

Report No.:

Test Time: 19.08.2020 13:30

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 100W 5000K 90gr prozrachnoe steclo DALI

Number of Lamps: 1

Luminous Width (mm): 275

Voltage: 221.4 V

Power: 98.27 W

Luminous Length (mm): 275

Luminous Height (mm): 90

Current: 0.447 A

Power Factor: 0.991

## Photometric Results

CIE Class: Direct

Measurement Flux: 14307.1 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 120.1, 117.6, 119.7, 119.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 94.9, 92.2, 93.8, 93.6

Luminaire Efficacy Rating (LER): 145.64

Max. Intensity: 7153.15 cd

S/MH(C0/C180): 1.41

Total Rated Lamp Lumens: 14307.1 lm

Efficiency: 100%

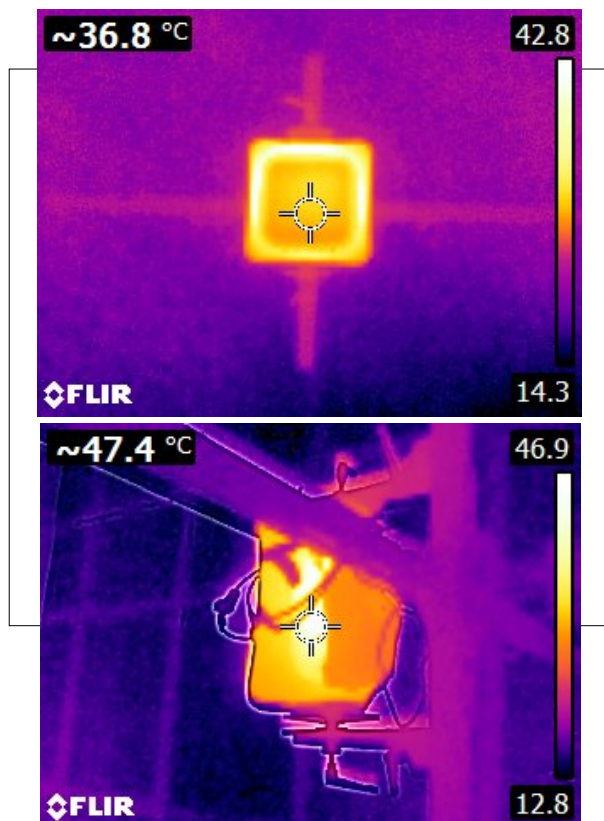
