

Report No.:

Test Time: 08.06.2020 23:36

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 100W 5000K 120гр. диод 3Т матовое стекло DALI

Luminous Length (mm): 277

Luminous Width (mm): 277

Luminous Height (mm): 123

Voltage: 222.3 V

Current: 0.447 A

Power: 98.50 W

Power Factor: 0.991

Photometric Results

CIE Class: Direct

Measurement Flux: 12490.9 lm

Total Rated Lamp Lumens: 12490.9 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.1, 153.6, 155.0, 155.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.4, 101.4, 101.2, 101.1

Luminaire Efficacy Rating (LER): 126.86

Central Intensity: 5004.31 cd

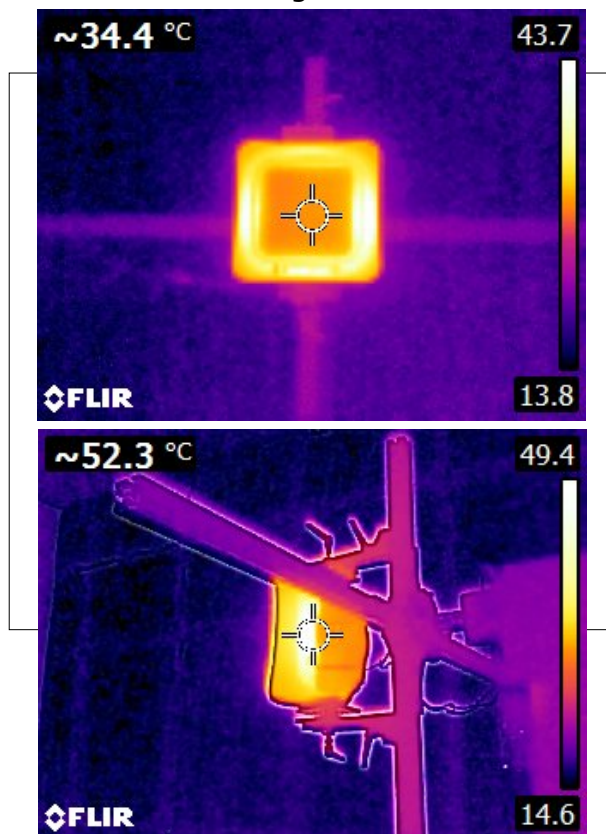
Max. Intensity: 5004.32 cd

Pos of Max. Intensity: H0 V0

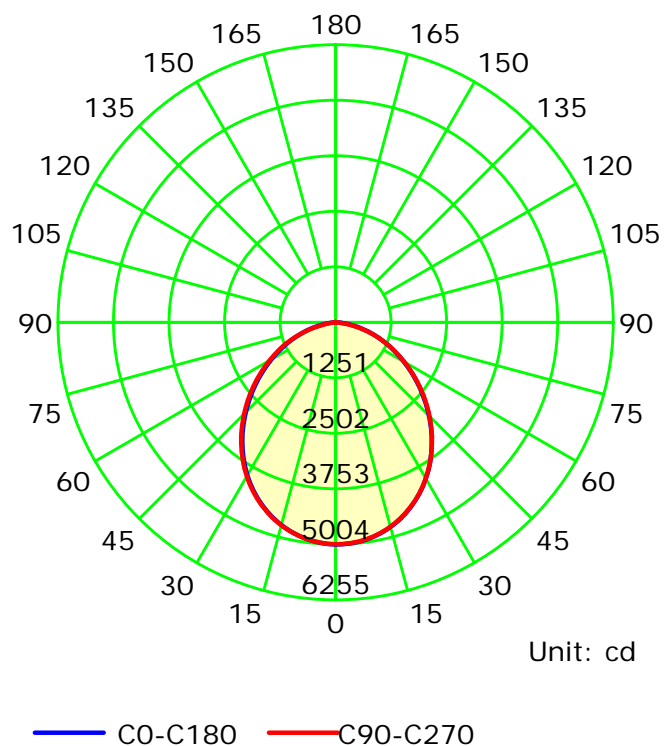
S/MH(C0/C180): 1.20

S/MH(C90/C270): 1.20

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

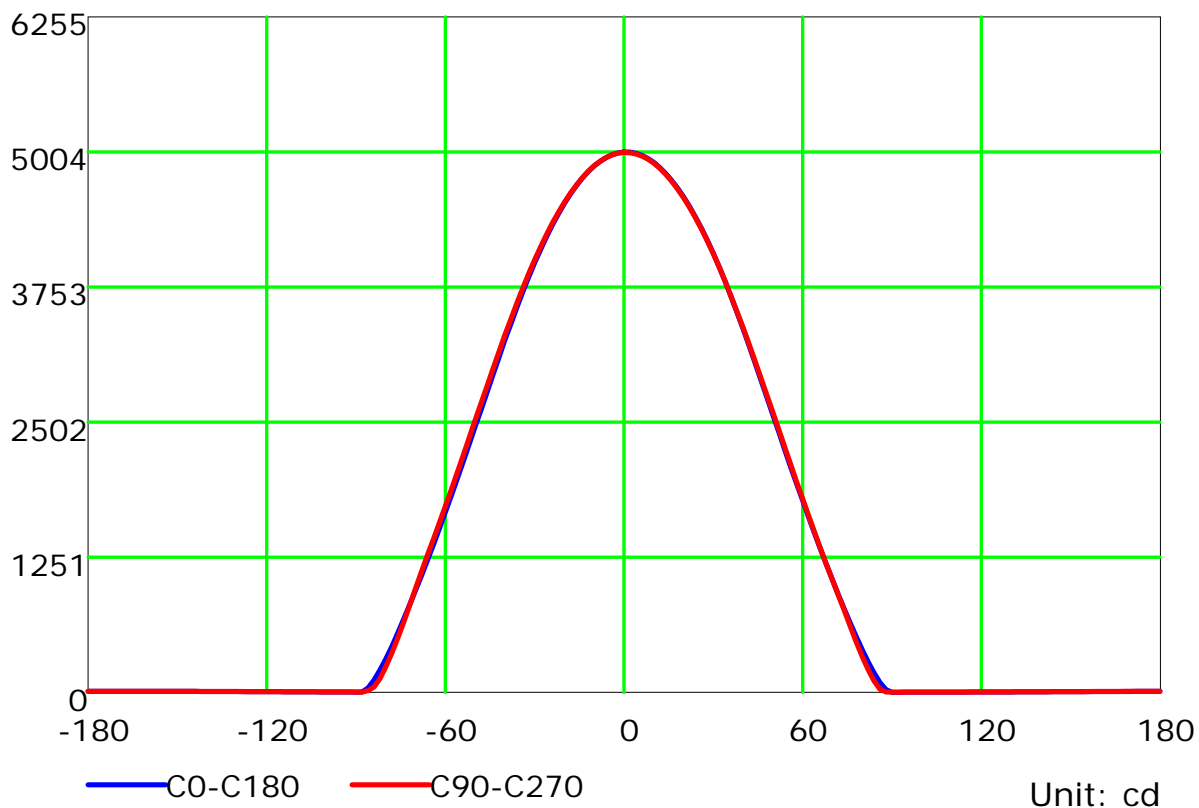
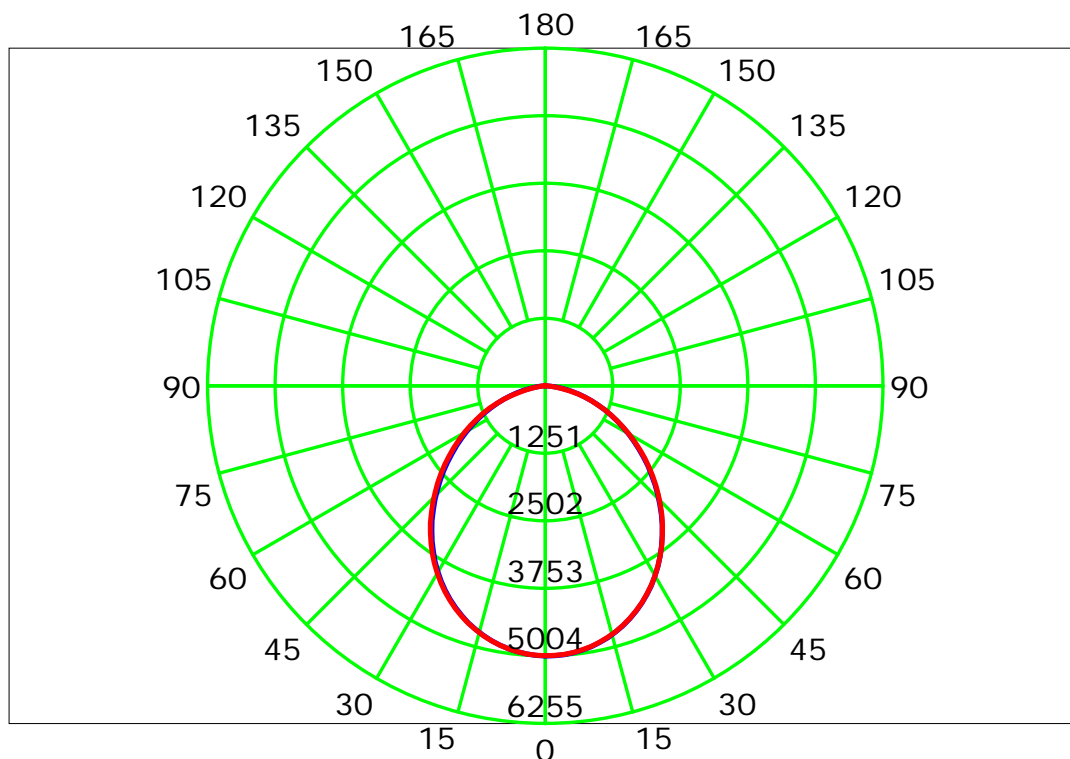
Test Device: LSG-1800B

