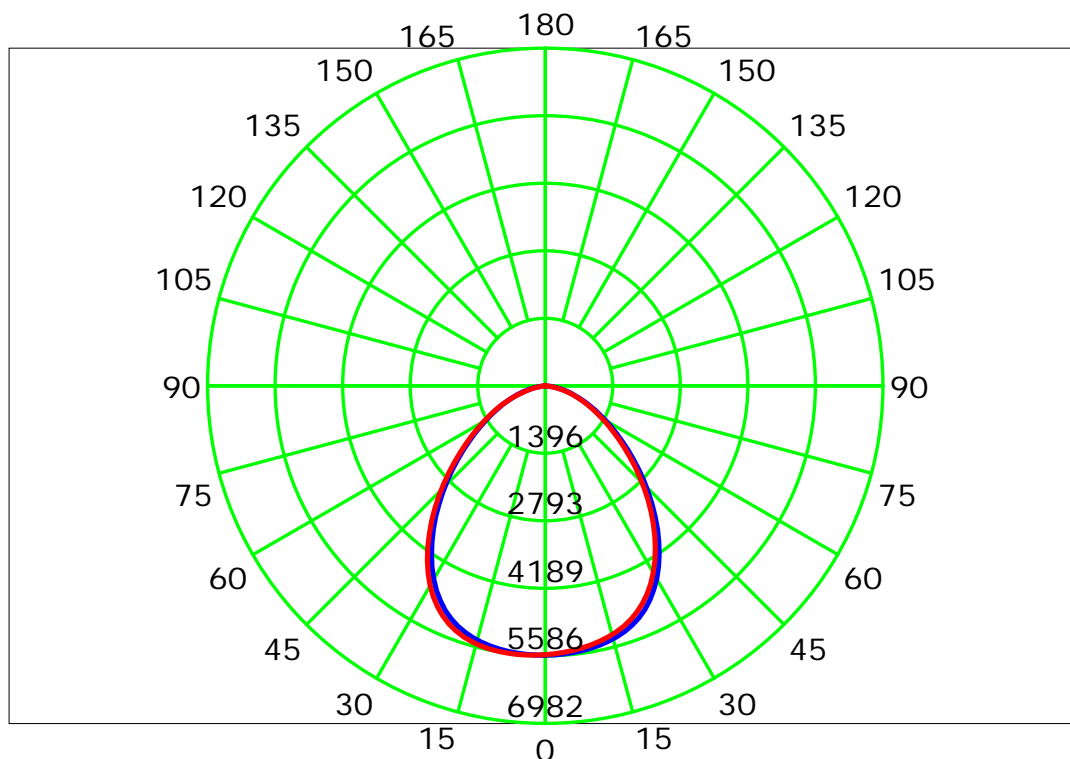
Test Device: LSG-1800B

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

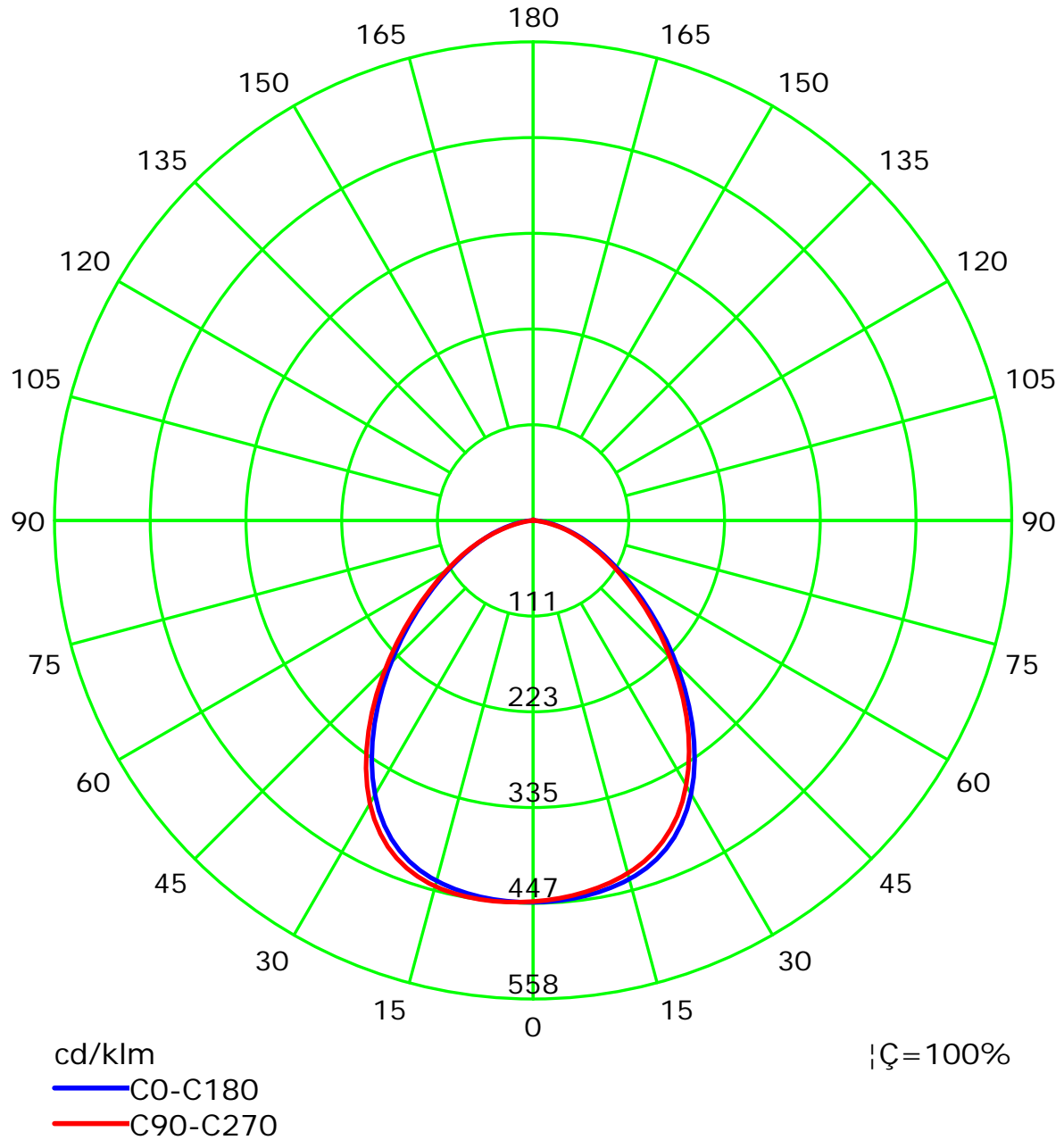
Test Device: LSG-1800B

