

Report No.:

Test Time: 26.05.2020 18:27

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 2x96LED 0,6A 65W 4000K microprisma

Number of Lamps: 1

Luminous Length (mm): 150

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.6 V

Current: 0.300 A

Power: 64.20 W

Power Factor: 0.962

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 6959.2 lm

Measurement Flux: 6959.2 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.4, 159.2, 149.7, 149.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 76.9, 73.8, 74.4, 74.4

Luminaire Efficacy Rating (LER): 108.45

Central Intensity: 3771.65 cd

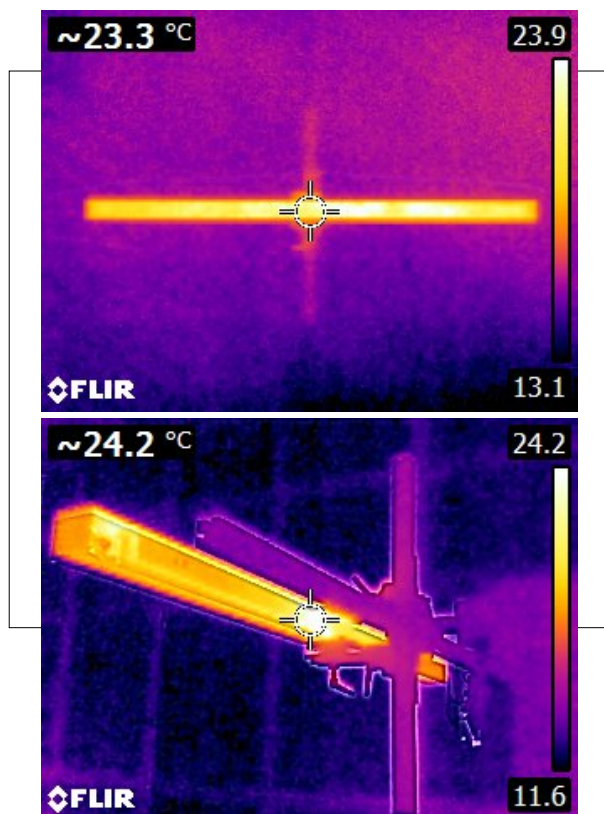
Max. Intensity: 3779.32 cd

Pos of Max. Intensity: H90 V0

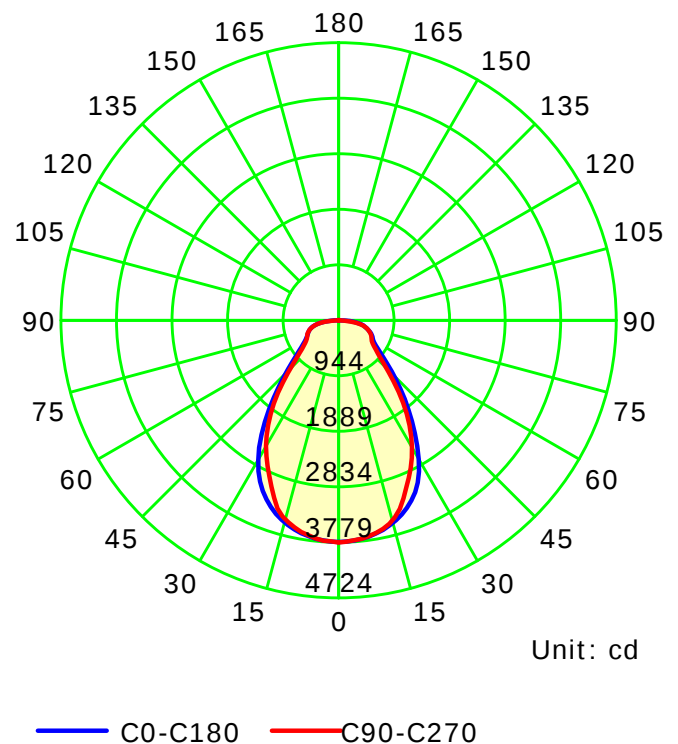
S/MH(C0/C180): 1.11

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

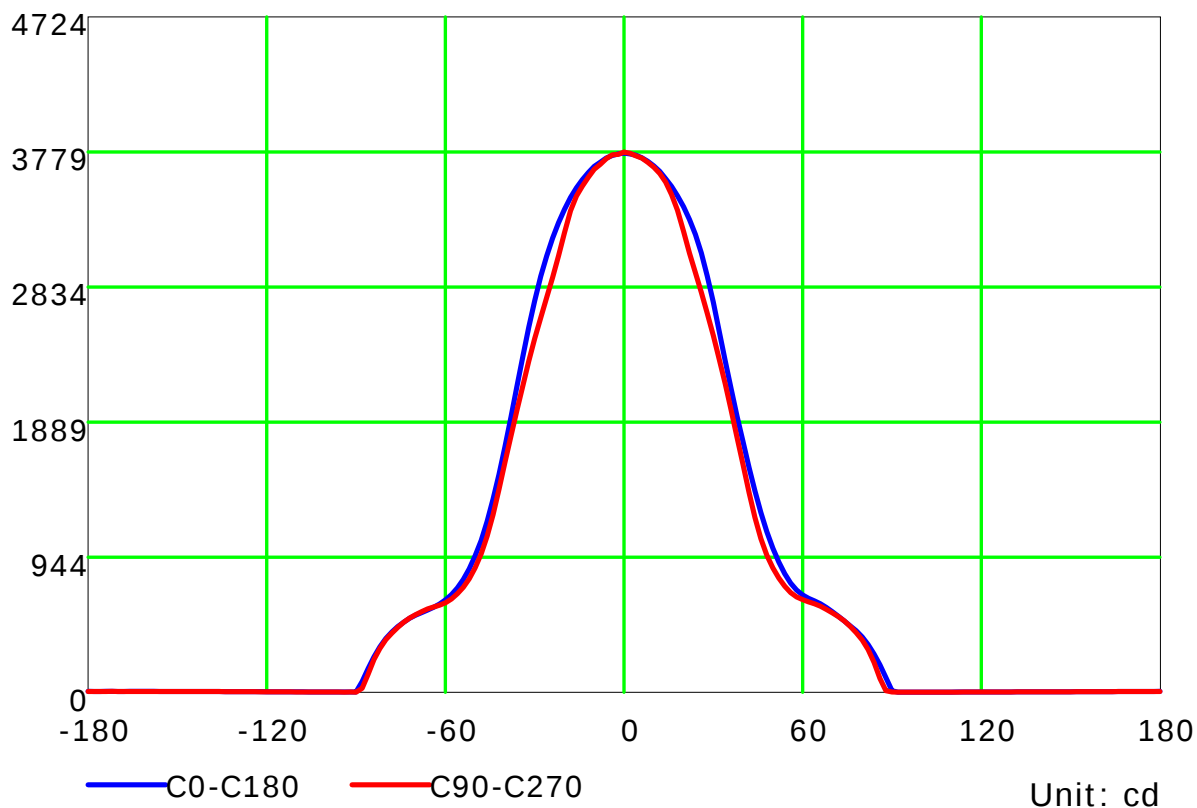
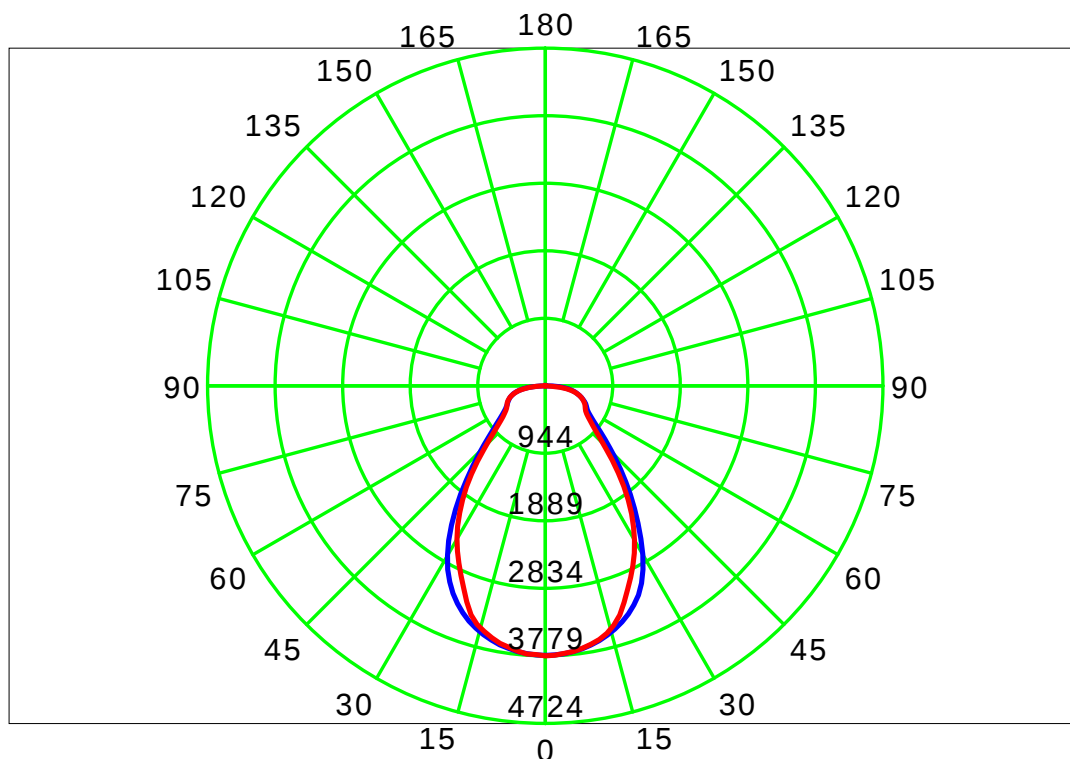
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