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

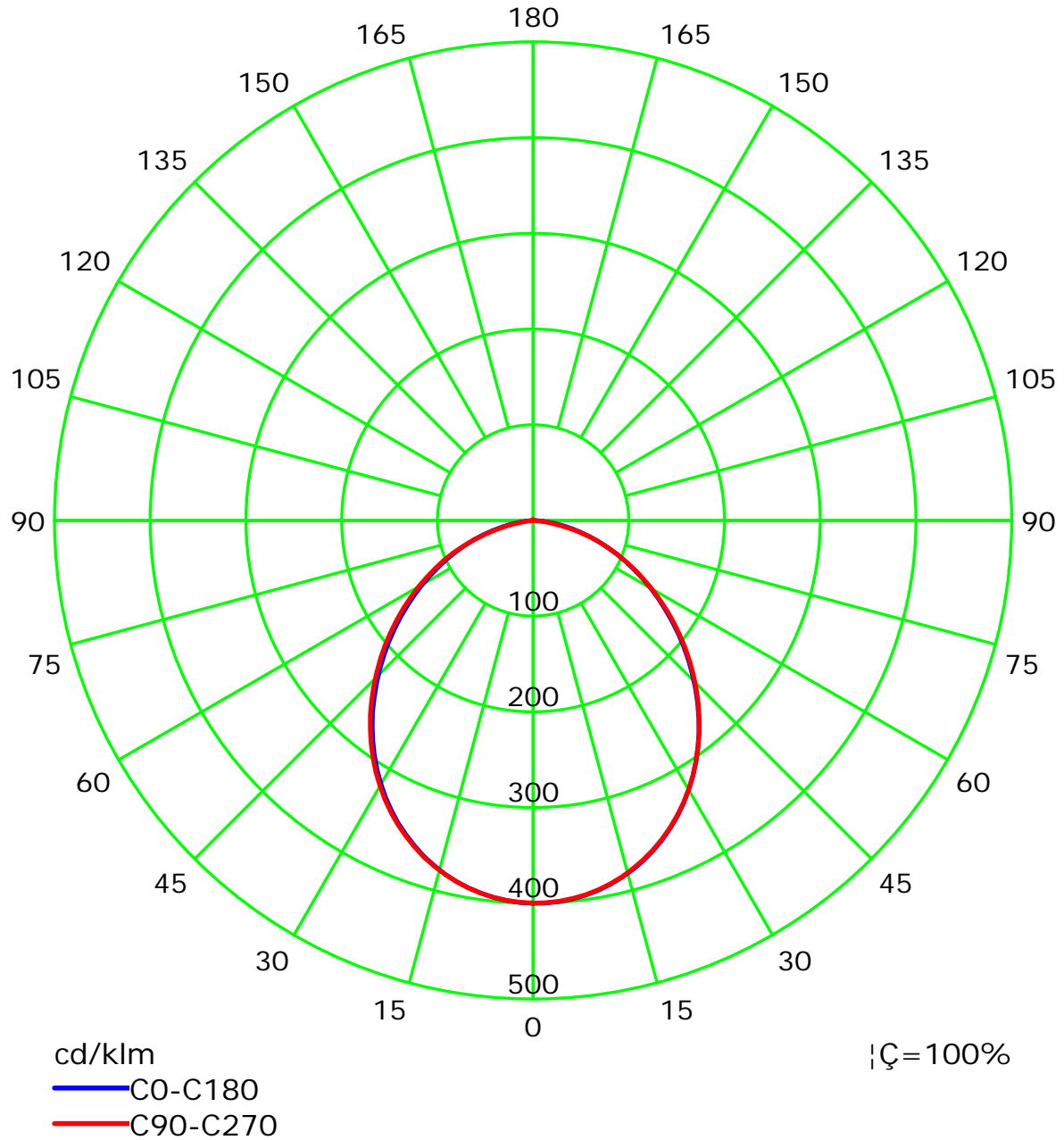
Test Device: LSG-1800B

