

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: 29638

Luminaire Tested: **340-6-CFL/1/42-CICO**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-66-11  
Report Number: 29638  
Test Lab: LIGHTING SCIENCES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 340-6-CFL/1/42-CICO  
Description: SHAPER 6" CFL RECESSED GLASS DOWNLIGHT WITH CLEAR  
INNER FLUTED FLASS AND CLEAR OUTER GLASS CYLINDER  
Light Source: ONE SYLVANIA 42W CFL

CF42DT/E. LUMEN RATING = 3200 LMS.

Ballast/Driver: -

**Summary**

Lumens per Lamp: 3200 (1 lamp)  
Luminaire Lumens: 827.1 lumens  
Efficiency: 25.8%  
Efficacy: 20.9 lumens/watt  
Spacing Criteria (0/90/45): 1.38 / 1.38 / 1.37  
Luminous Opening: (L: 0 ' x W: -0.46 ' x H: 0.14 '  
CIE Type: Direct

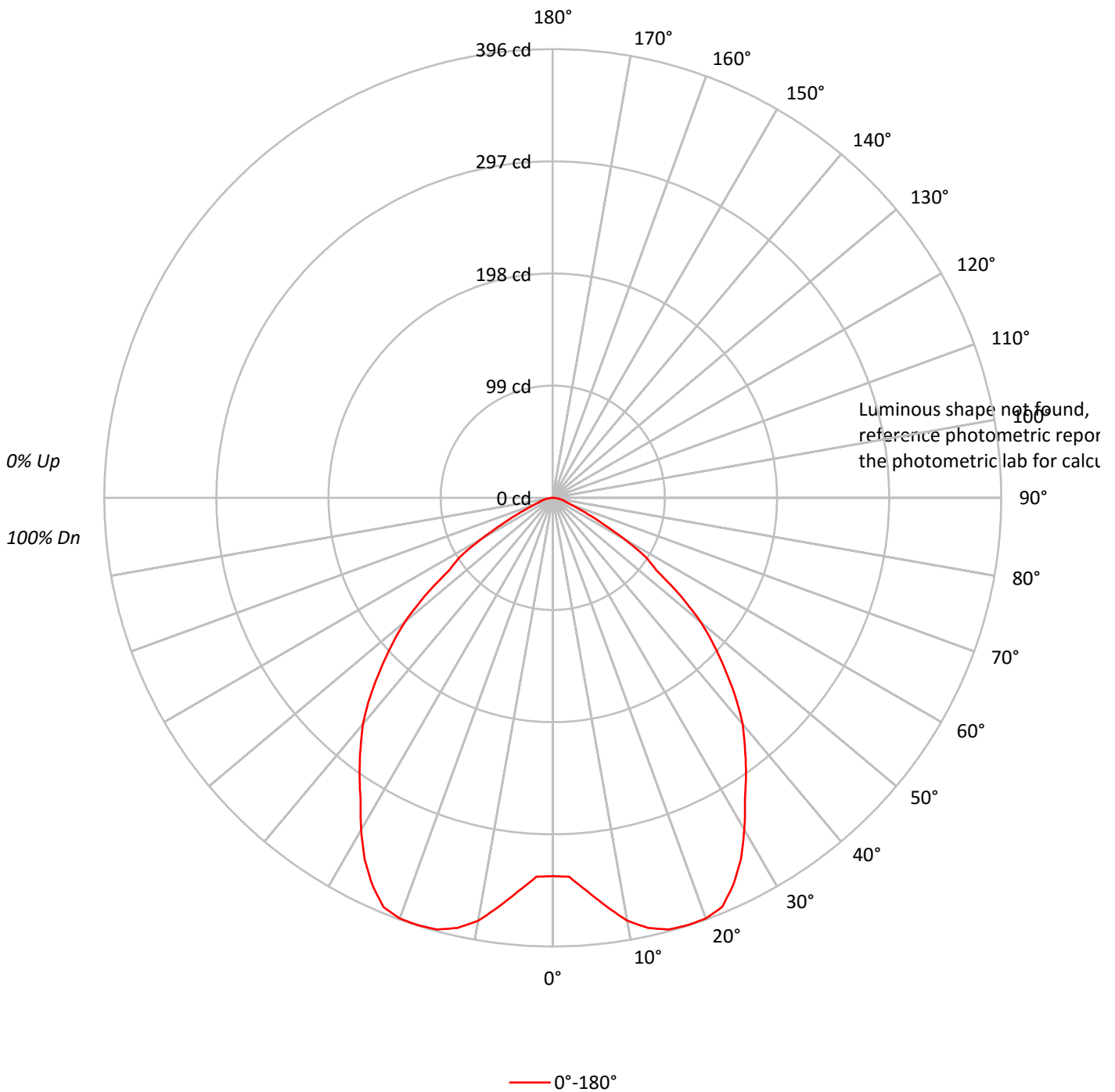
Input Watts (W): 39.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





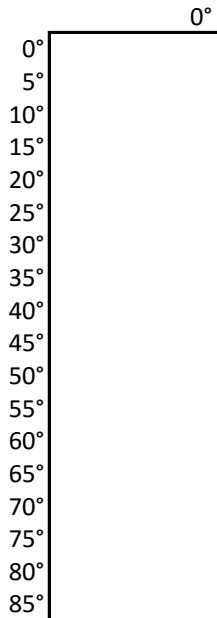
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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	34.2	4.1	1.1
10°-20°	111.2	13.4	3.5
20°-30°	172.1	20.8	5.4
30°-40°	186.2	22.5	5.8
40°-50°	166.3	20.1	5.2
50°-60°	105.3	12.7	3.3
60°-70°	37.6	4.5	1.2
70°-80°	11.4	1.4	0.4
80°-90°	2.8	0.3	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°	317.5	38.4	9.9
0°-40°	503.7	60.9	15.7
0°-60°	775.4	93.7	24.2
0°-90°	827.1	100.0	25.8
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°	827.1	100.0	25.8

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	334	
5°	348	34
15°	394	111
25°	377	172
35°	297	186
45°	216	166
55°	112	105
65°	34	38
75°	10	11
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	333.8
2.5°	334.8
5°	348.5
7.5°	363.8
10°	378.9
12.5°	388.8
15°	394.5
17.5°	395.5
20°	395.1
22.5°	390.9
25°	377.0
27.5°	359.7
30°	338.3
32.5°	315.8
35°	297.4
37.5°	278.8
40°	260.8
42.5°	239.2
45°	215.6
47.5°	193.3
50°	170.8
52.5°	142.2
55°	111.5
57.5°	97.5
60°	73.1
62.5°	50.6
65°	34.4
67.5°	23.2
70°	16.2
72.5°	12.6
75°	10.5
77.5°	8.7
80°	6.6
82.5°	4.4
85°	2.2
87.5°	0.5
90°	0.0

(END OF REPORT)