

Report No.:

Test Time: 08.06.2020 22:58

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 100W 5000K 60гр. диод 3Т матовое стекло DALI

Luminous Length (mm): 277

Luminous Width (mm): 277

Luminous Height (mm): 123

Voltage: 221.4 V

Current: 0.446 A

Power: 98.00 W

Power Factor: 0.990

## Photometric Results

CIE Class: Direct

Measurement Flux: 12640 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 12640.0 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 127.8, 127.6, 127.7, 127.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 66.6, 66.9, 66.5, 66.4

Luminaire Efficacy Rating (LER): 129.03

Central Intensity: 8576.16 cd

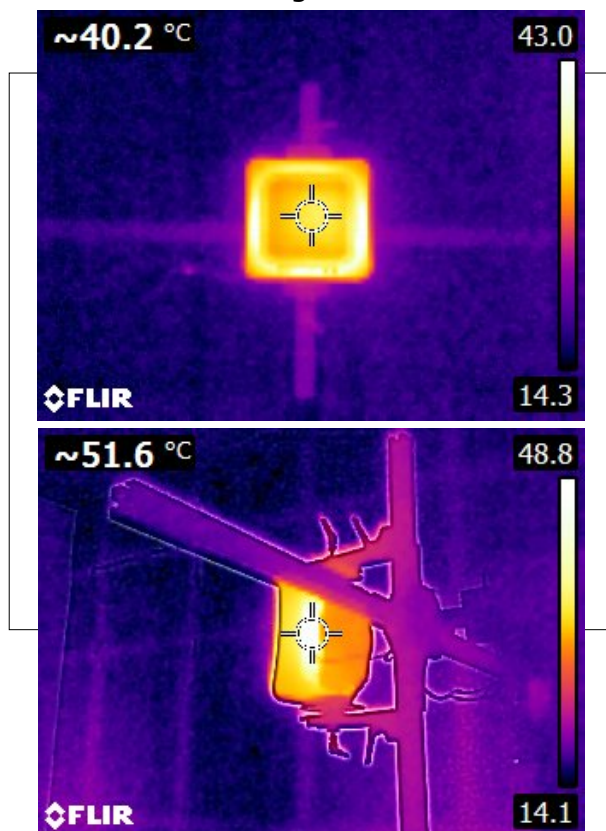
Max. Intensity: 8576.17 cd

Pos of Max. Intensity: H0 V0

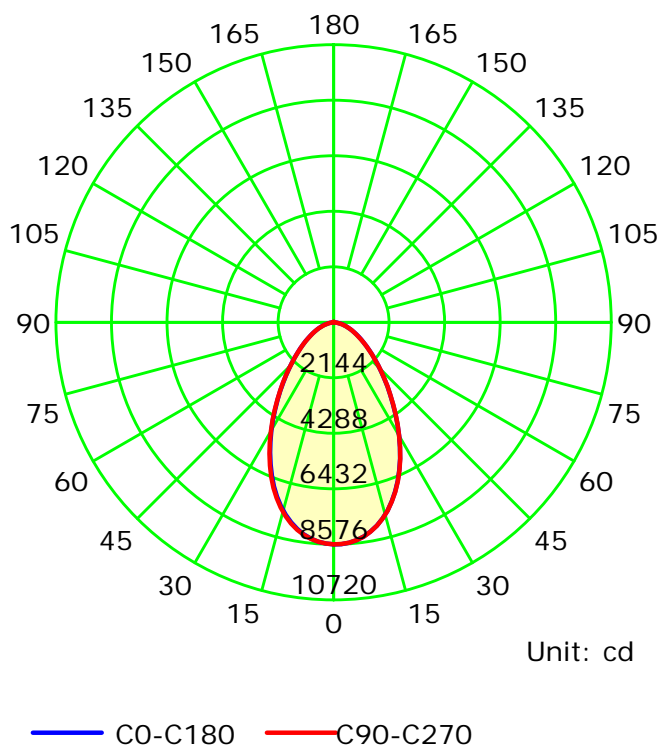
S/MH(C0/C180): 0.95

S/MH(C90/C270): 0.96

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

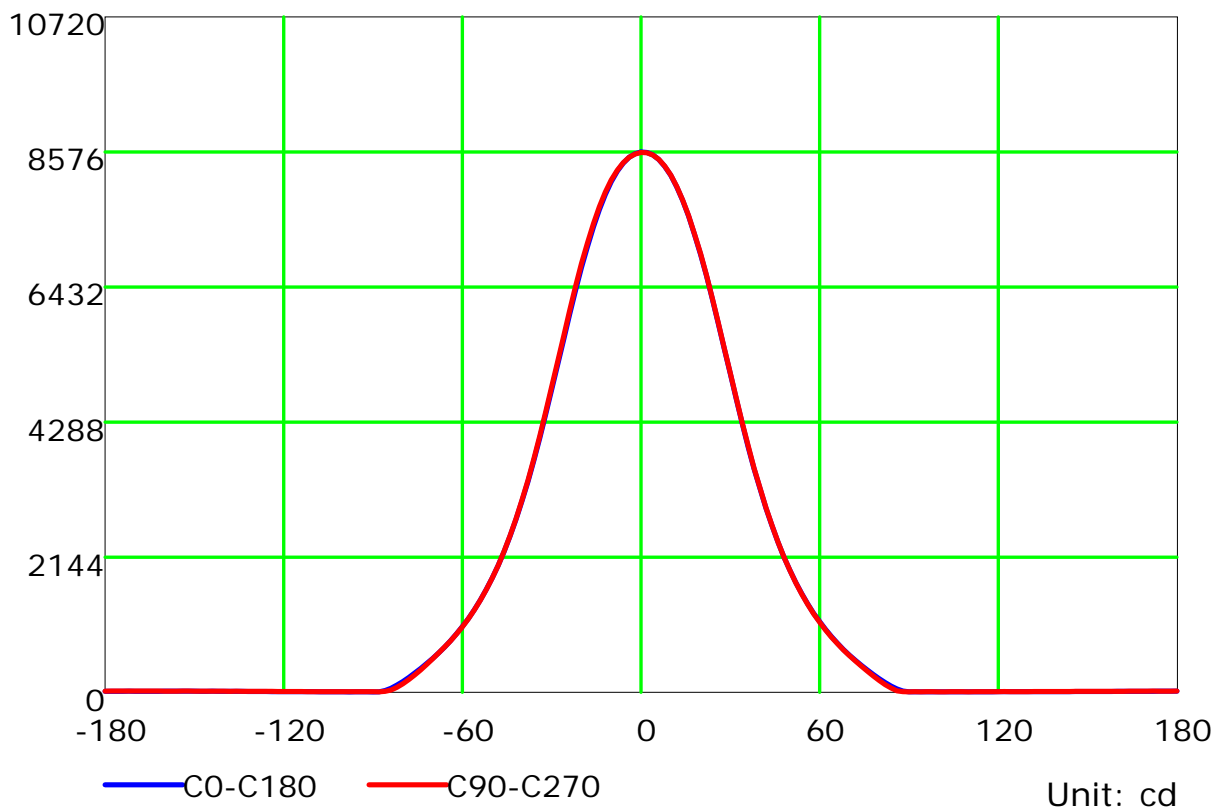
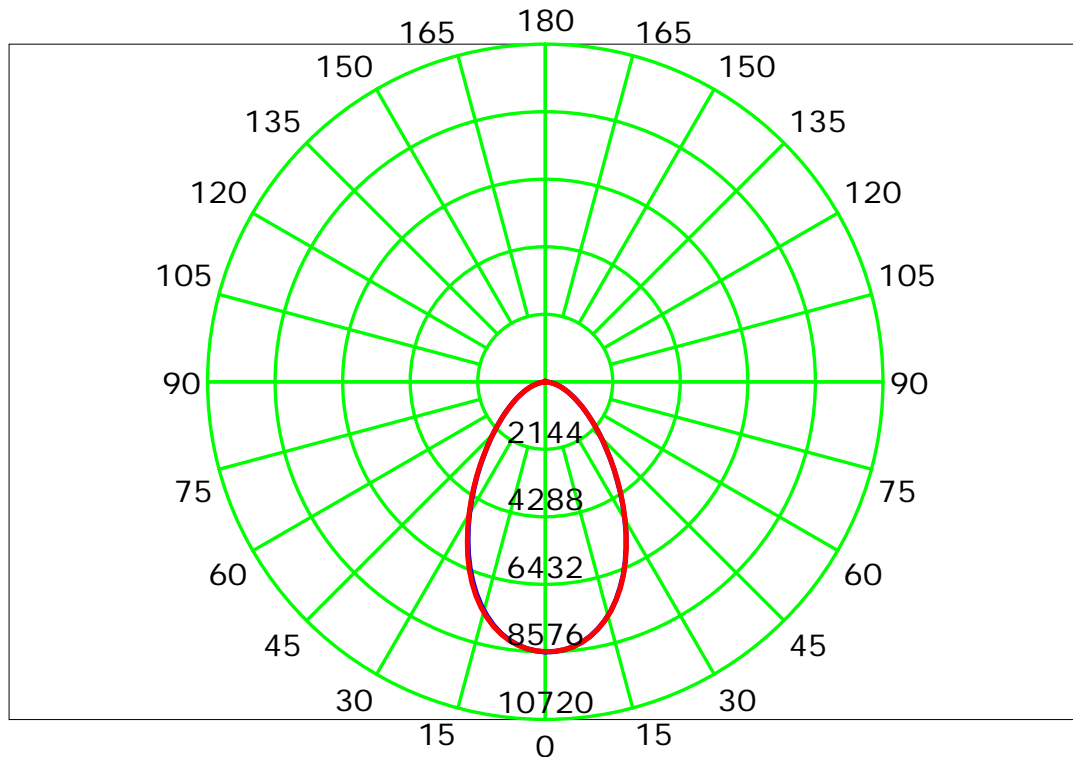
Test Device: LSG-1800B