Upward Ratio: 1%

Central Intensity: 6366.01 cd

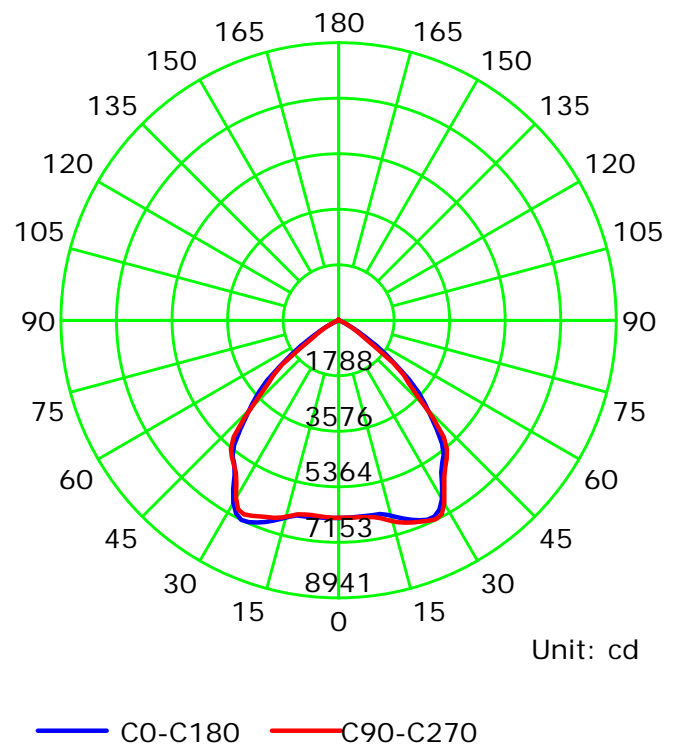
Pos of Max. Intensity: H180 V26

S/MH(C90/C270): 1.42

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

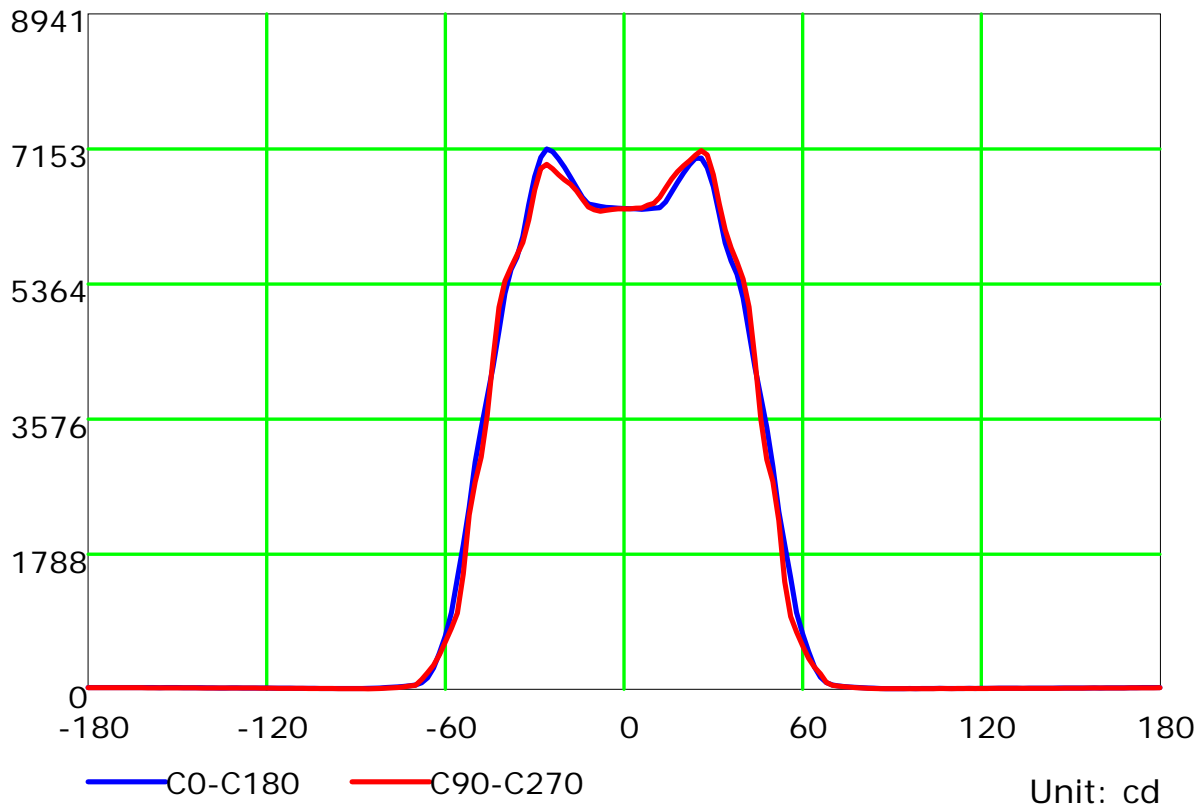
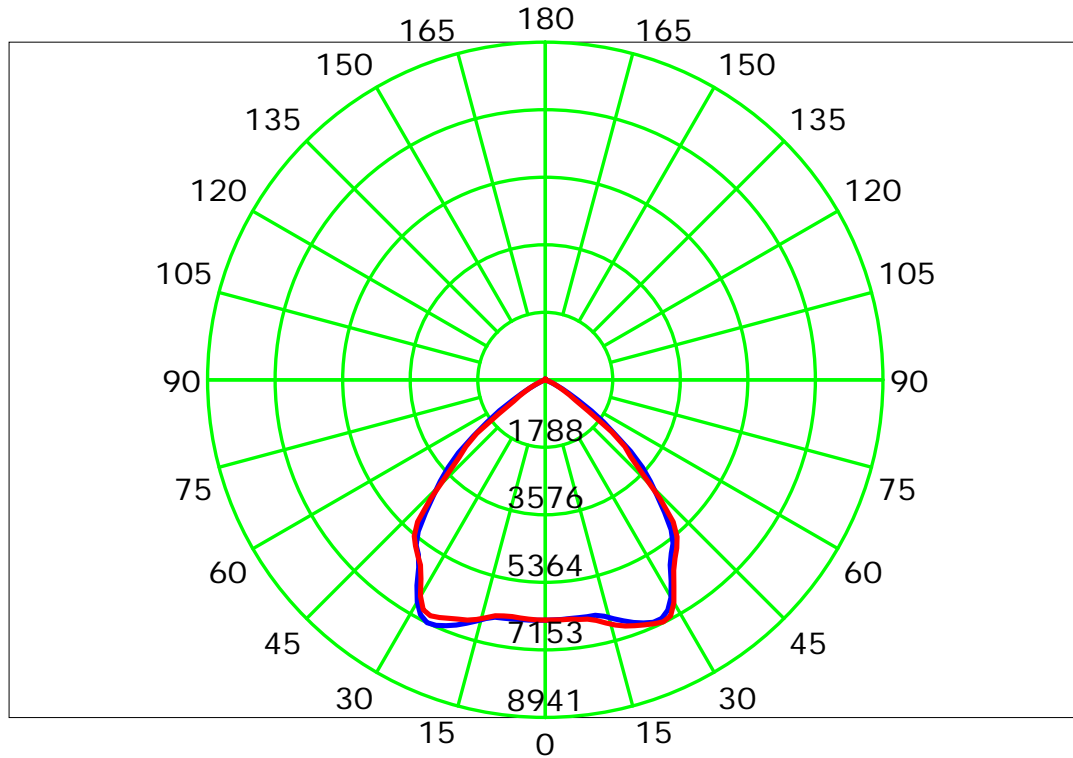
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

