

Report No.:

Test Time: 26.05.2020 14:43

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 2x96LED 0,35A 34W 4000K microprisma

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 220.9 V

Current: 0.158 A

Power: 34.38 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Measurement Flux: 4041.8 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 4041.8 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.2, 158.6, 149.5, 149.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 77.0, 73.8, 74.3, 74.3

Luminaire Efficacy Rating (LER): 117.61

Central Intensity: 2192.3 cd

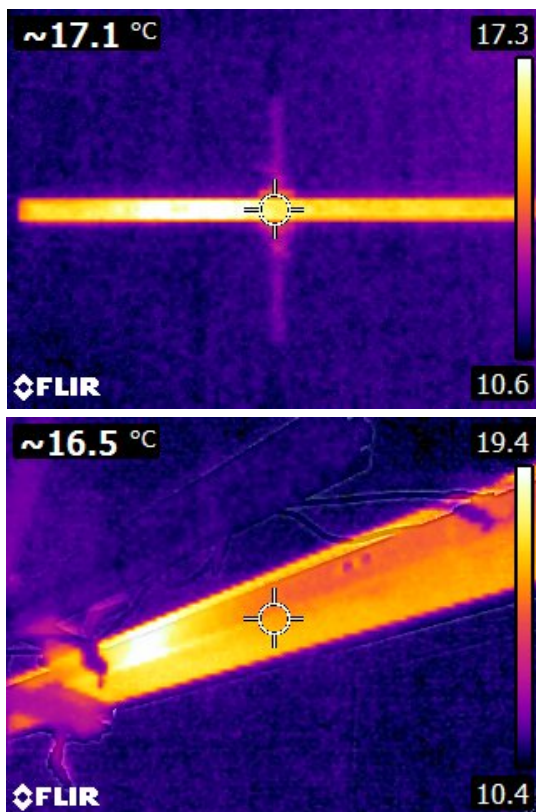
Max. Intensity: 2197.74 cd

Pos of Max. Intensity: H135 V0

