

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: 29633

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-66-11  
Report Number: 29633  
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-CICO  
Description: SHAPER 4" CFL RECESSED GLASS DOWNLIGHT WITH CLEAR  
INNER FLUTED GLASS AND CLEAR 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: 526.8 lumens  
Efficiency: 29.3%  
Efficacy: 21.0 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.33  
Luminous Opening: (L: 0' x W: -0.34' x H: 0.12'  
CIE Type: Direct

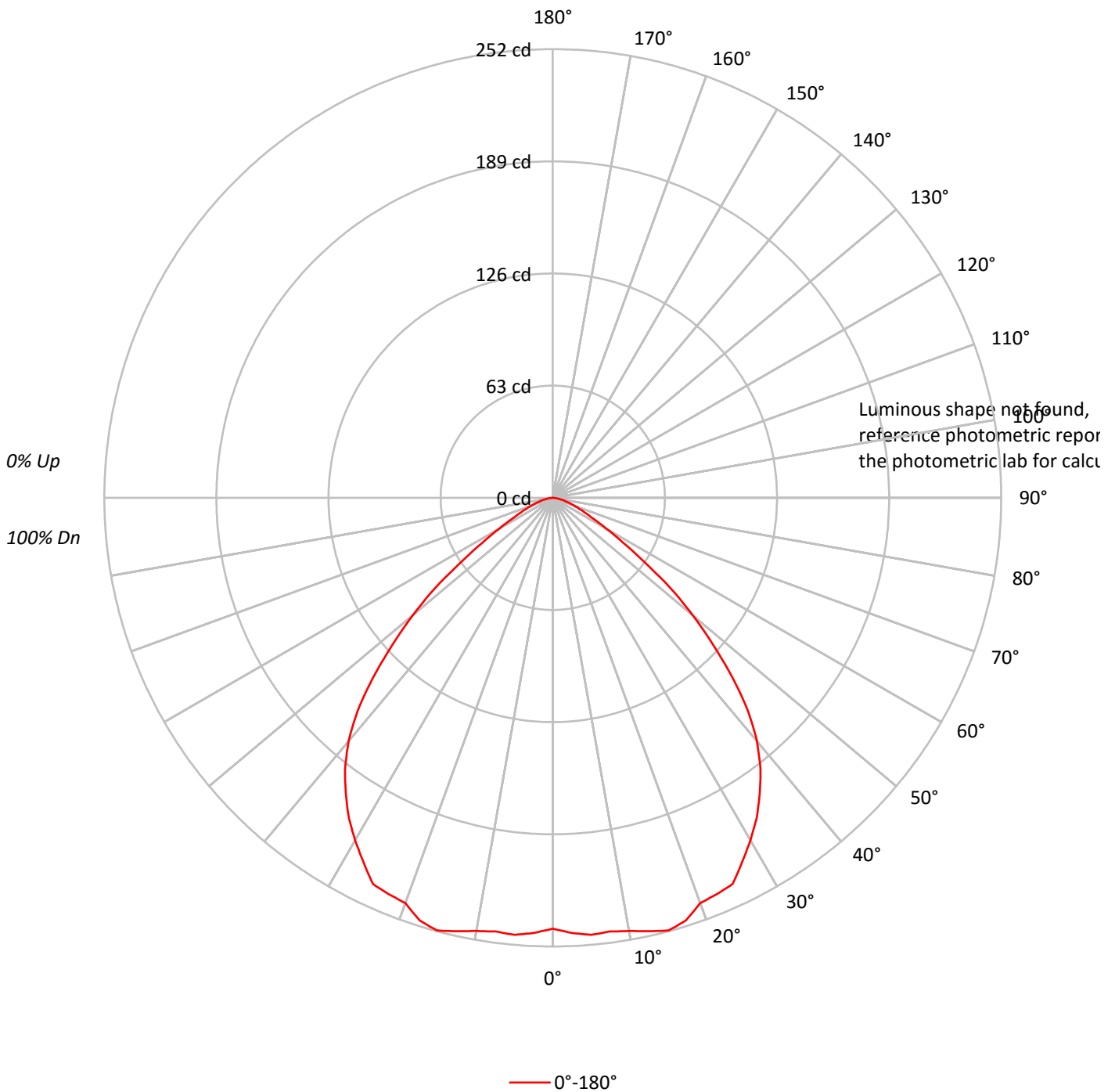
Input Watts (W): 25.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: 29633

CATALOG NUMBER: 340-4-CFL/1/26-CICO

### 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	35	35	35	35	34	34	34	34	33	33	33	31	31	31	30	30	30	29
1	33	32	31	30	32	31	30	29	30	29	28	29	28	27	28	27	27	26
2	30	28	27	25	30	28	26	25	27	26	25	26	25	24	25	24	24	23
3	28	26	24	22	27	25	23	22	24	23	21	24	22	21	23	22	21	20
4	26	23	21	19	25	23	21	19	22	20	19	21	20	19	21	20	18	18
5	24	21	19	17	24	21	19	17	20	18	17	20	18	17	19	18	16	16
6	22	19	17	15	22	19	17	15	18	16	15	18	16	15	17	16	15	14
7	21	17	15	14	20	17	15	14	17	15	13	16	15	13	16	14	13	13
8	20	16	14	12	19	16	14	12	15	14	12	15	13	12	15	13	12	12
9	18	15	13	11	18	15	13	11	14	12	11	14	12	11	14	12	11	10
10	17	14	12	10	17	14	12	10	13	11	10	13	11	10	13	11	10	10

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





TEST NUMBER: 29633

CATALOG NUMBER: 340-4-CFL/1/26-CICO

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	23.5	4.5	1.3
10°-20°	70.4	13.4	3.9
20°-30°	108.8	20.7	6.0
30°-40°	126.4	24.0	7.0
40°-50°	109.2	20.7	6.1
50°-60°	58.0	11.0	3.2
60°-70°	21.3	4.0	1.2
70°-80°	8.0	1.5	0.4
80°-90°	1.2	0.2	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	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°	202.7	38.5	11.3
0°-40°	329.1	62.5	18.3
0°-60°	496.2	94.2	27.6
0°-90°	526.8	100.0	29.3
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	526.8	100.0	29.3

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	242	
5°	246	23
15°	252	70
25°	239	109
35°	203	126
45°	143	109
55°	62	58
65°	20	21
75°	7	8
85°	1	1
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	242.0
2.5°	244.6
5°	246.4
7.5°	245.7
10°	247.0
12.5°	249.3
15°	251.6
17.5°	248.9
20°	242.2
22.5°	240.9
25°	239.3
27.5°	230.5
30°	222.1
32.5°	213.2
35°	202.8
37.5°	191.7
40°	178.5
42.5°	162.4
45°	143.0
47.5°	122.2
50°	102.5
52.5°	83.3
55°	62.4
57.5°	46.8
60°	34.9
62.5°	26.2
65°	20.4
67.5°	16.1
70°	12.6
72.5°	9.6
75°	7.4
77.5°	5.4
80°	3.6
82.5°	2.0
85°	0.7
87.5°	0.0
90°	0.0

(END OF REPORT)