

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: 29636

Luminaire Tested: **340-4-CFL/1/26-CYF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-66-11  
Report Number: 29636  
Test Lab: LIGHTING SCIENCES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 340-4-CFL/1/26-CYF  
Description: SHAPER 4" CFL RECESSED GLASS DOWNLIGHT WITH FROSTED GLASS CYLINDER  
Light Source: ONE SYLVANIA 26W CFL

CF26DT/E. LUMEN RATING = 1800 LMS.

Ballast/Driver: -

**Summary**

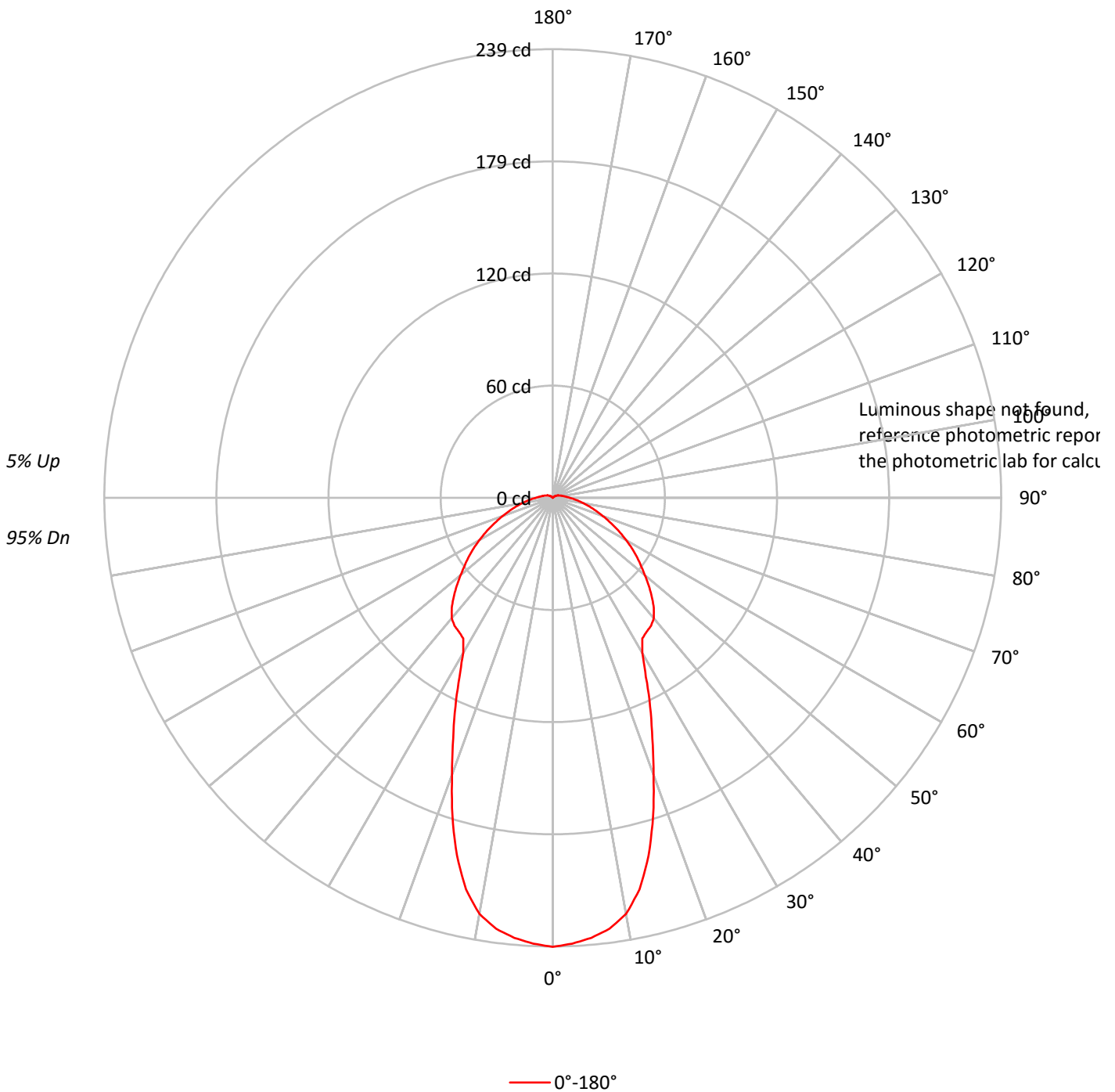
Lumens per Lamp: 1800 (1 lamp)  
Luminaire Lumens: 384.9 lumens  
Efficiency: 21.4%  
Efficacy: 15.4 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84  
Luminous Opening: (L: 0' x W: -0.34' x H: 0.12'  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	25	25	25	25	25	25	25	25	23	23	23	22	22	22	21	21	21	20
1	23	22	21	20	22	21	21	20	20	20	19	19	19	18	18	18	18	17
2	21	19	18	17	20	19	18	17	18	17	16	17	16	16	16	16	15	15
3	19	17	16	14	19	17	15	14	16	15	14	15	14	13	15	14	13	13
4	18	15	14	12	17	15	13	12	14	13	12	14	13	12	13	12	11	11
5	17	14	12	11	16	14	12	11	13	12	11	13	11	10	12	11	10	10
6	15	13	11	10	15	13	11	10	12	11	9	12	10	9	11	10	9	9
7	14	12	10	9	14	11	10	9	11	10	9	11	9	8	10	9	8	8
8	14	11	9	8	13	11	9	8	10	9	8	10	9	8	10	8	8	7
9	13	10	8	7	12	10	8	7	10	8	7	9	8	7	9	8	7	7
10	12	9	8	7	12	9	8	7	9	8	7	9	7	6	8	7	6	6

