

Report No.:

Test Time: 08.06.2020 20:15

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 200W 5000K 60гр. диод 3Т матовое стекло

Luminous Length (mm): 364

Luminous Width (mm): 364

Luminous Height (mm): 138

Voltage: 220.6 V

Current: 0.902 A

Power: 197.91 W

Power Factor: 0.993

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 26633.9 lm

Measurement Flux: 26633.9 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 126.8, 128.0, 127.5, 127.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 67.7, 67.9, 68.1, 68.0

Luminaire Efficacy Rating (LER): 134.63

Central Intensity: 17895.14 cd

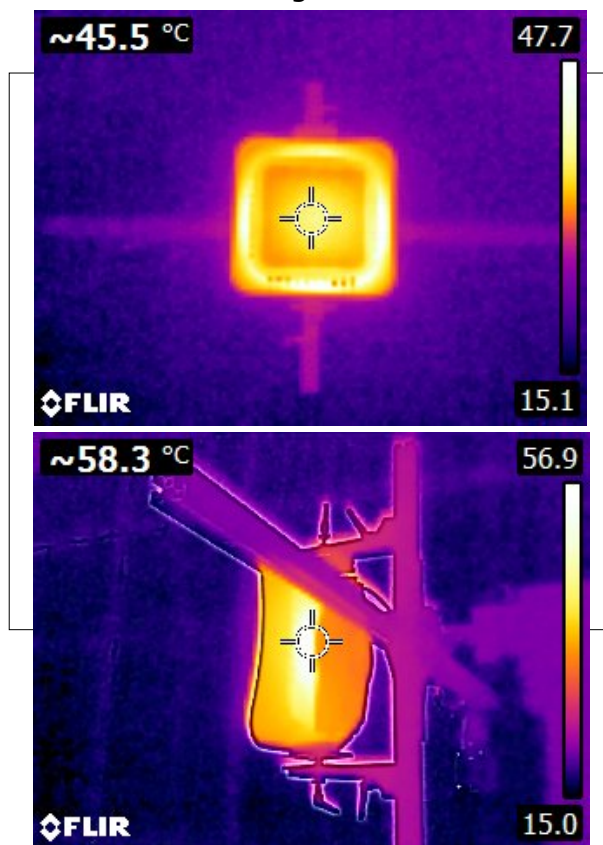
Max. Intensity: 17895.15 cd

Pos of Max. Intensity: H0 V0

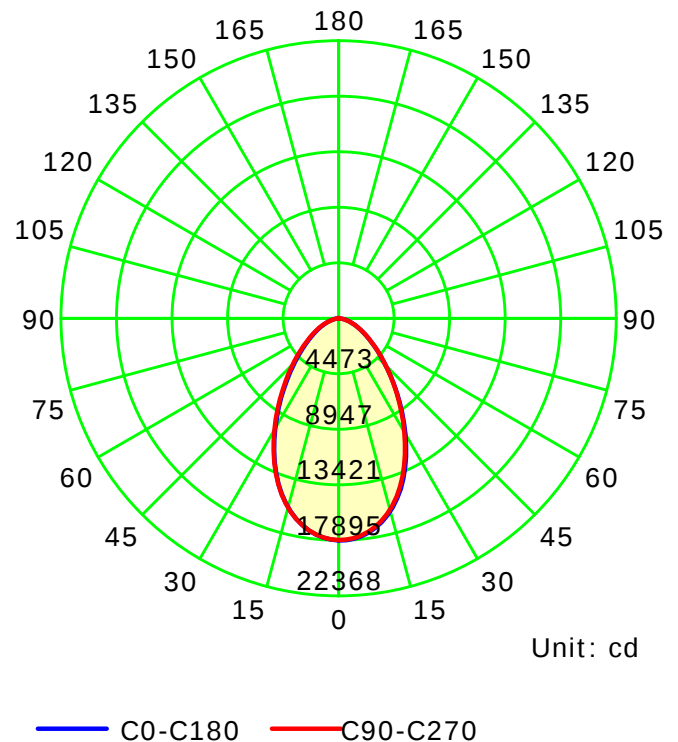
S/MH(C0/C180): 0.96

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

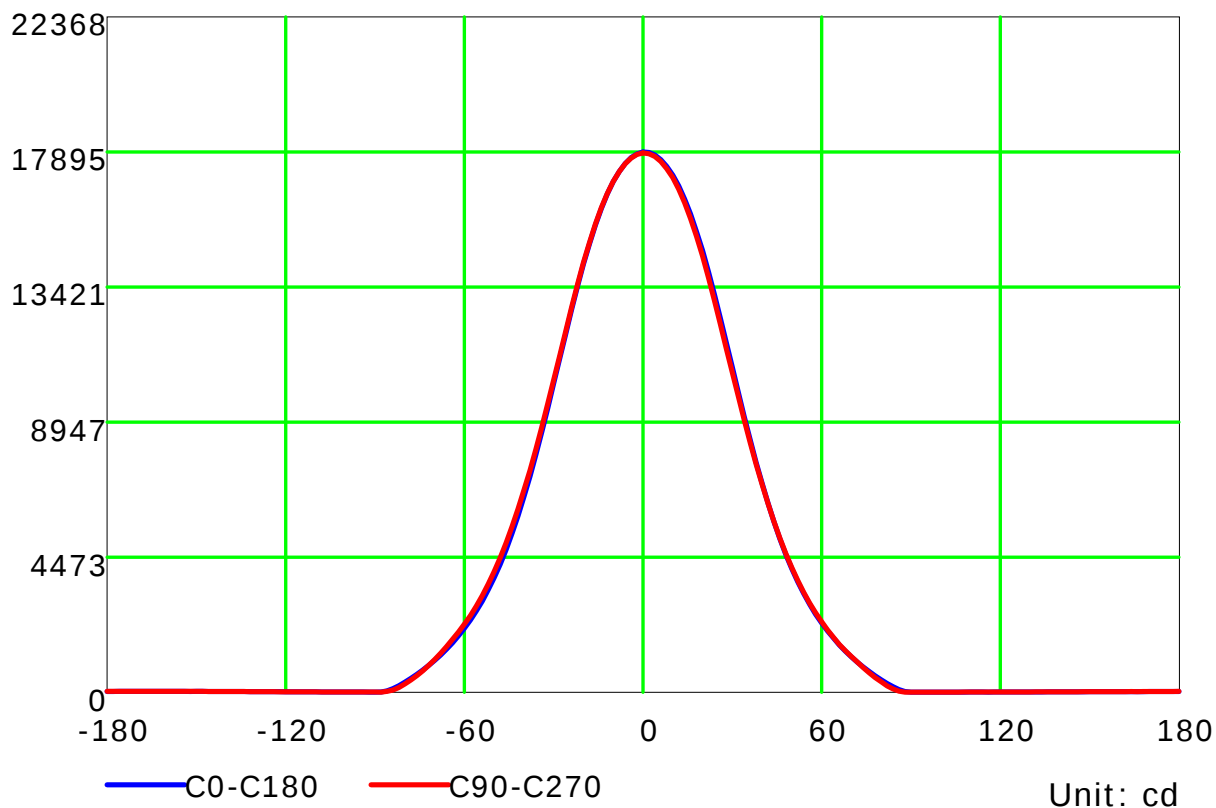
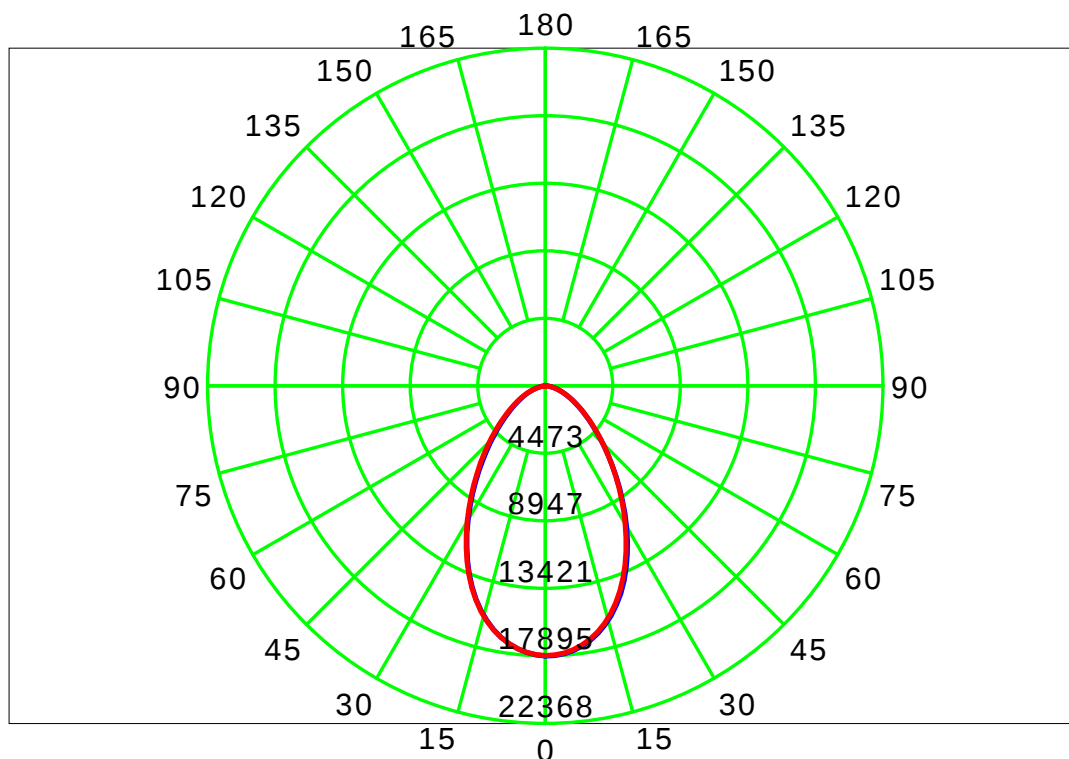
Test Device: LSG-1800B

