

Report No.:

Test Time: 25.06.2020 13:41

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60/1000 31W 4000K микропризма DALI

Luminous Length (mm): 950

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.7 V

Current: 0.144 A

Power: 30.73 W

Power Factor: 0.961

Photometric Results

CIE Class: Direct

Measurement Flux: 3552.8 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 3552.8 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.9, 158.1, 146.6, 146.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 76.5, 74.6, 73.1, 73.5

Luminaire Efficacy Rating (LER): 115.66

Central Intensity: 1938.84 cd

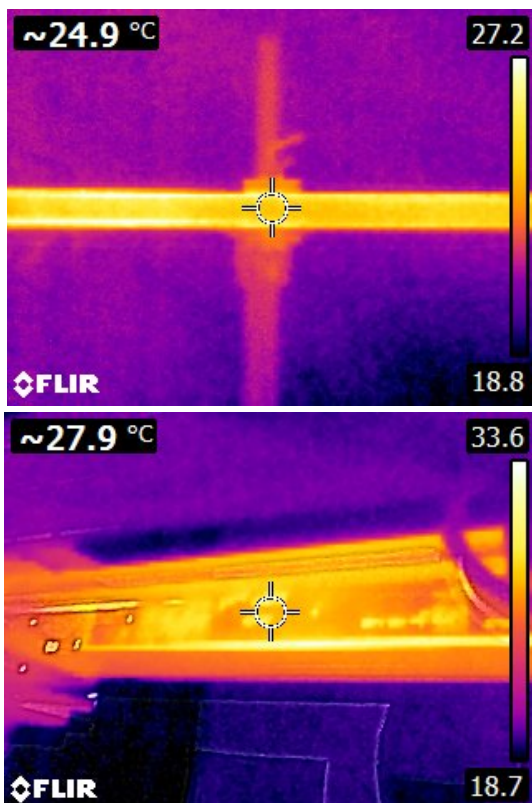
Max. Intensity: 1940.74 cd

Pos of Max. Intensity: H67.5 V0

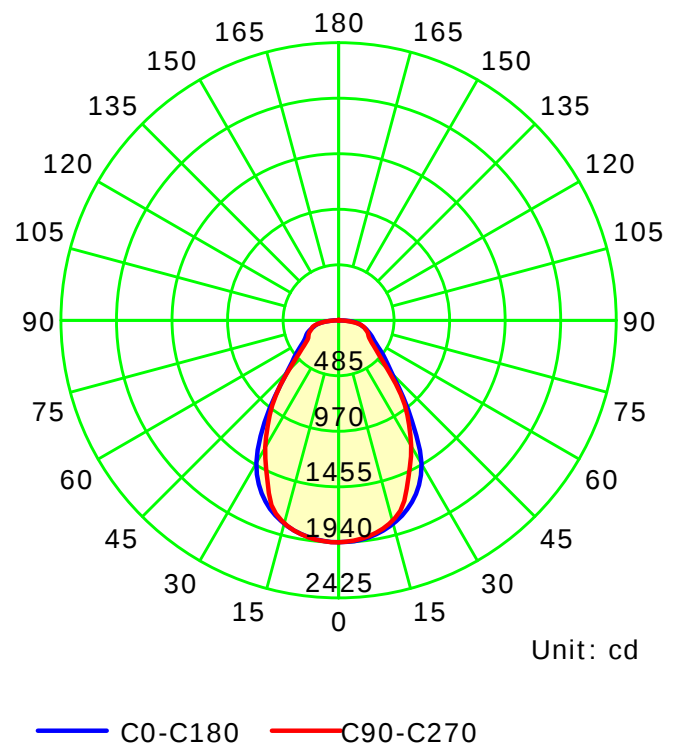
S/MH(C0/C180): 1.13

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

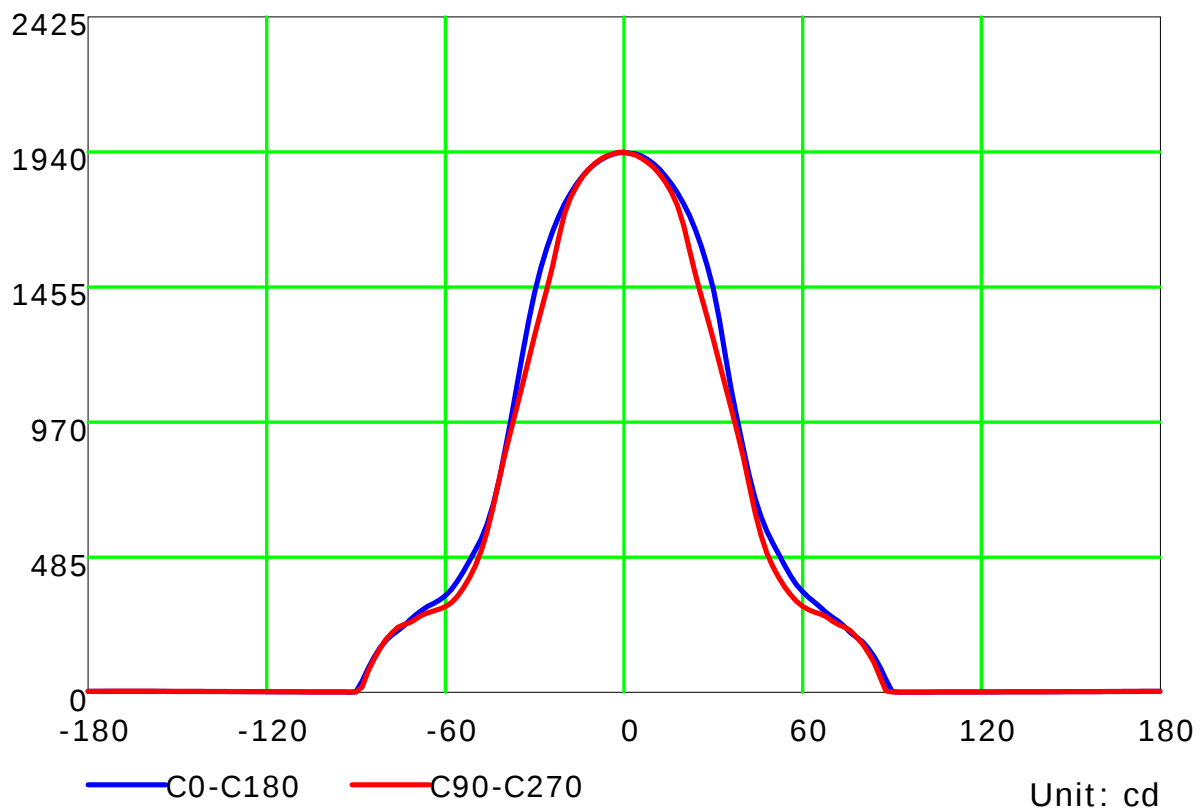
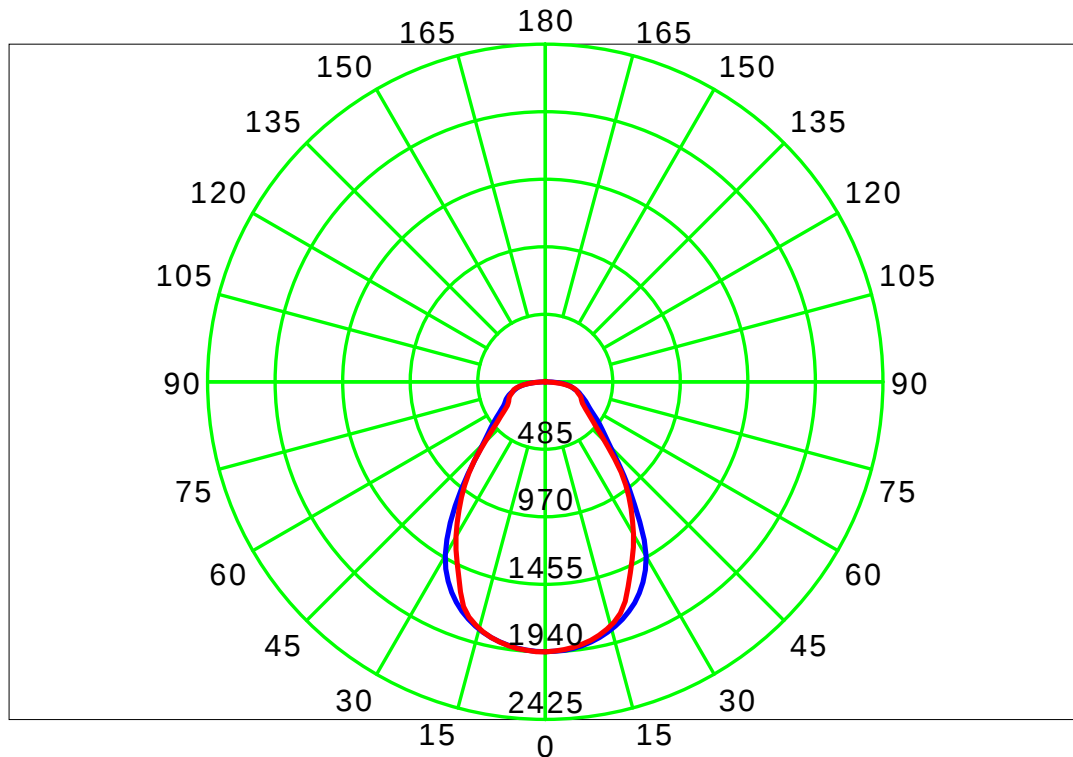
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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Temperature:

