

Report No.:

Test Time: 26.05.2020 21:38

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 2x96LED 0,7A 72W 4000K матовый (opal)

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 222.1 V

Current: 0.336 A

Power: 72.90 W

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 6386.7 lm

Measurement Flux: 6386.7 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 165.7, 163.4, 164.4, 164.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.9, 112.3, 113.0, 113.1

Luminaire Efficacy Rating (LER): 87.66

Central Intensity: 2192.77 cd

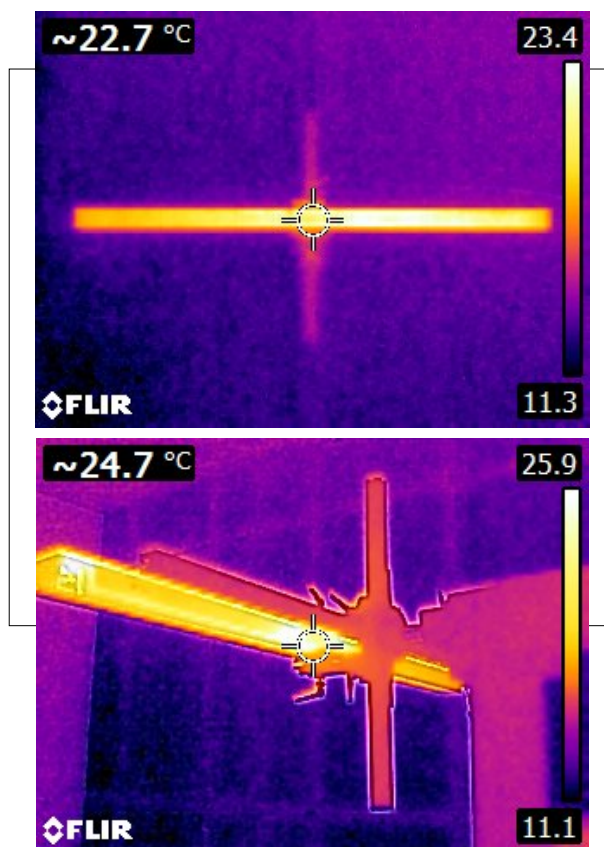
Max. Intensity: 2192.78 cd

Pos of Max. Intensity: H0 V0

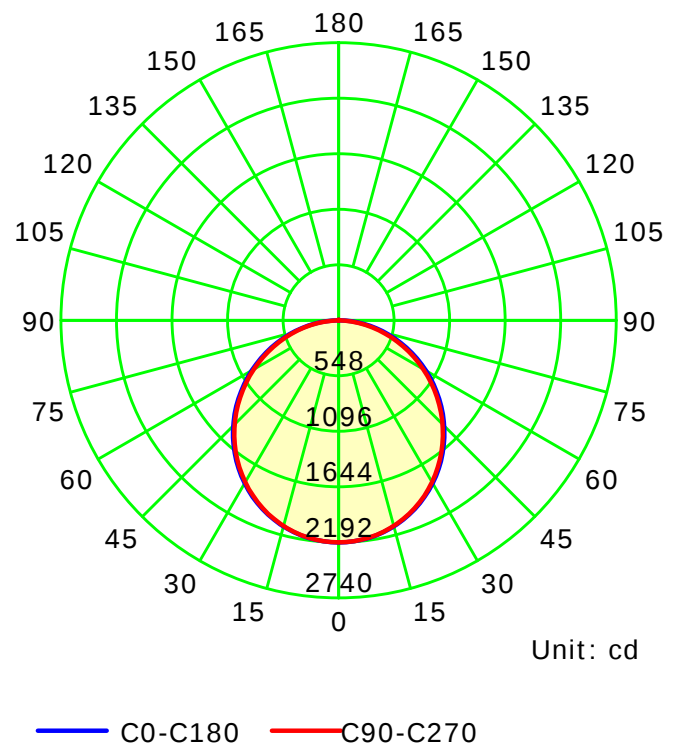
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.25