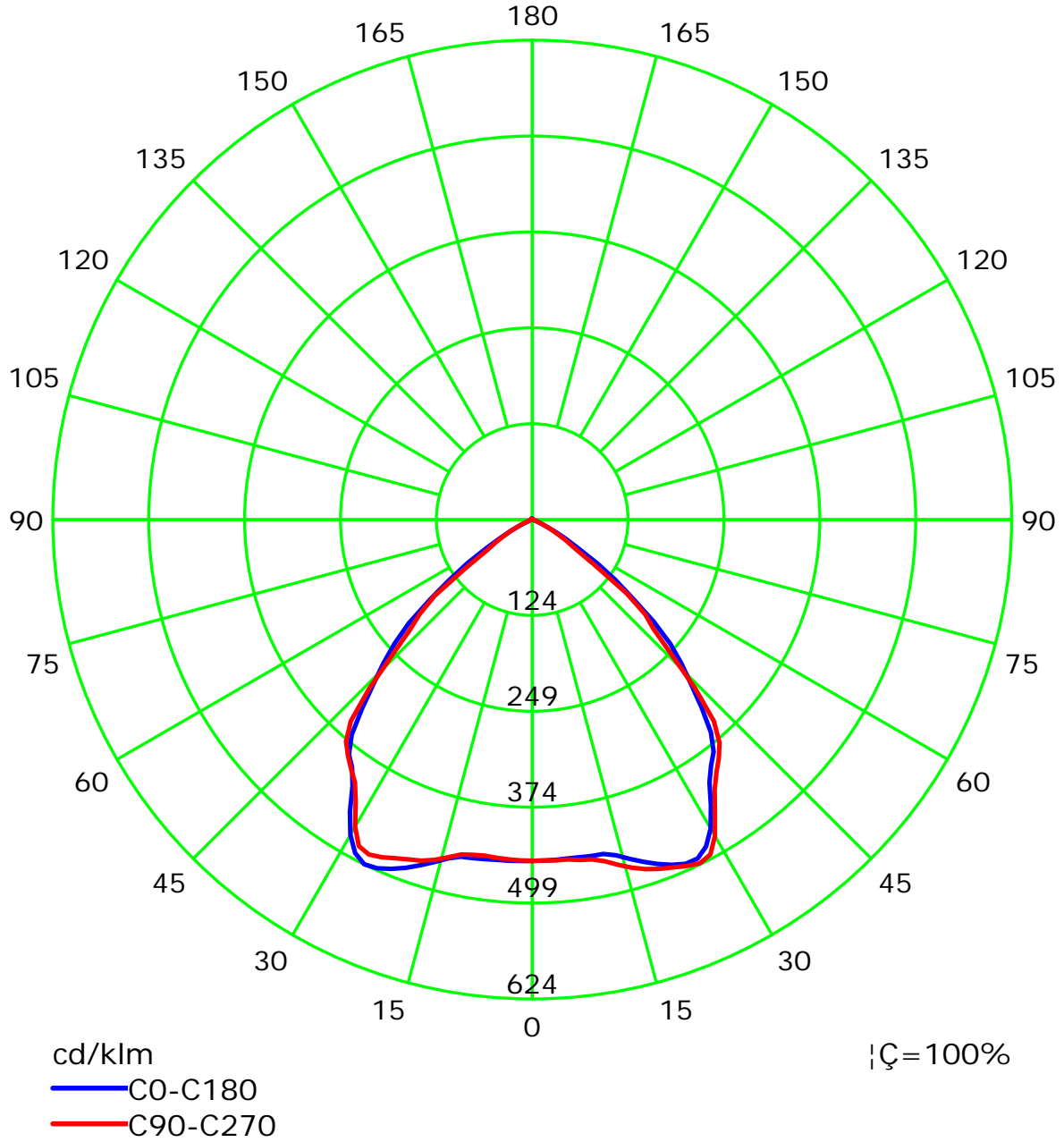
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature:  
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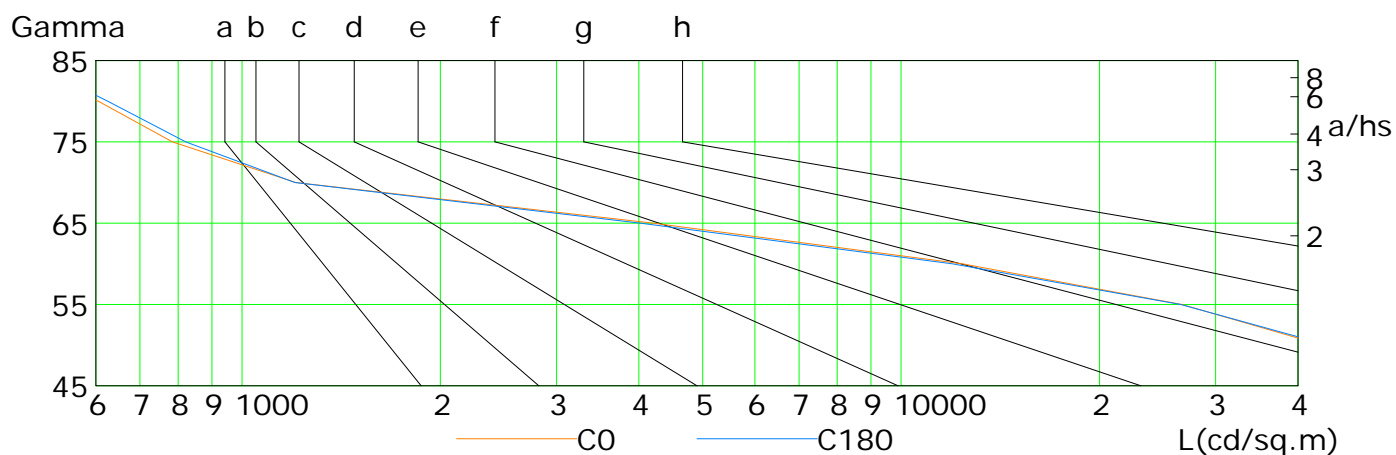