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

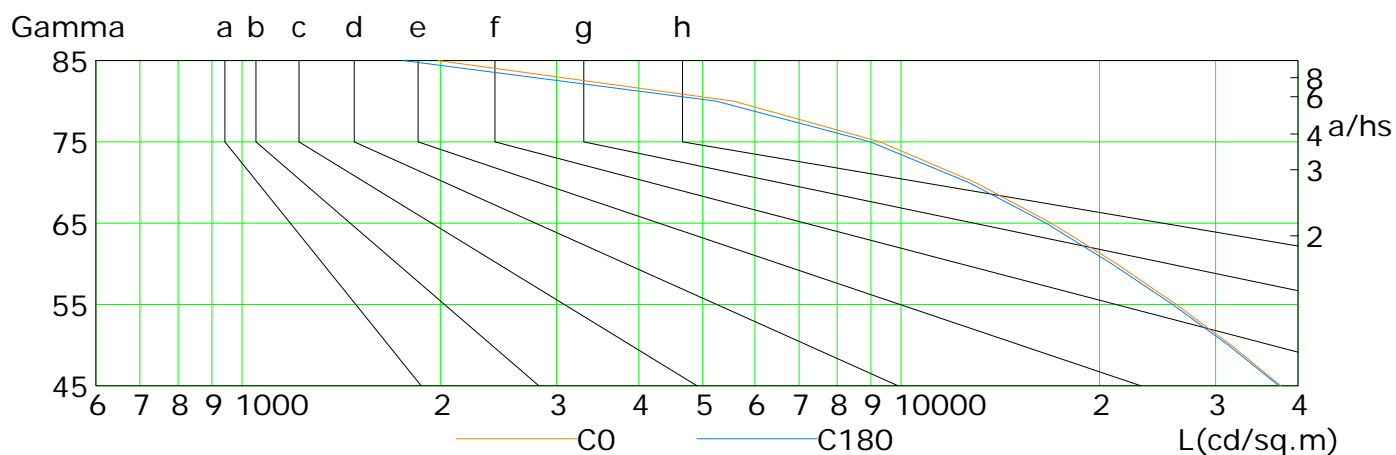
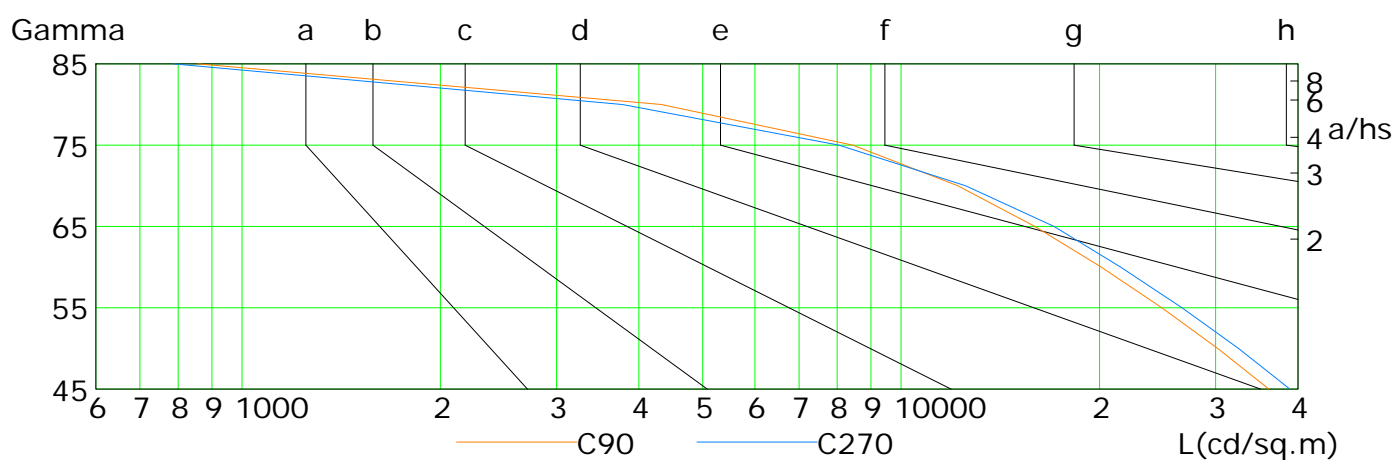
Humidity:

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	37662	31647	26137	21238	16889	12960	9284	5574	1984
C90	36140	30226	24862	20128	15956	12190	8449	4327	857
C180	37442	31354	25815	20871	16590	12663	8972	5246	1758
C270	38878	32496	26681	21535	17062	12530	8053	3776	787

