

Report No.:

Test Time: 19.06.2020 23:02

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60/1000 52W 4000K микропризма

Number of Lamps: 1

Luminous Length (mm): 950

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.1 V

Current: 0.247 A

Power: 52.64 W

Power Factor: 0.961

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 5798.2 lm

Measurement Flux: 5798.2 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.4, 157.1, 147.4, 147.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 76.9, 74.3, 73.0, 73.4

Luminaire Efficacy Rating (LER): 110.20

Central Intensity: 3123.76 cd

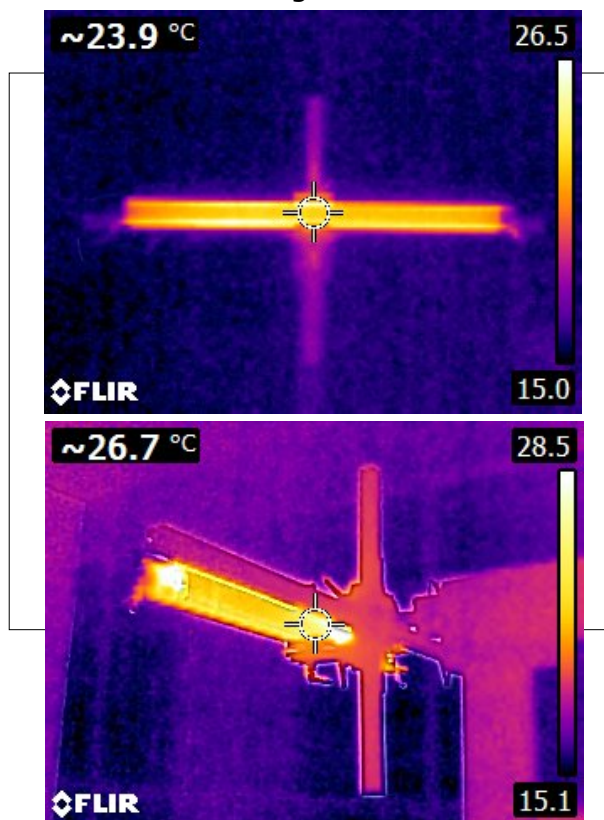
Max. Intensity: 3132.78 cd

Pos of Max. Intensity: H90 V0

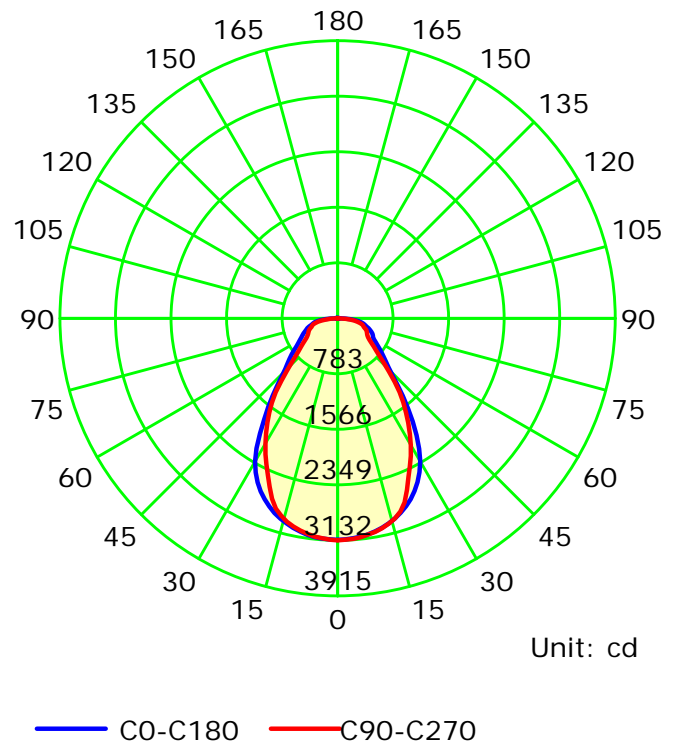
S/MH(C0/C180): 1.13

S/MH(C90/C270): 1.03

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

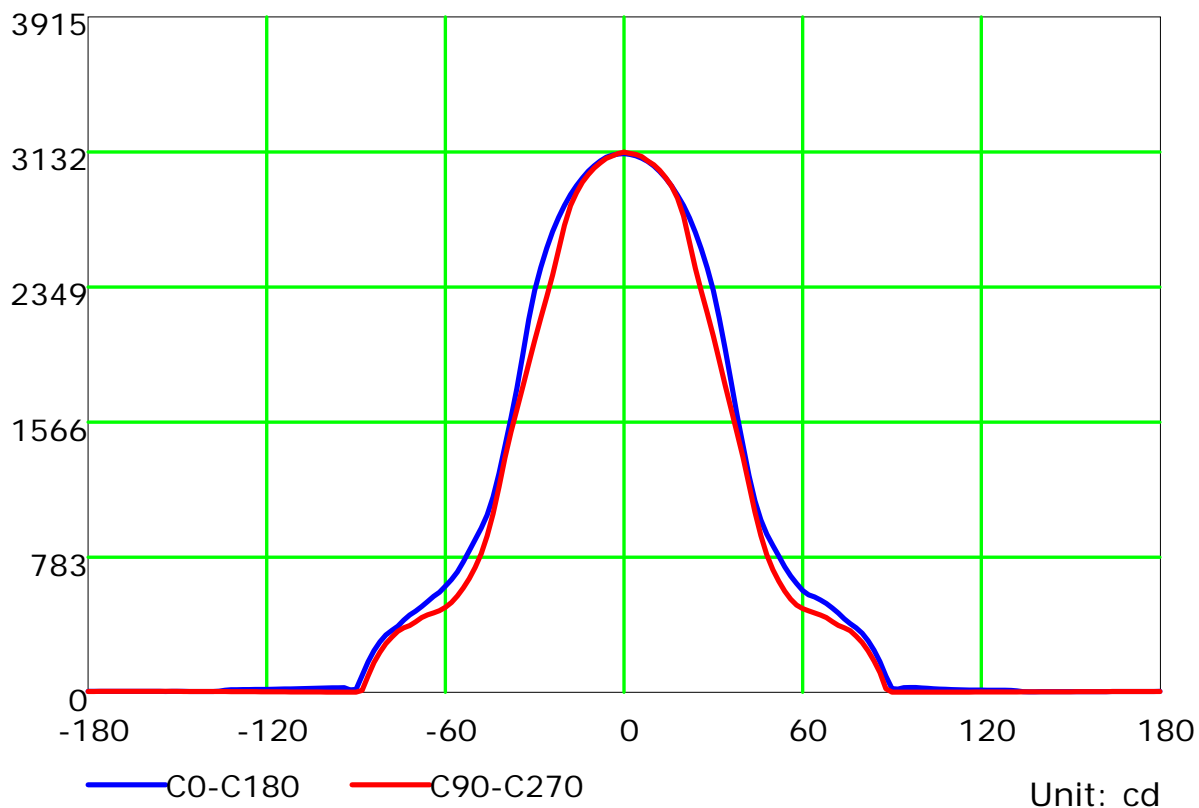
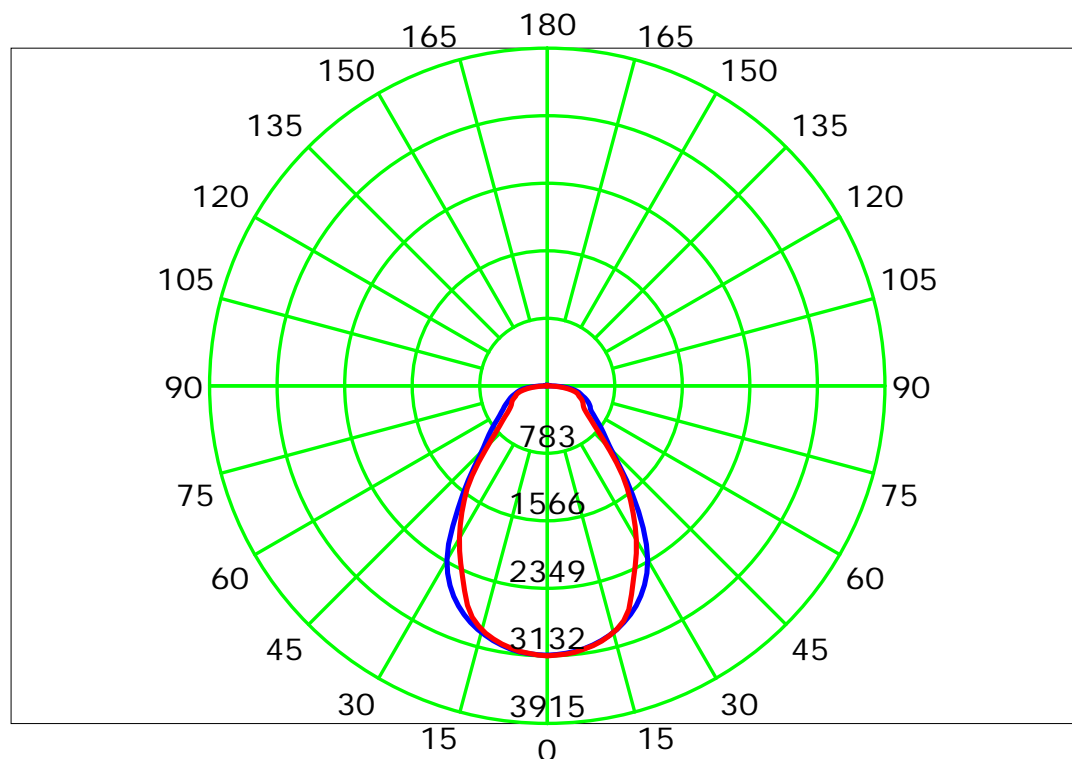
Test Device: LSG-1800B

