

Report No.:

Test Time: 22.06.2020 17:32

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60/1000 24W 4000K микропризма

Number of Lamps: 1

Lumens per Lamp: 2819.2 lm

Luminous Length (mm): 950 mm

Luminous Width (mm): 60 mm

Luminous Height (mm): 70 mm

Voltage: 222.4 V

Current: 0.111 A

Power: 23.43 W

Power Factor: 0.945

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 2819.2 lm

Measurement Flux: 2819.3 lm

Efficiency: 100.00%

Downward Ratio: 99.65%

Upward Ratio: 0.35%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.9, 159.4, 146.9, 147.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 76.6, 74.4, 73.0, 73.5

Luminaire Efficacy Rating (LER): 120.38

Central Intensity: 1537.97 cd

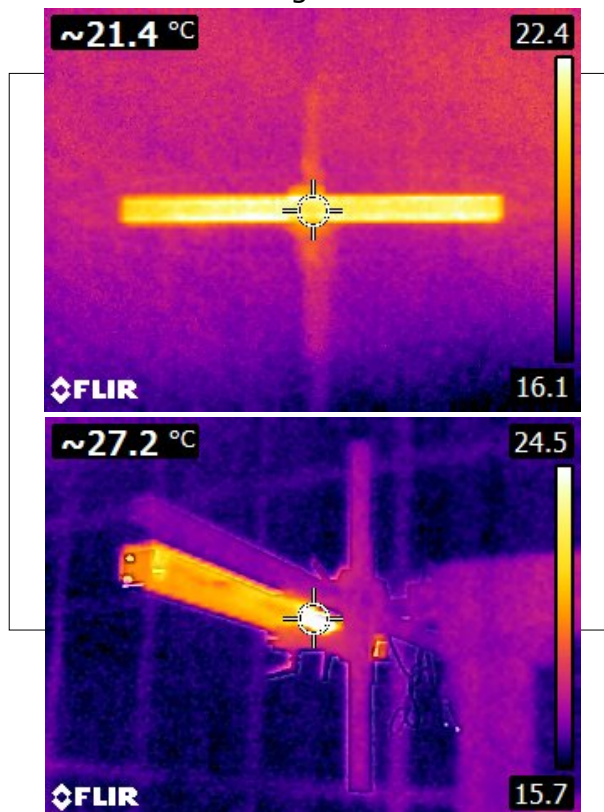
Max. Intensity: 1538.7 cd

Pos of Max. Intensity: H45 V0

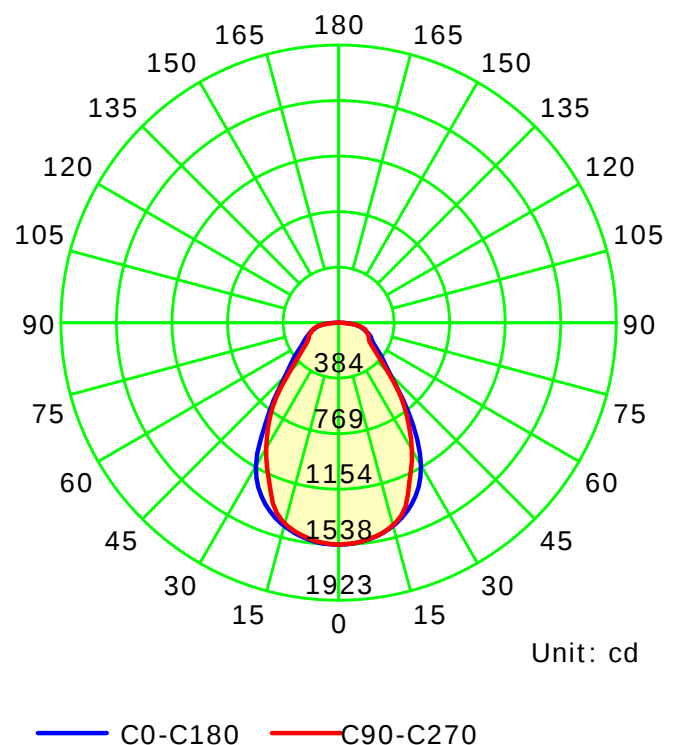
S/MH(C0/C180): 1.13

S/MH(C90/C270): 1.03

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

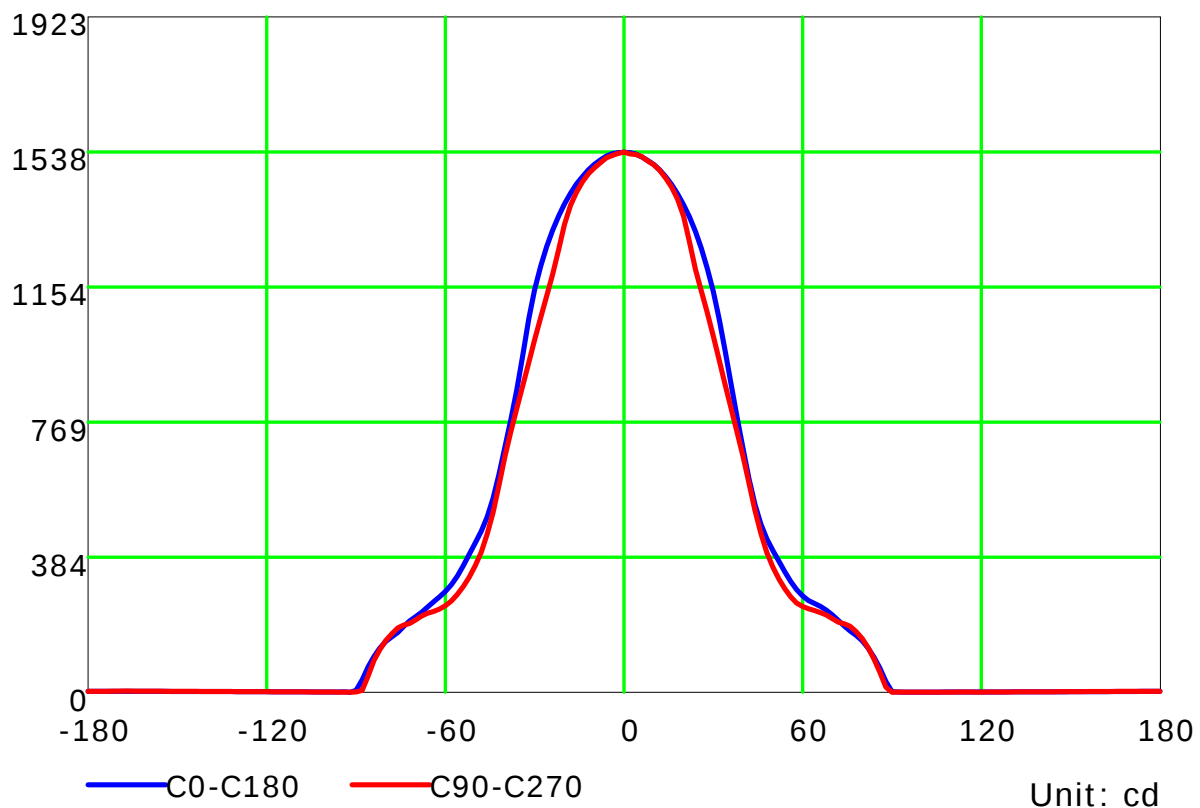
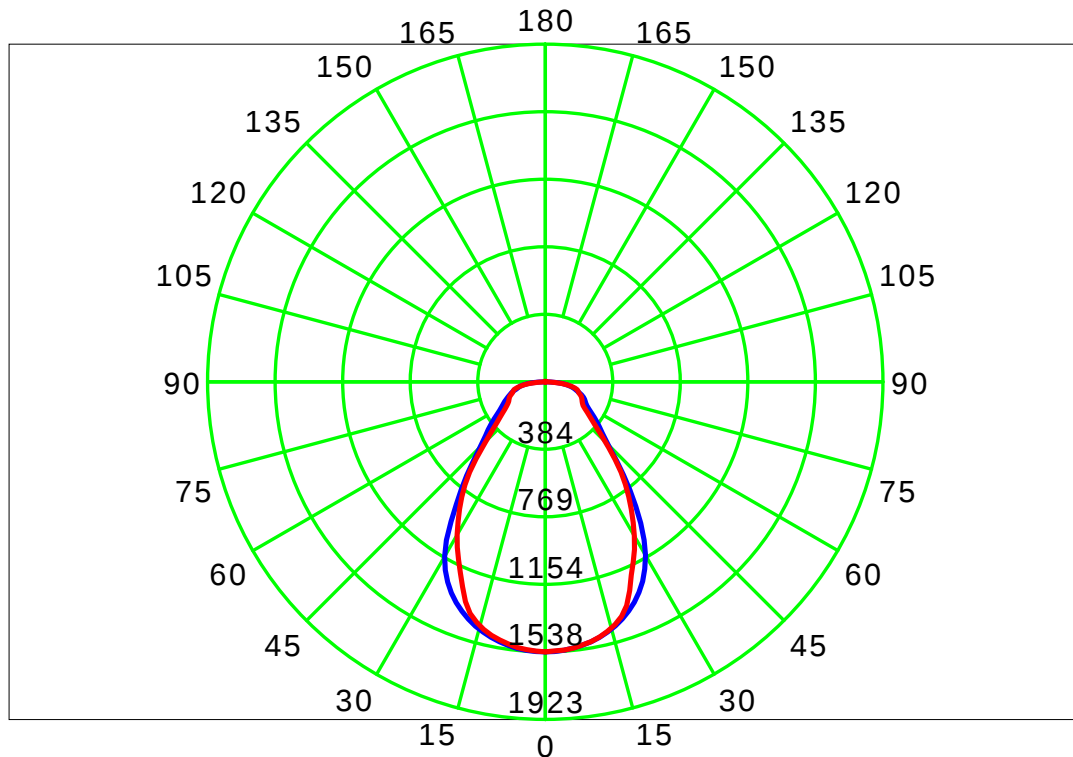
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



