

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: 29632

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-66-11  
Report Number: 29632  
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-FIFO  
Description: SHAPER 4" CFL RECESSED GLASS DOWNLIGHT WITH FROSTED  
INNER FLUTED GLASS AND FROSTED OUTER GLASS CYLINDER  
Light Source: ONE SYLVANIA 26W CFL  
  
CF26DT/E. LUMEN RATING = 1800 LMS.  
  
Ballast/Driver: -

**Summary**

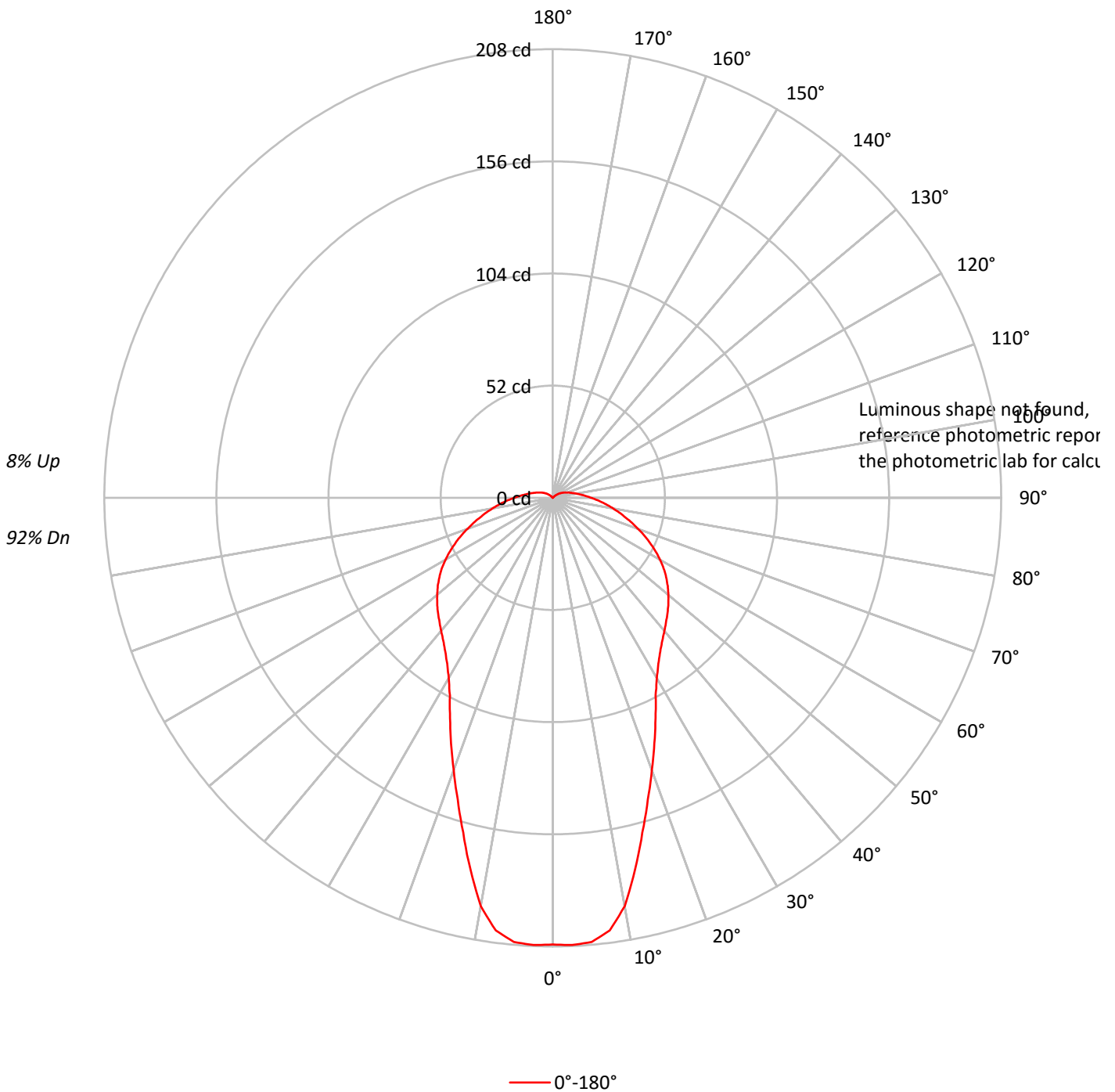
Lumens per Lamp: 1800 (1 lamp)  
Luminaire Lumens: 432.4 lumens  
Efficiency: 24.0%  
Efficacy: 17.2 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.94  
Luminous Opening: (L: 0' x W: -0.34' x H: 0.25'  
CIE Type: Direct