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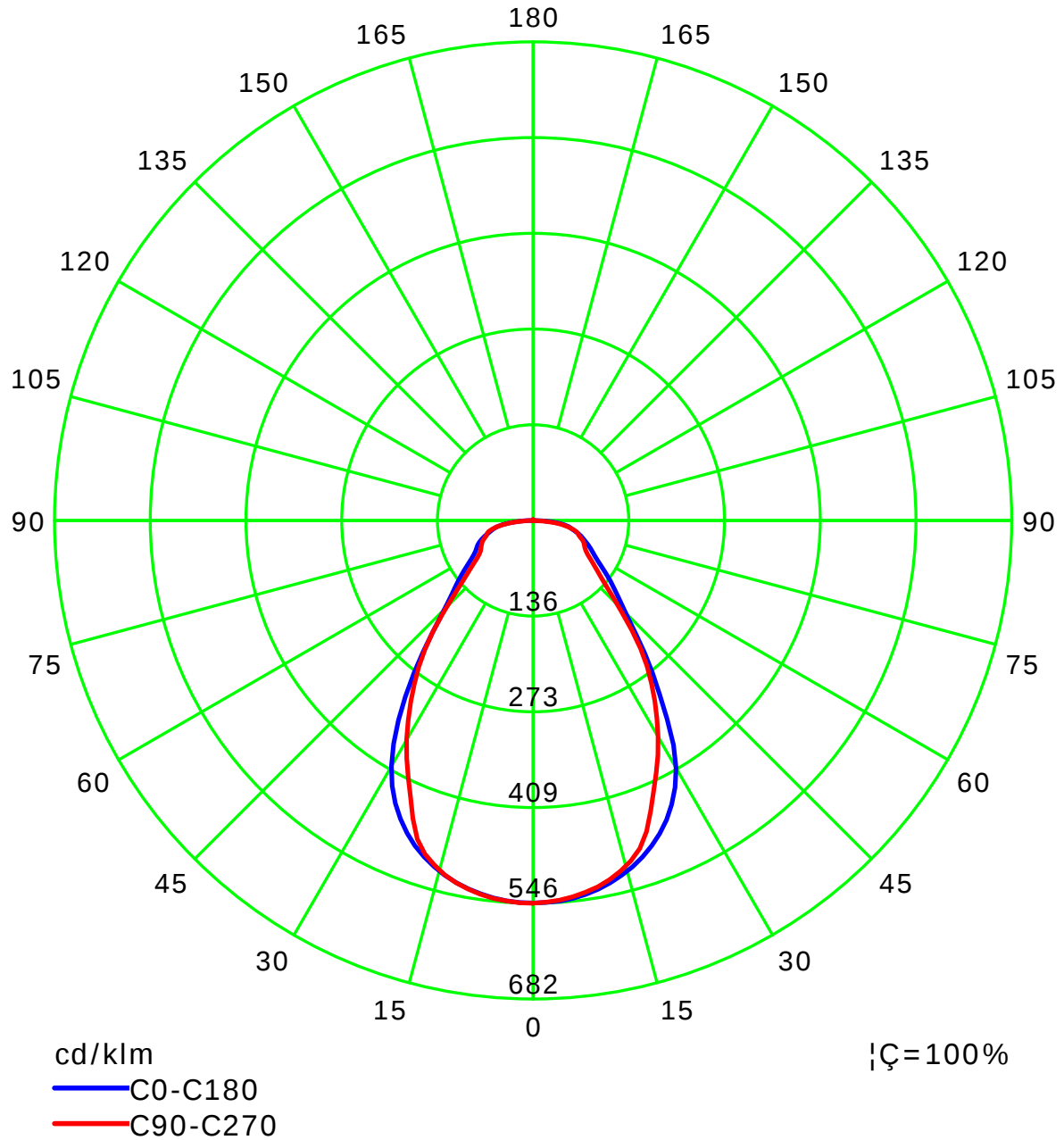
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