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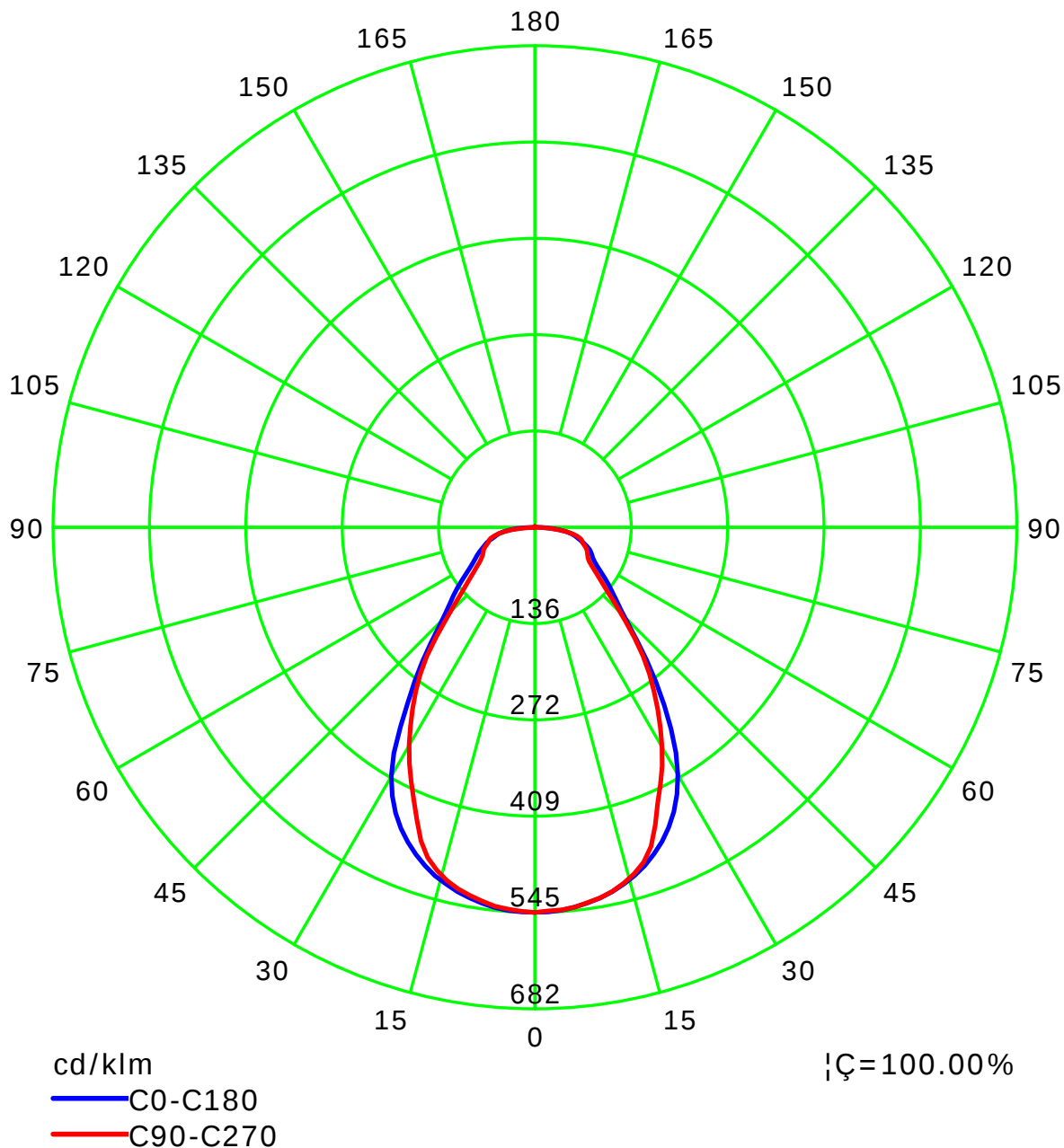
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

