

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: 19167

Luminaire Tested: **694-WP-CF2/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19167
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 694-WP-CF2/26
Description: EXTERIOR WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE PLASTIC LENS
Light Source: TWO SYLVANIA 26 WATT CPFL LAMPS

CF26DT/E/IN/841. LUMEN RATING = 3600 LMS.

Ballast/Driver: -

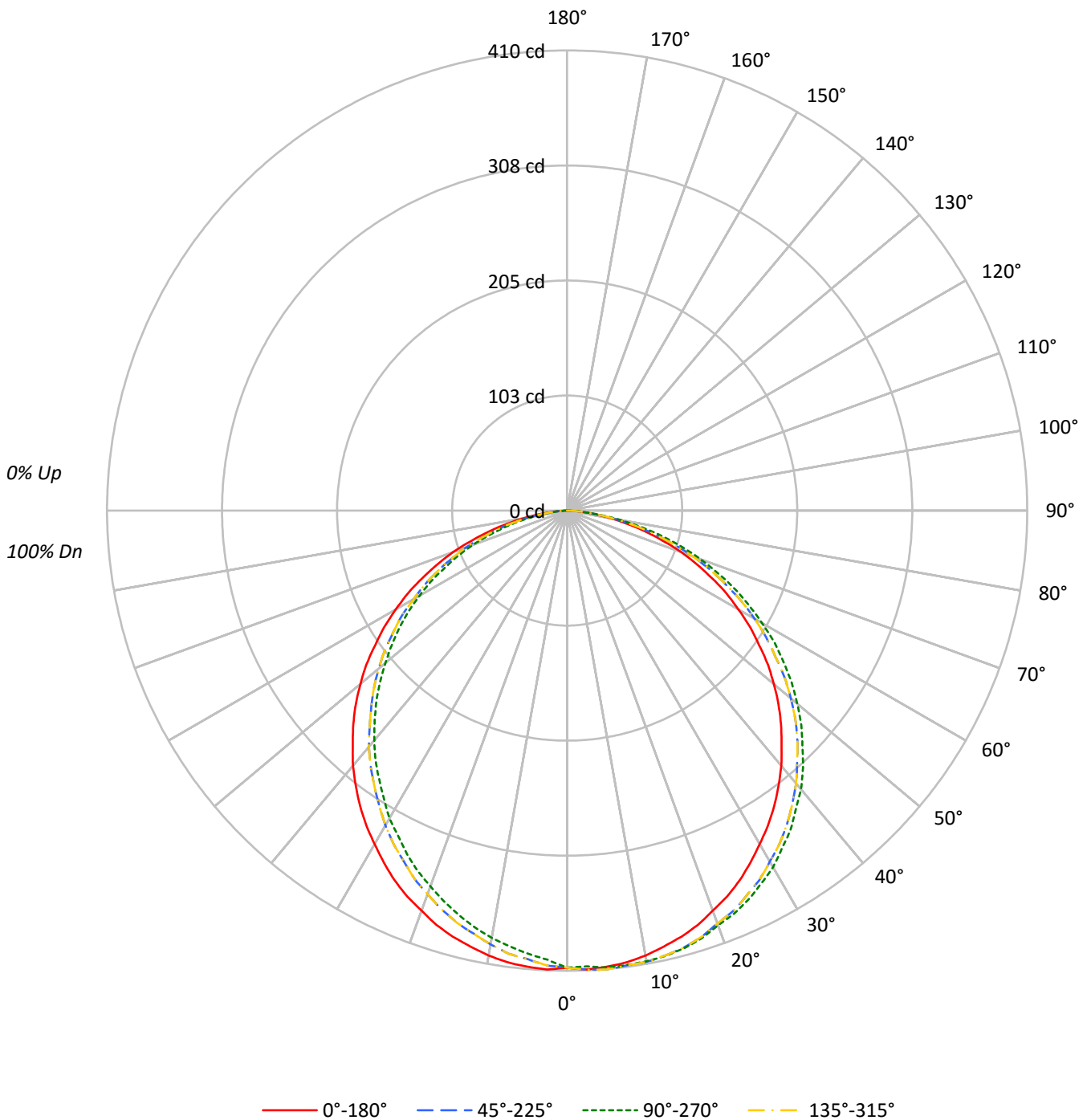
Summary

Lumens per Lamp: 3600 (1 lamp)
Luminaire Lumens: 1141.3 lumens
Efficiency: 31.7%
Efficacy: 25.4 lumens/watt
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): 45
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	38	38	38	38	37	37	37	37	35	35	35	34	34	34	32	32	32	32
1	35	33	32	30	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	9
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°	8823	8823	8823	8823
5°	8874	8887	8874	8621
10°	8855	8972	8855	8503
15°	8818	9053	8818	8367
20°	8746	9068	8746	8213
25°	8692	9142	8692	8071
30°	8584	9179	8584	7921
35°	8506	9181	8506	7726
40°	8397	9167	8397	7560
45°	8258	9082	8258	7363
50°	8107	9020	8107	7122
55°	7884	8892	7884	6894
60°	7640	8684	7640	6582
65°	7295	8439	7295	6142
70°	6848	7995	6848	5663
75°	6027	7317	6027	4830
80°	4929	6051	4929	3681
85°	3306	3853	3306	2237



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	38.5	3.4	1.1
10°-20°	110.2	9.7	3.1
20°-30°	166.5	14.6	4.6
30°-40°	200.2	17.5	5.6
40°-50°	206.9	18.1	5.7
50°-60°	186.2	16.3	5.2
60°-70°	140.3	12.3	3.9
70°-80°	76.3	6.7	2.1
80°-90°	16.3	1.4	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°	315.1	27.6	8.8
0°-40°	515.3	45.1	14.3
0°-60°	908.4	79.6	25.2
0°-90°	1141.3	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°	1141.3	100.0	31.7