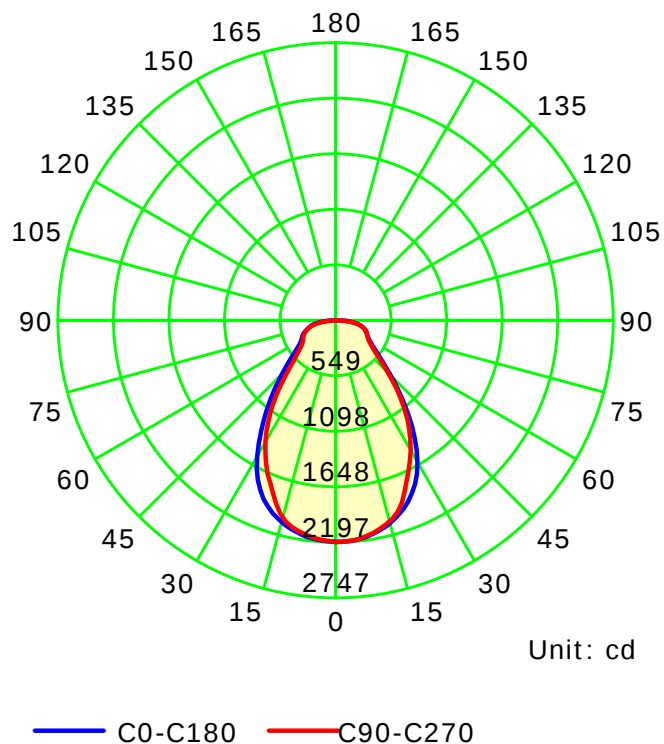
S/MH(C0/C180): 1.11

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

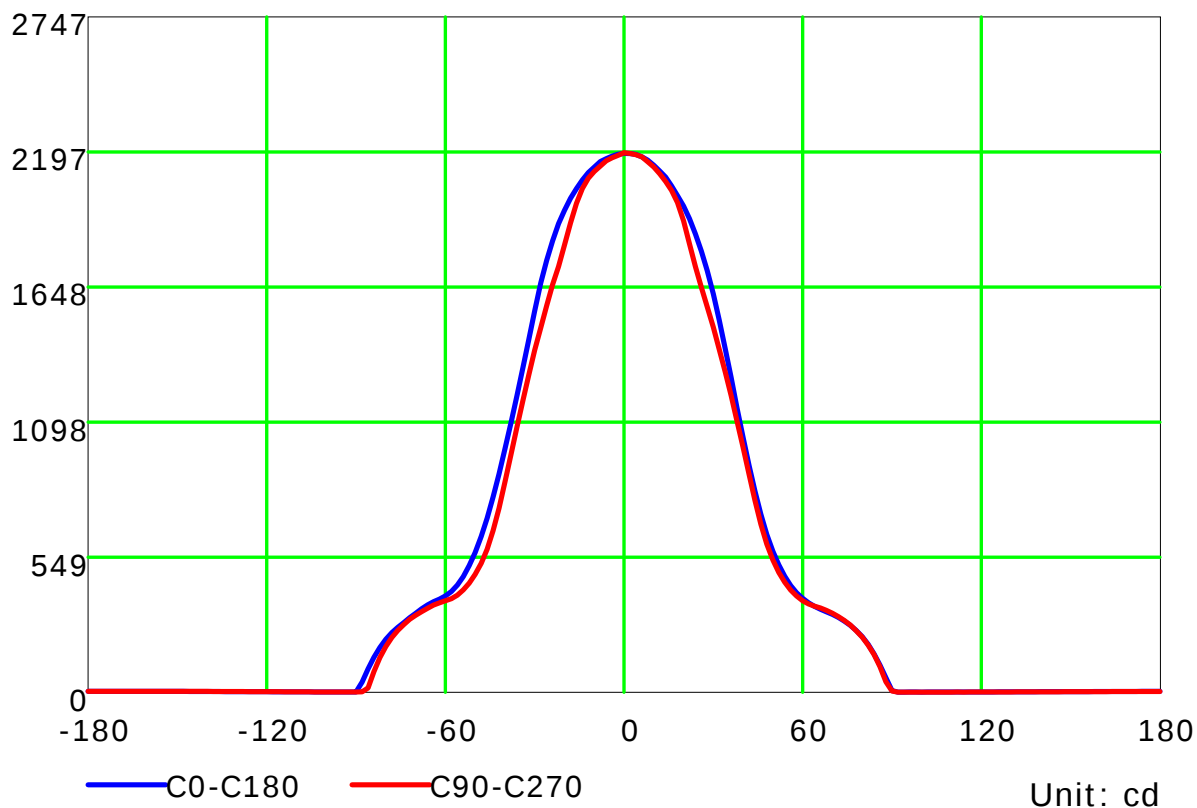
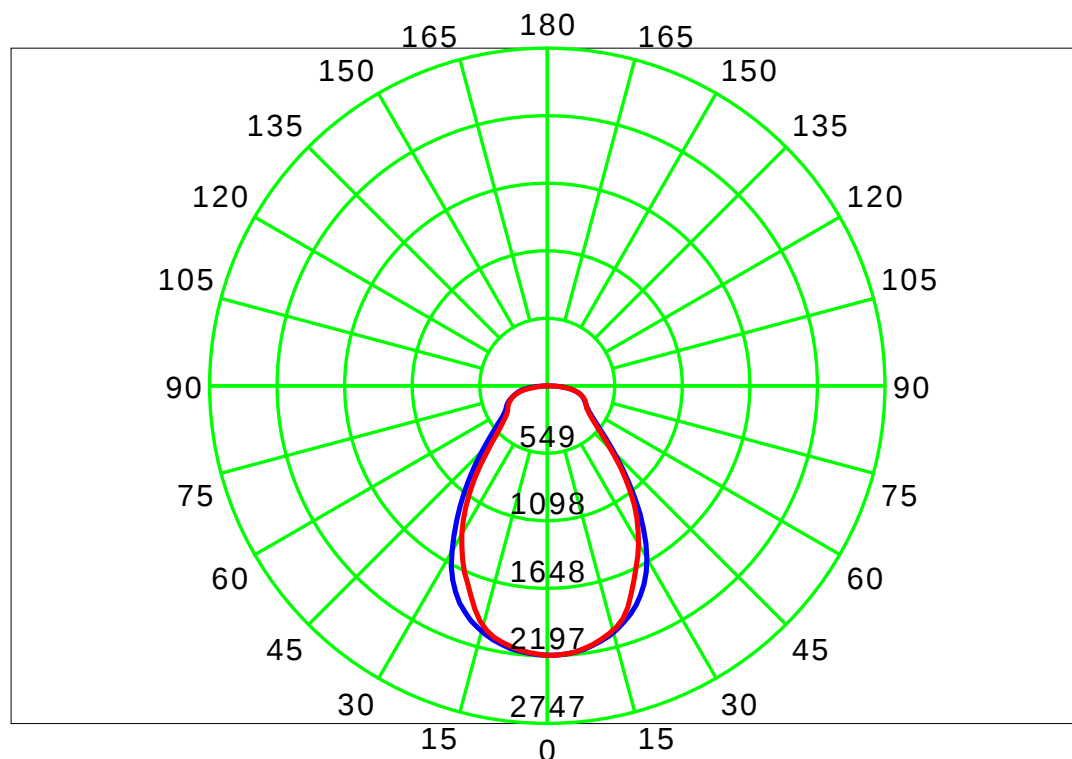
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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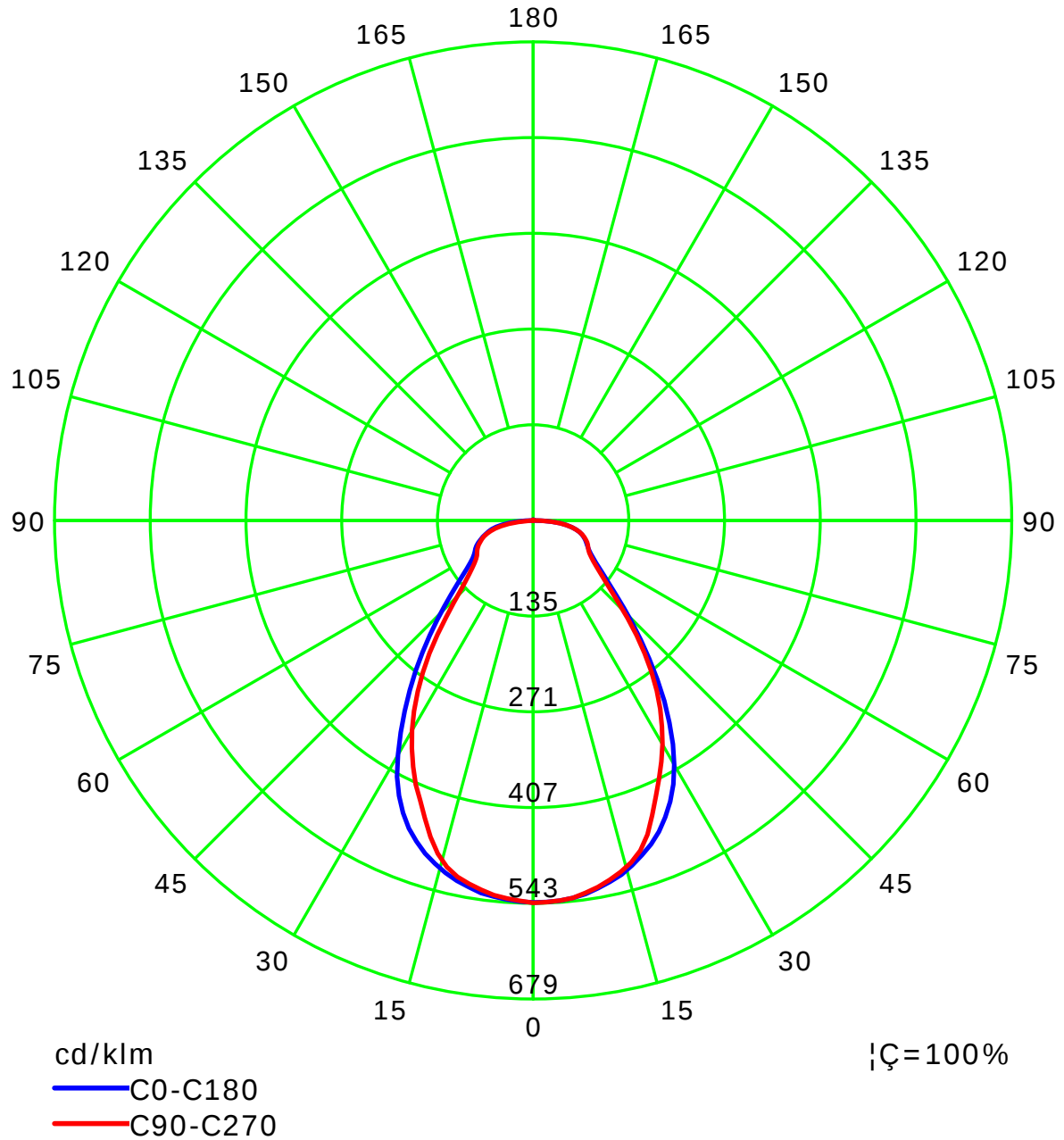
Test Device: LSG-1800B

