

Report No.:

Test Time: 23.06.2020 21:29

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60/1000 17W 4000K прозрачный

Number of Lamps: 1

Luminous Length (mm): 950

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.3 V

Current: 0.081 A

Power: 16.79 W

Power Factor: 0.933

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 2436.4 lm

Measurement Flux: 2436.4 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.2, 118.3, 133.2, 134.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.8, 109.6, 111.0, 110.9

Luminaire Efficacy Rating (LER): 145.16

Central Intensity: 952.54 cd

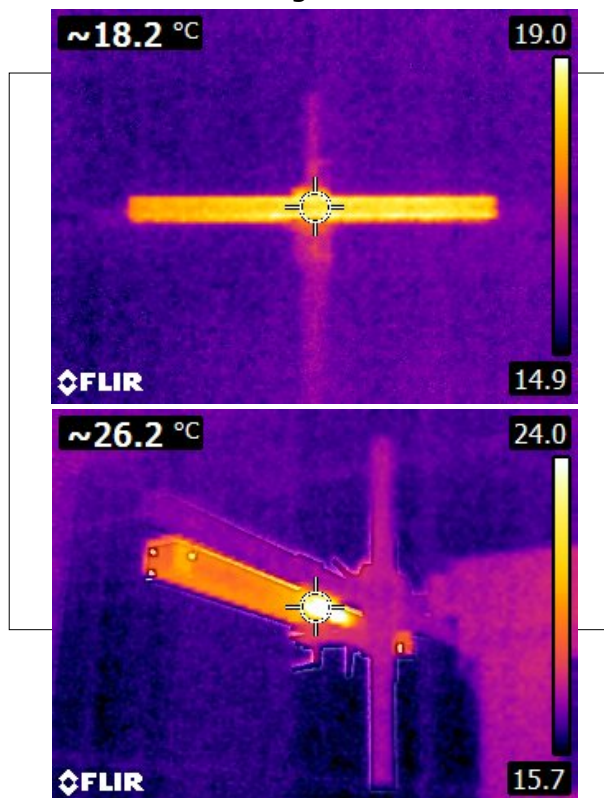
Max. Intensity: 953.72 cd

Pos of Max. Intensity: H90 V0

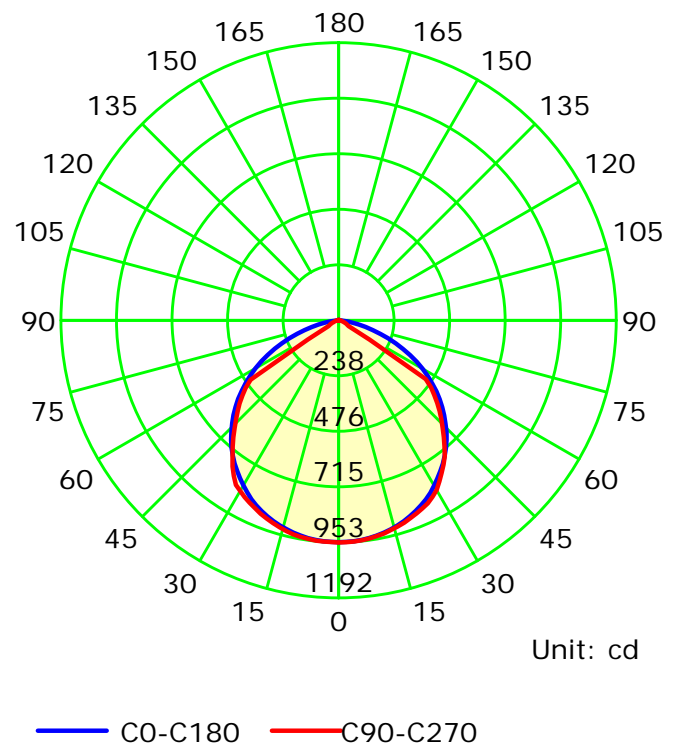
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.30