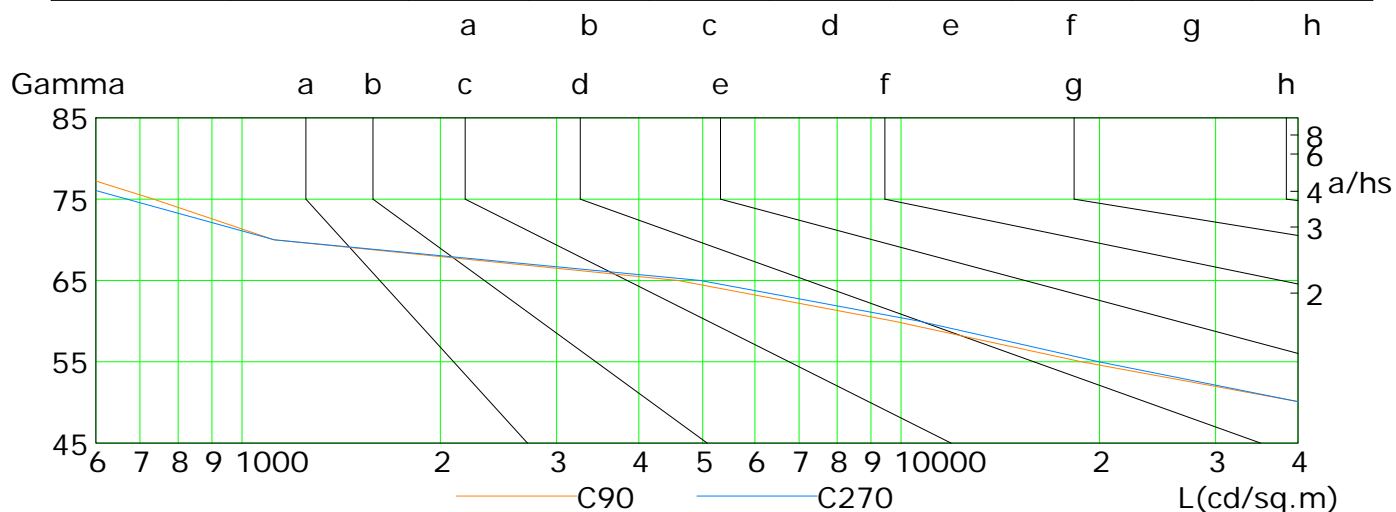
Gamma Plane (°):0.0-180.0:2.0  
Test Device: LSG-1800B  
Distance: 12.677 m  
Humidity:  
Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



