

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: 19167A

Luminaire Tested: **694-WP-CF1/32**

Issue Date: 3/3/2020

**Test Information**

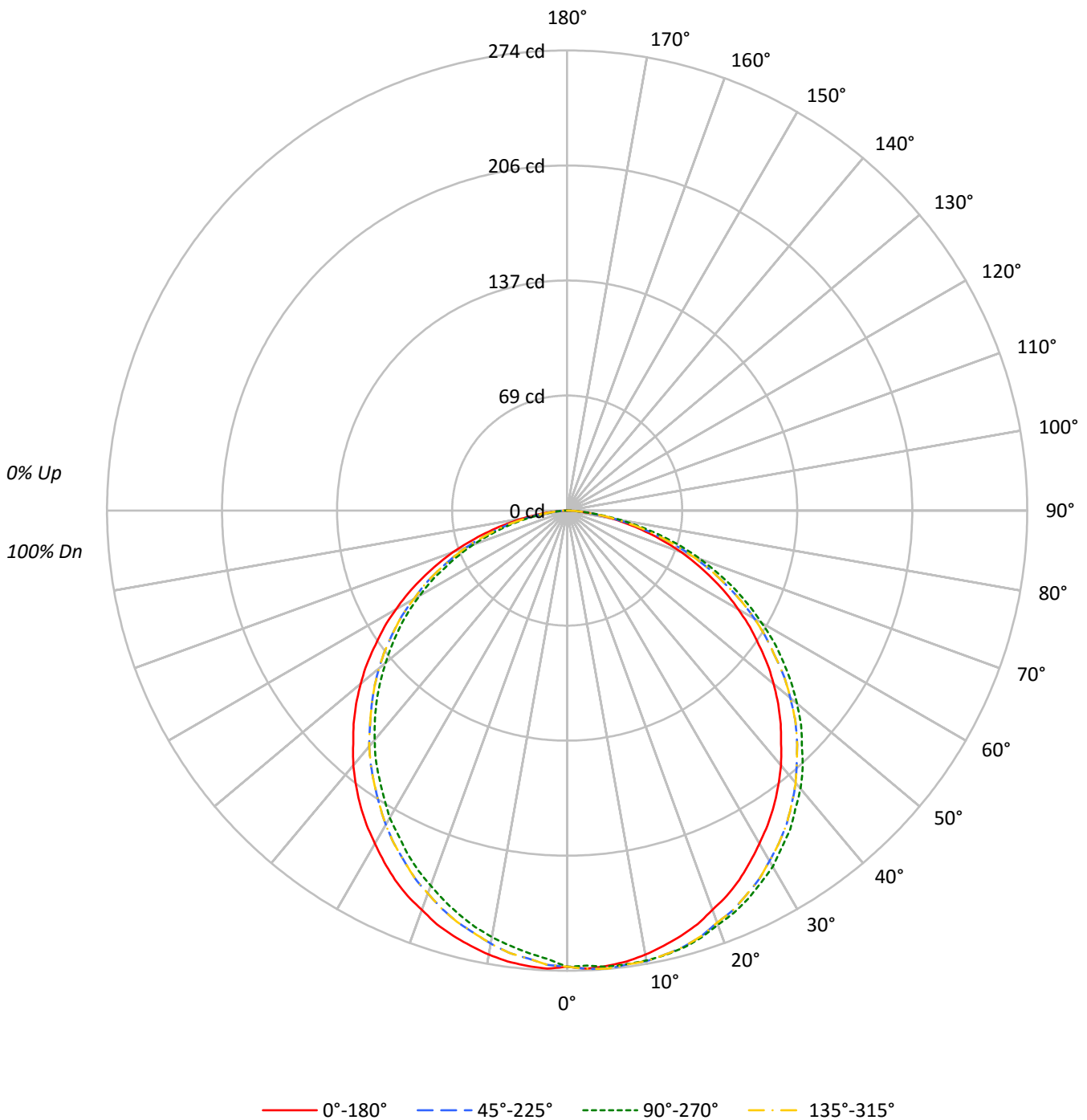
Test Method: LM-66-11  
Report Number: 19167A  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 694-WP-CF1/32  
Description: EXTERIOR WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE PLASTIC LENS  
Light Source: ONE 32 WATT CPFL LAMP. LUMEN RATING = 2400 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2400 (1 lamp)  
Luminaire Lumens: 761.9 lumens  
Efficiency: 31.7%  
Efficacy: -  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 0.46' x L: 1.08' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 0  
Input Voltage (V): NR  
Input Current (Ain): 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	38	38	38	38	37	37	37	37	35	35	35	34	34	34	32	32	32	32
1	35	33	32	31	34	32	31	30	31	30	29	30	29	28	29	28	27	27
2	31	29	27	25	31	28	26	25	27	25	24	26	25	23	25	24	23	22
3	29	25	23	21	28	25	22	20	24	22	20	23	21	20	22	21	19	19
4	26	22	20	17	25	22	19	17	21	19	17	20	18	17	20	18	17	16
5	24	20	17	15	23	20	17	15	19	17	15	18	16	15	18	16	14	14
6	22	18	15	13	22	18	15	13	17	15	13	17	14	13	16	14	13	12
7	21	16	14	12	20	16	13	12	16	13	11	15	13	11	15	13	11	11
8	19	15	12	10	19	15	12	10	14	12	10	14	12	10	13	12	10	10
9	18	14	11	9	17	13	11	9	13	11	9	13	11	9	12	11	9	9
10	17	13	10	8	16	12	10	8	12	10	8	12	10	8	12	10	8	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5885	5885	5885	5885
5°	5920	5929	5920	5751
10°	5907	5984	5907	5674
15°	5881	6041	5881	5583
20°	5833	6050	5833	5478
25°	5800	6099	5800	5384
30°	5727	6124	5727	5284
35°	5676	6126	5676	5155
40°	5603	6115	5603	5043
45°	5509	6058	5509	4915
50°	5410	6020	5410	4753
55°	5262	5934	5262	4605
60°	5100	5794	5100	4398
65°	4870	5634	4870	4101
70°	4574	5340	4574	3788
75°	4035	4889	4035	3240
80°	3306	4055	3306	2470
85°	2237	2610	2237	1541