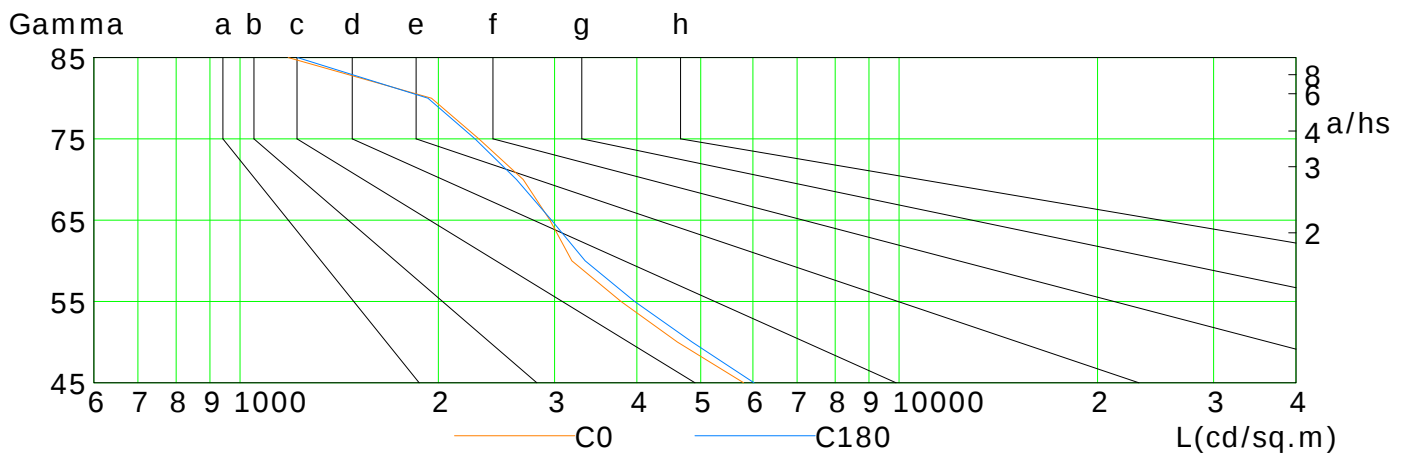
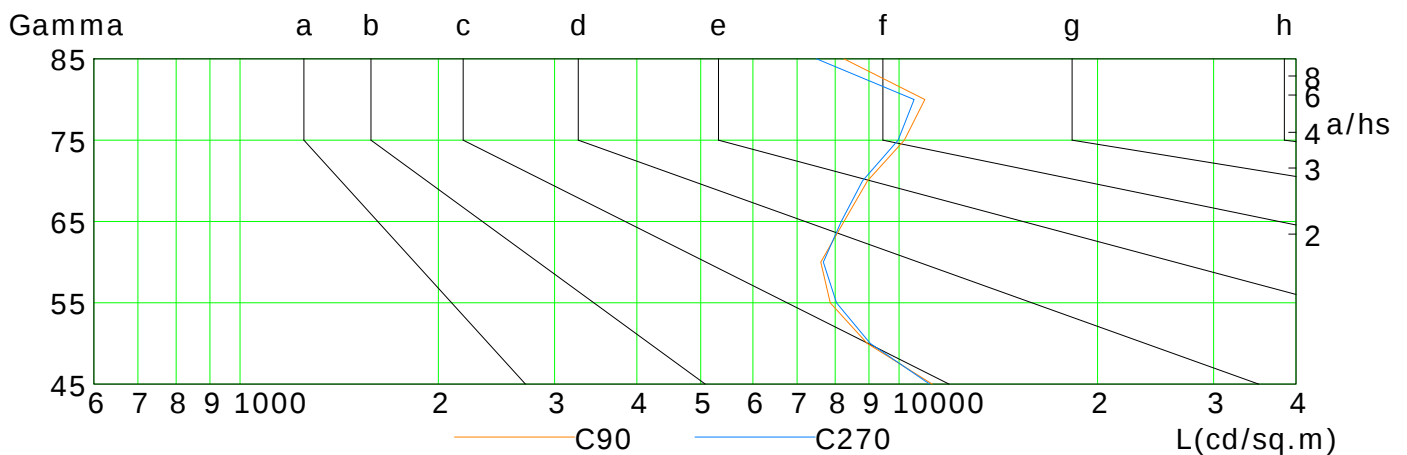
Luminous Intensity Distribution Curve(cd / klm)