## 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	57286	43653	26663	12382	4206	1207	784	605	437
C90	55956	40704	18770	9745	4585	1119	735	467	344
C180	57326	44517	26563	11964	4023	1203	821	625	471
C270	56343	40614	19948	10643	4959	1120	669	401	290

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

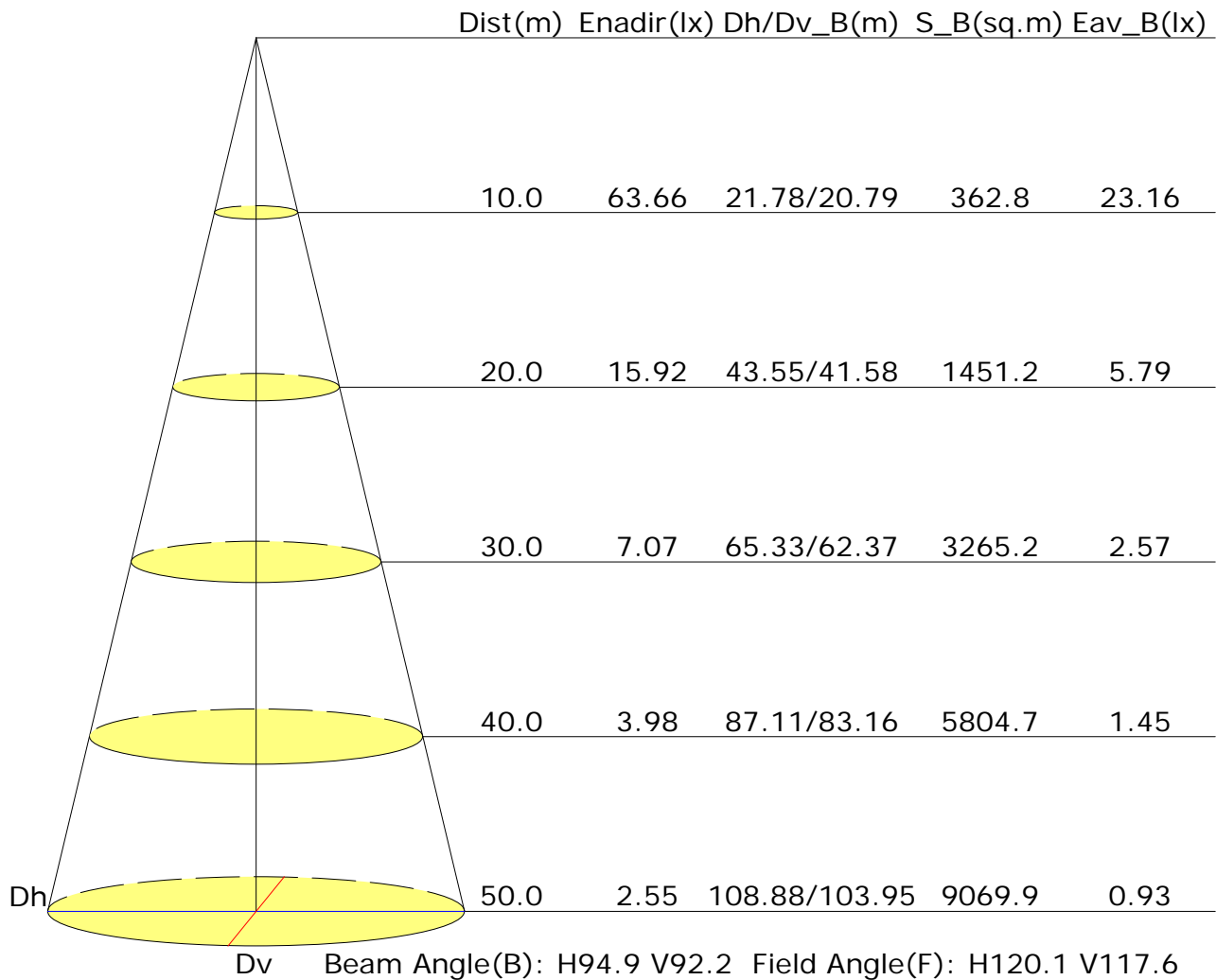
Test Device: LSG-1800B

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	23.5	24.7	23.8	24.9	25.1	23.5	24.7	23.8	24.9	25.1
3H	23.4	24.4	23.7	24.7	24.9	23.4	24.4	23.7	24.7	24.9
4H	23.3	24.3	23.7	24.5	24.8	23.3	24.3	23.6	24.5	24.8
6H	23.2	24.1	23.6	24.4	24.7	23.2	24.1	23.6	24.4	24.7
8H	23.2	24.0	23.6	24.3	24.7	23.2	24.0	23.6	24.3	24.7
12H	23.2	24.0	23.5	24.3	24.6	23.2	23.9	23.5	24.3	24.6
X=4H Y=2H	23.4	24.4	23.8	24.6	24.9	23.4	24.3	23.7	24.6	24.9
3H	23.3	24.1	23.7	24.4	24.8	23.3	24.1	23.7	24.4	24.7
4H	23.2	23.9	23.6	24.3	24.7	23.2	23.9	23.6	24.3	24.6
6H	23.1	23.8	23.6	24.1	24.5	23.1	23.7	23.6	24.1	24.5
8H	23.1	23.7	23.5	24.1	24.5	23.1	23.6	23.5	24.1	24.5
12H	23.1	23.6	23.5	24.0	24.4	23.0	23.5	23.5	24.0	24.4
X=8H Y=4H	23.1	23.7	23.5	24.1	24.5	23.1	23.6	23.5	24.1	24.5
6H	23.0	23.5	23.5	23.9	24.4	23.0	23.5	23.5	23.9	24.4
8H	23.0	23.4	23.5	23.8	24.3	23.0	23.4	23.5	23.8	24.3
12H	23.0	23.3	23.5	23.8	24.3	22.9	23.3	23.4	23.8	24.3
X=12H Y=4H	23.1	23.6	23.5	24.0	24.4	23.0	23.5	23.5	24.0	24.4
6H	23.0	23.4	23.5	23.8	24.3	23.0	23.4	23.5	23.8	24.3
8H	23.0	23.3	23.5	23.8	24.3	22.9	23.3	23.4	23.8	24.3
Variations with the observer position at spacings:										
S=1.0H	+1.3/-3.1					+1.3/-3.1				
S=1.5H	+2.9/-8.7					+3.2/-8.8				
S=2.0H	+4.8/-14.9					+5.1/-15.6				

Calculate in accordance with CIE Pub.117. The table is revised with 14307lm ( $8\log(F/F_0) = 9.2$ ).

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 = 1.25									