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

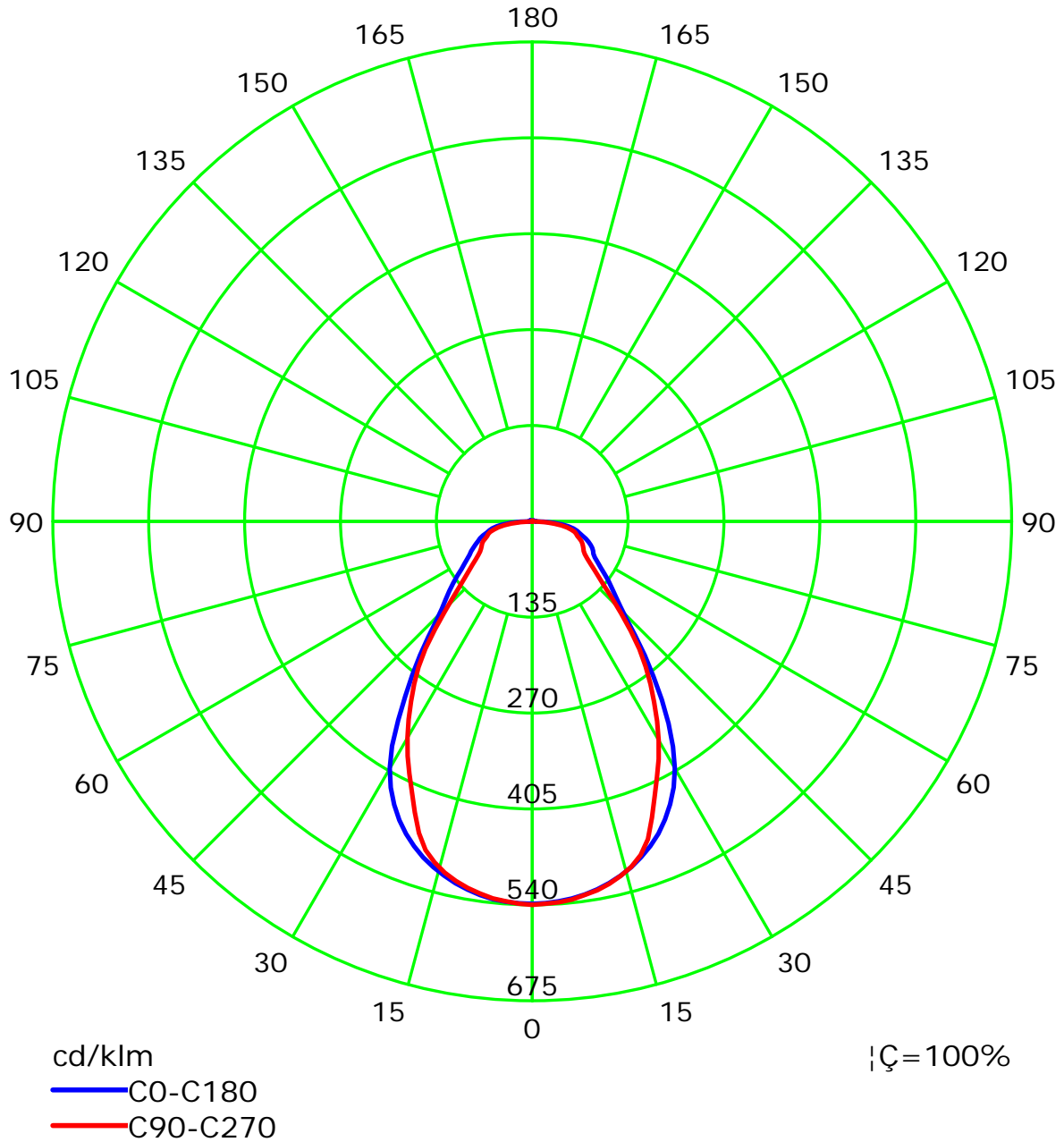
Test Device: LSG-1800B