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

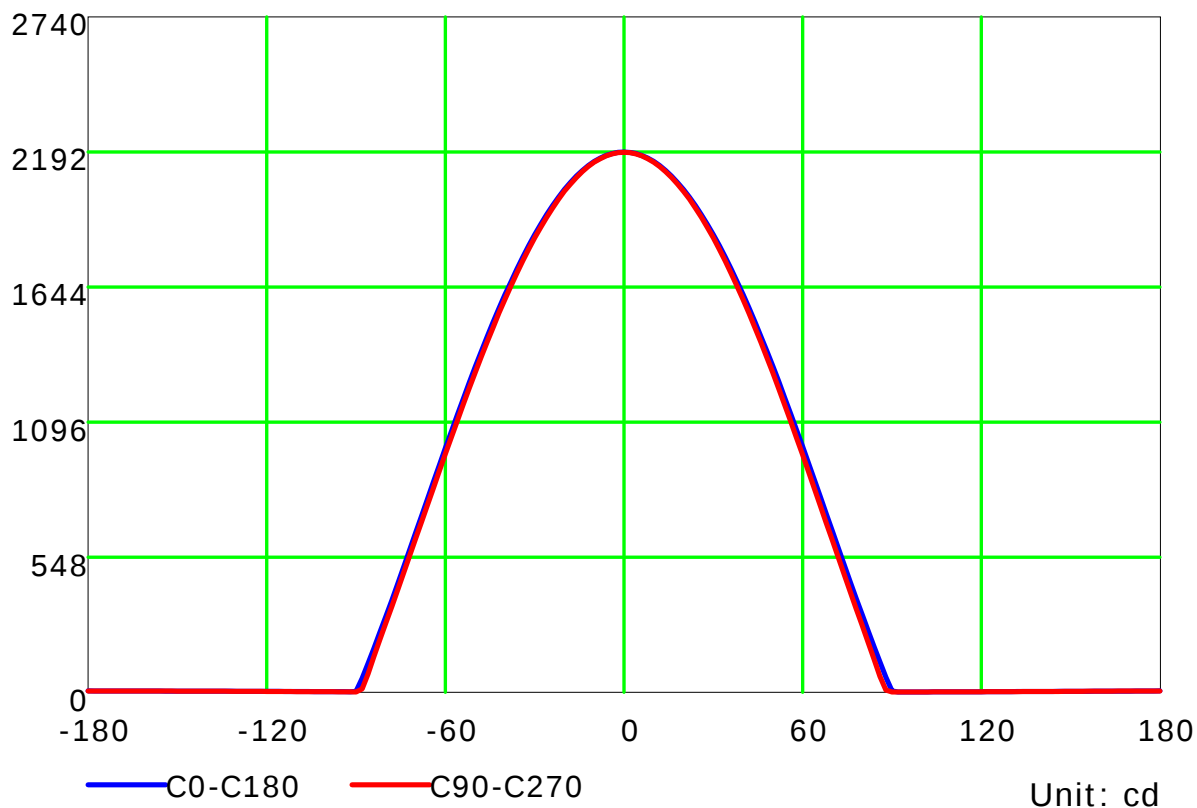
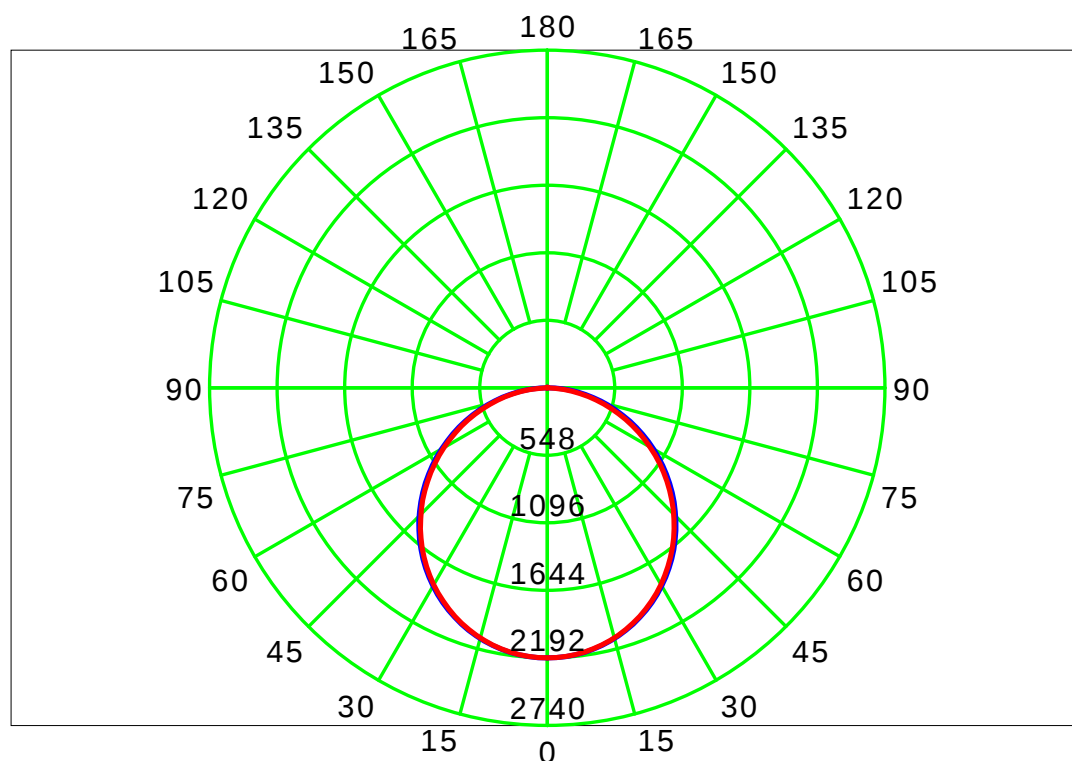
Temperature:

Humidity:

Operator:

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

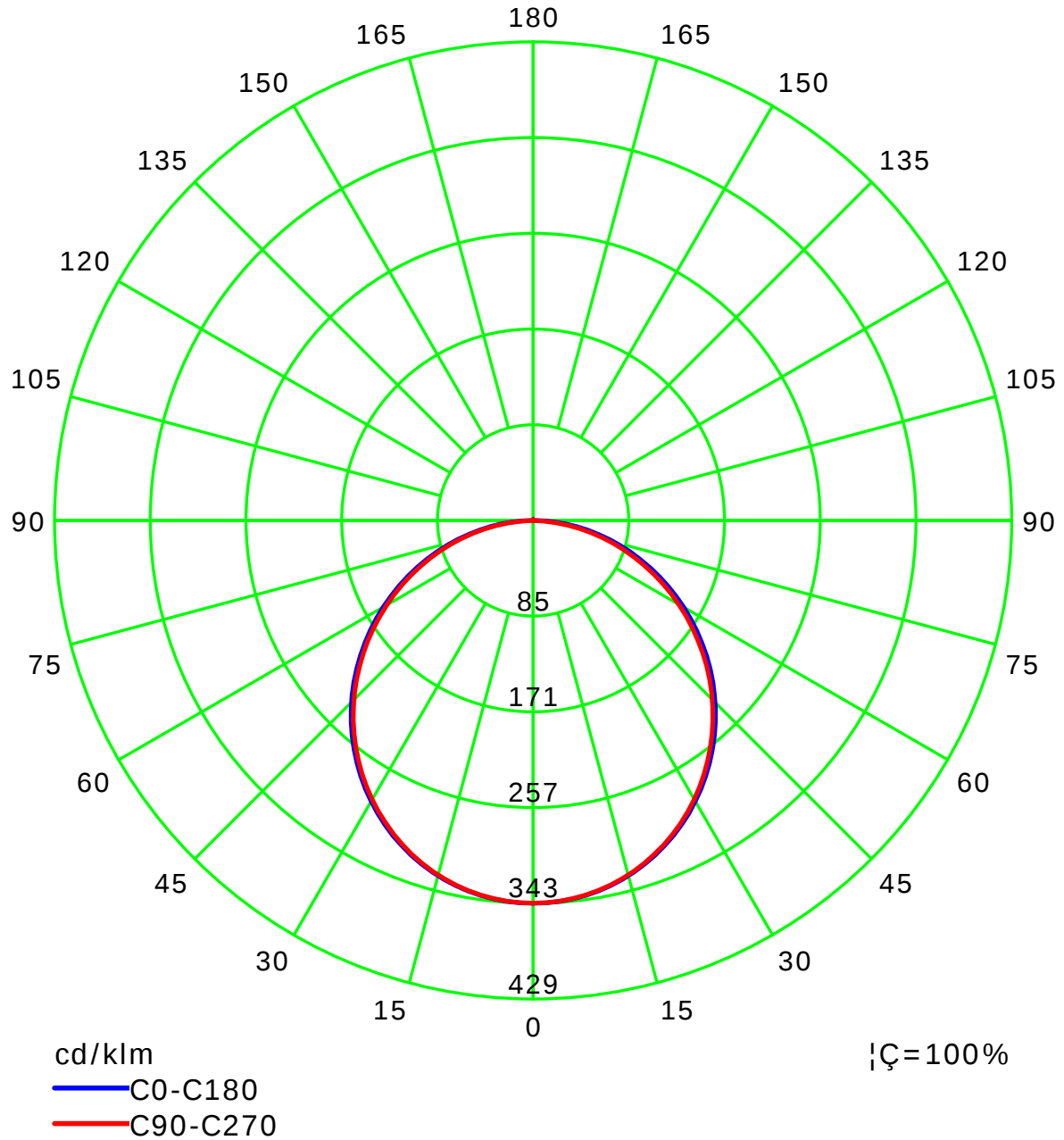
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