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	5809	4611	3785	3188	2952	2690	2303	1952	1184
C90	11225	8943	7858	7604	8246	8952	10185	10941	8246
C180	6024	4854	3970	3340	2969	2626	2273	1928	1222
C270	11122	9039	8035	7674	8168	8799	9964	10537	7495

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

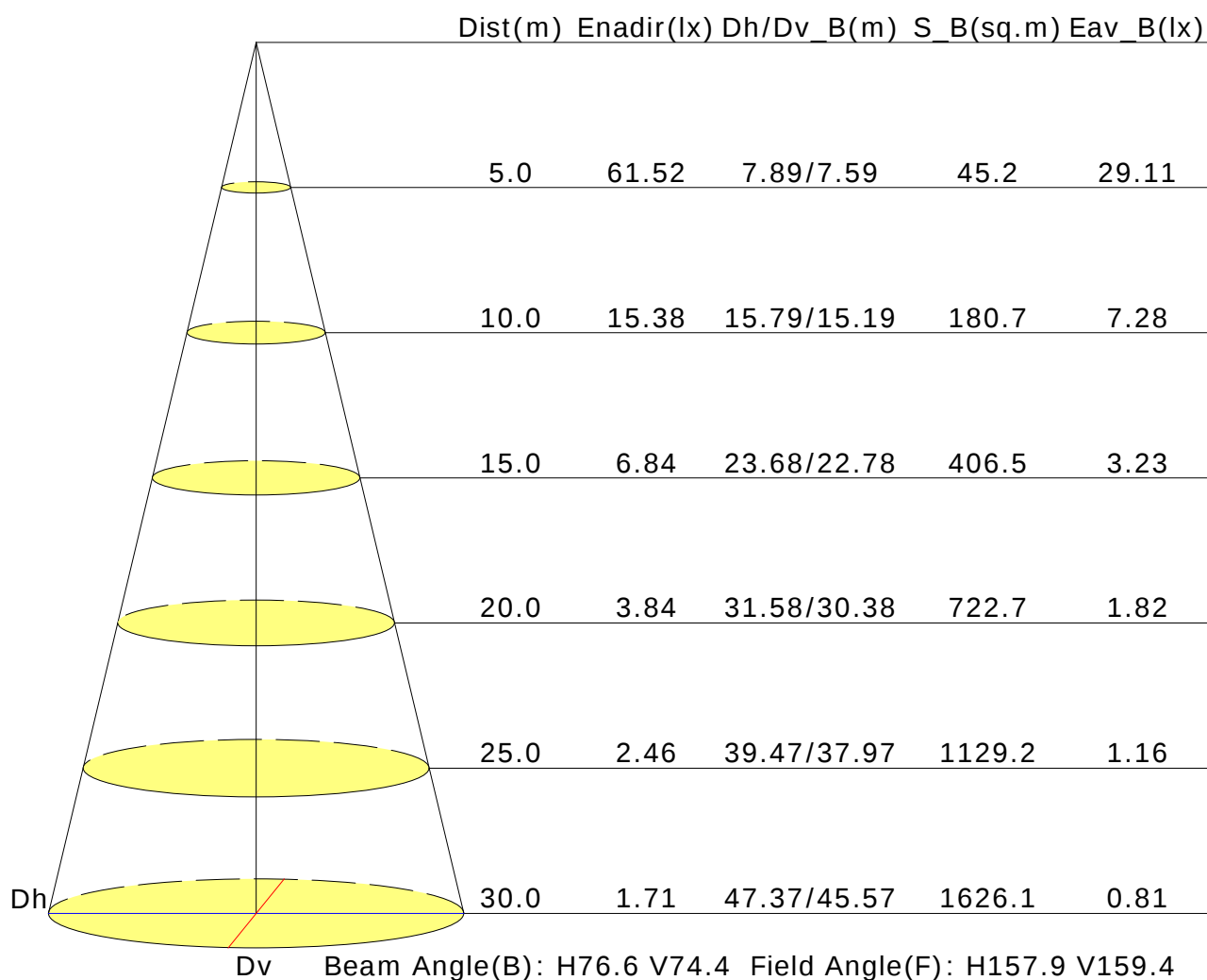
Test Device: LSG-1800B

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	16.7	17.9	17.0	18.1	18.4	17.8	19.0	18.1	19.2	19.5
3H	17.8	18.9	18.1	19.2	19.5	19.4	20.6	19.8	20.8	21.1
4H	18.4	19.4	18.7	19.7	20.0	20.4	21.5	20.8	21.8	22.1
6H	18.9	19.9	19.2	20.2	20.5	21.5	22.5	21.9	22.8	23.1
8H	19.0	20.0	19.4	20.3	20.7	21.9	22.9	22.3	23.2	23.5
12H	19.2	20.1	19.5	20.4	20.8	22.2	23.1	22.6	23.4	23.8
X=4H Y=2H	17.1	18.1	17.4	18.4	18.7	18.0	19.1	18.3	19.3	19.6
3H	18.4	19.4	18.8	19.7	20.0	19.8	20.8	20.2	21.1	21.4
4H	19.1	20.0	19.5	20.3	20.7	21.0	21.8	21.4	22.2	22.6
6H	19.8	20.5	20.2	20.9	21.3	22.2	22.9	22.6	23.3	23.7
8H	20.0	20.7	20.4	21.1	21.5	22.7	23.3	23.1	23.7	24.2
12H	20.2	20.8	20.6	21.2	21.7	23.0	23.6	23.4	24.0	24.5
X=8H Y=4H	19.4	20.1	19.8	20.5	20.9	21.1	21.8	21.5	22.2	22.6
6H	20.1	20.7	20.6	21.1	21.6	22.4	22.9	22.9	23.4	23.9
8H	20.5	21.0	21.0	21.4	21.9	22.9	23.4	23.4	23.9	24.4
12H	20.7	21.1	21.2	21.6	22.1	23.3	23.8	23.8	24.2	24.7
X=12H Y=4H	19.4	20.0	19.9	20.5	20.9	21.1	21.7	21.5	22.1	22.6
6H	20.2	20.7	20.7	21.2	21.7	22.4	22.9	22.9	23.4	23.8
8H	20.6	21.0	21.1	21.5	22.0	23.0	23.4	23.5	23.9	24.4
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.3/-0.3				
S=1.5H	+0.7/-0.9					+0.7/-0.7				
S=2.0H	+1.4/-1.1					+1.3/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 2819lm ($8\log(F/F_0) = 3.6$).