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

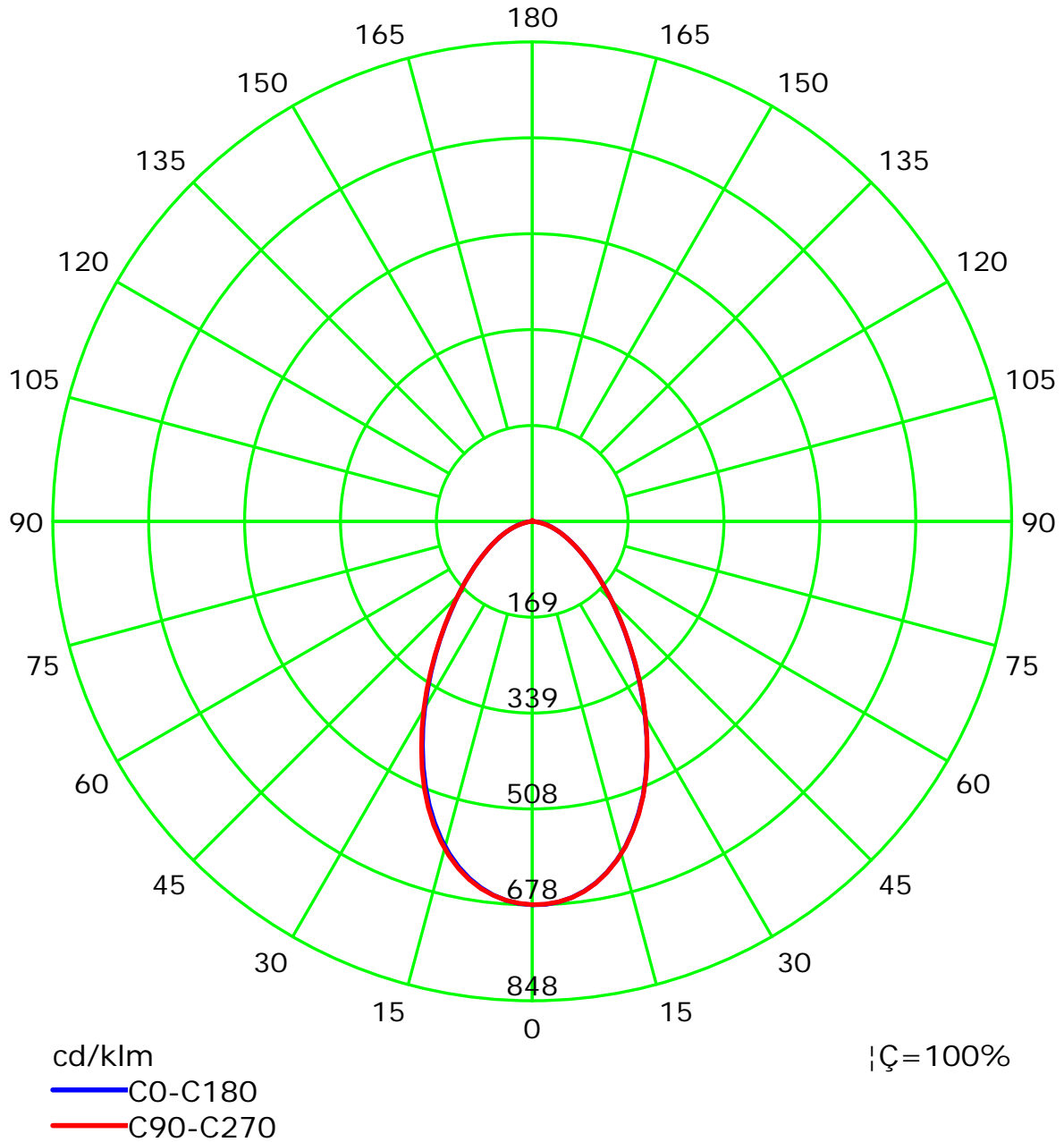
Test Device: LSG-1800B

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

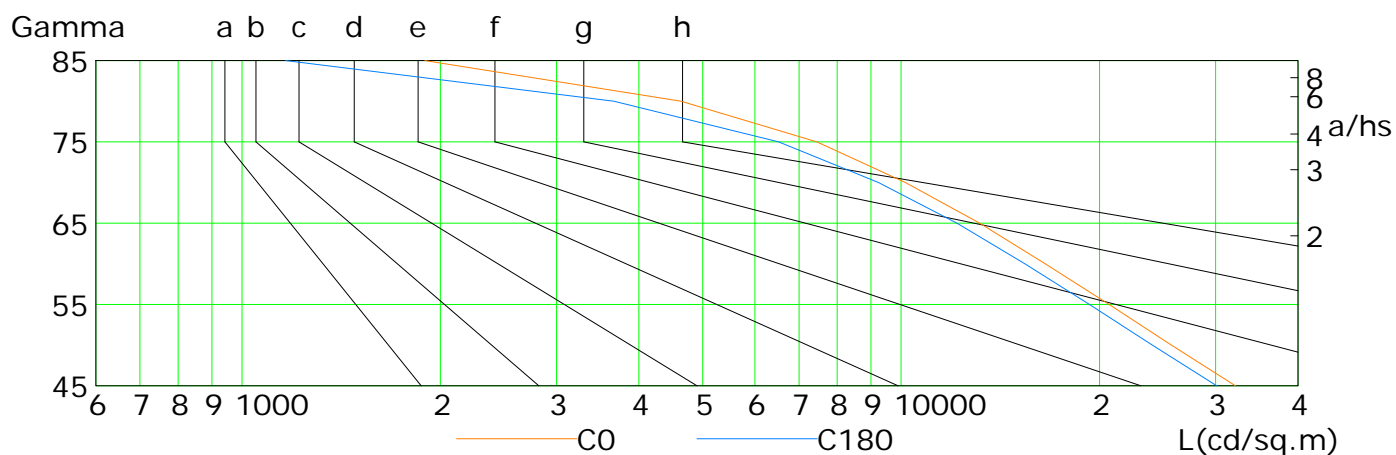
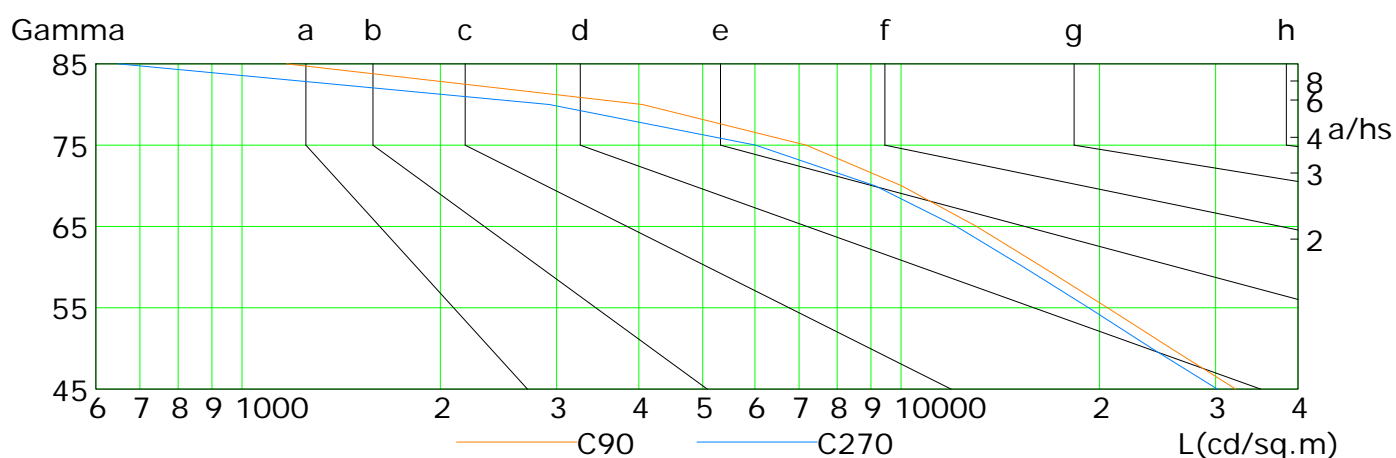
Humidity:

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	32144	25713	20682	16547	13154	10150	7449	4634	1894
C90	32187	25678	20569	16395	13017	10018	7181	4050	1168
C180	30112	24048	19311	15410	12148	9239	6519	3666	1164
C270	30184	24017	19254	15340	12134	9133	6016	2924	649