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

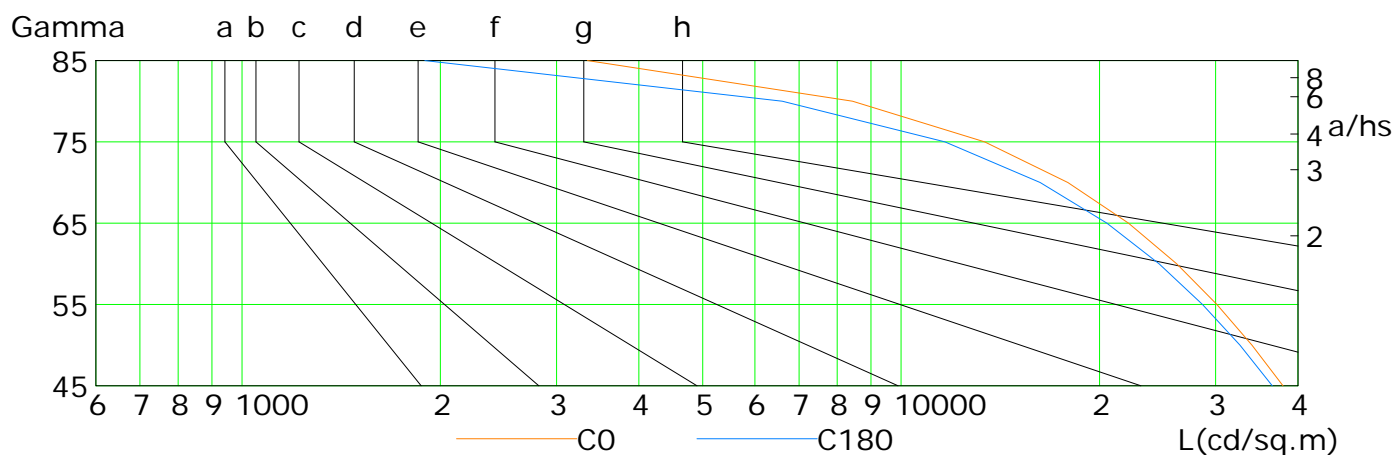
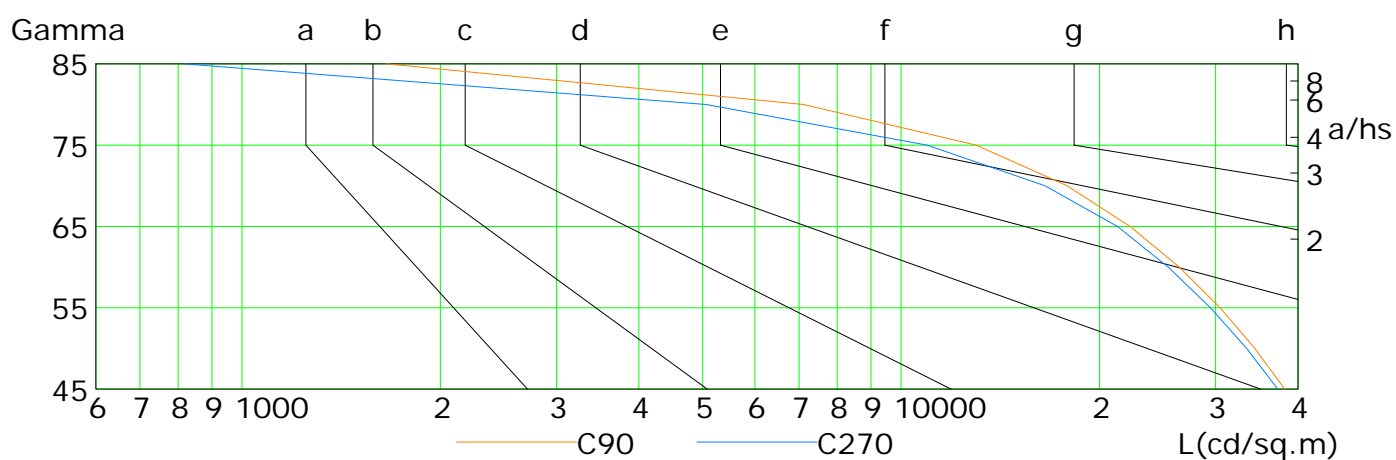
Humidity:

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	37961	34069	30139	26190	22135	17907	13388	8438	3344
C90	38187	34394	30475	26416	22256	17867	13003	7114	1657
C180	36558	32652	28656	24629	20525	16253	11652	6603	1894
C270	37259	33432	29460	25421	21290	16539	10954	5062	817

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

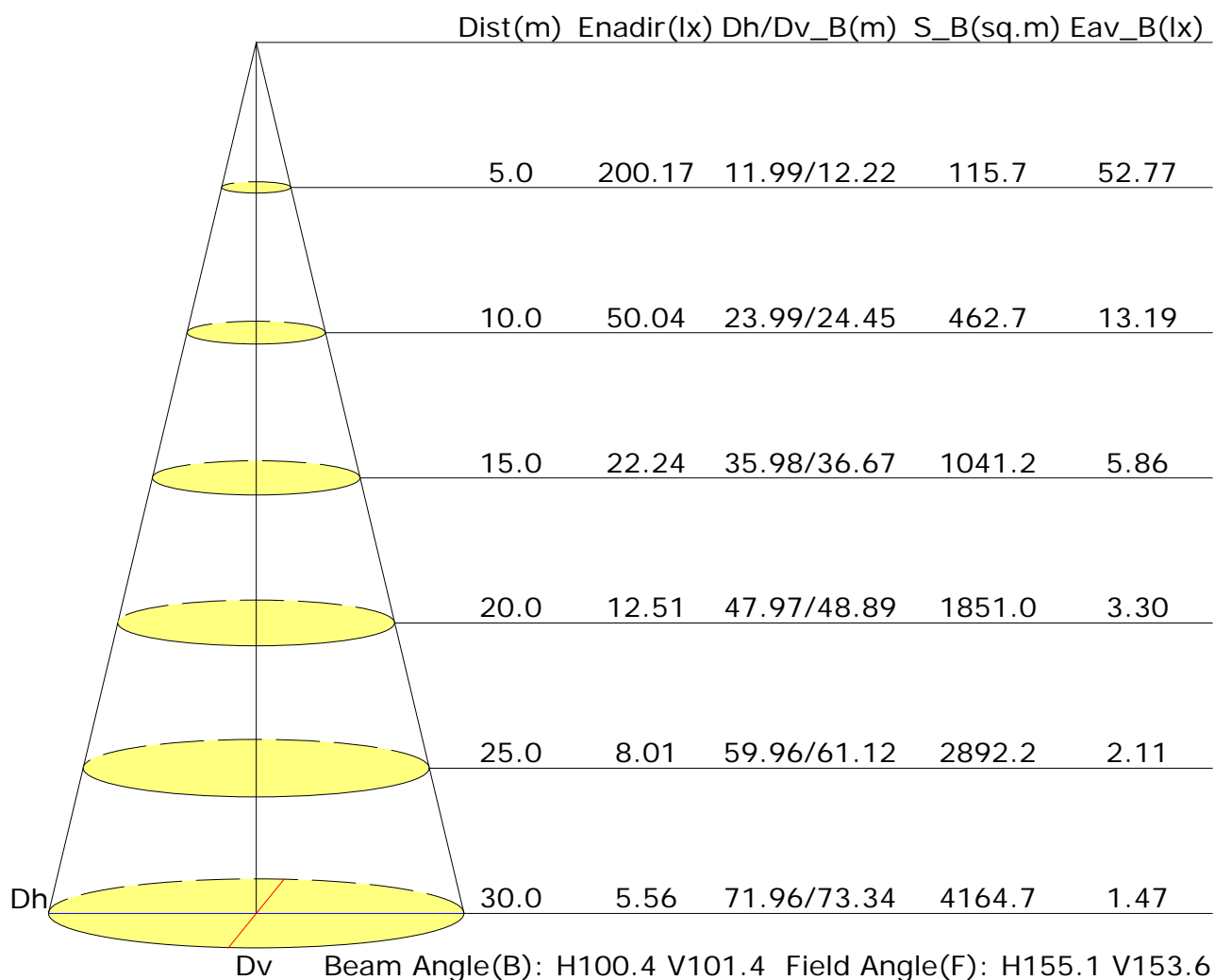
Test Device: LSG-1800B

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	24.1	25.4	24.4	25.6	25.9	24.0	25.4	24.3	25.6	25.9
3H	25.1	26.3	25.4	26.6	26.9	25.1	26.3	25.4	26.5	26.8
4H	25.4	26.6	25.8	26.9	27.2	25.4	26.5	25.7	26.8	27.1
6H	25.6	26.7	26.0	27.0	27.3	25.5	26.5	25.8	26.8	27.2
8H	25.7	26.7	26.0	27.0	27.3	25.5	26.5	25.8	26.8	27.1
12H	25.6	26.6	26.0	27.0	27.3	25.4	26.4	25.8	26.7	27.1
X=4H Y=2H	24.5	25.6	24.8	25.9	26.2	24.5	25.6	24.8	25.9	26.2
3H	25.7	26.7	26.1	27.0	27.3	25.6	26.6	26.0	27.0	27.3
4H	26.1	27.0	26.5	27.4	27.7	26.0	26.9	26.4	27.3	27.6
6H	26.4	27.2	26.8	27.5	28.0	26.2	27.0	26.6	27.4	27.8
8H	26.4	27.1	26.9	27.6	28.0	26.2	26.9	26.7	27.3	27.7
12H	26.4	27.1	26.9	27.5	28.0	26.2	26.8	26.6	27.2	27.7
X=8H Y=4H	26.2	27.0	26.7	27.4	27.8	26.2	26.9	26.6	27.3	27.7
6H	26.6	27.1	27.0	27.6	28.1	26.4	27.0	26.9	27.4	27.9
8H	26.7	27.2	27.1	27.6	28.1	26.4	26.9	26.9	27.4	27.9
12H	26.7	27.1	27.2	27.6	28.1	26.4	26.8	26.9	27.3	27.8
X=12H Y=4H	26.2	26.9	26.7	27.3	27.7	26.1	26.8	26.6	27.2	27.7
6H	26.6	27.1	27.1	27.5	28.0	26.4	26.9	26.9	27.3	27.8
8H	26.7	27.1	27.2	27.6	28.1	26.4	26.9	26.9	27.3	27.8
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.3				
S=1.5H	+0.4/-0.7					+0.4/-0.8				
S=2.0H	+0.9/-1.3					+0.9/-1.4				

Calculate in accordance with CIE Pub.117. The table is revised with 12491lm ($8\log(F/F_0) = 8.8$).