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	0.71	0.81	0.87	0.91	0.97	1.01	1.03	1.06	1.08	
	0.30		0.65	0.75	0.82	0.86	0.93	0.97	1.00	1.03	1.06	
	0.20		0.60	0.71	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
0.50	0.50	0.20	0.69	0.79	0.85	0.89	0.94	0.97	0.99	1.02	1.04	
	0.30		0.64	0.74	0.80	0.85	0.90	0.94	0.97	1.00	1.02	
	0.20		0.60	0.70	0.77	0.81	0.87	0.91	0.94	0.98	1.00	
0.30	0.50	0.20	0.68	0.77	0.83	0.86	0.91	0.94	0.96	0.98	1.00	
	0.30		0.63	0.73	0.79	0.83	0.88	0.92	0.94	0.97	0.98	
	0.20		0.59	0.69	0.76	0.80	0.86	0.89	0.92	0.95	0.97	
0.00	0.00	0.00	0.57	0.67	0.73	0.77	0.82	0.86	0.88	0.91	0.92	
<p>Rating: 98W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

## 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	0.78	0.61	0.50	0.43	0.34	0.27	0.23	0.18	0.14	
	0.30		0.65	0.52	0.44	0.38	0.30	0.25	0.22	0.17	0.14	
	0.20		0.56	0.46	0.39	0.34	0.28	0.23	0.20	0.16	0.13	
0.50	0.50	0.20	0.75	0.58	0.48	0.41	0.32	0.30	0.22	0.17	0.13	
	0.30		0.63	0.51	0.42	0.36	0.29	0.24	0.20	0.16	0.13	
	0.20		0.55	0.45	0.38	0.33	0.27	0.22	0.19	0.15	0.12	
0.30	0.50	0.20	0.72	0.55	0.45	0.39	0.30	0.24	0.20	0.15	0.12	
	0.30		0.61	0.49	0.41	0.35	0.27	0.23	0.19	0.15	0.12	
	0.20		0.54	0.44	0.37	0.32	0.25	0.21	0.18	0.14	0.12	
0.00	0.00	0.00	0.42	0.32	0.26	0.22	0.17	0.14	0.12	0.09	0.07	
<p>Rating: 98W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												



## 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	0.15	0.16	0.17	0.18	0.19	0.20	0.20	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		0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17	0.18	
0.50	0.50	0.20	0.15	0.16	0.17	0.17	0.18	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	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	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	
<p>Rating: 98W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												