

Scaled data based on original data using
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact
Fluorescent Lamps

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: 20068B

Luminaire Tested: **422-CF1/18**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 20068B
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 422-CF1/18
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE PLASTIC CYLINDER LENS

Light Source: ONE 18 WATT CPFL LAMP. LUMEN RATING = 1250 LMS.

Ballast/Driver: -

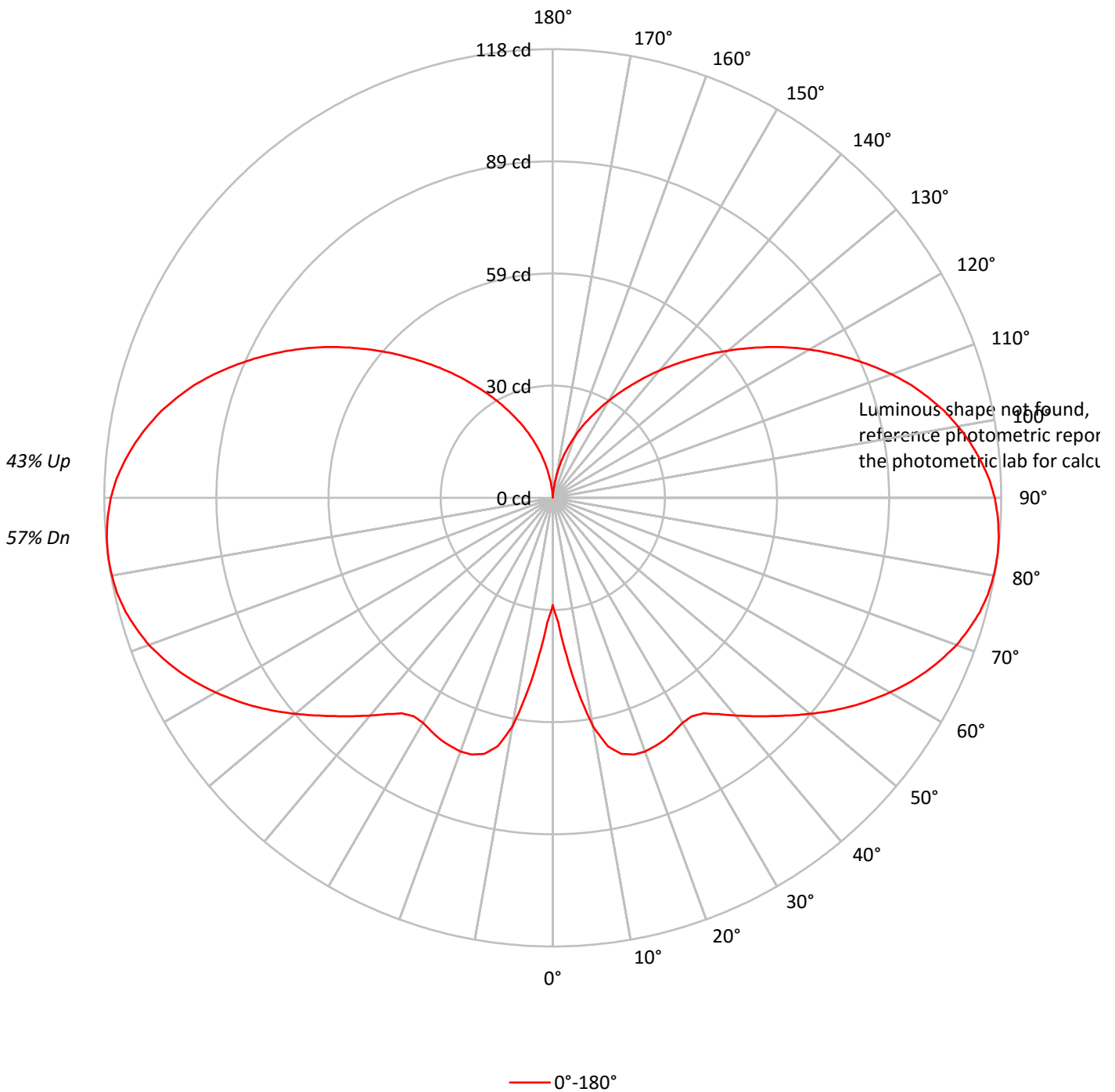
Summary

Lumens per Lamp: 1250 (1 lamp)
Luminaire Lumens: 1065.1 lumens
Efficiency: 85.2%
Efficacy: -
Spacing Criteria (0/90/45): 3.29 / 3.29 / 3.23
Luminous Opening: (L: 0 ' x W: -0.33 ' x H: 0.67 '
CIE Type: General Diffuse