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

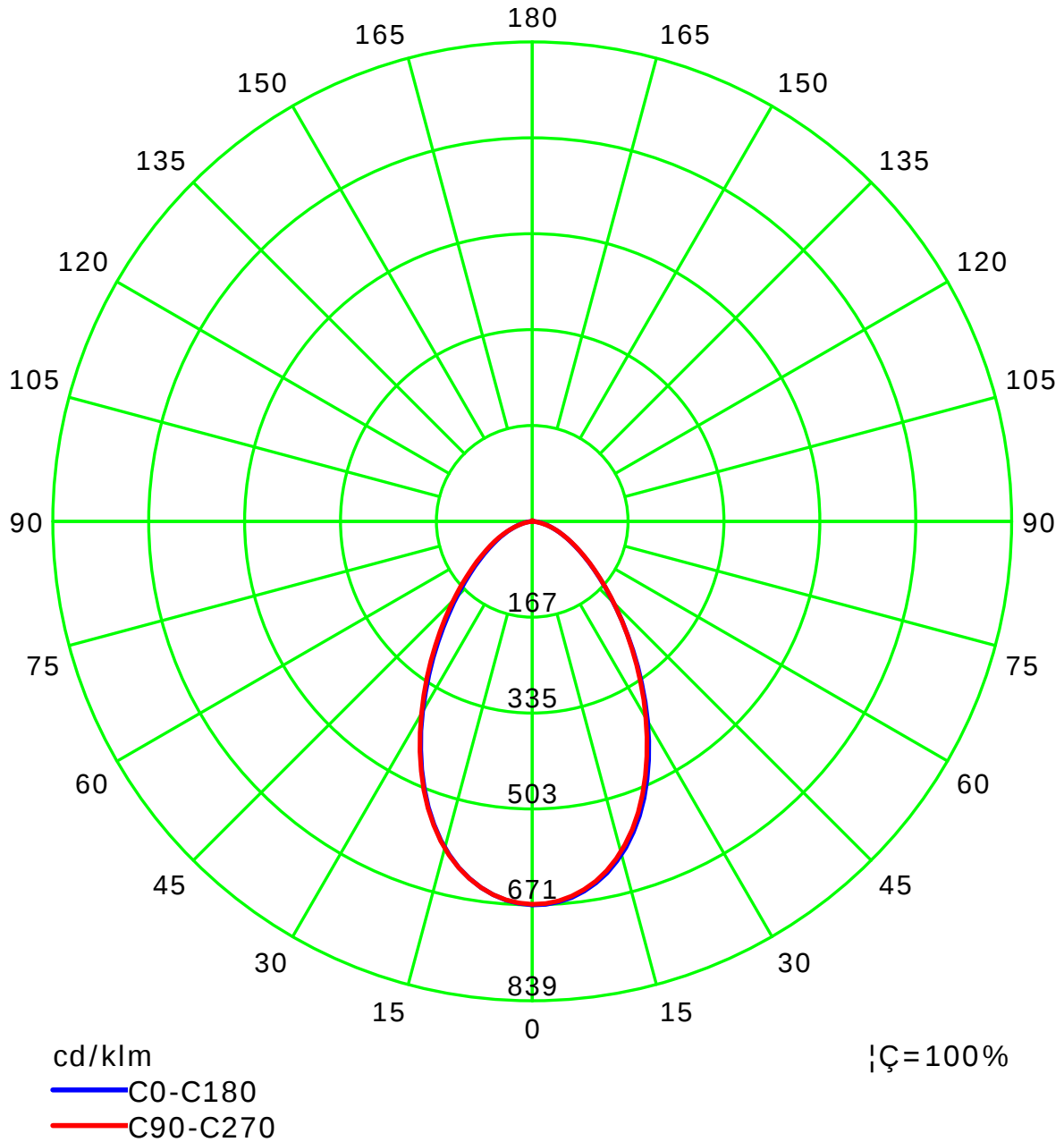
Test Device: LSG-1800B

