

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: 29635

Luminaire Tested: **340-4-CFL/1/26-CYC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 29635
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 340-4-CFL/1/26-CYC
Description: SHAPER 4" CFL RECESSED GLASS DOWNLIGHT WITH CLEAR GLASS CYLINDER

Light Source: ONE SYLVANIA 26W CFL

CF26DT/E. LUMEN RATING = 1800 LMS.

Ballast/Driver: -

Summary

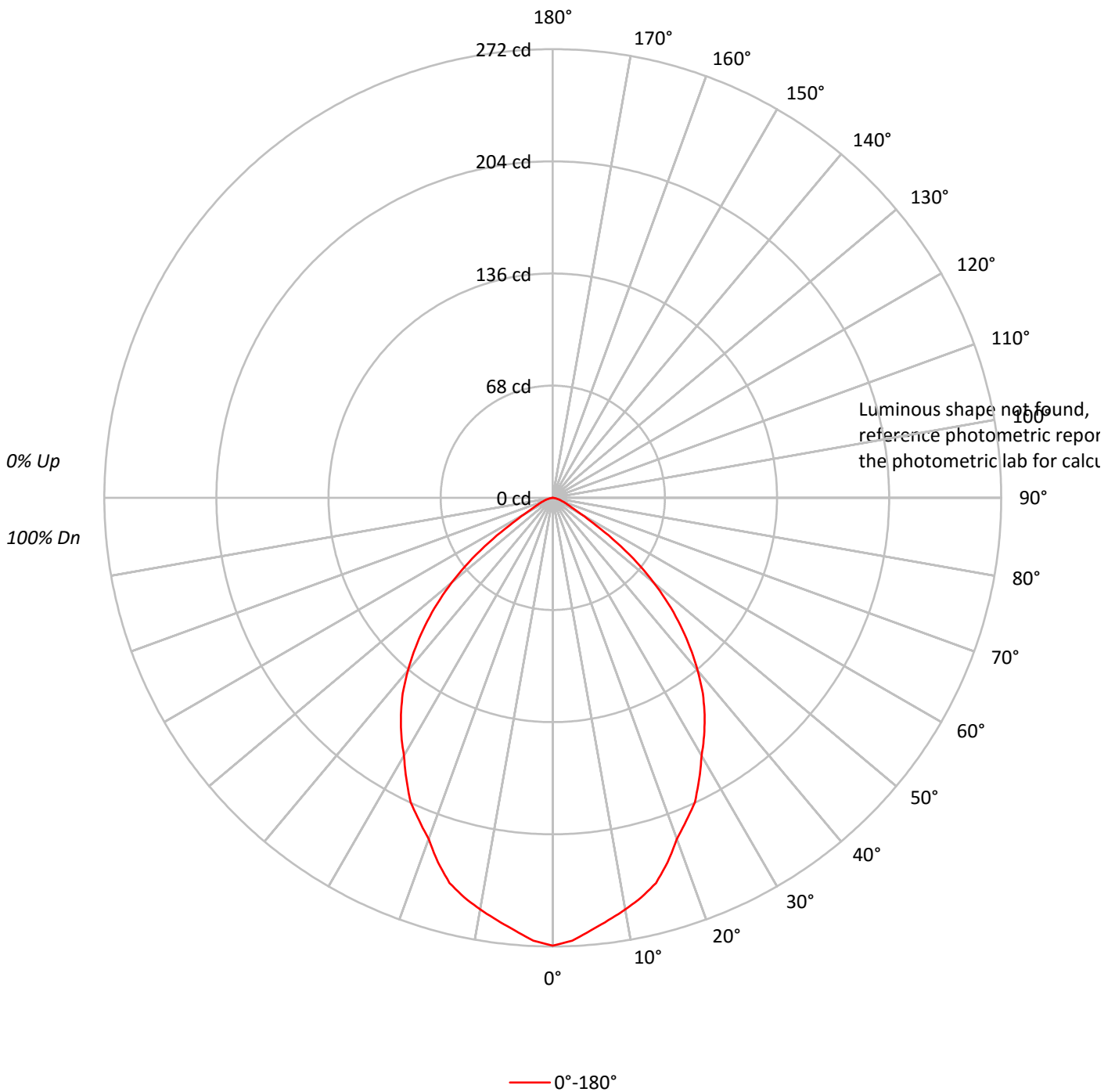
Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 427.4 lumens
Efficiency: 23.7%
Efficacy: 17.0 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.13
Luminous Opening: (L: 0' x W: -0.34' x H: 0.12'
CIE Type: Direct

Input Watts (W): 25.1
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





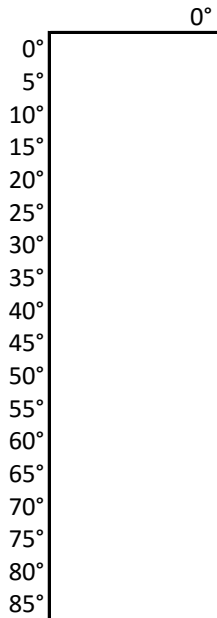
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	28	28	28	28	28	28	28	28	26	26	26	25	25	25	24	24	24	24
1	27	26	25	24	26	25	25	24	24	24	23	23	23	23	23	22	22	21
2	25	23	22	21	24	23	22	21	22	21	20	21	21	20	21	20	20	19
3	23	21	20	18	23	21	19	18	20	19	18	20	19	18	19	18	17	17
4	21	19	18	16	21	19	17	16	18	17	16	18	17	16	17	16	16	15
5	20	18	16	14	20	17	16	14	17	15	14	16	15	14	16	15	14	14
6	19	16	14	13	18	16	14	13	15	14	13	15	14	13	15	14	13	12
7	17	15	13	12	17	15	13	12	14	13	12	14	13	12	14	12	11	11
8	16	14	12	11	16	13	12	11	13	12	11	13	12	11	13	11	10	10
9	15	13	11	10	15	12	11	10	12	11	10	12	11	10	12	11	10	9
10	15	12	10	9	14	12	10	9	11	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°	24.8	5.8	1.4
10°-20°	67.4	15.8	3.7
20°-30°	93.0	21.8	5.2
30°-40°	99.9	23.4	5.6
40°-50°	83.9	19.6	4.7
50°-60°	42.7	10.0	2.4
60°-70°	11.2	2.6	0.6
70°-80°	4.0	0.9	0.2
80°-90°	0.3	0.1	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°	185.3	43.3	10.3
0°-40°	285.2	66.7	15.8
0°-60°	411.8	96.4	22.9
0°-90°	427.4	100.0	23.7
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°	427.4	100.0	23.7

CANDELA DISTRIBUTION:

	0°	Flux
0°	272	
5°	263	25
15°	242	67
25°	204	93
35°	160	100
45°	110	84
55°	47	43
65°	10	11
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	271.5
2.5°	268.8
5°	263.3
7.5°	258.3
10°	253.4
12.5°	248.1
15°	241.8
17.5°	231.7
20°	220.1
22.5°	211.7
25°	203.8
27.5°	192.3
30°	180.5
32.5°	170.9
35°	160.5
37.5°	149.5
40°	136.7
42.5°	123.3
45°	109.7
47.5°	95.1
50°	79.9
52.5°	64.5
55°	47.4
57.5°	31.1
60°	20.0
62.5°	13.6
65°	10.4
67.5°	8.3
70°	6.5
72.5°	5.0
75°	3.7
77.5°	2.5
80°	1.5
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)