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

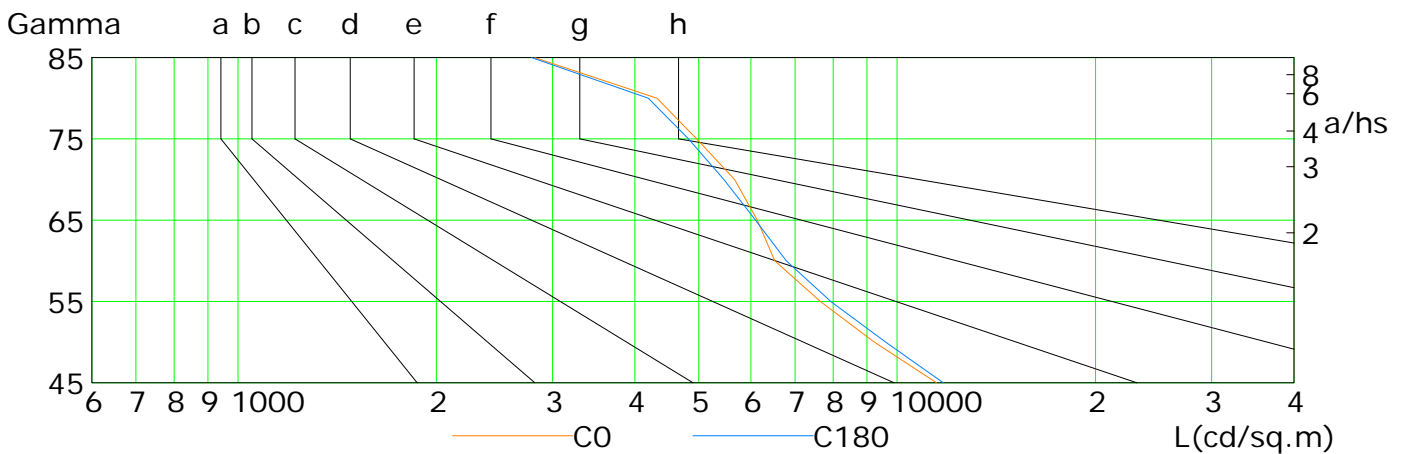
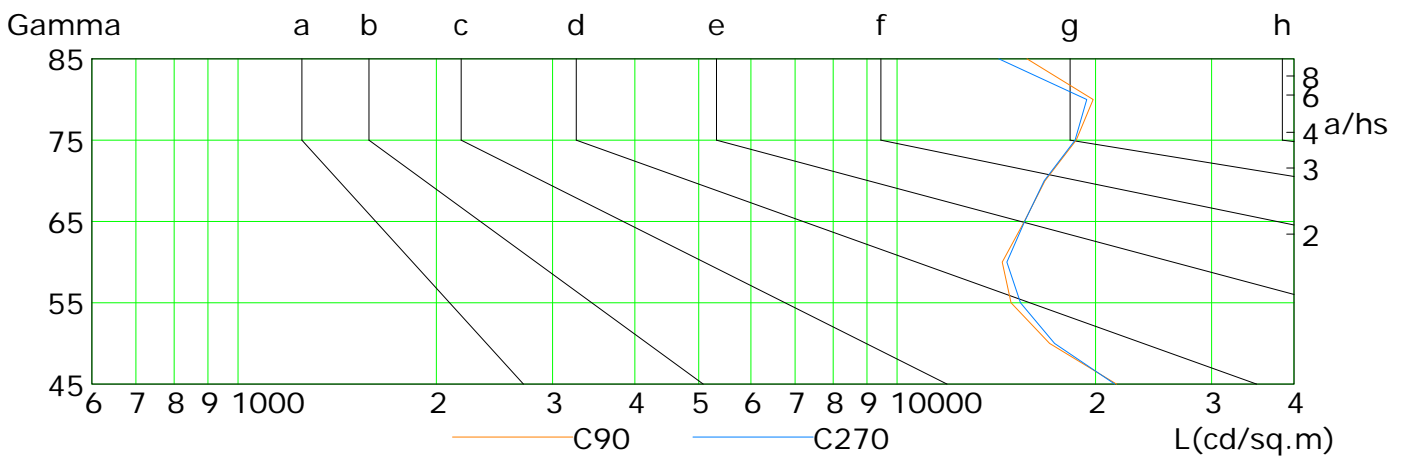
Humidity:

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	11478	9234	7648	6522	6136	5667	4963	4320	2817
C90	21522	17030	14887	14440	15594	16757	18691	19835	15739
C180	11752	9609	7932	6790	6099	5458	4825	4193	2788
C270	21387	17332	15388	14669	15613	16716	18618	19391	14271

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

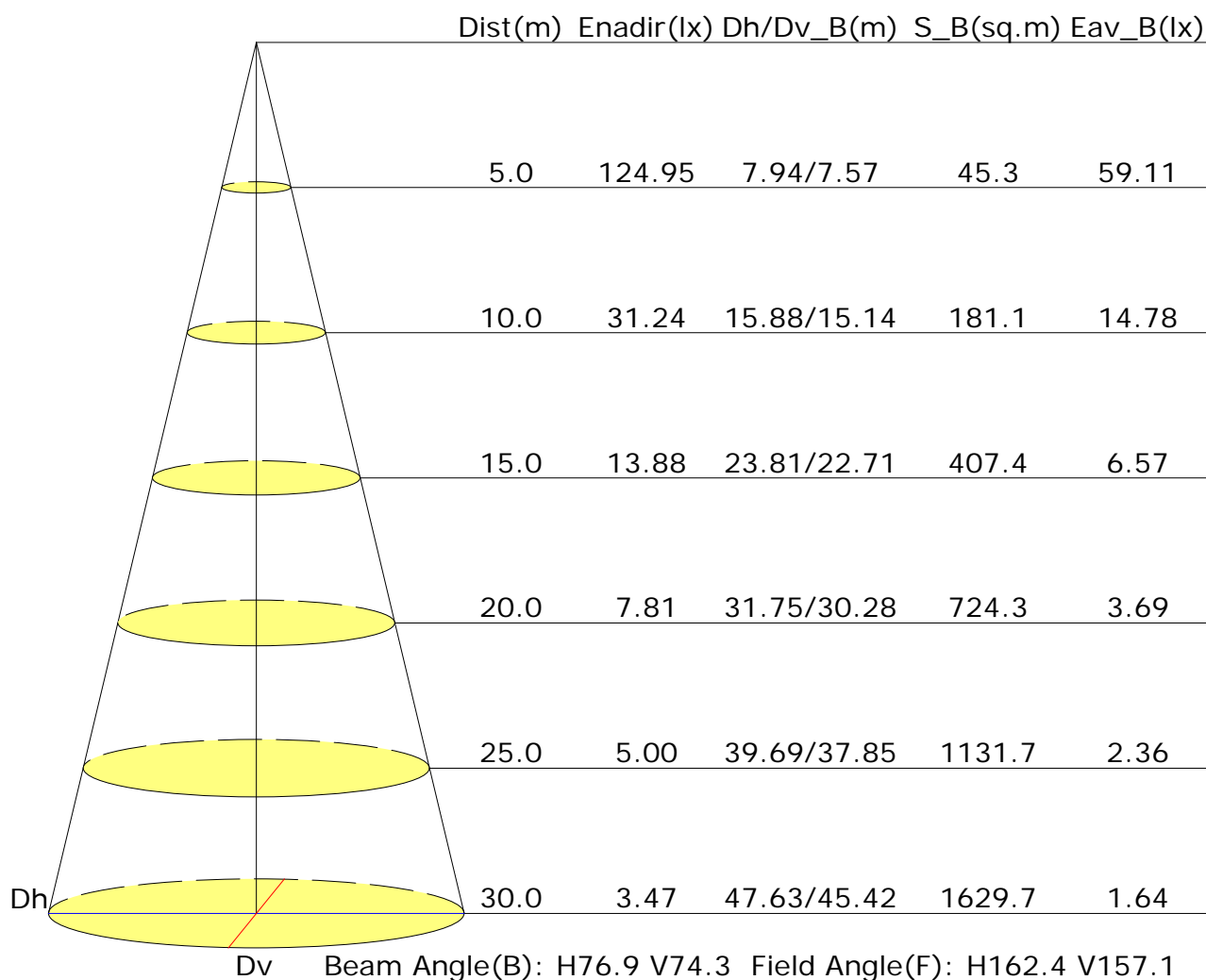
Test Device: LSG-1800B

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	19.1	20.4	19.4	20.6	20.9	20.0	21.2	20.3	21.4	21.7
3H	20.4	21.5	20.7	21.8	22.1	21.6	22.7	21.9	23.0	23.3
4H	21.0	22.1	21.3	22.4	22.7	22.5	23.6	22.9	23.9	24.2
6H	21.6	22.6	21.9	22.9	23.2	23.5	24.5	23.9	24.8	25.2
8H	21.8	22.7	22.2	23.1	23.4	23.9	24.9	24.3	25.2	25.5
12H	21.9	22.8	22.3	23.2	23.5	24.2	25.1	24.6	25.4	25.8
X=4H Y=2H	19.5	20.6	19.9	20.9	21.2	20.2	21.3	20.6	21.6	21.9
3H	21.0	21.9	21.4	22.3	22.6	22.0	22.9	22.4	23.3	23.6
4H	21.8	22.6	22.2	23.0	23.3	23.1	23.9	23.5	24.3	24.7
6H	22.5	23.2	22.9	23.6	24.0	24.2	24.9	24.6	25.3	25.8
8H	22.7	23.4	23.2	23.8	24.3	24.7	25.3	25.1	25.8	26.2
12H	22.9	23.6	23.4	24.0	24.4	25.0	25.6	25.4	26.0	26.5
X=8H Y=4H	22.0	22.7	22.4	23.1	23.5	23.2	23.9	23.7	24.3	24.8
6H	22.8	23.4	23.3	23.8	24.3	24.4	25.0	24.9	25.4	25.9
8H	23.2	23.7	23.7	24.1	24.6	24.9	25.4	25.4	25.9	26.4
12H	23.4	23.9	23.9	24.3	24.9	25.3	25.8	25.8	26.2	26.8
X=12H Y=4H	22.0	22.6	22.5	23.1	23.5	23.2	23.8	23.7	24.3	24.7
6H	22.9	23.4	23.4	23.8	24.3	24.4	24.9	24.9	25.4	25.9
8H	23.2	23.7	23.7	24.2	24.7	25.0	25.4	25.5	25.9	26.4
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.3/-0.3				
S=1.5H	+0.6/-0.8					+0.7/-0.7				
S=2.0H	+1.3/-1.0					+1.3/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 5798lm ($8\log(F/F_0) = 6.1$).

