

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: LSI 14256

Luminaire Tested: **694-WP-RB-CF42**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: LSI 14256
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 694-WP-RB-CF42
Description: WET LOCATION DOWNLIGHT WALL MOUNT
Light Source: F42TTT 3200 LUMENS
Ballast/Driver: -

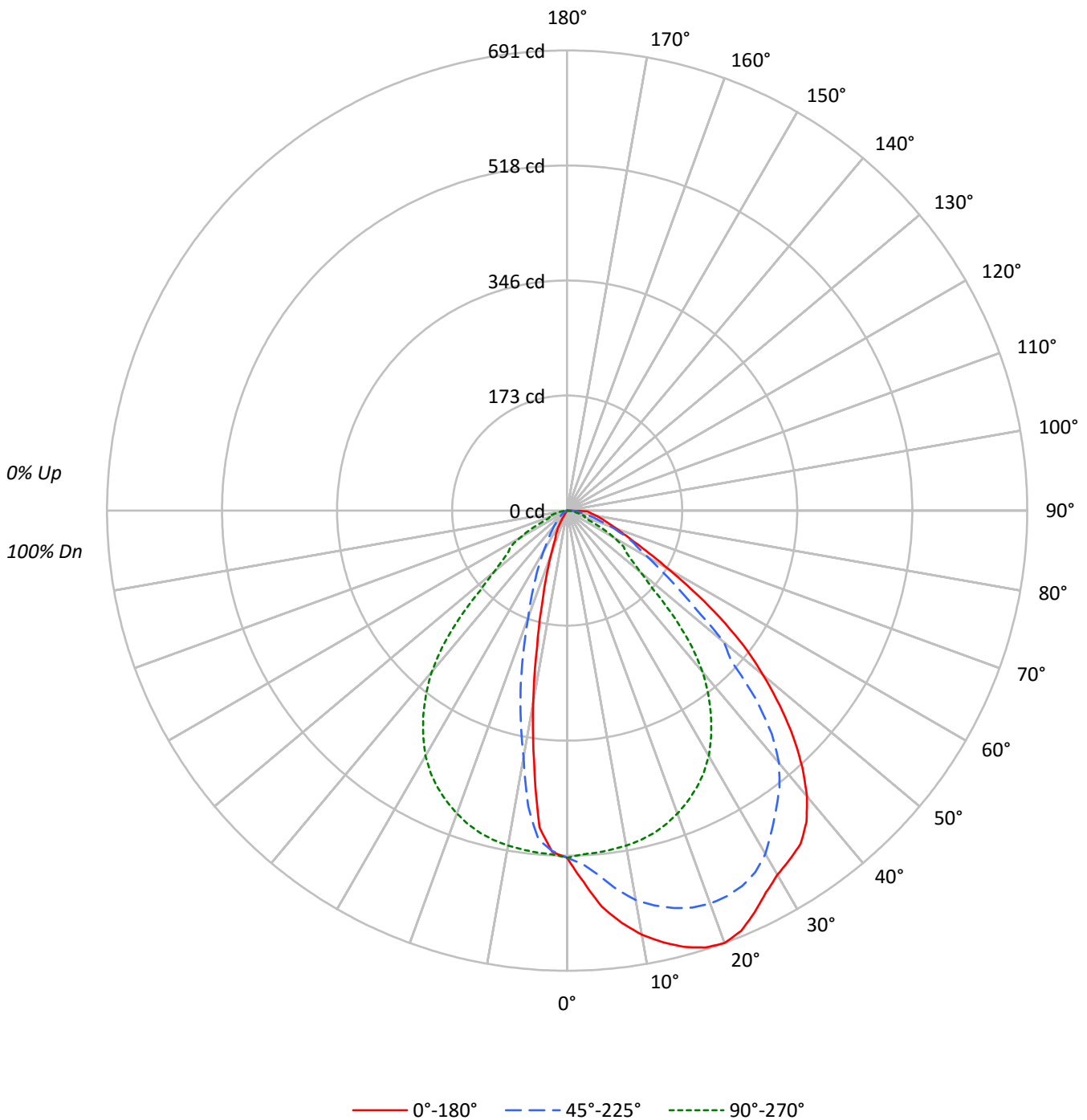
Summary

Lumens per Lamp: 3200 (1 lamp)
Luminaire Lumens: 917.6 lumens
Efficiency: 28.7%
Efficacy: 17.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.21 / 1.16
Luminous Opening: Rectangular (W 0.95' x L: 0.24' x H: 0')
CIE Type: Direct

Input Watts (W): 52
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	34	34	34	34	33	33	33	33	32	32	32	31	31	31	29	29	29	29
1	32	31	30	29	31	30	29	28	29	28	27	28	27	27	27	26	26	25
2	29	27	26	24	29	27	25	24	26	25	24	25	24	23	24	23	23	22
3	27	25	23	21	27	24	22	21	23	22	21	23	21	20	22	21	20	19
4	25	22	20	18	25	22	20	18	21	19	18	21	19	18	20	19	18	17
5	23	20	18	16	23	20	18	16	19	17	16	19	17	16	18	17	16	15
6	22	18	16	15	21	18	16	14	18	16	14	17	16	14	17	15	14	14
7	20	17	15	13	20	17	15	13	16	14	13	16	14	13	16	14	13	12
8	19	16	13	12	19	15	13	12	15	13	12	15	13	12	14	13	12	11
9	18	14	12	11	18	14	12	11	14	12	11	14	12	11	13	12	11	10
10	17	13	11	10	17	13	11	10	13	11	10	13	11	10	12	11	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	24615	24615	24615
5°	28287	24430	22629
10°	31007	24487	14103
15°	33152	24511	7107
20°	34726	24316	3522
25°	34677	23936	2063
30°	34425	23190	1019
35°	35219	21710	29
40°	34518	19518	31
45°	32054	15276	33
50°	28203	10532	37
55°	23005	8823	41
60°	16505	7771	47
65°	12344	4781	56
70°	10725	3755	69
75°	10525	3995	91
80°	11962	2963	136
85°	18634	1463	271