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

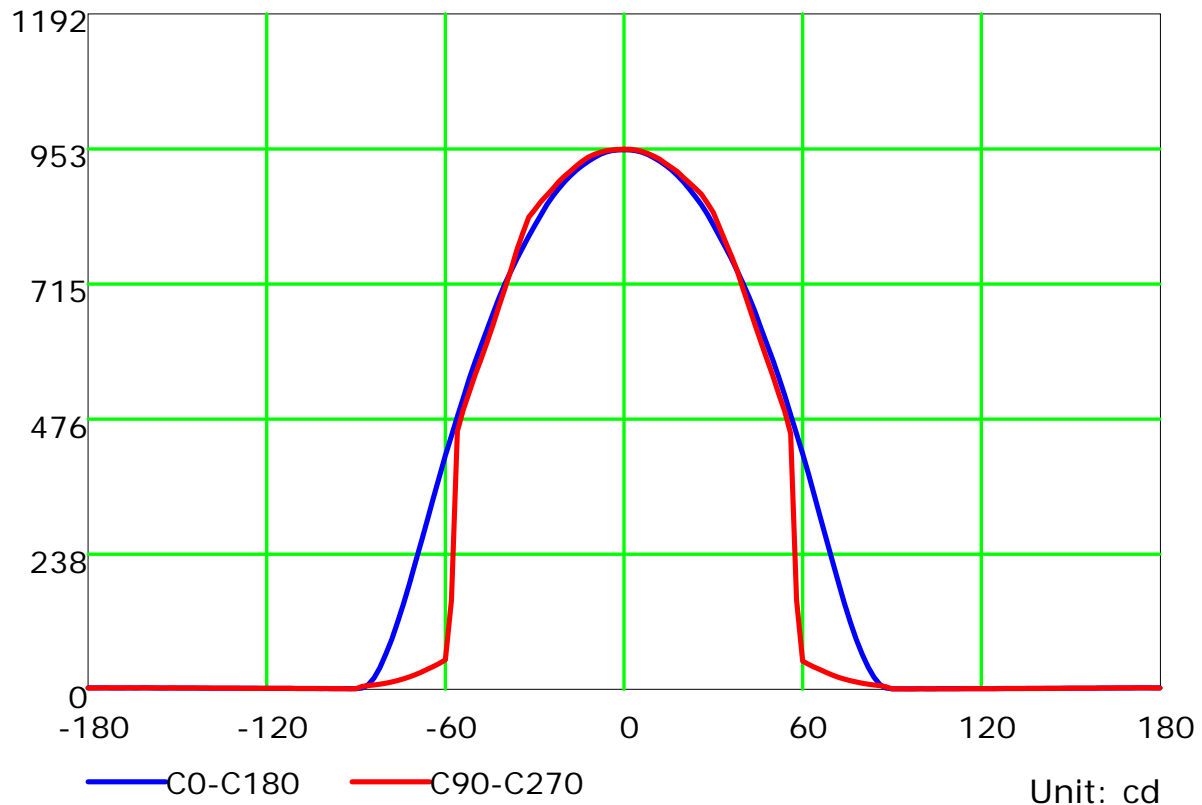