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	407	407	407	407	407	
5°	408	409	408	396	408	39
15°	393	404	393	373	393	111
25°	364	382	364	338	364	167
35°	322	347	322	292	322	201
45°	270	296	270	240	270	208
55°	209	235	209	182	209	187
65°	142	165	142	120	142	141
75°	72	87	72	58	72	77
85°	13	16	13	9	13	17
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°	407.2	407.2	407.2	407.2	407.2	407.2	407.2	407.2	407.2	407.2	407.2
2.5°	409.3	407.0	409.4	408.3	406.5	408.3	409.4	407.0	409.3	404.7	405.8
5°	408.0	408.1	410.4	410.1	408.6	410.1	410.4	408.1	408.0	401.8	401.3
7.5°	406.0	407.2	408.6	409.2	408.3	409.2	408.6	407.2	406.0	397.5	398.2
10°	402.5	405.2	408.3	409.4	407.8	409.4	408.3	405.2	402.5	393.0	392.5
12.5°	397.8	402.1	405.8	407.8	406.3	407.8	405.8	402.1	397.8	387.6	386.0
15°	393.1	397.2	402.9	404.7	403.6	404.7	402.9	397.2	393.1	381.7	380.1
17.5°	387.1	393.3	398.2	400.3	399.3	400.3	398.2	393.3	387.1	374.3	372.3
20°	379.3	386.9	391.4	394.6	393.3	394.6	391.4	386.9	379.3	364.8	363.7
22.5°	372.2	379.0	386.3	389.4	388.7	389.4	386.3	379.0	372.2	357.5	355.2
25°	363.6	371.2	378.5	382.6	382.4	382.6	378.5	371.2	363.6	348.2	344.6
27.5°	353.6	363.7	371.0	373.6	374.6	373.6	371.0	363.7	353.6	337.8	334.9
30°	343.1	354.7	361.2	365.3	366.9	365.3	361.2	354.7	343.1	327.4	323.8
32.5°	332.9	344.3	352.0	356.5	356.5	356.5	352.0	344.3	332.9	314.7	311.7
35°	321.6	333.6	341.4	345.3	347.1	345.3	341.4	333.6	321.6	303.1	299.5
37.5°	309.4	320.5	329.5	334.7	334.9	334.7	329.5	320.5	309.4	291.7	287.5
40°	296.9	307.9	317.3	322.5	324.1	322.5	317.3	307.9	296.9	279.2	274.8
42.5°	282.7	295.8	303.3	308.8	311.1	308.8	303.3	295.8	282.7	264.4	260.3
45°	269.5	280.8	290.1	295.5	296.4	295.5	290.1	280.8	269.5	251.2	246.8
47.5°	255.4	266.7	275.9	281.3	283.1	281.3	275.9	266.7	255.4	237.8	233.3
50°	240.5	252.2	260.1	265.5	267.6	265.5	260.1	252.2	240.5	223.4	219.3
52.5°	225.4	236.7	244.4	249.9	252.2	249.9	244.4	236.7	225.4	209.2	204.8
55°	208.7	220.3	226.3	232.0	235.4	232.0	226.3	220.3	208.7	193.4	189.2
57.5°	193.4	204.0	210.2	216.0	219.1	216.0	210.2	204.0	193.4	179.1	175.0
60°	176.3	185.4	193.1	198.4	200.4	198.4	193.1	185.4	176.3	162.6	157.9
62.5°	160.1	168.7	175.2	179.3	182.5	179.3	175.2	168.7	160.1	146.9	143.1