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.7	3.4	1.1
10°-20°	73.5	9.6	3.1
20°-30°	111.1	14.6	4.6
30°-40°	133.6	17.5	5.6
40°-50°	138.1	18.1	5.8
50°-60°	124.3	16.3	5.2
60°-70°	93.7	12.3	3.9
70°-80°	51.1	6.7	2.1
80°-90°	11.1	1.5	0.5
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°	210.2	27.6	8.8
0°-40°	343.8	45.1	14.3
0°-60°	606.1	79.6	25.3
0°-90°	761.9	100.0	31.7
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°	761.9	100.0	31.7

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	272	272	272	272	272	
5°	272	273	272	264	272	26
15°	262	269	262	249	262	74
25°	243	255	243	225	243	112
35°	215	232	215	195	215	134
45°	180	198	180	160	180	139
55°	139	157	139	122	139	125
65°	95	110	95	80	95	94
75°	48	58	48	39	48	51
85°	9	10	9	6	9	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6
2.5°	273.0	271.5	273.1	272.4	271.2	272.4	273.1	271.5	273.0	270.0	270.7
5°	272.2	272.2	273.8	273.6	272.6	273.6	273.8	272.2	272.2	268.1	267.7
7.5°	270.8	271.7	272.6	272.9	272.4	272.9	272.6	271.7	270.8	265.2	265.6
10°	268.5	270.3	272.4	273.1	272.0	273.1	272.4	270.3	268.5	262.2	261.8
12.5°	265.4	268.3	270.7	272.0	271.0	272.0	270.7	268.3	265.4	258.6	257.5
15°	262.2	264.9	268.8	270.0	269.3	270.0	268.8	264.9	262.2	254.6	253.5
17.5°	258.2	262.4	265.6	267.1	266.4	267.1	265.6	262.4	258.2	249.7	248.4
20°	253.0	258.1	261.1	263.2	262.4	263.2	261.1	258.1	253.0	243.3	242.6
22.5°	248.3	252.8	257.7	259.8	259.3	259.8	257.7	252.8	248.3	238.5	237.0
25°	242.6	247.7	252.5	255.2	255.1	255.2	252.5	247.7	242.6	232.3	229.9
27.5°	235.9	242.6	247.5	249.2	249.9	249.2	247.5	242.6	235.9	225.4	223.4
30°	228.9	236.6	240.9	243.7	244.8	243.7	240.9	236.6	228.9	218.4	216.0
32.5°	222.1	229.7	234.8	237.8	237.8	237.8	234.8	229.7	222.1	210.0	207.9
35°	214.6	222.6	227.8	230.4	231.6	230.4	227.8	222.6	214.6	202.2	199.8
37.5°	206.5	213.8	219.8	223.3	223.4	223.3	219.8	213.8	206.5	194.6	191.8
40°	198.1	205.5	211.7	215.2	216.2	215.2	211.7	205.5	198.1	186.3	183.4
42.5°	188.6	197.4	202.4	206.0	207.6	206.0	202.4	197.4	188.6	176.4	173.7
45°	179.8	187.3	193.6	197.2	197.7	197.2	193.6	187.3	179.8	167.7	164.7
47.5°	170.4	178.0	184.1	187.7	188.9	187.7	184.1	178.0	170.4	158.7	155.7
50°	160.5	168.3	173.5	177.1	178.6	177.1	173.5	168.3	160.5	149.1	146.3
52.5°	150.4	158.0	163.1	166.7	168.3	166.7	163.1	158.0	150.4	139.6	136.7
55°	139.3	147.1	151.0	154.8	157.1	154.8	151.0	147.1	139.3	129.1	126.3