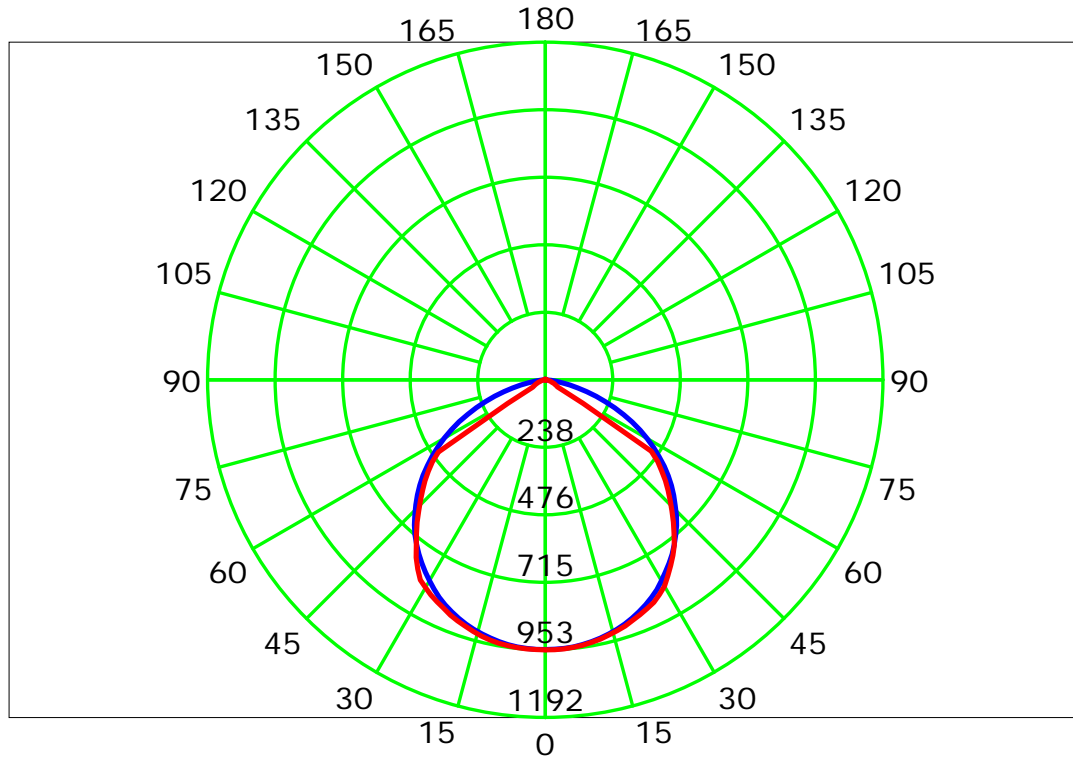
Test Device: LSG-1800B