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

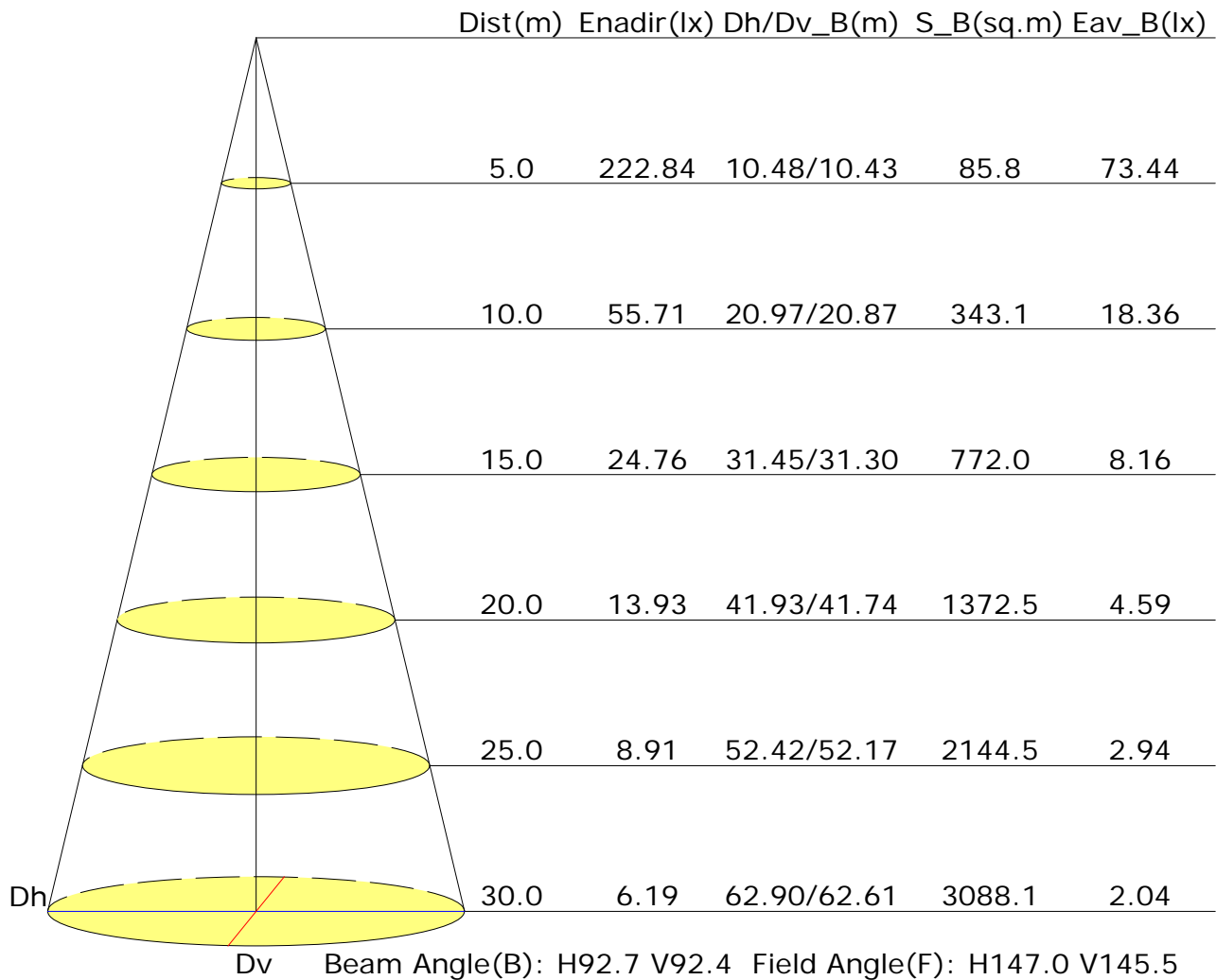
Test Device: LSG-1800B

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	23.3	24.5	23.6	24.7	25.0	23.3	24.5	23.5	24.7	25.0
3H	24.0	25.1	24.3	25.4	25.6	23.9	25.1	24.3	25.3	25.6
4H	24.2	25.3	24.5	25.5	25.8	24.1	25.2	24.5	25.5	25.8
6H	24.3	25.3	24.6	25.6	25.9	24.2	25.2	24.5	25.5	25.8
8H	24.3	25.2	24.6	25.6	25.9	24.1	25.1	24.5	25.4	25.7
12H	24.3	25.2	24.6	25.5	25.8	24.1	25.0	24.5	25.3	25.7
X=4H Y=2H	23.6	24.6	23.9	24.9	25.2	23.5	24.6	23.9	24.9	25.2
3H	24.4	25.3	24.8	25.6	26.0	24.4	25.3	24.8	25.6	26.0
4H	24.7	25.5	25.1	25.9	26.2	24.6	25.4	25.0	25.8	26.2
6H	24.8	25.6	25.3	26.0	26.4	24.7	25.4	25.1	25.8	26.2
8H	24.9	25.5	25.3	25.9	26.4	24.7	25.4	25.1	25.8	26.2
12H	24.9	25.4	25.3	25.9	26.3	24.7	25.3	25.1	25.7	26.1
X=8H Y=4H	24.7	25.4	25.2	25.8	26.2	24.7	25.3	25.1	25.7	26.2
6H	25.0	25.5	25.4	25.9	26.4	24.8	25.3	25.3	25.8	26.3
8H	25.0	25.5	25.5	25.9	26.4	24.8	25.3	25.3	25.7	26.2
12H	25.0	25.4	25.5	25.9	26.4	24.8	25.2	25.3	25.7	26.2
X=12H Y=4H	24.7	25.3	25.2	25.7	26.2	24.7	25.3	25.1	25.7	26.1
6H	24.9	25.4	25.4	25.9	26.4	24.8	25.3	25.3	25.7	26.2
8H	25.0	25.4	25.5	25.9	26.4	24.8	25.2	25.3	25.7	26.2
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.5					+0.3/-0.5				
S=1.5H	+0.7/-1.1					+0.8/-1.2				
S=2.0H	+1.6/-2.1					+1.7/-2.2				

Calculate in accordance with CIE Pub.117. The table is revised with 12497lm ( $8\log(F/F_0) = 8.8$ ).

C Plane (°):0.0-360.0: 22.5

Test Lab:

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Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

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	0.64	0.74	0.81	0.86	0.92	0.96	0.99	1.03	1.06	