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	0.64	0.73	0.79	0.84	0.90	0.95	0.98	1.02	1.04	
	0.30		0.57	0.66	0.73	0.77	0.85	0.89	0.93	0.98	1.01	
	0.20		0.52	0.61	0.67	0.72	0.80	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.91	0.94	0.98	1.00	
	0.30		0.56	0.65	0.71	0.76	0.82	0.87	0.90	0.95	0.97	
	0.20		0.51	0.60	0.66	0.71	0.78	0.83	0.87	0.92	0.95	
0.30	0.50	0.20	0.61	0.69	0.75	0.79	0.84	0.88	0.91	0.94	0.96	
	0.30		0.55	0.64	0.70	0.74	0.80	0.84	0.87	0.91	0.94	
	0.20		0.51	0.60	0.66	0.70	0.77	0.81	0.85	0.89	0.92	
0.00	0.00	0.00	0.49	0.57	0.63	0.67	0.73	0.77	0.81	0.85	0.87	
Rating:23W 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	0.89	0.74	0.63	0.55	0.44	0.37	0.32	0.25	0.20	
	0.30		0.74	0.63	0.55	0.49	0.40	0.34	0.30	0.23	0.20	
	0.20		0.64	0.55	0.49	0.44	0.37	0.31	0.28	0.22	0.19	
0.50	0.50	0.20	0.86	0.71	0.60	0.53	0.42	0.39	0.30	0.24	0.19	
	0.30		0.73	0.61	0.53	0.47	0.39	0.33	0.28	0.22	0.19	
	0.20		0.63	0.54	0.48	0.43	0.36	0.30	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	0.22	0.19	
	0.30		0.71	0.60	0.52	0.46	0.37	0.31	0.27	0.21	0.18	
	0.20		0.62	0.53	0.47	0.42	0.35	0.29	0.26	0.20	0.17	
0.00	0.00	0.00	0.51	0.43	0.37	0.33	0.27	0.23	0.20	0.15	0.13	
Rating:23W 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	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.50	0.50	0.20	0.15	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	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.18	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:23W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												