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

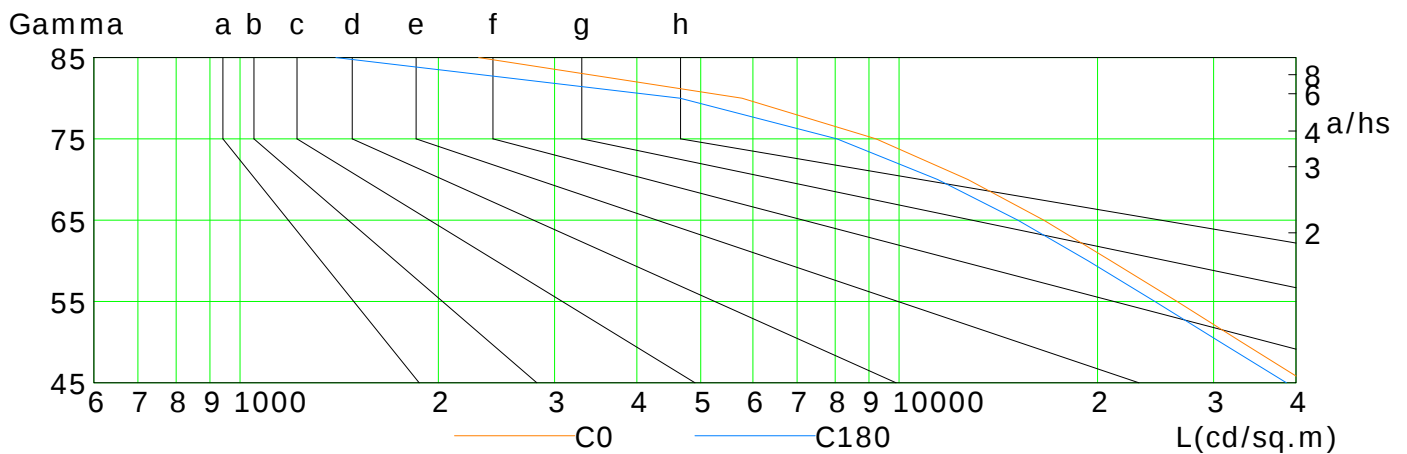
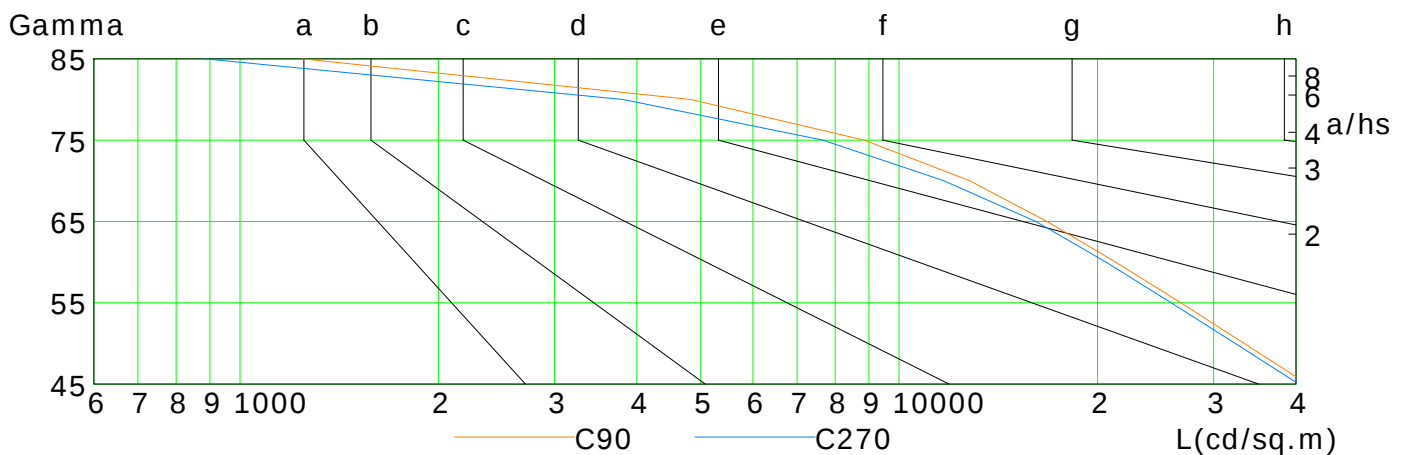
Humidity:

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	41562	33085	26411	20950	16577	12713	9223	5775	2302
C90	41658	33381	26751	21310	16760	12802	8852	4832	1244
C180	38701	30715	24436	19354	15142	11438	8048	4653	1398
C270	40417	32356	25873	20601	16118	11699	7664	3815	885

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

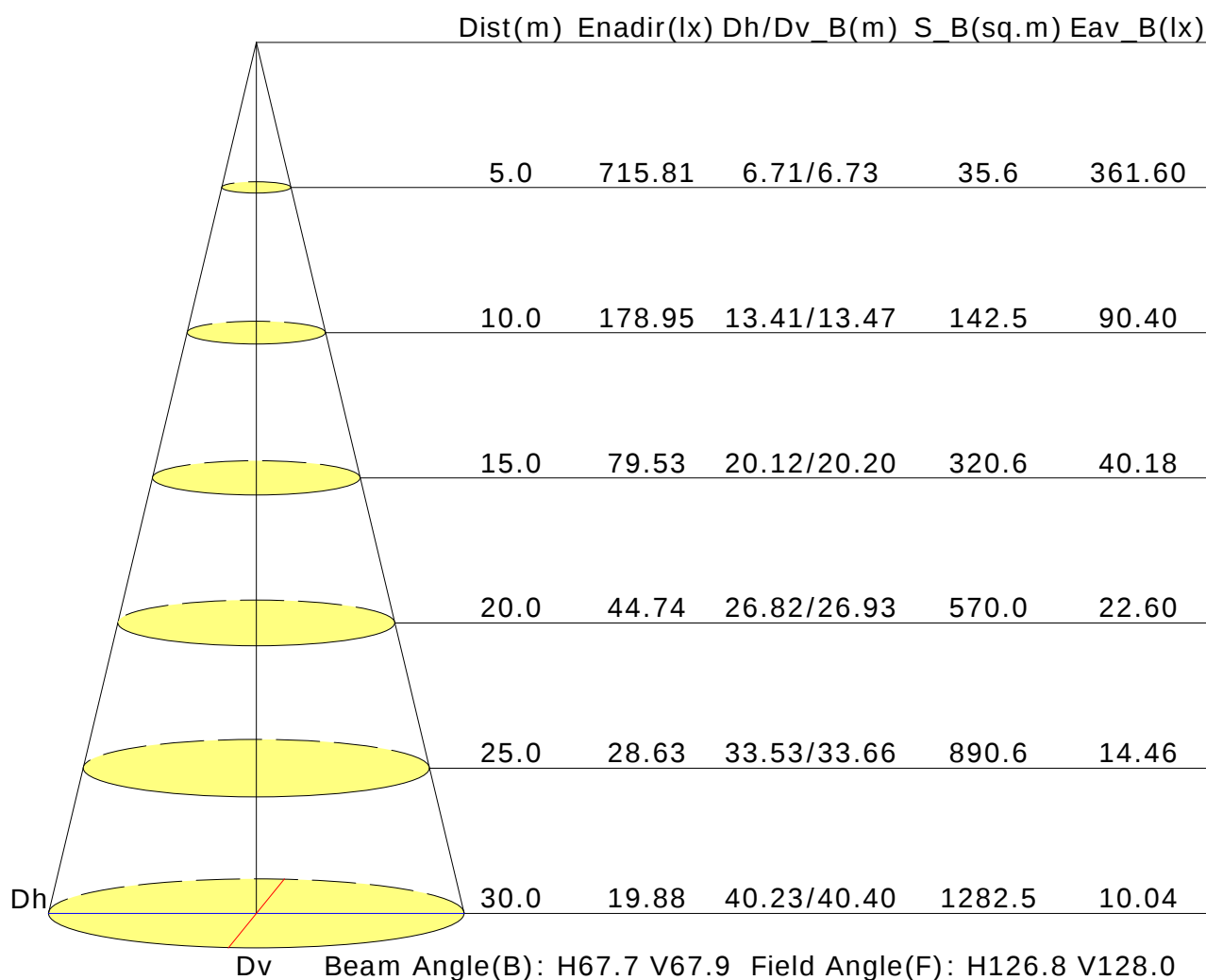
Test Device: LSG-1800B

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	22.9	24.1	23.2	24.3	24.5	22.9	24.0	23.2	24.3	24.5
3H	23.5	24.5	23.8	24.8	25.1	23.4	24.5	23.8	24.7	25.0
4H	23.7	24.6	24.0	24.9	25.2	23.6	24.6	23.9	24.8	25.1
6H	23.7	24.6	24.1	24.9	25.3	23.6	24.5	24.0	24.8	25.1
8H	23.7	24.6	24.1	24.9	25.3	23.6	24.5	24.0	24.8	25.1
12H	23.7	24.5	24.1	24.9	25.2	23.6	24.4	23.9	24.7	25.1
X=4H Y=2H	23.1	24.1	23.5	24.4	24.7	23.1	24.1	23.5	24.4	24.7
3H	23.9	24.7	24.2	25.0	25.4	23.8	24.6	24.2	25.0	25.3
4H	24.1	24.8	24.5	25.2	25.6	24.0	24.8	24.4	25.1	25.5
6H	24.2	24.9	24.7	25.3	25.7	24.1	24.8	24.5	25.1	25.5
8H	24.3	24.9	24.7	25.3	25.7	24.1	24.7	24.5	25.1	25.5
12H	24.2	24.8	24.7	25.2	25.6	24.1	24.6	24.5	25.0	25.5
X=8H Y=4H	24.1	24.7	24.6	25.1	25.6	24.1	24.7	24.5	25.1	25.5
6H	24.3	24.8	24.8	25.2	25.7	24.2	24.7	24.6	25.1	25.6
8H	24.4	24.8	24.8	25.2	25.7	24.2	24.6	24.7	25.1	25.6
12H	24.4	24.7	24.9	25.2	25.7	24.2	24.5	24.7	25.0	25.5
X=12H Y=4H	24.1	24.6	24.6	25.1	25.5	24.0	24.6	24.5	25.0	25.4
6H	24.3	24.7	24.8	25.2	25.7	24.2	24.6	24.6	25.0	25.5
8H	24.3	24.7	24.8	25.2	25.7	24.2	24.5	24.7	25.0	25.5
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.7					+0.5/-0.8				
S=1.5H	+1.1/-1.5					+1.1/-1.6				
S=2.0H	+2.1/-2.4					+2.1/-2.4				