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

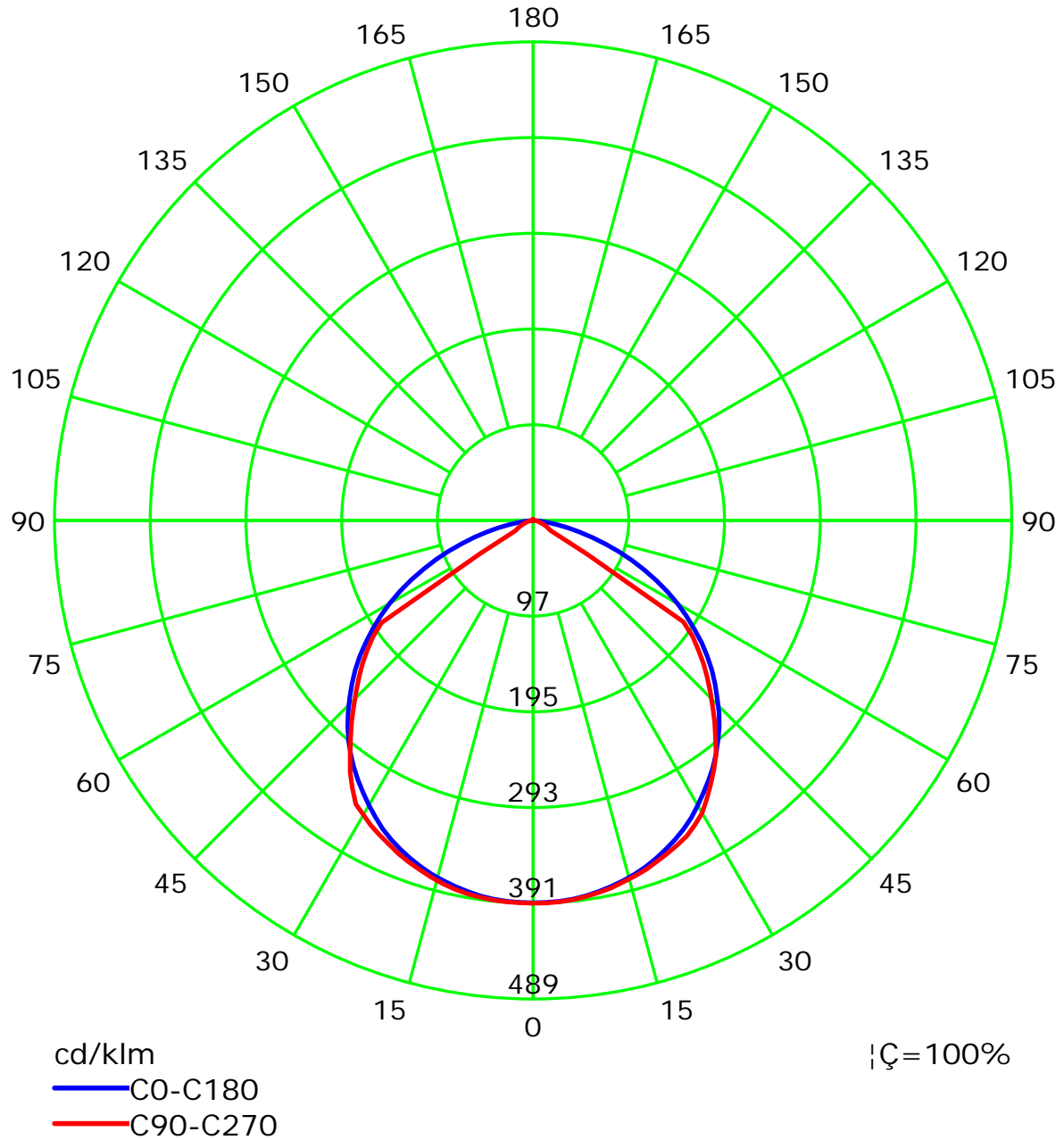
Test Device: LSG-1800B

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

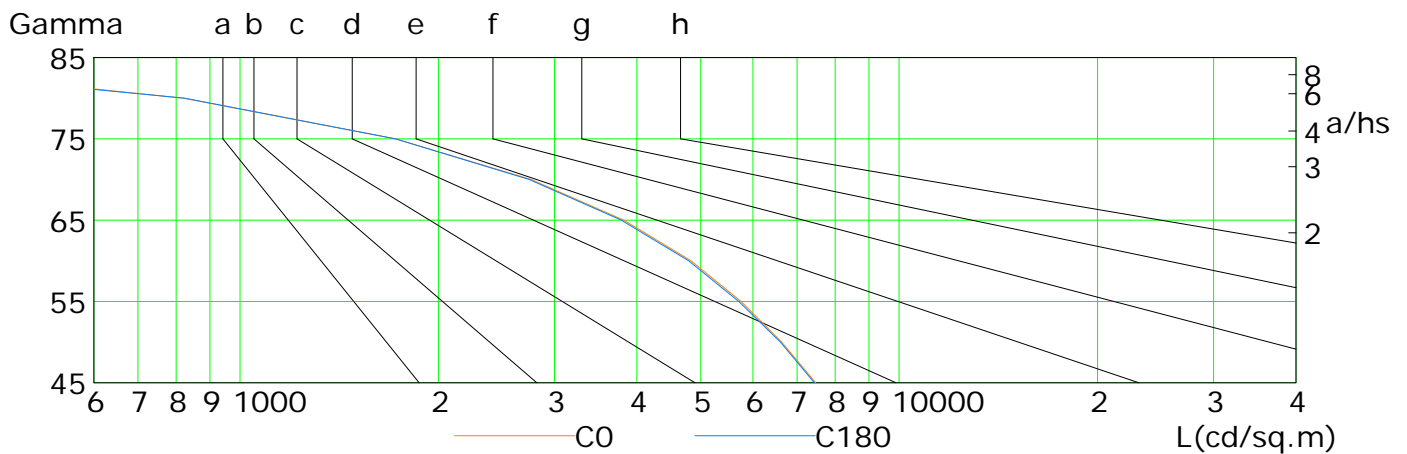
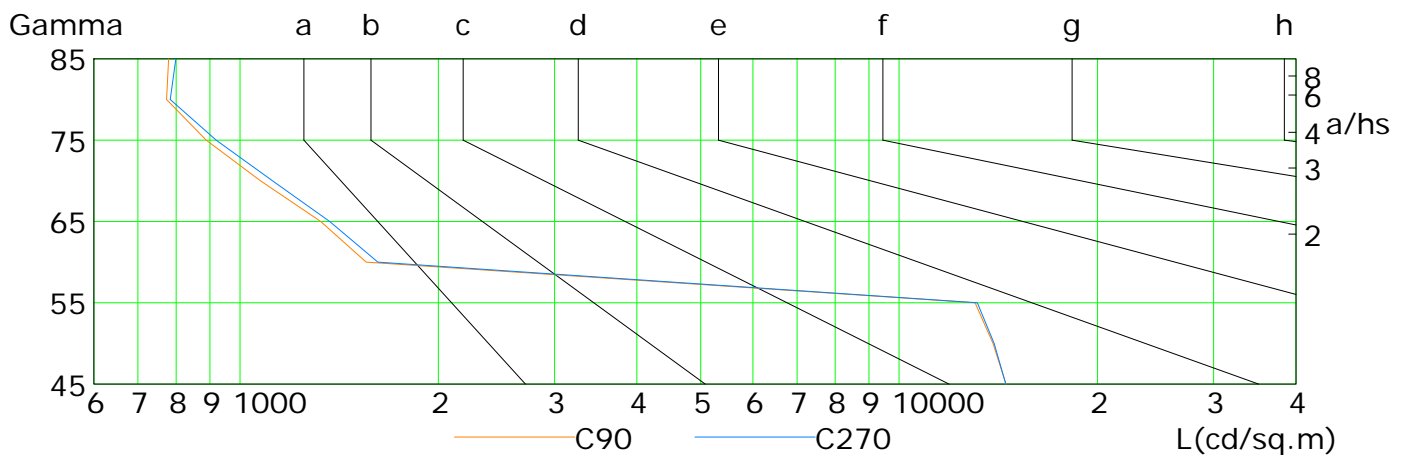
Humidity:

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	7469	6636	5757	4832	3820	2763	1721	821	208
C90	14527	13882	13038	1553	1326	1074	889	774	779
C180	7437	6606	5712	4796	3788	2747	1722	824	194
C270	14520	13933	13138	1619	1368	1120	920	784	799