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Test Device: LSG-1800B

Distance: 12.677 m

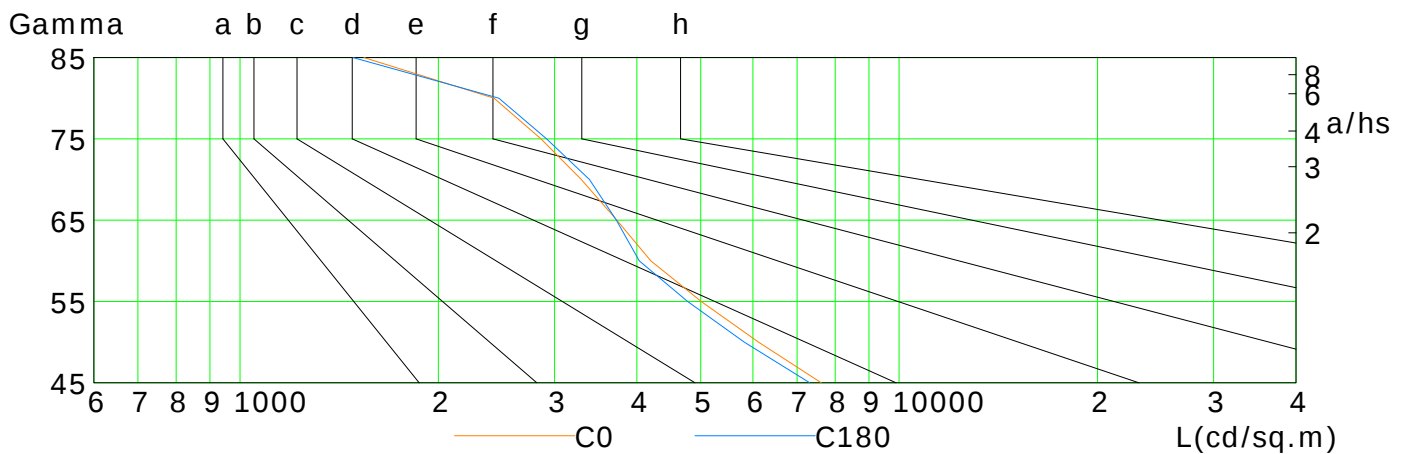
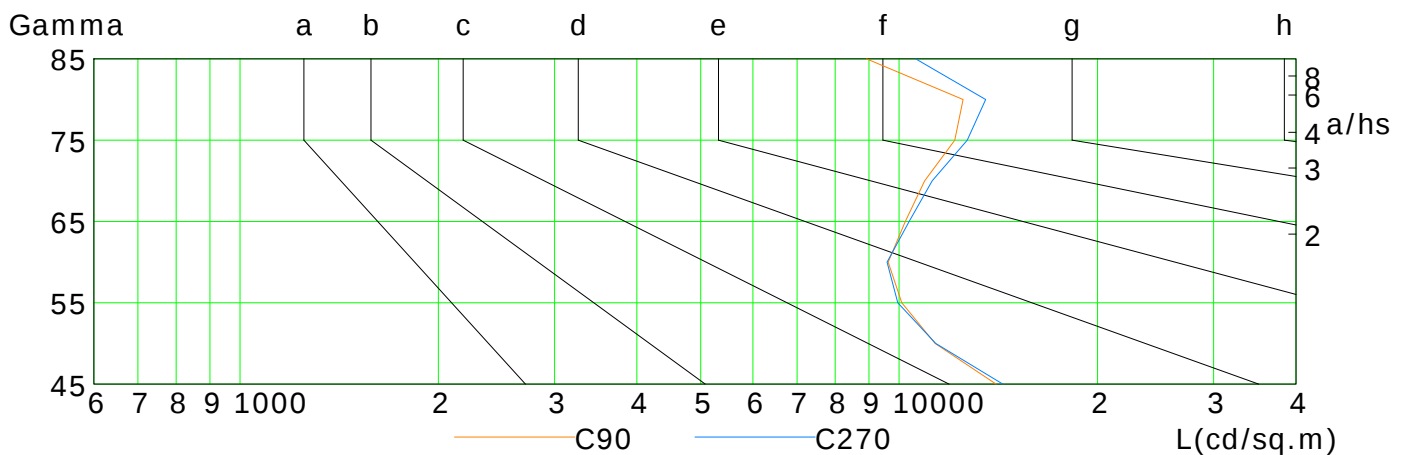
Humidity:

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	7619	6117	5010	4200	3730	3294	2862	2429	1542
C90	14028	11337	10091	9623	10217	10932	12148	12502	8923
C180	7317	5820	4777	4034	3724	3390	2918	2471	1484
C270	14366	11365	9955	9584	10356	11227	12683	13526	10597

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

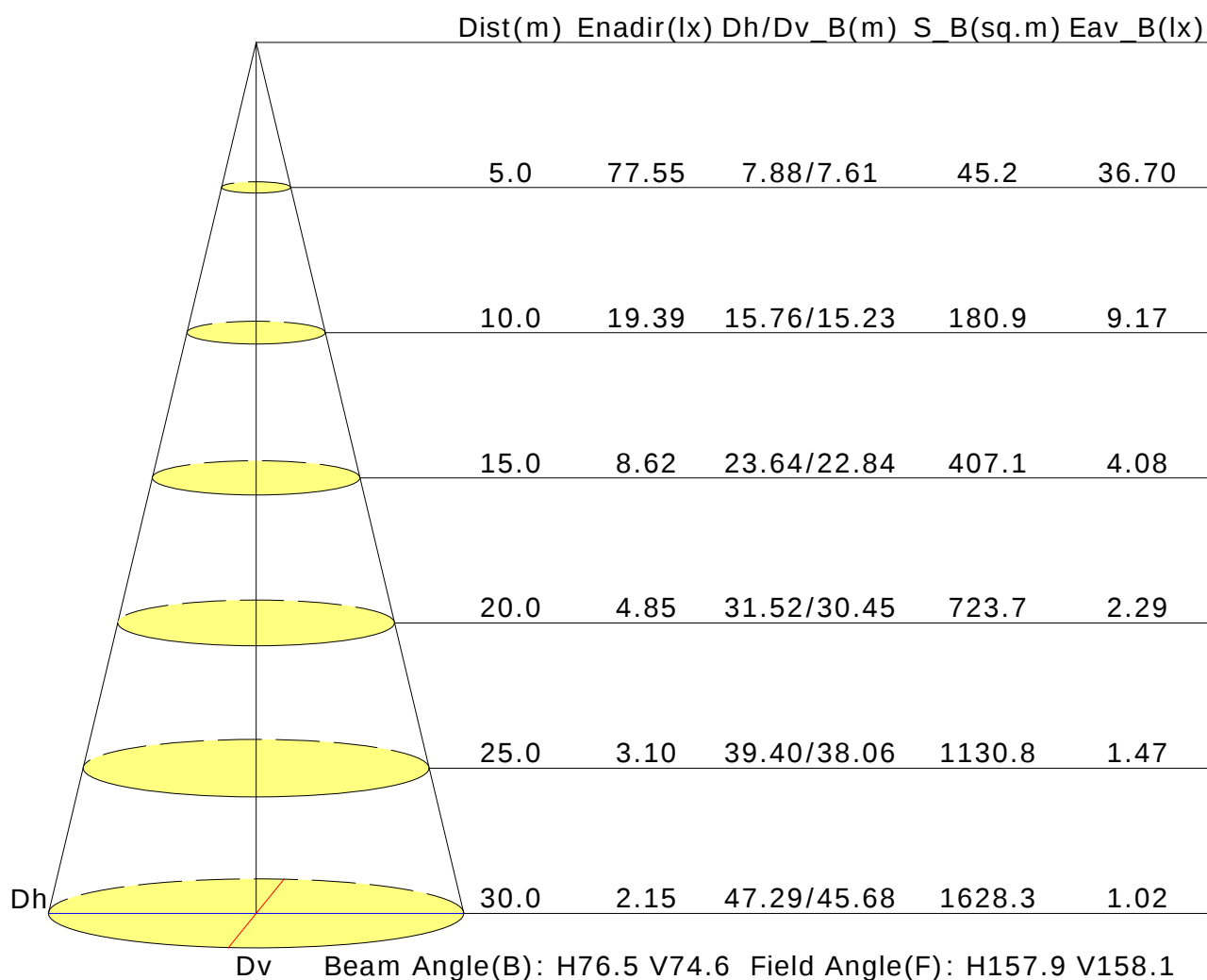
Test Device: LSG-1800B

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	17.7	18.9	18.0	19.2	19.4	18.6	19.8	18.9	20.0	20.3
3H	18.8	19.9	19.1	20.2	20.4	20.2	21.3	20.5	21.6	21.9
4H	19.3	20.4	19.6	20.7	20.9	21.2	22.3	21.6	22.6	22.9
6H	19.8	20.8	20.1	21.1	21.4	22.2	23.2	22.6	23.5	23.9
8H	19.9	20.9	20.3	21.2	21.6	22.6	23.6	23.0	23.9	24.2
12H	20.1	21.0	20.4	21.3	21.7	22.9	23.8	23.3	24.1	24.5
X=4H Y=2H	18.1	19.1	18.4	19.4	19.7	18.8	19.9	19.2	20.2	20.5
3H	19.4	20.3	19.8	20.6	21.0	20.6	21.6	21.0	21.9	22.3
4H	20.1	20.9	20.5	21.2	21.6	21.8	22.6	22.2	23.0	23.4
6H	20.7	21.4	21.1	21.8	22.2	22.9	23.7	23.4	24.1	24.5
8H	20.9	21.6	21.3	22.0	22.4	23.4	24.1	23.8	24.5	24.9
12H	21.1	21.7	21.5	22.1	22.6	23.7	24.3	24.2	24.7	25.2
X=8H Y=4H	20.3	21.0	20.8	21.4	21.8	21.9	22.6	22.4	23.0	23.4
6H	21.1	21.6	21.5	22.1	22.5	23.2	23.7	23.6	24.2	24.6
8H	21.4	21.9	21.9	22.3	22.8	23.7	24.2	24.2	24.6	25.1
12H	21.6	22.1	22.1	22.5	23.0	24.1	24.5	24.6	25.0	25.5
X=12H Y=4H	20.4	21.0	20.8	21.4	21.9	21.9	22.5	22.4	22.9	23.4
6H	21.1	21.6	21.6	22.1	22.6	23.2	23.7	23.7	24.1	24.6
8H	21.5	21.9	22.0	22.4	22.9	23.7	24.1	24.2	24.6	25.1
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.3/-0.3				
S=1.5H	+0.7/-0.8					+0.8/-0.8				
S=2.0H	+1.3/-1.2					+1.3/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 3553lm ($8\log(F/F_0) = 4.4$).

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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	0.90	0.93	0.98	1.01	
	0.20		0.52	0.61	0.67	0.73	0.80	0.85	0.89	0.95	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	0.67	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	0.78	0.81	0.85	0.87	
Rating:31W 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	0.29	0.23	0.19	
	0.20		0.64	0.55	0.49	0.44	0.37	0.31	0.27	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	0.50	0.40	0.33	0.29	0.22	0.18	
	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	0.22	0.19	0.15	0.13	
Rating:31W 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	0.16	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		0.10	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	0.18	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:31W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												