		0.30	0.57	0.67	0.74	0.79	0.87	0.92	0.95	1.00	1.03	
		0.20	0.52	0.62	0.69	0.75	0.82	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.63	0.72	0.78	0.83	0.89	0.93	0.96	0.99	1.02	
		0.30	0.56	0.66	0.73	0.78	0.85	0.89	0.92	0.97	0.99	
		0.20	0.52	0.62	0.68	0.74	0.81	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.61	0.70	0.76	0.80	0.86	0.90	0.92	0.96	0.98	
		0.30	0.56	0.65	0.71	0.76	0.82	0.87	0.90	0.93	0.96	
		0.20	0.51	0.61	0.68	0.72	0.79	0.84	0.87	0.91	0.94	
0.00	0.00	0.00	0.49	0.59	0.65	0.70	0.76	0.80	0.83	0.87	0.89	
Rating: 99W 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	0.88	0.72	0.60	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.74	0.61	0.53	0.46	0.37	0.31	0.27	0.21	0.17	
	0.20		0.63	0.54	0.47	0.42	0.34	0.29	0.25	0.20	0.16	
0.50	0.50	0.20	0.85	0.69	0.58	0.50	0.39	0.36	0.27	0.21	0.17	
	0.30		0.72	0.60	0.51	0.45	0.36	0.30	0.26	0.20	0.16	
	0.20		0.62	0.53	0.46	0.40	0.33	0.28	0.24	0.19	0.16	
0.30	0.50	0.20	0.82	0.66	0.55	0.48	0.37	0.31	0.26	0.20	0.16	
	0.30		0.70	0.58	0.49	0.43	0.34	0.29	0.24	0.19	0.15	
	0.20		0.62	0.52	0.45	0.39	0.32	0.27	0.23	0.18	0.15	
0.00	0.00	0.00	0.51	0.41	0.35	0.30	0.24	0.20	0.17	0.13	0.11	
Rating: 99W 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	0.18	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.17	0.19	0.20	
	0.20		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	
	0.30		0.09	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	0.14	0.16	0.16	0.17	0.18	
	0.20		0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.16	
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: 99W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												