

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: 29641

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 29641
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-CYF
Description: SHAPER 6" CFL RECESSED GLASS DOWNLIGHT WITH FROSTED GLASS CYLINDER
Light Source: ONE SYLVANIA 42W CFL

CF42DT/E. LUMEN RATING = 3200 LMS.

Ballast/Driver: -

Summary

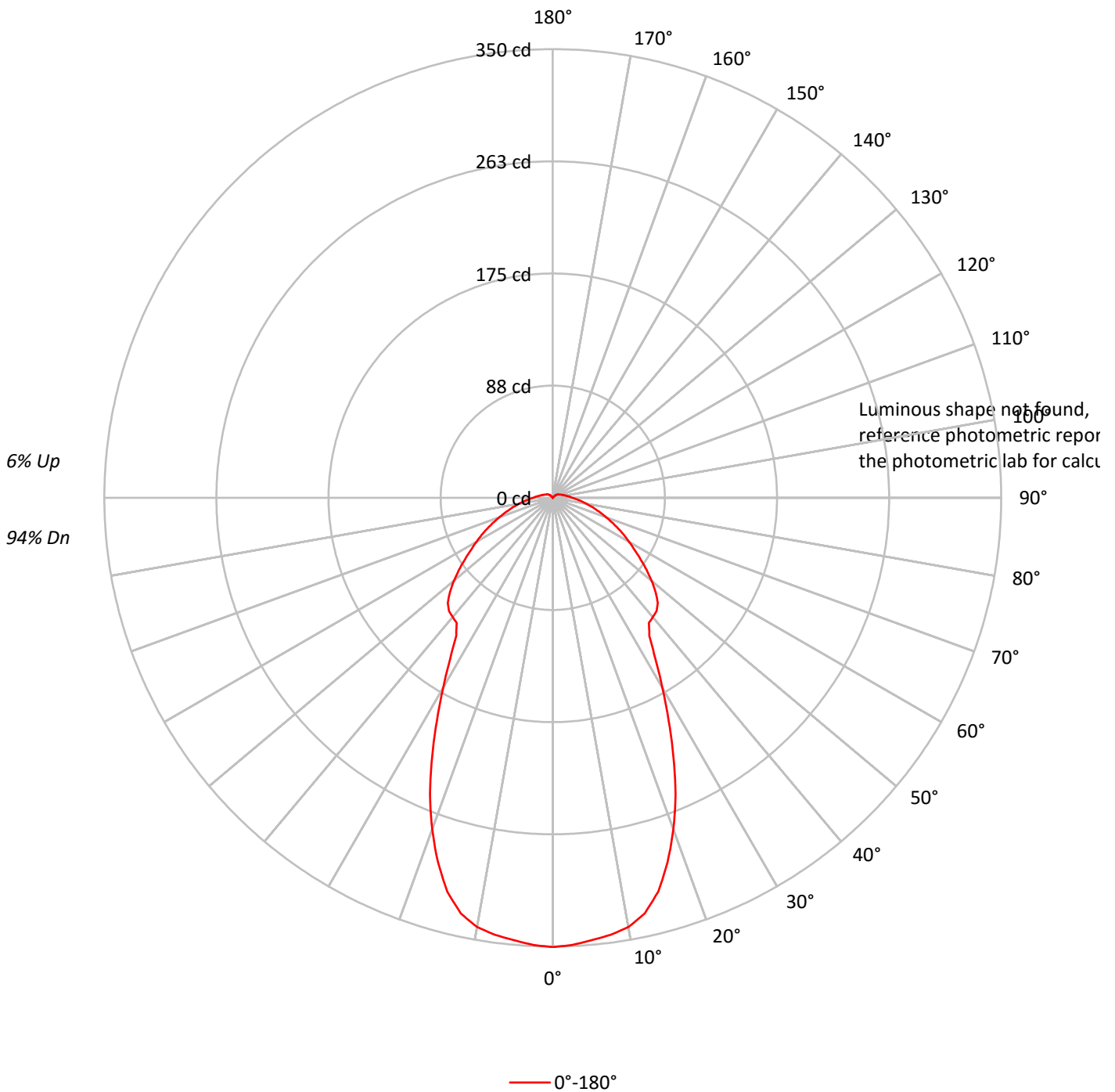
Lumens per Lamp: 3200 (1 lamp)
Luminaire Lumens: 621.9 lumens
Efficiency: 19.4%
Efficacy: 15.8 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: (L: 0' x W: -0.46' x H: 0.14'
CIE Type: Direct

Input Watts (W): 39.3
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





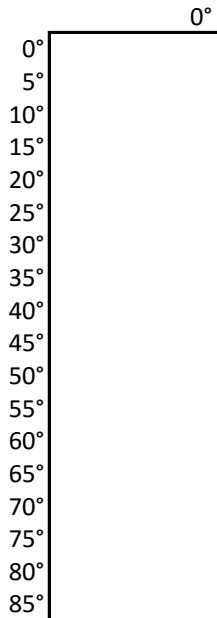
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.9	5.3	1.0
10°-20°	88.0	14.2	2.8
20°-30°	101.8	16.4	3.2
30°-40°	85.7	13.8	2.7
40°-50°	88.0	14.2	2.8
50°-60°	75.2	12.1	2.3
60°-70°	55.7	9.0	1.7
70°-80°	37.0	5.9	1.2
80°-90°	22.4	3.6	0.7
90°-100°	13.6	2.2	0.4
100°-110°	9.0	1.4	0.3
110°-120°	6.1	1.0	0.2
120°-130°	4.1	0.7	0.1
130°-140°	1.9	0.3	0.1
140°-150°	0.5	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°	222.7	35.8	7.0
0°-40°	308.4	49.6	9.6
0°-60°	471.6	75.8	14.7
0°-90°	586.6	94.3	18.3
90°-120°	28.7	4.6	0.9
90°-150°	35.2	5.7	1.1
90°-180°	35.0	5.6	1.1
0°-180°	621.9	100.0	19.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	350	
5°	346	33
15°	318	88
25°	223	102
35°	131	86
45°	116	88
55°	84	75
65°	56	56
75°	35	37
85°	20	18
90°	15	8
95°	12	10
105°	8	9
115°	6	6
125°	5	4
135°	3	2
145°	1	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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CANDELA DISTRIBUTION (FULL):

0°	
0°	350.5
2.5°	349.1
5°	346.4
7.5°	343.9
10°	340.0
12.5°	332.0
15°	318.0
17.5°	298.0
20°	275.2
22.5°	250.4
25°	222.6
27.5°	195.8
30°	171.0
32.5°	148.8
35°	131.4
37.5°	123.1
40°	121.5
42.5°	119.9
45°	115.9
47.5°	108.9
50°	100.7
52.5°	92.2
55°	83.7
57.5°	75.7
60°	69.0
62.5°	62.4
65°	56.0
67.5°	50.0
70°	44.4
72.5°	39.3
75°	34.7
77.5°	30.5
80°	26.7
82.5°	23.3
85°	20.2
87.5°	17.6
90°	15.3
92.5°	13.8
95°	12.4
97.5°	11.1
100°	10.1
102.5°	9.2
105°	8.4
107.5°	7.8
110°	7.1



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	6.6
115°	6.1
117.5°	5.6
120°	5.3
122.5°	4.9
125°	4.6
127.5°	4.2
130°	3.6
132.5°	3.1
135°	2.6
137.5°	1.8
140°	1.1
142.5°	1.0
145°	0.8
147.5°	0.5
150°	0.2
152.5°	0.0
155°	0.0
157.5°	0.1
160°	0.1
162.5°	0.1
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)