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

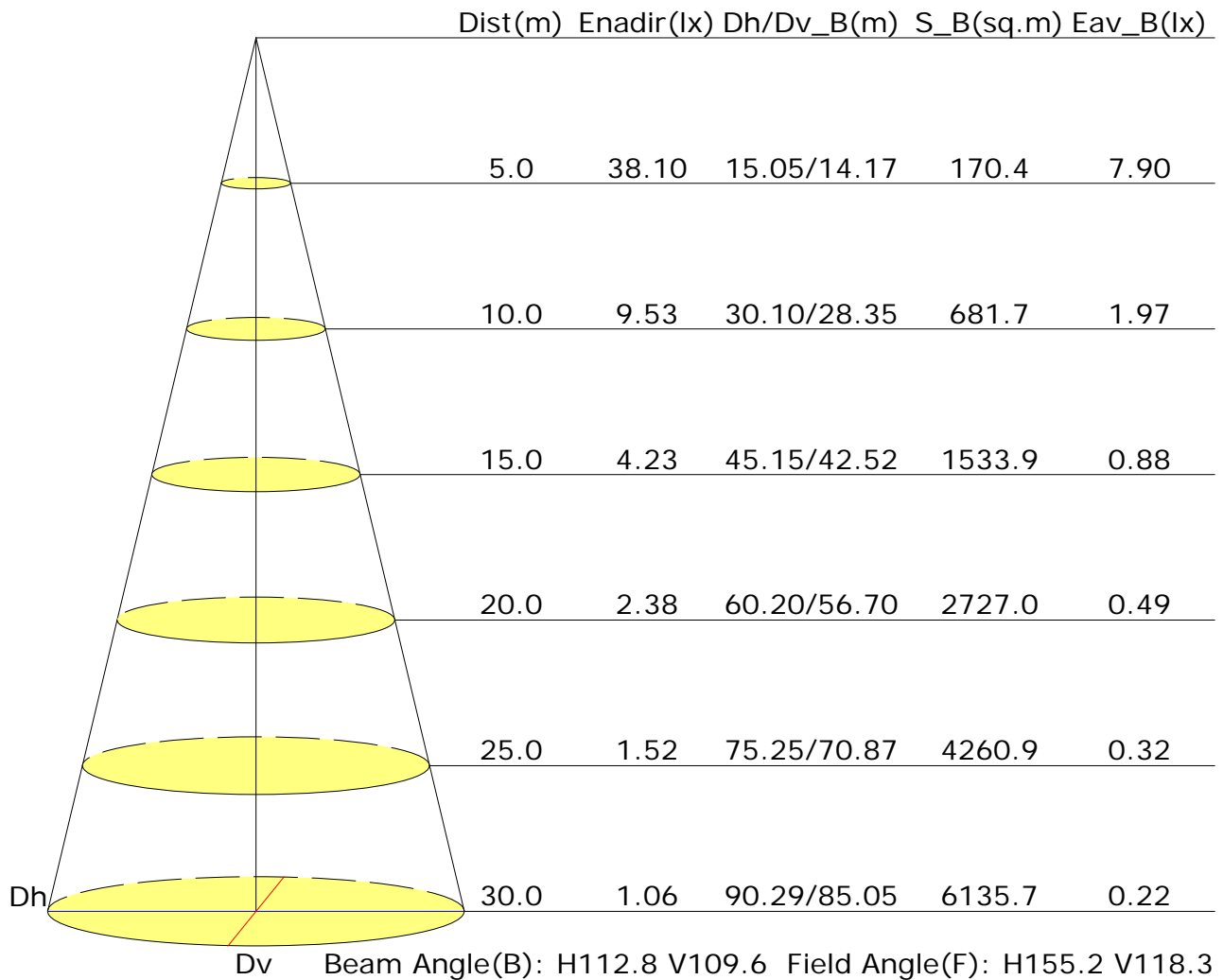
Test Device: LSG-1800B

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	19.3	20.6	19.6	20.8	21.0	19.1	20.4	19.4	20.7	20.9
3H	20.1	21.3	20.4	21.5	21.8	19.0	20.2	19.3	20.4	20.7
4H	20.3	21.4	20.6	21.7	22.0	19.0	20.0	19.3	20.3	20.6
6H	20.3	21.3	20.7	21.6	21.9	18.9	19.9	19.3	20.2	20.5
8H	20.3	21.2	20.7	21.6	21.9	18.9	19.8	19.2	20.1	20.5
12H	20.2	21.2	20.6	21.5	21.8	18.8	19.7	19.2	20.1	20.4
X=4H Y=2H	19.6	20.7	19.9	20.9	21.2	19.4	20.5	19.7	20.8	21.1
3H	20.5	21.4	20.8	21.7	22.1	19.3	20.2	19.7	20.5	20.9
4H	20.7	21.5	21.1	21.9	22.3	19.2	20.0	19.6	20.4	20.8
6H	20.7	21.4	21.2	21.8	22.2	19.2	19.9	19.6	20.3	20.7
8H	20.7	21.4	21.2	21.8	22.2	19.2	19.8	19.6	20.2	20.6
12H	20.7	21.3	21.1	21.7	22.1	19.1	19.7	19.6	20.1	20.6
X=8H Y=4H	20.6	21.3	21.1	21.7	22.1	19.2	19.8	19.6	20.2	20.7
6H	20.6	21.2	21.1	21.6	22.1	19.1	19.7	19.6	20.1	20.6
8H	20.6	21.1	21.1	21.6	22.0	19.1	19.6	19.6	20.0	20.5
12H	20.6	21.0	21.1	21.5	22.0	19.1	19.5	19.6	20.0	20.5
X=12H Y=4H	20.6	21.2	21.0	21.6	22.0	19.2	19.7	19.6	20.2	20.6
6H	20.6	21.1	21.1	21.5	22.0	19.1	19.6	19.6	20.0	20.5
8H	20.6	21.0	21.1	21.5	22.0	19.1	19.5	19.6	20.0	20.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.8/-1.0				
S=1.5H	+0.6/-1.4					+2.5/-9.3				
S=2.0H	+1.2/-2.3					+4.0/-11.2				

Calculate in accordance with CIE Pub.117. The table is revised with 2436lm ($8\log(F/F_0) = 3.1$).

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 = 1.25									
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	0.61	0.73	0.80	0.85	0.92	0.97	1.00	1.04	1.07	
	0.30		0.54	0.65	0.73	0.79	0.87	0.92	0.96	1.01	1.04	