57.5°	129.1	136.2	140.3	144.2	146.2	144.2	140.3	136.2	129.1	119.6	116.8
60°	117.7	123.8	128.9	132.4	133.7	132.4	128.9	123.8	117.7	108.5	105.4
62.5°	106.9	112.6	117.0	119.7	121.9	119.7	117.0	112.6	106.9	98.1	95.6
65°	95.0	100.8	104.2	107.8	109.9	107.8	104.2	100.8	95.0	87.6	84.8
67.5°	83.5	88.8	92.1	95.2	96.8	95.2	92.1	88.8	83.5	76.8	74.1
70°	72.2	76.8	79.5	82.6	84.3	82.6	79.5	76.8	72.2	65.8	63.9
72.5°	59.9	63.7	66.5	69.0	71.4	69.0	66.5	63.7	59.9	55.1	52.7
75°	48.2	51.8	53.4	56.3	58.4	56.3	53.4	51.8	48.2	44.3	42.3
77.5°	37.2	38.9	41.1	43.0	44.9	43.0	41.1	38.9	37.2	34.3	32.3
80°	26.5	27.6	29.2	30.4	32.5	30.4	29.2	27.6	26.5	24.7	22.4
82.5°	16.9	17.8	17.6	19.2	19.7	19.2	17.6	17.8	16.9	15.4	14.0
85°	9.0	9.3	9.5	10.3	10.5	10.3	9.5	9.3	9.0	7.9	6.9
87.5°	3.1	2.8	2.9	2.9	3.8	2.9	2.9	2.8	3.1	2.2	2.8
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	271.6	271.6	271.6	271.6	271.6	271.6
2.5°	269.8	267.2	269.8	270.7	270.0	273.0
5°	266.5	264.4	266.5	267.7	268.1	272.2
7.5°	264.1	261.3	264.1	265.6	265.2	270.8
10°	259.9	257.9	259.9	261.8	262.2	268.5
12.5°	256.3	253.8	256.3	257.5	258.6	265.4
15°	251.3	248.9	251.3	253.5	254.6	262.2
17.5°	246.0	243.5	246.0	248.4	249.7	258.2
20°	240.2	237.6	240.2	242.6	243.3	253.0
22.5°	234.6	231.9	234.6	237.0	238.5	248.3
25°	227.3	225.2	227.3	229.9	232.3	242.6
27.5°	220.9	217.8	220.9	223.4	225.4	235.9
30°	213.5	211.2	213.5	216.0	218.4	228.9
32.5°	205.3	202.9	205.3	207.9	210.0	222.1
35°	197.4	194.9	197.4	199.8	202.2	214.6
37.5°	189.3	187.2	189.3	191.8	194.6	206.5
40°	180.8	178.3	180.8	183.4	186.3	198.1
42.5°	170.9	169.4	170.9	173.7	176.4	188.6
45°	161.8	160.4	161.8	164.7	167.7	179.8
47.5°	152.9	151.0	152.9	155.7	158.7	170.4
50°	143.4	141.0	143.4	146.3	149.1	160.5
52.5°	134.0	131.5	134.0	136.7	139.6	150.4
55°	123.4	121.9	123.4	126.3	129.1	139.3
57.5°	114.1	112.0	114.1	116.8	119.6	129.1
60°	102.8	101.5	102.8	105.4	108.5	117.7
62.5°	92.6	91.4	92.6	95.6	98.1	106.9
65°	82.6	80.0	82.6	84.8	87.6	95.0
67.5°	72.2	70.2	72.2	74.1	76.8	83.5
70°	61.7	59.8	61.7	63.9	65.8	72.2
72.5°	51.1	48.7	51.1	52.7	55.1	59.9
75°	40.9	38.7	40.9	42.3	44.3	48.2
77.5°	30.6	29.2	30.6	32.3	34.3	37.2
80°	21.6	19.8	21.6	22.4	24.7	26.5
82.5°	13.0	12.3	13.0	14.0	15.4	16.9
85°	6.2	6.2	6.2	6.9	7.9	9.0
87.5°	2.8	2.1	2.8	2.8	2.2	3.1
90°	0.5	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)