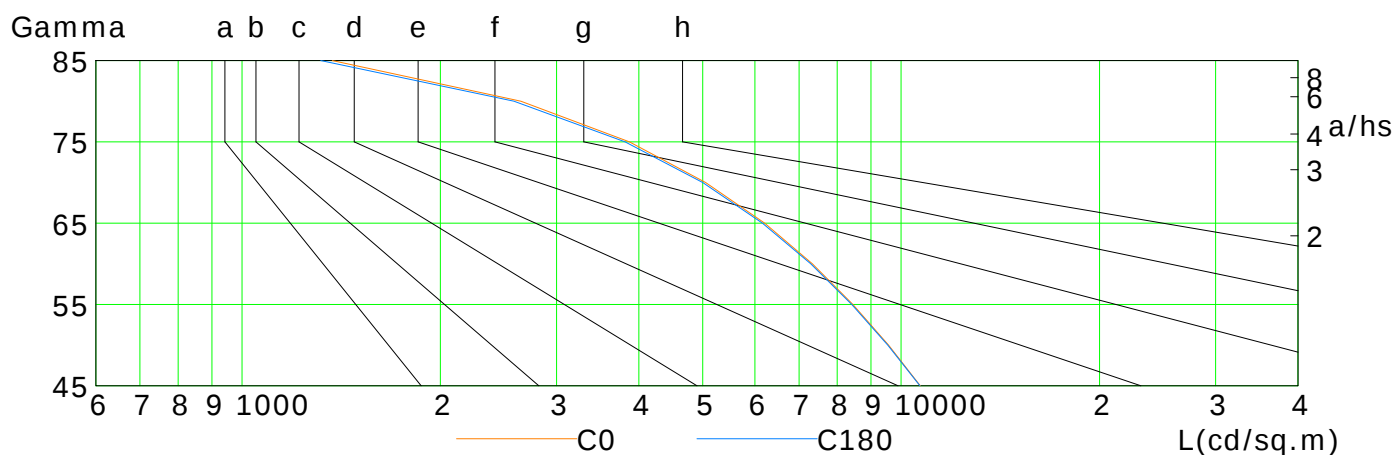
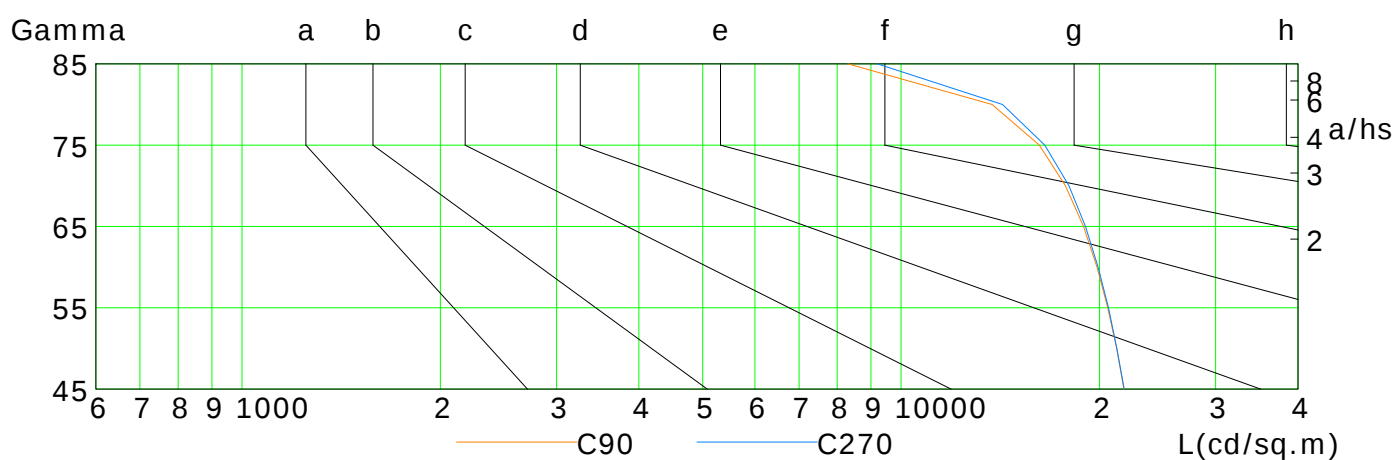
Luminous Intensity Distribution Curve(cd / klm)