Input Watts (W): 0
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	93	93	93	93	86	86	86	86	74	74	74		63	63	63		53	53	53	49
1	79	74	68	63	73	68	63	59	57	54	50		48	45	42		39	37	35	30
2	70	61	54	48	64	57	50	44	48	42	38		39	35	31		31	28	25	21
3	63	52	44	38	58	48	41	35	40	34	30		33	28	25		26	23	20	16
4	57	45	37	31	52	42	34	28	35	29	24		29	24	20		23	19	16	12
5	52	40	32	25	47	37	29	23	31	25	20		25	20	16		20	16	13	10
6	48	35	27	21	43	33	25	20	27	21	17		22	18	14		18	14	11	8
7	44	32	24	18	40	29	22	17	25	19	14		20	15	12		16	12	9	7
8	41	29	21	16	37	26	20	15	22	17	12		18	14	10		15	11	8	6
9	38	26	19	14	35	24	17	13	20	15	11		17	12	9		14	10	7	5
10	35	24	17	12	32	22	16	11	19	13	10		15	11	8		12	9	6	5

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	4.6	0.4	0.4
10°-20°	19.5	1.8	1.6
20°-30°	32.3	3.0	2.6
30°-40°	44.1	4.1	3.5
40°-50°	63.1	5.9	5.1
50°-60°	85.9	8.1	6.9
60°-70°	107.4	10.1	8.6
70°-80°	122.7	11.5	9.8
80°-90°	128.2	12.0	10.3
90°-100°	123.0	11.6	9.8
100°-110°	108.0	10.1	8.6
110°-120°	86.0	8.1	6.9
120°-130°	62.1	5.8	5.0
130°-140°	40.3	3.8	3.2
140°-150°	23.0	2.2	1.8
150°-160°	11.0	1.0	0.9
160°-170°	3.5	0.3	0.3
170°-180°	0.3	0.0	0.0
0°-30°	56.4	5.3	4.5
0°-40°	100.5	9.4	8.0
0°-60°	249.5	23.4	20.0
0°-90°	607.8	57.1	48.6
90°-120°	317.0	29.8	25.4
90°-150°	442.5	41.5	35.4
90°-180°	457.0	42.9	36.6
0°-180°	1065.1	100.0	85.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	28	
5°	42	5
15°	70	20
25°	70	32
35°	69	44
45°	81	63
55°	96	86
65°	108	107
75°	116	123
85°	118	96
90°	116	64
95°	113	91
105°	102	108
115°	87	86
125°	69	62
135°	52	40
145°	36	23
155°	23	11
165°	12	4
175°	1	0
180°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	28.2
2.5°	32.7
5°	41.7
7.5°	51.6
10°	61.0
12.5°	66.9
15°	69.7
17.5°	70.8
20°	71.0
22.5°	70.6
25°	70.1
27.5°	69.2
30°	68.3
32.5°	68.1
35°	69.2
37.5°	71.7
40°	74.7
42.5°	77.9
45°	81.2
47.5°	84.7
50°	88.4
52.5°	92.1
55°	95.7
57.5°	99.1
60°	102.4
62.5°	105.5
65°	108.3
67.5°	110.8
70°	113.1
72.5°	114.8
75°	116.3
77.5°	117.3
80°	117.8
82.5°	118.0
85°	117.8
87.5°	117.2
90°	116.3
92.5°	114.9
95°	113.0
97.5°	110.8
100°	108.3
102.5°	105.5
105°	102.2
107.5°	98.8
110°	94.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	90.8
115°	86.6
117.5°	82.3
120°	78.0
122.5°	73.6
125°	69.1
127.5°	64.6
130°	60.2
132.5°	55.9
135°	51.6
137.5°	47.6
140°	43.7
142.5°	39.9
145°	36.3
147.5°	32.8
150°	29.5
152.5°	26.3
155°	23.2
157.5°	20.3
160°	17.4
162.5°	14.6
165°	11.9
167.5°	9.0
170°	6.5
172.5°	4.0
175°	1.4
177.5°	0.2
180°	0.1

(END OF REPORT)