65°	142.3	150.9	156.1	161.5	164.6	161.5	156.1	150.9	142.3	131.1	127.0
67.5°	125.1	132.9	137.9	142.6	144.9	142.6	137.9	132.9	125.1	114.9	110.9
70°	108.1	114.9	119.0	123.7	126.2	123.7	119.0	114.9	108.1	98.5	95.7
72.5°	89.5	95.3	99.5	103.2	106.8	103.2	99.5	95.3	89.5	82.4	78.8
75°	72.0	77.5	79.8	84.2	87.4	84.2	79.8	77.5	72.0	66.1	63.3
77.5°	55.6	58.1	61.5	64.2	67.1	64.2	61.5	58.1	55.6	51.3	48.2
80°	39.5	41.2	43.5	45.3	48.5	45.3	43.5	41.2	39.5	36.8	33.4
82.5°	25.1	26.4	26.2	28.5	29.3	28.5	26.2	26.4	25.1	22.8	20.7
85°	13.3	13.7	14.0	15.3	15.5	15.3	14.0	13.7	13.3	11.7	10.1
87.5°	4.4	3.9	4.1	4.1	5.4	4.1	4.1	3.9	4.4	3.0	3.9
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°	407.2	407.2	407.2	407.2	407.2	407.2
2.5°	404.5	400.6	404.5	405.8	404.7	409.3
5°	399.5	396.4	399.5	401.3	401.8	408.0
7.5°	395.9	391.7	395.9	398.2	397.5	406.0
10°	389.6	386.5	389.6	392.5	393.0	402.5
12.5°	384.2	380.4	384.2	386.0	387.6	397.8
15°	376.7	373.0	376.7	380.1	381.7	393.1
17.5°	368.7	365.0	368.7	372.3	374.3	387.1
20°	360.1	356.2	360.1	363.7	364.8	379.3
22.5°	351.6	347.7	351.6	355.2	357.5	372.2
25°	340.7	337.6	340.7	344.6	348.2	363.6
27.5°	331.1	326.4	331.1	334.9	337.8	353.6
30°	319.9	316.6	319.9	323.8	327.4	343.1
32.5°	307.7	304.1	307.7	311.7	314.7	332.9
35°	295.8	292.1	295.8	299.5	303.1	321.6
37.5°	283.6	280.5	283.6	287.5	291.7	309.4
40°	270.9	267.3	270.9	274.8	279.2	296.9
42.5°	256.1	253.8	256.1	260.3	264.4	282.7
45°	242.4	240.3	242.4	246.8	251.2	269.5
47.5°	229.1	226.3	229.1	233.3	237.8	255.4
50°	214.9	211.3	214.9	219.3	223.4	240.5
52.5°	200.7	197.0	200.7	204.8	209.2	225.4
55°	184.9	182.5	184.9	189.2	193.4	208.7
57.5°	170.8	167.8	170.8	175.0	179.1	193.4
60°	154.0	151.9	154.0	157.9	162.6	176.3
62.5°	138.7	136.9	138.7	143.1	146.9	160.1
65°	123.7	119.8	123.7	127.0	131.1	142.3
67.5°	108.1	105.0	108.1	110.9	114.9	125.1
70°	92.3	89.4	92.3	95.7	98.5	108.1
72.5°	76.4	72.8	76.4	78.8	82.4	89.5
75°	61.1	57.7	61.1	63.3	66.1	72.0
77.5°	45.6	43.5	45.6	48.2	51.3	55.6
80°	32.1	29.5	32.1	33.4	36.8	39.5
82.5°	19.2	18.1	19.2	20.7	22.8	25.1
85°	9.0	9.0	9.0	10.1	11.7	13.3
87.5°	3.9	2.8	3.9	3.9	3.0	4.4
90°	0.5	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)