Calculate in accordance with CIE Pub.117. The table is revised with 26634lm ($8\log(F/F_0) = 11.4$).

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	0.78	0.84	0.88	0.94	0.98	1.01	1.05	1.07	
	0.30		0.62	0.71	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
	0.20		0.57	0.67	0.73	0.78	0.85	0.90	0.94	0.99	1.02	
0.50	0.50	0.20	0.67	0.76	0.81	0.86	0.91	0.95	0.97	1.01	1.03	
	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	0.84	0.88	0.91	0.96	0.98	
0.30	0.50	0.20	0.65	0.74	0.79	0.83	0.88	0.92	0.94	0.97	0.99	
	0.30		0.60	0.69	0.75	0.79	0.85	0.89	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	0.79	0.82	0.85	0.89	0.91	
Rating:198W 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	0.48	0.38	0.31	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	0.38	0.31	0.27	0.23	0.18	0.15	
0.50	0.50	0.20	0.79	0.64	0.53	0.46	0.36	0.33	0.25	0.19	0.16	
	0.30		0.67	0.55	0.47	0.41	0.33	0.27	0.24	0.18	0.15	
	0.20		0.58	0.49	0.42	0.37	0.30	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	0.16	0.14	
0.00	0.00	0.00	0.46	0.37	0.31	0.27	0.21	0.17	0.15	0.11	0.09	
Rating:198W 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	0.15	0.17	0.18	0.18	0.19	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		0.06	0.07	0.09	0.10	0.12	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	0.20	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	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.19	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		0.05	0.07	0.09	0.10	0.12	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:198W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												