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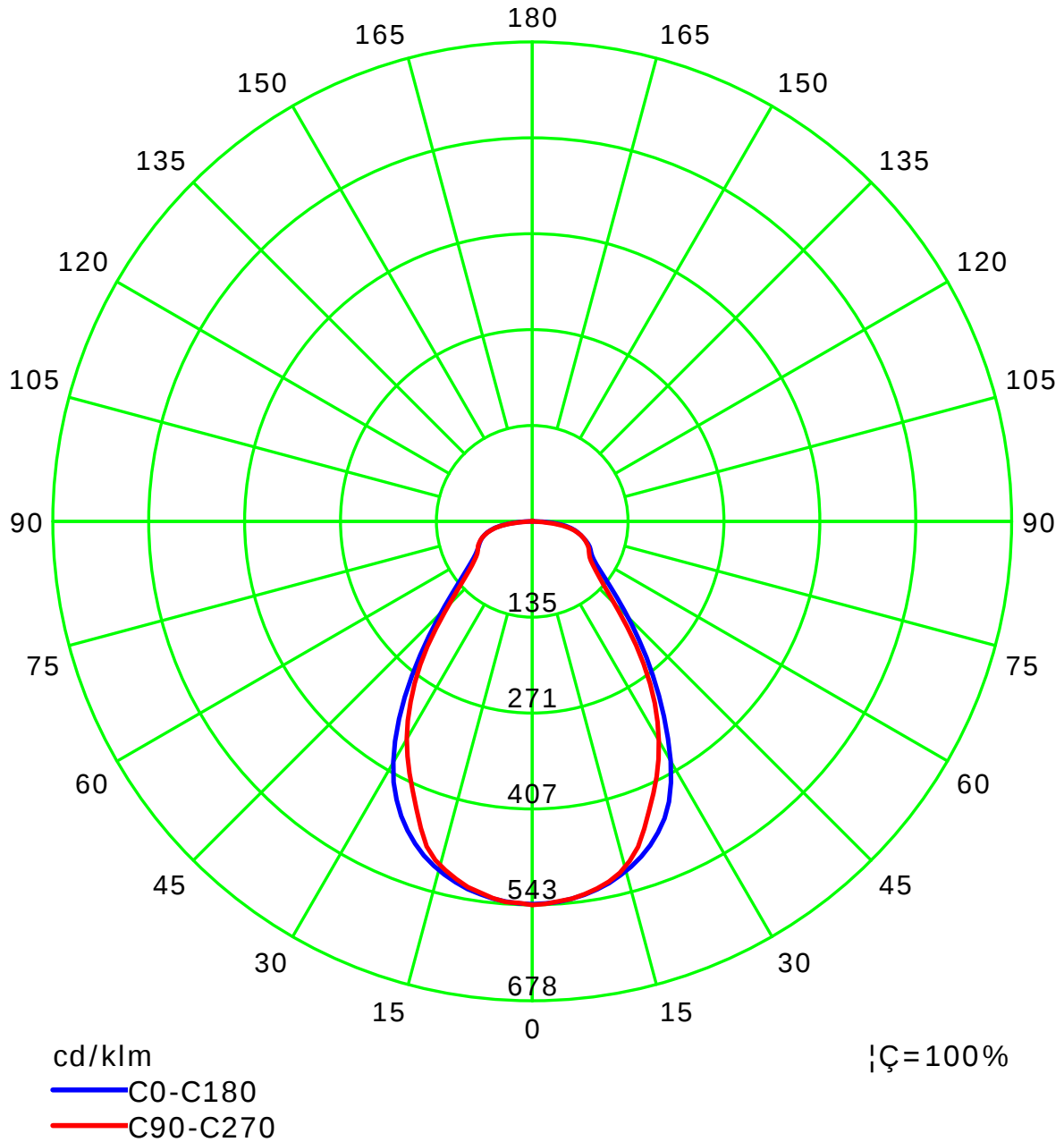
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.677 m

