

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: 29639

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 29639
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-FICO
Description: SHAPER 6" CFL RECESSED GLASS DOWNLIGHT FROSTED
INNER FLUTED GLASS 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: 721.5 lumens
Efficiency: 22.5%
Efficacy: 18.2 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.11
Luminous Opening: (L: 0 ' x W: -0.46 ' x H: 0.14 '
CIE Type: Direct

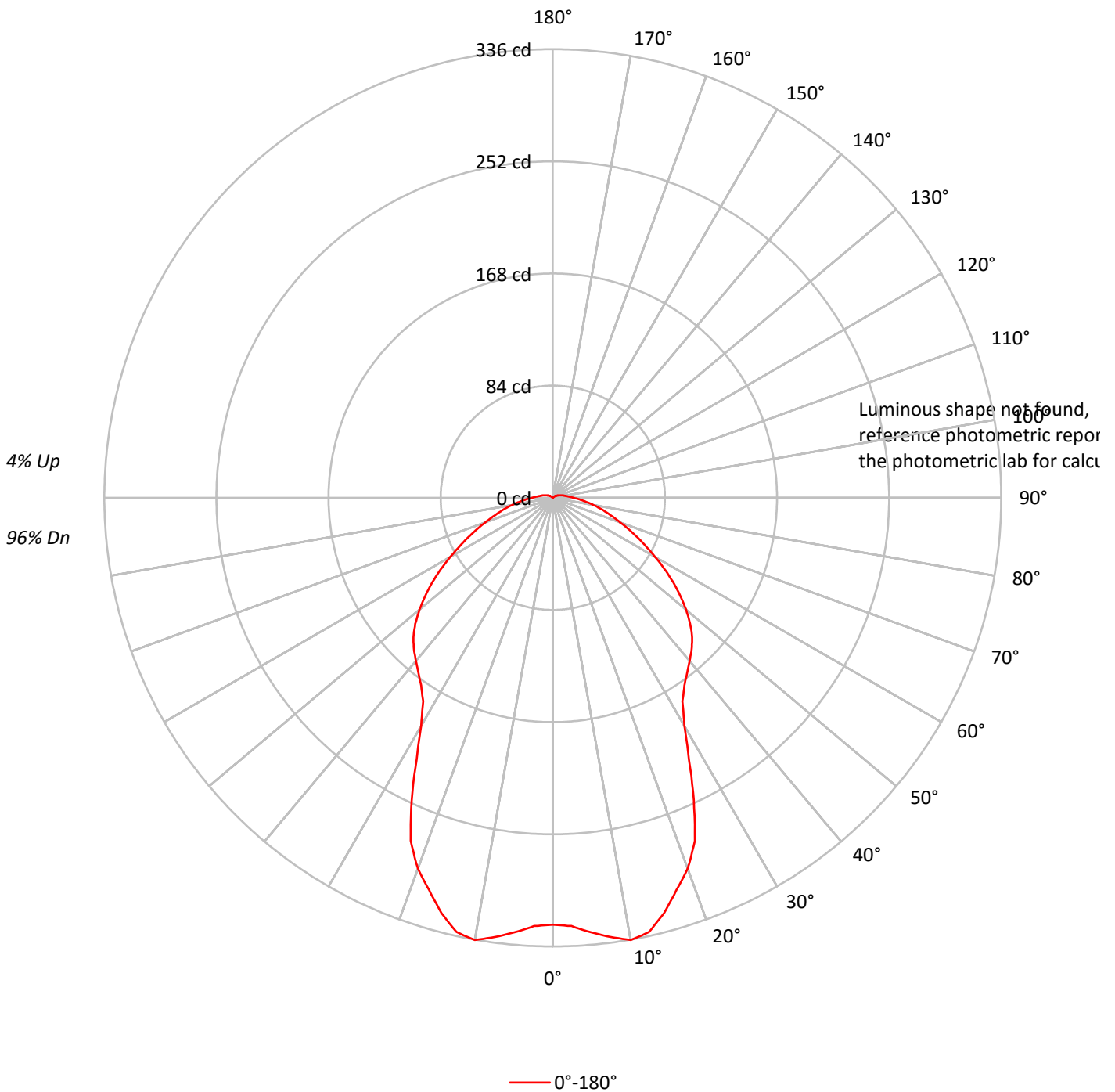
Input Watts (W): 39.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	31.5	4.4	1.0
10°-20°	90.0	12.5	2.8
20°-30°	113.7	15.8	3.6
30°-40°	108.9	15.1	3.4
40°-50°	113.2	15.7	3.5
50°-60°	98.1	13.6	3.1
60°-70°	69.5	9.6	2.2
70°-80°	43.9	6.1	1.4
80°-90°	24.6	3.4	0.8
90°-100°	13.0	1.8	0.4
100°-110°	7.7	1.1	0.2
110°-120°	4.2	0.6	0.1
120°-130°	2.1	0.3	0.1
130°-140°	0.7	0.1	0.0
140°-150°	0.2	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.1	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	235.2	32.6	7.4
0°-40°	344.1	47.7	10.8
0°-60°	555.4	77.0	17.4
0°-90°	693.5	96.1	21.7
90°-120°	24.9	3.5	0.8
90°-150°	27.9	3.9	0.9
90°-180°	28.0	3.9	0.9
0°-180°	721.5	100.0	22.5

CANDELA DISTRIBUTION:

	0°	Flux
0°	320	
5°	327	31
15°	322	90
25°	250	114
35°	172	109
45°	148	113
55°	110	98
65°	70	70
75°	41	44
85°	22	20
90°	16	9
95°	12	9
105°	7	8
115°	4	4
125°	2	2
135°	1	1
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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CANDELA DISTRIBUTION (FULL):

0°	
0°	319.6
2.5°	321.0
5°	326.6
7.5°	331.7
10°	336.3
12.5°	333.1
15°	322.0
17.5°	308.1
20°	295.5
22.5°	278.0
25°	250.0
27.5°	220.9
30°	197.0
32.5°	180.7
35°	171.8
37.5°	165.2
40°	159.4
42.5°	154.0
45°	147.7
47.5°	139.7
50°	130.3
52.5°	120.3
55°	110.0
57.5°	99.2
60°	88.6
62.5°	78.7
65°	69.8
67.5°	61.4
70°	53.7
72.5°	47.1
75°	41.2
77.5°	35.9
80°	30.9
82.5°	26.3
85°	22.2
87.5°	18.6
90°	15.7
92.5°	13.5
95°	11.7
97.5°	10.1
100°	9.0
102.5°	8.2
105°	7.2
107.5°	6.3
110°	5.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	4.8
115°	4.2
117.5°	3.6
120°	3.2
122.5°	2.8
125°	2.4
127.5°	1.9
130°	1.4
132.5°	1.2
135°	0.9
137.5°	0.5
140°	0.3
142.5°	0.3
145°	0.3
147.5°	0.2
150°	0.1
152.5°	0.0
155°	0.0
157.5°	0.2
160°	0.4
162.5°	0.4
165°	0.4
167.5°	0.2
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)