

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: 29640

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 29640
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-CYC
Description: SHAPER 6" CFL RECESSED GLASS DOWNLIGHT WITH CLEAR GLASS CYLINDER
Light Source: ONE SYLVANIA 42W CFL

CF42DT/E. LUMEN RATING = 3200 LMS.

Ballast/Driver: -

Summary

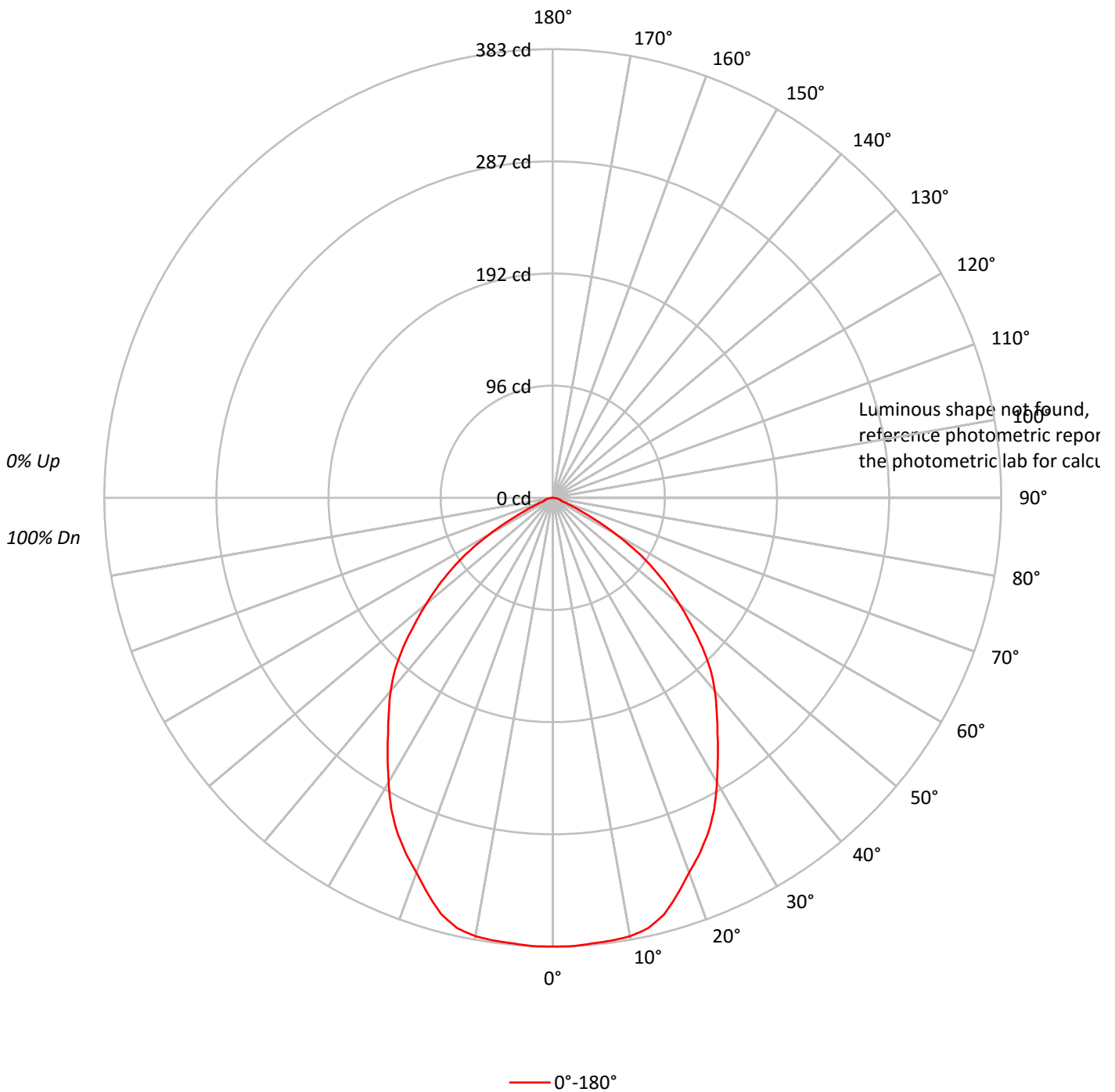
Lumens per Lamp: 3200 (1 lamp)
Luminaire Lumens: 704.8 lumens
Efficiency: 22.0%
Efficacy: 17.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.19
Luminous Opening: (L: 0' x W: -0.46' x H: 0.14'
CIE Type: Direct

Input Watts (W): 39.7
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





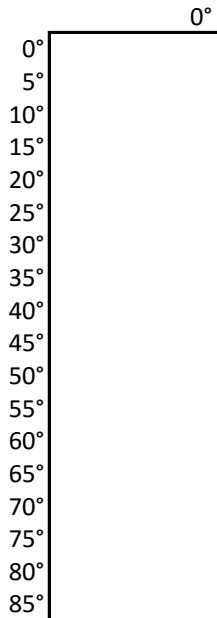
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	36.4	5.2	1.1
10°-20°	102.8	14.6	3.2
20°-30°	144.1	20.4	4.5
30°-40°	154.0	21.8	4.8
40°-50°	138.4	19.6	4.3
50°-60°	92.2	13.1	2.9
60°-70°	28.7	4.1	0.9
70°-80°	6.8	1.0	0.2
80°-90°	1.5	0.2	0.0
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°	283.3	40.2	8.9
0°-40°	437.3	62.0	13.7
0°-60°	667.8	94.8	20.9
0°-90°	704.8	100.0	22.0
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°	704.8	100.0	22.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	383	
5°	382	36
15°	368	103
25°	315	144
35°	245	154
45°	181	138
55°	104	92
65°	25	29
75°	7	7
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	383.1
2.5°	383.2
5°	381.9
7.5°	381.3
10°	380.1
12.5°	376.4
15°	368.0
17.5°	354.6
20°	340.4
22.5°	328.2
25°	314.7
27.5°	298.8
30°	280.4
32.5°	262.3
35°	245.3
37.5°	230.0
40°	215.4
42.5°	199.7
45°	180.7
47.5°	160.2
50°	141.2
52.5°	123.0
55°	104.1
57.5°	84.6
60°	63.1
62.5°	41.8
65°	25.0
67.5°	14.4
70°	8.3
72.5°	7.1
75°	6.7
77.5°	5.7
80°	4.2
82.5°	2.5
85°	0.8
87.5°	0.0
90°	0.0

(END OF REPORT)