	0.20		0.48	0.60	0.68	0.74	0.82	0.88	0.92	0.97	1.01	
0.50	0.50	0.20	0.60	0.70	0.78	0.83	0.89	0.93	0.96	1.00	1.02	
	0.30		0.53	0.64	0.72	0.77	0.85	0.89	0.93	0.97	1.00	
	0.20		0.48	0.59	0.67	0.73	0.81	0.86	0.90	0.95	0.98	
0.30	0.50	0.20	0.58	0.69	0.75	0.80	0.86	0.90	0.93	0.96	0.99	
	0.30		0.52	0.63	0.70	0.76	0.82	0.87	0.90	0.94	0.97	
	0.20		0.48	0.59	0.66	0.72	0.79	0.84	0.87	0.92	0.95	
0.00	0.00	0.00	0.46	0.56	0.64	0.69	0.76	0.80	0.83	0.87	0.90	
Rating: 17W 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	0.76	0.63	0.54	0.43	0.35	0.30	0.23	0.18	
	0.30		0.79	0.65	0.55	0.48	0.39	0.32	0.28	0.21	0.18	
	0.20		0.68	0.57	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.91	0.73	0.61	0.52	0.41	0.37	0.28	0.21	0.17	
	0.30		0.77	0.63	0.54	0.47	0.37	0.31	0.26	0.20	0.17	
	0.20		0.67	0.56	0.48	0.42	0.34	0.29	0.25	0.19	0.16	
0.30	0.50	0.20	0.88	0.70	0.58	0.50	0.39	0.31	0.27	0.20	0.16	
	0.30		0.75	0.61	0.52	0.45	0.36	0.29	0.25	0.19	0.16	
	0.20		0.66	0.55	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
0.00	0.00	0.00	0.55	0.44	0.37	0.32	0.25	0.21	0.17	0.13	0.11	
Rating: 17W 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	0.18	0.18	0.19	0.20	0.21	0.21	0.22	0.22
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.05	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	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	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	0.18	0.19	0.19	0.20	0.20
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18
	0.20		0.05	0.07	0.08	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: 17W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											