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

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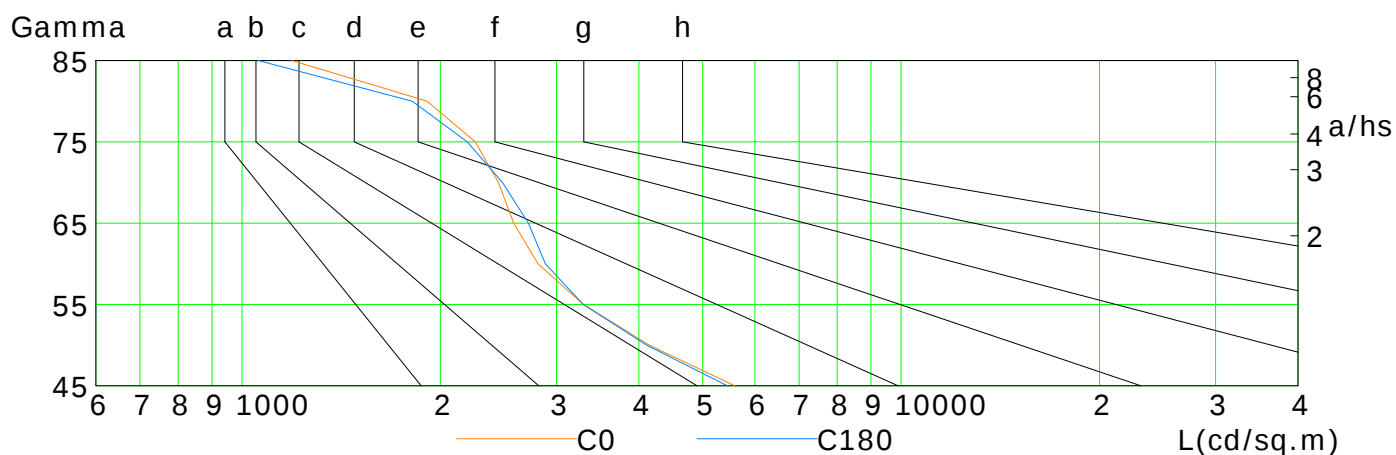
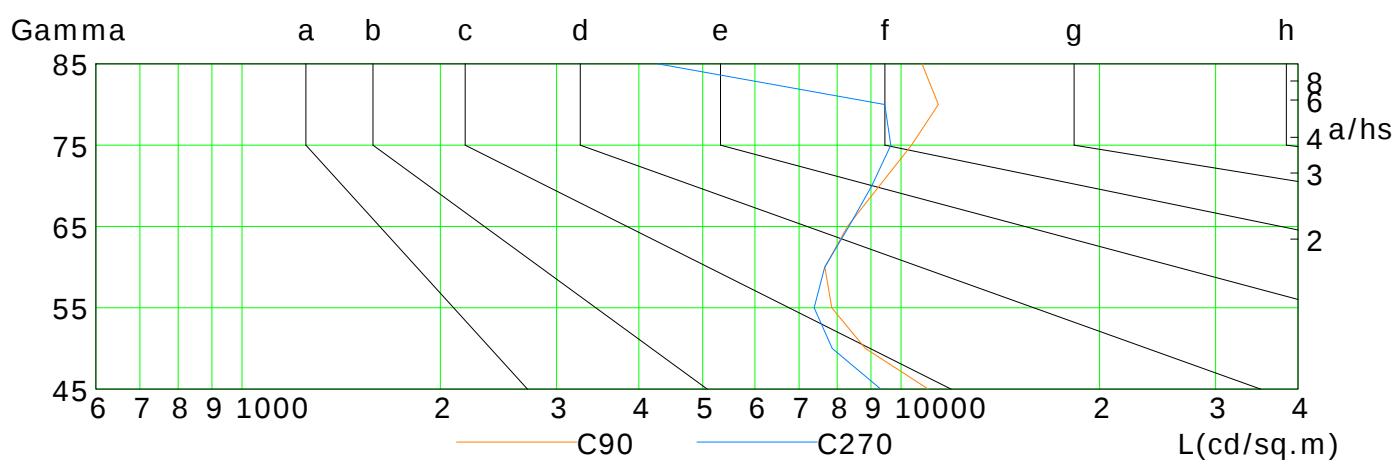
Humidity:

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	5593	4149	3296	2812	2584	2450	2258	1908	1190
C90	10993	8823	7849	7662	8291	9271	10368	11387	10754
C180	5451	4111	3295	2886	2720	2484	2197	1812	1059
C270	9311	7858	7378	7658	8329	9027	9647	9444	4275

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

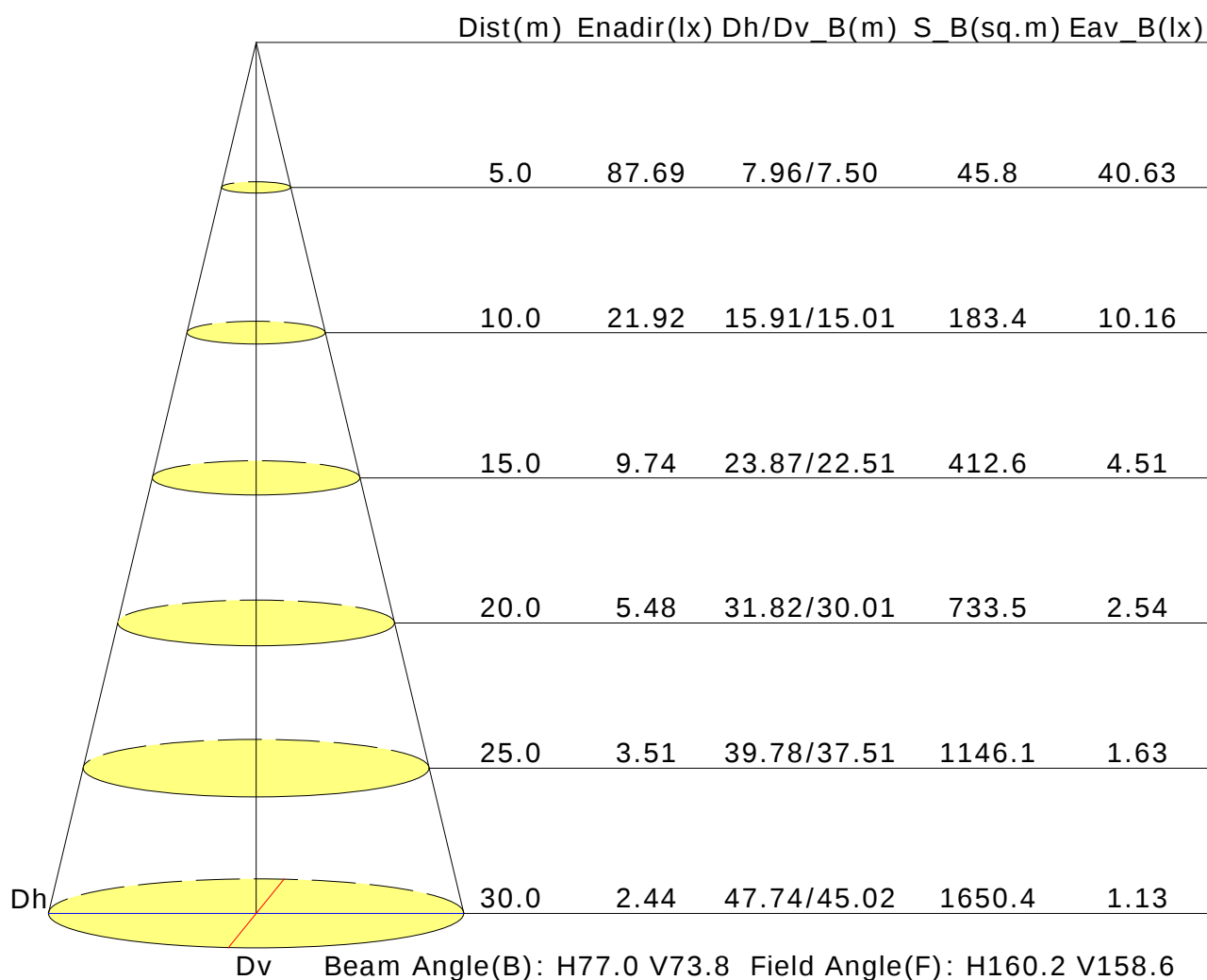
Test Device: LSG-1800B

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	16.5	17.7	16.8	18.0	18.2	17.7	19.0	18.0	19.2	19.4
3H	17.6	18.7	17.9	19.0	19.3	19.5	20.6	19.8	20.9	21.2
4H	18.2	19.3	18.5	19.6	19.9	20.5	21.6	20.9	21.9	22.2
6H	18.8	19.8	19.1	20.1	20.4	21.5	22.5	21.8	22.8	23.1
8H	19.0	19.9	19.3	20.3	20.6	21.9	22.8	22.2	23.1	23.5
12H	19.1	20.0	19.5	20.4	20.7	22.1	23.0	22.5	23.4	23.7
X=4H Y=2H	16.9	18.0	17.2	18.3	18.6	18.0	19.0	18.3	19.3	19.6
3H	18.3	19.2	18.6	19.5	19.9	19.9	20.8	20.3	21.2	21.5
4H	19.0	19.9	19.4	20.2	20.6	21.1	21.9	21.5	22.2	22.6
6H	19.7	20.5	20.2	20.9	21.3	22.1	22.9	22.6	23.3	23.7
8H	20.0	20.7	20.4	21.1	21.5	22.6	23.3	23.0	23.7	24.1
12H	20.2	20.8	20.6	21.2	21.7	22.9	23.5	23.3	23.9	24.4
X=8H Y=4H	19.3	20.0	19.8	20.4	20.8	21.2	21.8	21.6	22.3	22.7
6H	20.1	20.7	20.6	21.1	21.6	22.4	22.9	22.8	23.4	23.8
8H	20.5	21.0	21.0	21.4	21.9	22.9	23.4	23.3	23.8	24.3
12H	20.7	21.2	21.2	21.6	22.2	23.2	23.7	23.7	24.1	24.6
X=12H Y=4H	19.4	20.0	19.8	20.4	20.9	21.2	21.8	21.6	22.2	22.7
6H	20.2	20.7	20.7	21.2	21.7	22.4	22.9	22.9	23.3	23.8
8H	20.6	21.0	21.1	21.5	22.0	22.9	23.3	23.4	23.8	24.3
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.2/-0.2				