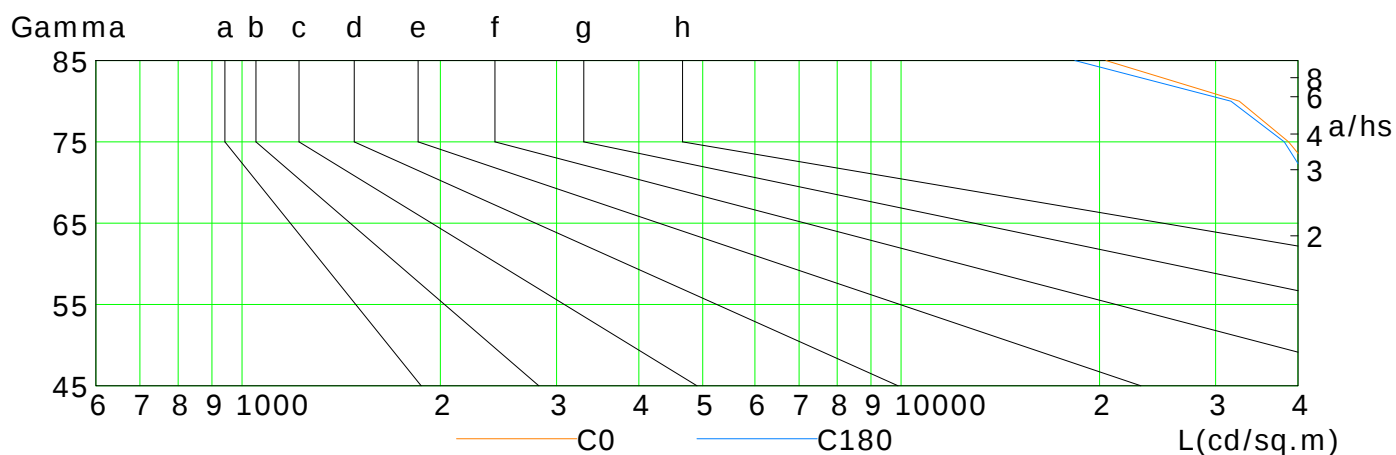
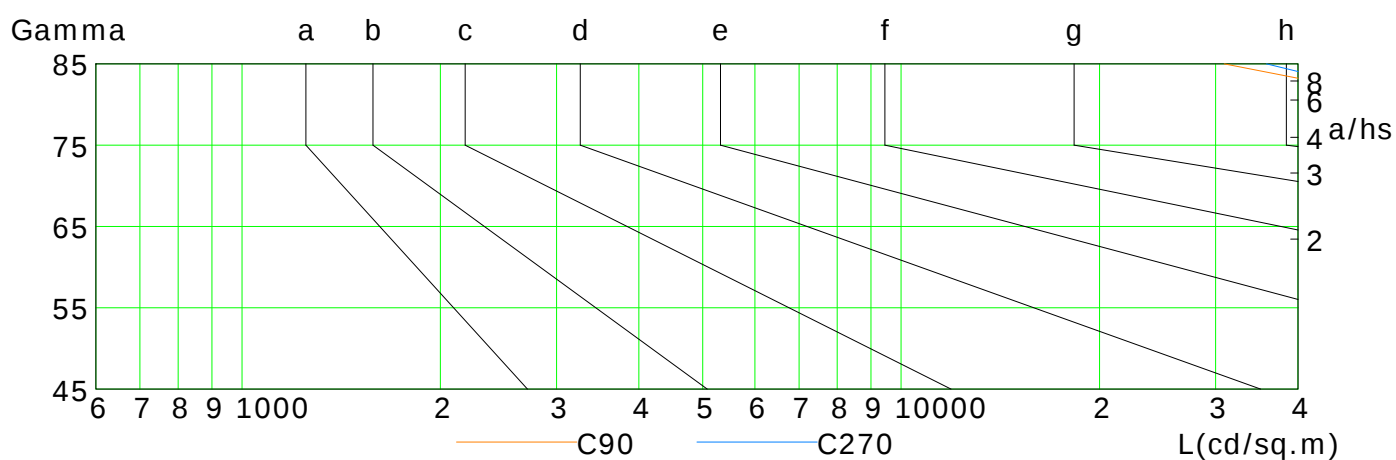
Humidity:

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	96691	72928	57936	50142	47277	43507	38702	32593	20457
C90	123170	96673	83756	79671	80333	79056	75268	64427	30926
C180	92381	69063	55220	47546	43942	41724	38134	31648	18346
C270	125151	96864	82832	77017	77598	77354	74069	64667	35835

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

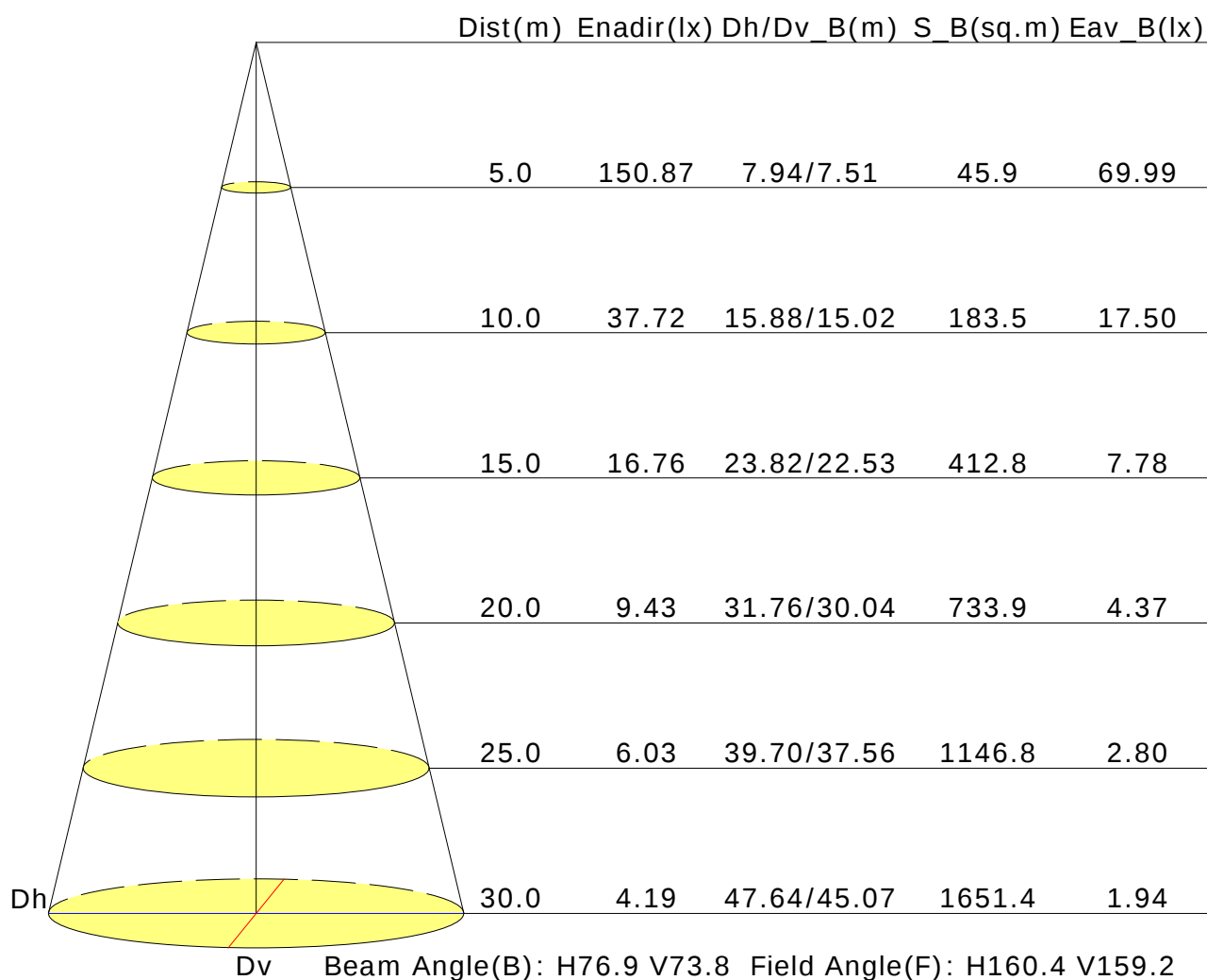
Test Device: LSG-1800B

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	26.2	27.4	26.5	27.7	27.9	26.5	27.8	26.8	28.0	28.2
3H	27.4	28.5	27.7	28.8	29.1	28.0	29.2	28.4	29.4	29.7
4H	28.0	29.1	28.4	29.4	29.7	28.9	29.9	29.2	30.2	30.5
6H	28.6	29.6	28.9	29.9	30.2	29.6	30.6	30.0	30.9	31.2
8H	28.8	29.7	29.1	30.1	30.4	29.9	30.8	30.2	31.1	31.5
12H	28.9	29.8	29.3	30.2	30.5	30.0	30.9	30.4	31.3	31.6
X=4H Y=2H	26.5	27.6	26.9	27.9	28.2	26.8	27.9	27.2	28.2	28.5
3H	28.0	28.9	28.4	29.3	29.6	28.5	29.5	28.9	29.8	30.2
4H	28.7	29.6	29.2	29.9	30.3	29.5	30.4	29.9	30.7	31.1
6H	29.4	30.2	29.9	30.6	31.0	30.4	31.2	30.8	31.5	31.9
8H	29.7	30.4	30.2	30.8	31.2	30.7	31.4	31.2	31.8	32.3
12H	29.9	30.5	30.4	30.9	31.4	30.9	31.5	31.4	32.0	32.4
X=8H Y=4H	29.0	29.7	29.4	30.1	30.5	29.7	30.4	30.1	30.8	31.2
6H	29.8	30.4	30.3	30.8	31.3	30.7	31.3	31.2	31.7	32.2
8H	30.2	30.7	30.7	31.1	31.6	31.1	31.6	31.6	32.1	32.5
12H	30.4	30.9	30.9	31.3	31.8	31.4	31.8	31.9	32.3	32.8
X=12H Y=4H	29.0	29.6	29.5	30.1	30.5	29.7	30.3	30.2	30.7	31.2
6H	29.9	30.4	30.4	30.8	31.3	30.7	31.2	31.2	31.7	32.2
8H	30.3	30.7	30.8	31.2	31.7	31.2	31.6	31.7	32.1	32.6
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					+0.6/-0.6				
S=2.0H	+1.2/-1.0					+1.2/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 6959lm ($8\log(F/F_0) = 6.7$).

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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	0.97	1.02	1.04	
	0.30		0.56	0.65	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	0.86	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	0.88	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:64W 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	0.38	0.32	0.25	0.21	
	0.30		0.75	0.64	0.56	0.50	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	0.87	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		0.64	0.55	0.48	0.43	0.36	0.31	0.27	0.22	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		0.72	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:64W 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		0.09	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	0.11	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	0.17	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:64W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												