Input Watts (W): 25.1  
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	28	28	28	28	27	27	27	27	26	26	26	24	24	24	23	23	23	22
1	25	24	23	22	24	23	22	21	22	21	20	21	20	19	19	19	18	18
2	23	21	19	18	22	20	19	17	19	18	16	18	17	16	17	16	15	15
3	21	18	16	15	20	18	16	14	17	15	14	16	14	13	15	14	13	12
4	19	16	14	12	18	16	14	12	15	13	12	14	13	11	13	12	11	10
5	18	15	12	11	17	14	12	11	13	12	10	13	11	10	12	11	10	9
6	16	13	11	9	16	13	11	9	12	10	9	12	10	9	11	10	9	8
7	15	12	10	8	15	12	10	8	11	9	8	11	9	8	10	9	8	7
8	14	11	9	8	14	11	9	7	10	9	7	10	8	7	9	8	7	7
9	13	10	8	7	13	10	8	7	10	8	7	9	8	7	9	7	6	6
10	13	9	8	6	12	9	7	6	9	7	6	9	7	6	8	7	6	5

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	19.3	4.5	1.1
10°-20°	45.0	10.4	2.5
20°-30°	52.1	12.0	2.9
30°-40°	54.8	12.7	3.0
40°-50°	58.2	13.5	3.2
50°-60°	57.3	13.3	3.2
60°-70°	49.4	11.4	2.7
70°-80°	37.0	8.6	2.1
80°-90°	24.9	5.8	1.4
90°-100°	15.5	3.6	0.9
100°-110°	9.5	2.2	0.5
110°-120°	5.7	1.3	0.3
120°-130°	2.8	0.7	0.2
130°-140°	0.8	0.2	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°	116.4	26.9	6.5
0°-40°	171.1	39.6	9.5
0°-60°	286.6	66.3	15.9
0°-90°	398.0	92.0	22.1
90°-120°	30.7	7.1	1.7
90°-150°	34.4	8.0	1.9
90°-180°	34.0	7.9	1.9
0°-180°	432.4	100.0	24.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	207	
5°	207	19
15°	161	45
25°	113	52
35°	87	55
45°	75	58
55°	64	57
65°	50	49
75°	35	37
85°	23	20
90°	18	10
95°	14	11
105°	9	10
115°	6	6
125°	3	3
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°	207.1
2.5°	207.5
5°	206.7
7.5°	202.3
10°	192.2
12.5°	176.5
15°	160.6
17.5°	146.6
20°	134.3
22.5°	123.2
25°	112.7
27.5°	103.3
30°	96.4
32.5°	91.1
35°	86.9
37.5°	83.4
40°	80.5
42.5°	77.8
45°	75.3
47.5°	72.7
50°	70.0
52.5°	67.2
55°	64.2
57.5°	61.0
60°	57.5
62.5°	53.8
65°	49.9
67.5°	46.1
70°	42.1
72.5°	38.4
75°	34.8
77.5°	31.6
80°	28.4
82.5°	25.5
85°	22.7
87.5°	20.2
90°	17.8
92.5°	15.8
95°	14.0
97.5°	12.5
100°	11.1
102.5°	10.0
105°	8.9
107.5°	8.0
110°	7.1



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	6.4
115°	5.7
117.5°	5.1
120°	4.4
122.5°	3.9
125°	3.2
127.5°	2.4
130°	1.8
132.5°	1.4
135°	0.8
137.5°	0.5
140°	0.4
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)