S=1.5H	+0.6/-0.9					+0.6/-0.6				
S=2.0H	+1.2/-1.2					+1.1/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 4042lm ($8\log(F/F_0) = 4.9$).

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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	0.63	0.72	0.79	0.83	0.90	0.94	0.98	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	0.98	1.00	
	0.30		0.55	0.64	0.71	0.75	0.82	0.87	0.90	0.94	0.97	
	0.20		0.51	0.60	0.66	0.71	0.78	0.83	0.86	0.92	0.95	
0.30	0.50	0.20	0.60	0.69	0.74	0.78	0.84	0.88	0.90	0.94	0.96	
	0.30		0.55	0.63	0.69	0.74	0.80	0.84	0.87	0.91	0.94	
	0.20		0.50	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	
Rating:34W 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	0.90	0.74	0.64	0.56	0.45	0.37	0.32	0.25	0.21	
	0.30		0.75	0.64	0.56	0.49	0.41	0.34	0.30	0.24	0.20	
	0.20		0.64	0.56	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	0.43	0.39	0.31	0.24	0.20	
	0.30		0.73	0.62	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
	0.20		0.63	0.55	0.48	0.43	0.36	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.84	0.68	0.58	0.51	0.41	0.34	0.29	0.23	0.19	
	0.30		0.71	0.60	0.52	0.46	0.38	0.32	0.27	0.22	0.18	
	0.20		0.63	0.54	0.47	0.42	0.35	0.30	0.26	0.21	0.17	
0.00	0.00	0.00	0.52	0.43	0.38	0.33	0.27	0.23	0.20	0.16	0.13	
Rating:34W 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	0.08	0.10	0.12	0.13	0.14	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:34W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												