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	0.63	0.73	0.79	0.83	0.90	0.94	0.97	1.02	1.04	
		0.30	0.56	0.66	0.72	0.77	0.84	0.89	0.93	0.98	1.01	
		0.20	0.51	0.60	0.67	0.72	0.79	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.62	0.70	0.76	0.81	0.87	0.91	0.94	0.97	1.00	
		0.30	0.56	0.64	0.71	0.75	0.82	0.86	0.90	0.94	0.97	
		0.20	0.51	0.60	0.66	0.71	0.78	0.83	0.86	0.91	0.95	
0.30	0.50	0.20	0.60	0.69	0.74	0.78	0.84	0.87	0.90	0.94	0.96	
		0.30	0.55	0.63	0.69	0.73	0.80	0.84	0.87	0.91	0.94	
		0.20	0.51	0.59	0.65	0.70	0.76	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.48	0.57	0.62	0.67	0.73	0.77	0.80	0.84	0.87	
<p>Rating: 53W 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 = 1.00									
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	0.89	0.74	0.63	0.56	0.45	0.37	0.32	0.25	0.21	
	0.30		0.75	0.63	0.55	0.49	0.40	0.34	0.30	0.24	0.20	
	0.20		0.64	0.55	0.49	0.44	0.37	0.32	0.28	0.22	0.19	
0.50	0.50	0.20	0.86	0.71	0.61	0.53	0.42	0.39	0.30	0.24	0.20	
	0.30		0.73	0.62	0.54	0.47	0.39	0.33	0.28	0.22	0.19	
	0.20		0.63	0.54	0.48	0.43	0.36	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.83	0.68	0.58	0.51	0.40	0.34	0.29	0.23	0.19	
	0.30		0.71	0.60	0.52	0.46	0.37	0.32	0.27	0.22	0.18	
	0.20		0.62	0.53	0.47	0.42	0.35	0.30	0.26	0.21	0.17	
0.00	0.00	0.00	0.51	0.43	0.37	0.33	0.27	0.23	0.20	0.16	0.13	
Rating: 53W 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	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.23	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	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	0.15	0.17	0.17	0.19	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	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: 53W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												