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

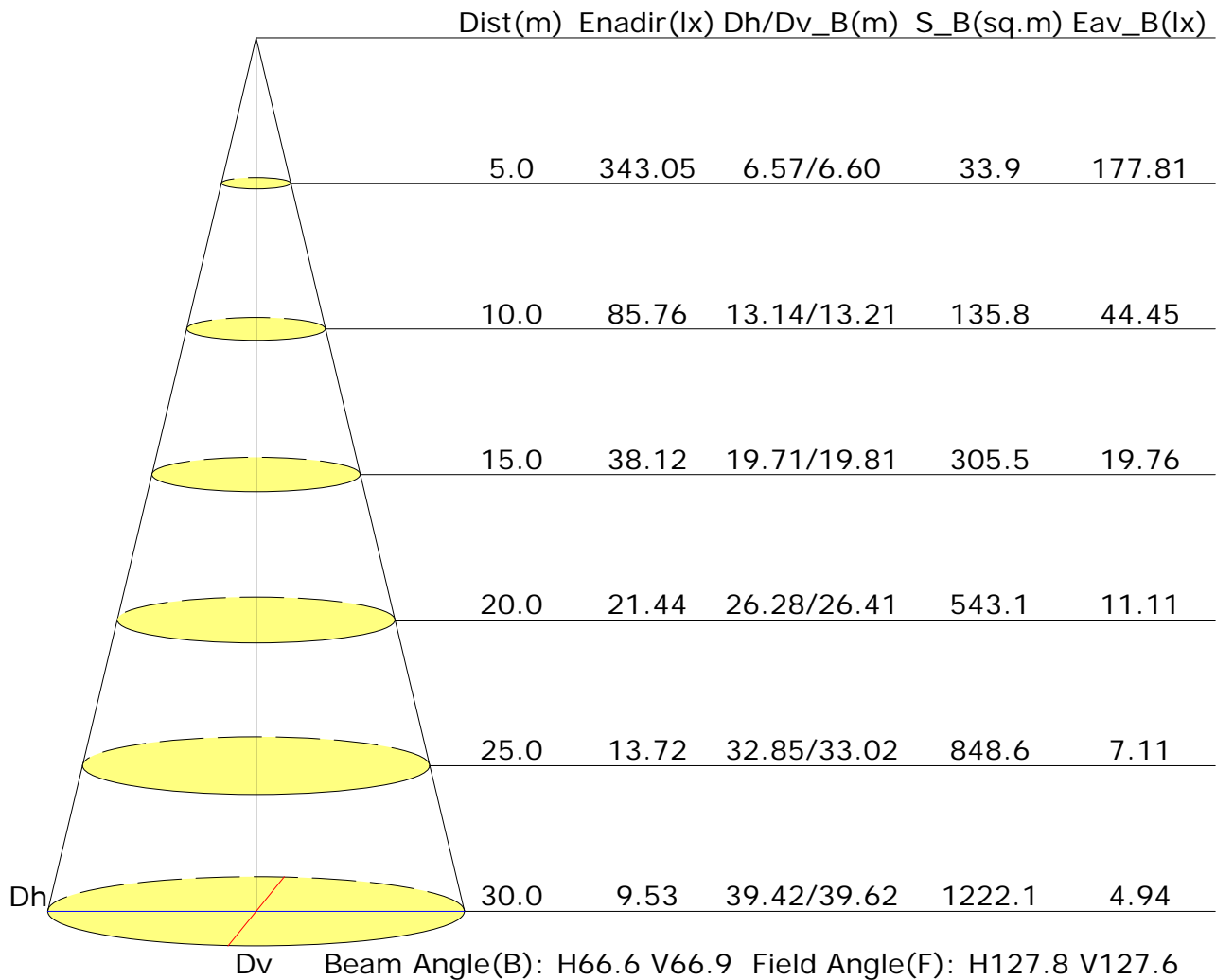
Test Device: LSG-1800B

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	22.0	23.1	22.3	23.4	23.6	21.8	23.0	22.1	23.2	23.4
3H	22.6	23.7	22.9	23.9	24.2	22.4	23.5	22.8	23.7	24.0
4H	22.8	23.8	23.2	24.1	24.4	22.6	23.6	22.9	23.9	24.2
6H	22.9	23.8	23.3	24.1	24.5	22.6	23.6	23.0	23.9	24.2
8H	22.9	23.8	23.3	24.1	24.5	22.6	23.5	23.0	23.8	24.2
12H	22.9	23.7	23.3	24.1	24.4	22.6	23.4	23.0	23.8	24.1
X=4H Y=2H	22.2	23.2	22.6	23.5	23.8	22.1	23.1	22.4	23.3	23.6
3H	23.0	23.8	23.4	24.2	24.5	22.8	23.7	23.2	24.0	24.3
4H	23.3	24.0	23.7	24.4	24.8	23.1	23.8	23.5	24.2	24.6
6H	23.4	24.1	23.9	24.5	24.9	23.2	23.8	23.6	24.2	24.6
8H	23.5	24.1	23.9	24.5	24.9	23.2	23.8	23.6	24.2	24.6
12H	23.5	24.0	23.9	24.4	24.9	23.1	23.7	23.6	24.1	24.6
X=8H Y=4H	23.3	23.9	23.8	24.3	24.8	23.1	23.7	23.6	24.1	24.6
6H	23.5	24.0	24.0	24.5	24.9	23.3	23.8	23.7	24.2	24.7
8H	23.6	24.0	24.1	24.5	25.0	23.3	23.7	23.8	24.2	24.7
12H	23.6	24.0	24.1	24.4	25.0	23.3	23.6	23.8	24.1	24.6
X=12H Y=4H	23.3	23.8	23.8	24.3	24.7	23.1	23.6	23.6	24.1	24.5
6H	23.5	23.9	24.0	24.4	24.9	23.3	23.7	23.8	24.1	24.6
8H	23.6	23.9	24.1	24.4	24.9	23.3	23.6	23.8	24.1	24.6
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.7					+0.5/-0.7				
S=1.5H	+1.1/-1.4					+1.1/-1.5				
S=2.0H	+2.1/-2.2					+2.1/-2.2				

Calculate in accordance with CIE Pub.117. The table is revised with 12640lm ( $8\log(F/F_0) = 8.8$ ).

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:

## 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	0.68	0.77	0.84	0.88	0.94	0.98	1.01	1.04	1.07	
	0.30		0.62	0.71	0.78	0.82	0.89	0.94	0.97	1.01	1.04	