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	22.2	5.8	1.2
10°-20°	54.3	14.1	3.0
20°-30°	56.4	14.7	3.1
30°-40°	55.1	14.3	3.1
40°-50°	57.4	14.9	3.2
50°-60°	48.8	12.7	2.7
60°-70°	36.1	9.4	2.0
70°-80°	23.4	6.1	1.3
80°-90°	13.6	3.5	0.8
90°-100°	7.7	2.0	0.4
100°-110°	4.8	1.2	0.3
110°-120°	2.9	0.8	0.2
120°-130°	1.6	0.4	0.1
130°-140°	0.5	0.1	0.0
140°-150°	0.1	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	132.8	34.5	7.4
0°-40°	187.9	48.8	10.4
0°-60°	294.1	76.4	16.3
0°-90°	367.2	95.4	20.4
90°-120°	15.5	4.0	0.9
90°-150°	17.7	4.6	1.0
90°-180°	18.0	4.7	1.0
0°-180°	384.9	100.0	21.4

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	239	
5°	235	22
15°	197	54
25°	123	56
35°	87	55
45°	75	57
55°	55	49
65°	36	36
75°	22	23
85°	12	11
90°	9	5
95°	7	5
105°	4	5
115°	3	3
125°	2	2
135°	1	1
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	239.2
2.5°	237.7
5°	235.3
7.5°	231.5
10°	225.1
12.5°	213.6
15°	197.3
17.5°	177.8
20°	156.9
22.5°	138.5
25°	122.7
27.5°	107.5
30°	95.3
32.5°	88.8
35°	87.1
37.5°	86.0
40°	83.7
42.5°	79.7
45°	74.7
47.5°	69.4
50°	64.1
52.5°	59.1
55°	54.6
57.5°	49.9
60°	45.2
62.5°	40.7
65°	36.3
67.5°	32.2
70°	28.4
72.5°	25.1
75°	21.9
77.5°	19.1
80°	16.5
82.5°	14.3
85°	12.3
87.5°	10.6
90°	9.0
92.5°	7.9
95°	7.0
97.5°	6.2
100°	5.5
102.5°	5.0
105°	4.5
107.5°	4.1
110°	3.6



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	3.3
115°	3.0
117.5°	2.6
120°	2.3
122.5°	2.1
125°	1.8
127.5°	1.4
130°	1.2
132.5°	0.9
135°	0.6
137.5°	0.4
140°	0.3
142.5°	0.2
145°	0.1
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)