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	48.7	5.3	1.5
10°-20°	127.5	13.9	4.0
20°-30°	179.4	19.5	5.6
30°-40°	200.6	21.9	6.3
40°-50°	169.1	18.4	5.3
50°-60°	103.0	11.2	3.2
60°-70°	54.1	5.9	1.7
70°-80°	25.7	2.8	0.8
80°-90°	9.5	1.0	0.3
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°	355.6	38.7	11.1
0°-40°	556.2	60.6	17.4
0°-60°	828.3	90.3	25.9
0°-90°	917.6	100.0	28.7
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°	917.6	100.0	28.7

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	521	521	521	521	521	
5°	597	550	516	496	478	58
15°	678	618	502	268	145	192
25°	666	622	460	112	40	307
35°	611	547	377	45	0	379
45°	480	401	229	20	0	367
55°	280	203	107	9	0	249
65°	110	106	43	4	0	115
75°	58	42	22	2	0	62
85°	34	13	3	0	0	34
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°
0°	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4
2.5°	557.8	542.6	531.0	522.1	516.6	514.8	511.7	509.7	512.9
5°	596.9	577.8	549.9	525.7	515.5	509.7	495.6	473.1	477.5
7.5°	624.0	605.6	573.8	529.9	513.3	504.2	447.8	384.6	380.4
10°	646.8	627.1	593.8	536.8	510.8	491.7	376.4	306.3	294.2
12.5°	663.9	643.9	607.5	544.1	507.1	471.4	322.1	231.2	208.4
15°	678.3	657.0	617.9	550.7	501.5	446.3	268.5	164.6	145.4
17.5°	688.0	667.8	625.0	553.4	494.0	416.1	216.1	121.6	102.9
20°	691.2	674.7	628.2	552.1	484.0	382.4	170.9	86.6	70.1
22.5°	683.0	673.3	626.8	547.3	472.7	353.1	139.1	61.1	46.9
25°	665.7	663.4	622.1	540.3	459.5	324.5	112.1	44.0	39.6
27.5°	646.5	645.0	611.9	529.7	444.0	296.6	89.5	38.0	30.4
30°	631.5	624.4	595.3	515.3	425.4	270.6	71.1	32.3	18.7
32.5°	621.6	608.0	570.9	497.5	402.2	242.9	55.7	23.6	7.6
35°	611.1	592.9	547.0	475.4	376.7	216.1	44.9	14.9	0.5
37.5°	590.1	573.0	523.7	449.4	348.1	186.6	36.5	8.1	0.5
40°	560.1	548.3	494.8	419.0	316.7	158.8	30.4	3.6	0.5
42.5°	522.6	513.5	454.7	376.9	277.5	130.7	24.7	1.4	0.5
45°	480.1	468.3	401.3	307.1	228.8	105.5	20.2	0.5	0.5
47.5°	432.8	411.3	333.6	240.7	175.7	82.1	16.5	0.5	0.5
50°	384.0	338.3	306.8	200.8	143.4	64.3	13.6	0.5	0.5
52.5°	335.2	283.5	245.2	173.5	121.2	50.4	11.3	0.5	0.5
55°	279.5	241.5	202.6	156.4	107.2	39.4	9.4	0.5	0.5
57.5°	224.1	212.6	167.2	151.7	100.5	32.8	7.4	0.5	0.5
60°	174.8	184.6	140.2	129.4	82.3	27.6	5.8	0.5	0.5
62.5°	138.3	152.0	118.9	103.7	63.0	22.0	4.7	0.5	0.5
65°	110.5	128.7	105.5	71.9	42.8	16.5	3.6	0.5	0.5
67.5°	91.4	104.7	85.3	50.4	29.6	11.0	3.2	0.5	0.5
70°	77.7	82.6	69.5	44.6	27.2	6.8	2.7	0.5	0.5
72.5°	66.6	66.6	52.2	44.4	28.3	6.0	2.1	0.5	0.5
75°	57.7	55.3	42.5	40.4	21.9	5.6	1.8	0.5	0.5
77.5°	50.4	45.4	31.8	27.3	15.0	4.2	1.4	0.5	0.5
80°	44.0	39.1	24.4	20.5	10.9	2.7	1.0	0.5	0.5
82.5°	37.8	32.5	17.3	12.5	6.6	1.6	0.5	0.5	0.5
85°	34.4	28.9	13.1	5.6	2.7	0.8	0.5	0.5	0.5
87.5°	30.4	25.4	11.0	3.4	0.9	0.5	0.5	0.5	0.5
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)