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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	0.60	0.70	0.77	0.82	0.89	0.94	0.97	1.02	1.04	
	0.30		0.52	0.63	0.70	0.76	0.83	0.89	0.93	0.98	1.01	
	0.20		0.47	0.57	0.65	0.70	0.79	0.85	0.89	0.95	0.98	
0.50	0.50	0.20	0.58	0.68	0.75	0.79	0.86	0.91	0.94	0.98	1.00	
	0.30		0.51	0.61	0.69	0.74	0.81	0.86	0.90	0.95	0.98	
	0.20		0.46	0.56	0.64	0.69	0.77	0.83	0.86	0.92	0.95	
0.30	0.50	0.20	0.57	0.66	0.72	0.77	0.83	0.87	0.90	0.94	0.96	
	0.30		0.50	0.60	0.67	0.72	0.79	0.84	0.87	0.91	0.94	
	0.20		0.46	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.44	0.53	0.60	0.65	0.72	0.77	0.80	0.85	0.87	
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	0.95	0.78	0.66	0.57	0.45	0.37	0.32	0.25	0.20	
	0.30		0.79	0.67	0.58	0.51	0.41	0.34	0.30	0.23	0.19	
	0.20		0.68	0.58	0.51	0.45	0.37	0.32	0.28	0.22	0.18	
0.50	0.50	0.20	0.92	0.75	0.63	0.55	0.43	0.39	0.30	0.23	0.19	
	0.30		0.78	0.65	0.56	0.49	0.40	0.33	0.28	0.22	0.18	
	0.20		0.67	0.57	0.50	0.44	0.36	0.31	0.27	0.21	0.17	
0.30	0.50	0.20	0.89	0.72	0.61	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.76	0.63	0.54	0.47	0.38	0.32	0.27	0.21	0.17	
	0.20		0.67	0.56	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.56	0.46	0.40	0.35	0.28	0.23	0.20	0.15	0.12	
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	0.19	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	0.19
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	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	0.09	0.11	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.15	0.16	0.17	0.18	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	0.09	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											