	0.20		0.57	0.66	0.73	0.78	0.85	0.90	0.94	0.98	1.02	
0.50	0.50	0.20	0.67	0.75	0.81	0.85	0.91	0.95	0.97	1.00	1.02	
	0.30		0.61	0.70	0.76	0.81	0.87	0.91	0.94	0.98	1.00	
	0.20		0.57	0.66	0.72	0.77	0.83	0.88	0.91	0.95	0.98	
0.30	0.50	0.20	0.65	0.74	0.79	0.83	0.88	0.91	0.94	0.97	0.99	
	0.30		0.60	0.69	0.75	0.79	0.85	0.88	0.91	0.95	0.97	
	0.20		0.56	0.65	0.71	0.76	0.82	0.86	0.89	0.93	0.95	
0.00	0.00	0.00	0.54	0.63	0.69	0.73	0.78	0.82	0.85	0.88	0.90	
Rating: 98W 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	0.82	0.67	0.56	0.49	0.38	0.32	0.27	0.21	0.17	
	0.30		0.69	0.57	0.49	0.43	0.35	0.29	0.25	0.19	0.16	
	0.20		0.59	0.50	0.43	0.39	0.32	0.27	0.23	0.18	0.15	
0.50	0.50	0.20	0.79	0.64	0.54	0.46	0.36	0.33	0.25	0.19	0.16	
	0.30		0.67	0.55	0.47	0.41	0.33	0.28	0.24	0.18	0.15	
	0.20		0.58	0.49	0.42	0.37	0.31	0.26	0.22	0.17	0.14	
0.30	0.50	0.20	0.76	0.61	0.51	0.44	0.34	0.28	0.24	0.18	0.15	
	0.30		0.65	0.54	0.46	0.40	0.32	0.26	0.22	0.17	0.14	
	0.20		0.57	0.48	0.41	0.36	0.29	0.25	0.21	0.17	0.14	
0.00	0.00	0.00	0.45	0.37	0.31	0.27	0.21	0.18	0.15	0.11	0.09	
Rating: 98W 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	0.17	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	0.11	0.13	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	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		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.14	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	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	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: 98W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												