

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: 29637

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 29637
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-FIFO
Description: SHAPER 6" CFL RECESSED GLASS DOWNLIGHT WITH FROSTED
INNER FLUTED GLASS AND FROSTED 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: 653.7 lumens
Efficiency: 20.4%
Efficacy: 16.5 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 1.02
Luminous Opening: (L: 0 ' x W: -0.46 ' x H: 0.14 '
CIE Type: Direct

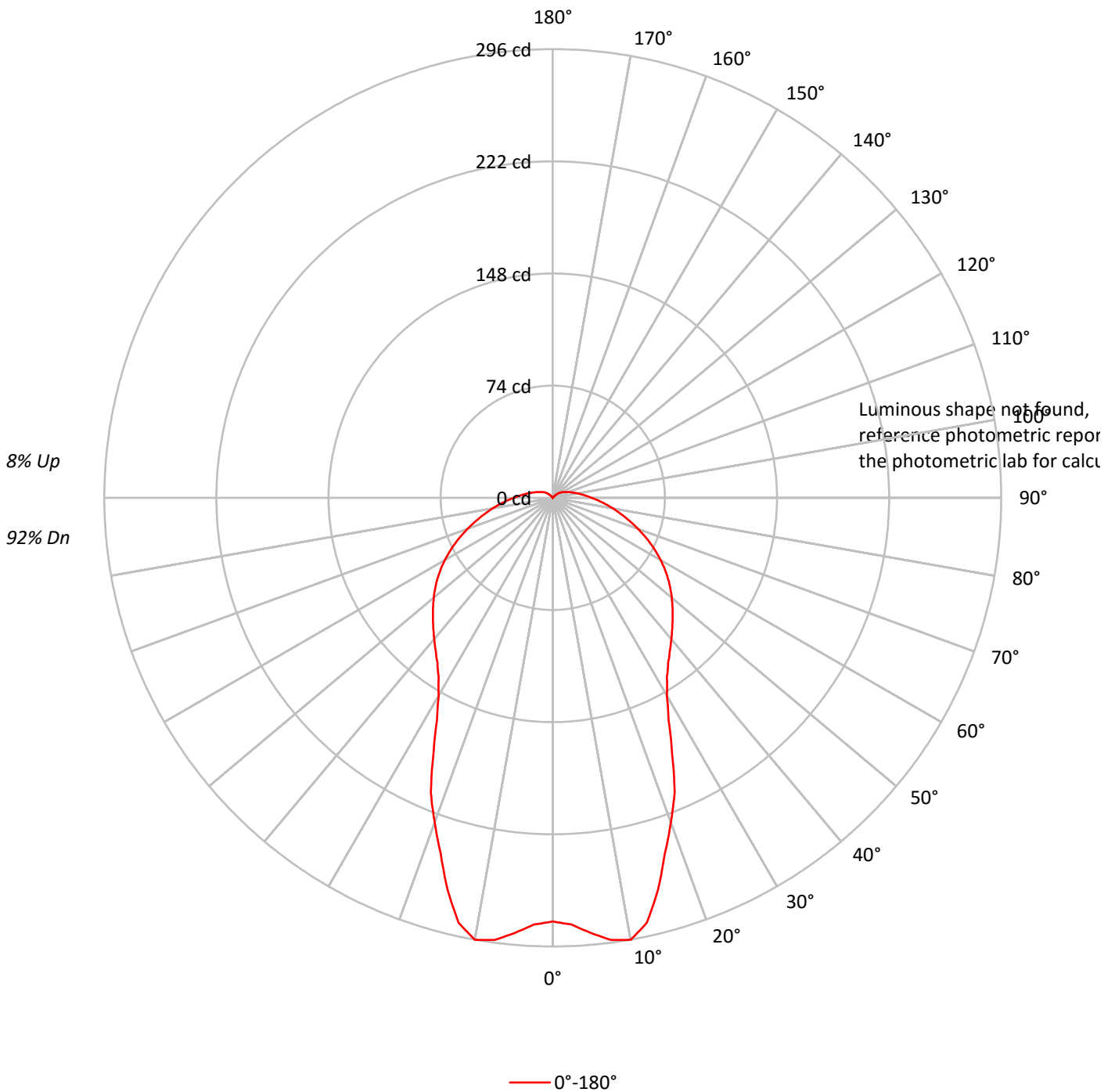
Input Watts (W): 39.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	27.8	4.3	0.9
10°-20°	74.3	11.4	2.3
20°-30°	85.8	13.1	2.7
30°-40°	83.9	12.8	2.6
40°-50°	86.5	13.2	2.7
50°-60°	82.9	12.7	2.6
60°-70°	70.4	10.8	2.2
70°-80°	52.4	8.0	1.6
80°-90°	35.5	5.4	1.1
90°-100°	22.7	3.5	0.7
100°-110°	14.4	2.2	0.5
110°-120°	9.1	1.4	0.3
120°-130°	5.4	0.8	0.2
130°-140°	2.0	0.3	0.1
140°-150°	0.4	0.1	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°	187.9	28.7	5.9
0°-40°	271.8	41.6	8.5
0°-60°	441.2	67.5	13.8
0°-90°	599.5	91.7	18.7
90°-120°	46.3	7.1	1.4
90°-150°	54.2	8.3	1.7
90°-180°	54.0	8.3	1.7
0°-180°	653.7	100.0	20.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	280	
5°	288	28
15°	268	74
25°	186	86
35°	133	84
45°	112	86
55°	93	83
65°	71	70
75°	49	52
85°	32	28
90°	26	14
95°	21	16
105°	14	14
115°	9	9
125°	6	5
135°	3	2
145°	1	0
155°	0	0
165°	0	0
175°	0	0
180°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	279.5
2.5°	281.7
5°	288.1
7.5°	294.2
10°	296.1
12.5°	287.1
15°	268.1
17.5°	246.0
20°	227.9
22.5°	210.3
25°	186.4
27.5°	165.5
30°	150.6
32.5°	140.2
35°	132.8
37.5°	127.0
40°	121.7
42.5°	116.7
45°	111.8
47.5°	107.2
50°	102.5
52.5°	97.8
55°	92.8
57.5°	87.6
60°	82.3
62.5°	76.7
65°	71.1
67.5°	65.4
70°	59.9
72.5°	54.5
75°	49.3
77.5°	44.6
80°	40.3
82.5°	36.1
85°	32.3
87.5°	28.8
90°	25.6
92.5°	23.0
95°	20.7
97.5°	18.5
100°	16.7
102.5°	15.0
105°	13.5
107.5°	12.2
110°	11.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	10.0
115°	9.1
117.5°	8.3
120°	7.5
122.5°	6.8
125°	6.1
127.5°	5.2
130°	4.2
132.5°	3.4
135°	2.6
137.5°	1.7
140°	1.0
142.5°	0.9
145°	0.7
147.5°	0.4
150°	0.1
152.5°	0.0
155°	0.0
157.5°	0.1
160°	0.0
162.5°	0.0
165°	0.2
167.5°	0.1
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)