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	10689	9571	8448	7335	6207	5050	3870	2649	1371
C90	21780	21233	20579	19825	18911	17751	16208	13743	8301
C180	10677	9546	8417	7293	6158	5000	3813	2586	1317
C270	21793	21245	20633	19903	19036	17973	16522	14250	9201

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

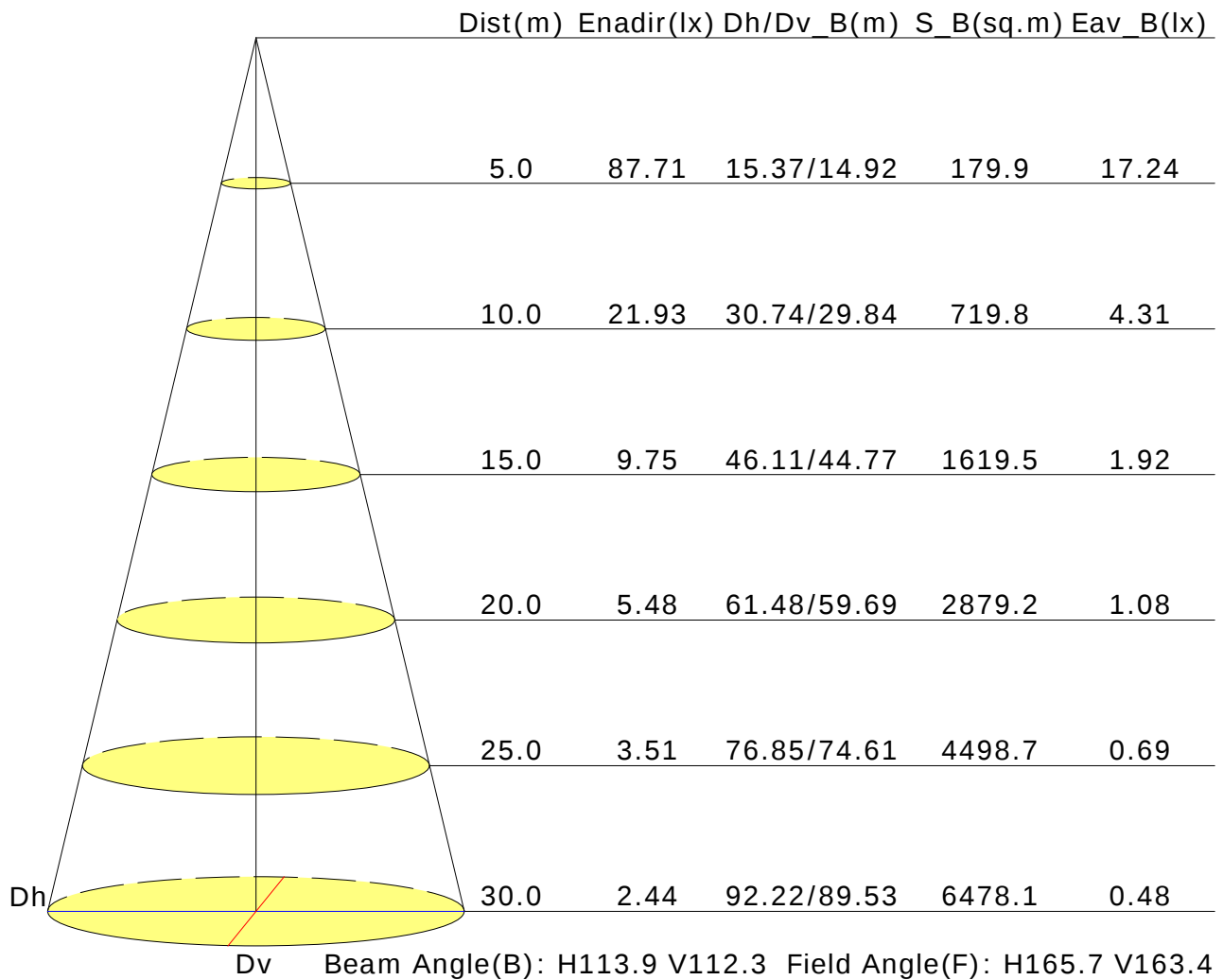
Test Device: LSG-1800B

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	20.2	21.6	20.5	21.8	22.1	21.8	23.2	22.1	23.5	23.7
3H	21.3	22.6	21.7	22.9	23.2	23.4	24.7	23.7	24.9	25.2
4H	21.8	23.0	22.1	23.3	23.6	24.0	25.2	24.4	25.5	25.8
6H	22.0	23.2	22.4	23.5	23.8	24.5	25.6	24.9	25.9	26.3
8H	22.1	23.2	22.5	23.5	23.8	24.6	25.7	25.0	26.1	26.4
12H	22.1	23.2	22.5	23.5	23.8	24.7	25.8	25.1	26.1	26.4
X=4H Y=2H	20.8	22.0	21.2	22.3	22.6	22.2	23.4	22.5	23.7	24.0
3H	22.2	23.2	22.5	23.5	23.9	23.9	24.9	24.2	25.2	25.6
4H	22.7	23.6	23.1	24.0	24.4	24.6	25.5	25.0	25.9	26.3
6H	23.0	23.9	23.5	24.3	24.7	25.2	26.0	25.6	26.4	26.8
8H	23.1	23.9	23.6	24.3	24.7	25.3	26.1	25.8	26.5	26.9
12H	23.2	23.9	23.6	24.3	24.8	25.4	26.1	25.9	26.6	27.0
X=8H Y=4H	22.9	23.7	23.4	24.1	24.5	24.7	25.5	25.1	25.9	26.3
6H	23.4	24.0	23.9	24.5	24.9	25.3	26.0	25.8	26.4	26.9
8H	23.6	24.1	24.0	24.6	25.1	25.6	26.1	26.1	26.6	27.1
12H	23.6	24.1	24.1	24.6	25.1	25.7	26.2	26.2	26.7	27.2
X=12H Y=4H	23.0	23.6	23.4	24.1	24.5	24.7	25.4	25.1	25.8	26.3
6H	23.4	24.0	23.9	24.5	24.9	25.4	25.9	25.8	26.4	26.8
8H	23.6	24.1	24.1	24.6	25.1	25.6	26.1	26.1	26.5	27.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.1/-0.2				
S=1.5H	+0.4/-0.7					+0.5/-0.5				
S=2.0H	+0.6/-1.2					+1.0/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 6387lm ($8\log(F/F_0) = 6.4$).

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	0.56	0.66	0.73	0.79	0.86	0.91	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.75	0.81	0.85	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.98	
	0.30		0.47	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.95	
	0.20		0.42	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.93	
0.30	0.50	0.20	0.53	0.62	0.69	0.73	0.80	0.85	0.88	0.92	0.95	
	0.30		0.46	0.56	0.63	0.68	0.75	0.81	0.84	0.89	0.92	
	0.20		0.41	0.51	0.58	0.64	0.72	0.77	0.81	0.86	0.90	
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85	
Rating:73W 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	1.01	0.84	0.72	0.63	0.50	0.42	0.36	0.28	0.23	
	0.30		0.85	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.63	0.55	0.50	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.98	0.81	0.69	0.60	0.48	0.43	0.34	0.26	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.72	0.62	0.54	0.49	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.78	0.66	0.58	0.46	0.38	0.33	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
Rating:73W 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	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	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	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.16	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.17	0.18	
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	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:73W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												