

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P550872

Luminaire Tested: **FCC-X-2-LD4-1LO-50-UNV-80-84-ED1D**

Issue Date: 7/9/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P550872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-248-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FCC-X-2-LD4-1LO-50-UNV-80-84-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 5000K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

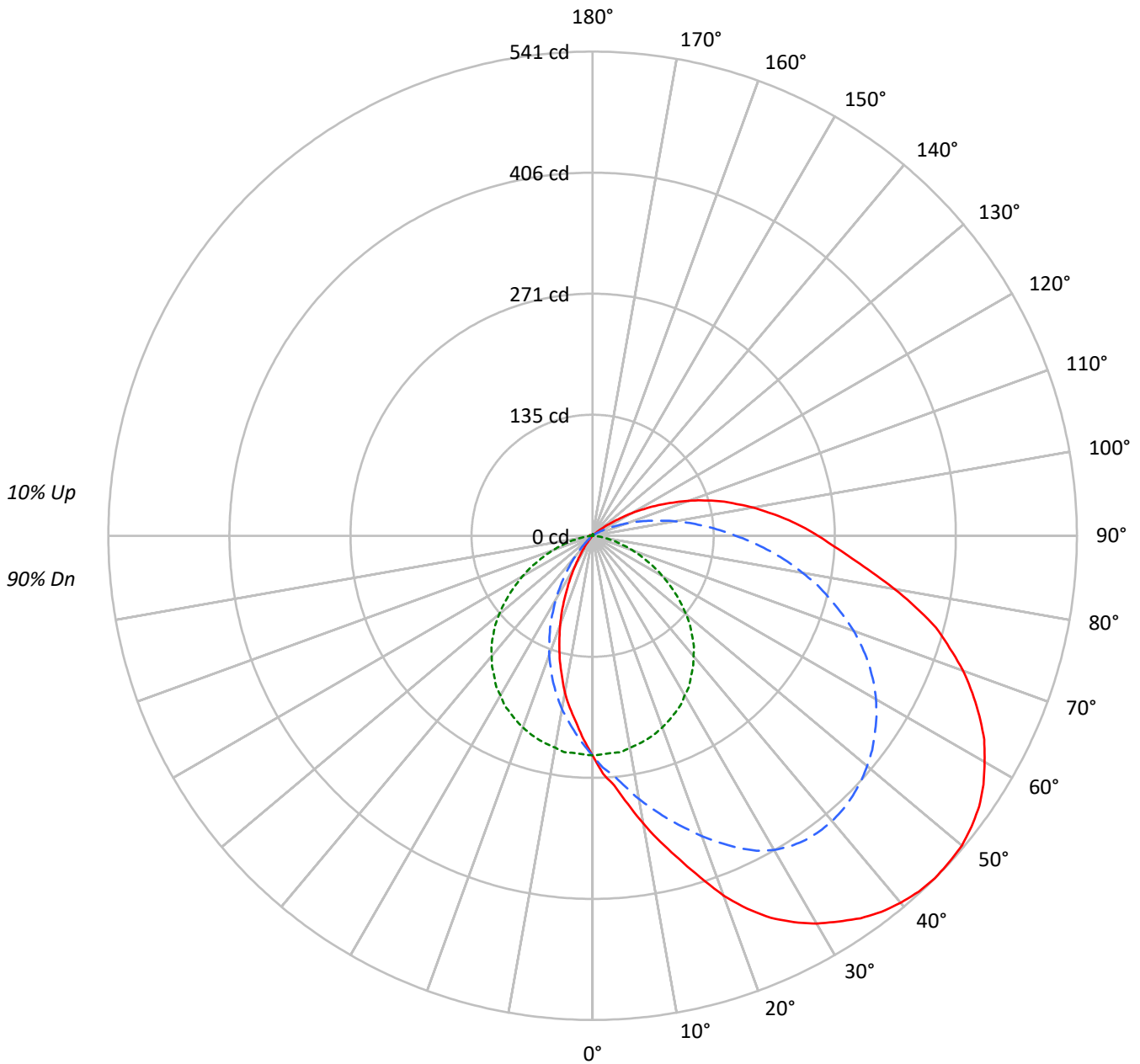
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1213.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 11.7
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90																			
1	103	96	91	86	99	93	88	83	87	83	79	81	78	74	76	73	70	67																			
2	92	82	74	67	88	79	72	65	74	67	62	69	64	59	64	60	56	53																			
3	83	71	61	54	79	68	60	53	64	56	50	59	53	48	55	50	46	43																			
4	75	62	52	44	72	60	51	44	56	48	42	52	45	40	49	43	38	36																			
5	69	55	45	38	66	53	44	37	50	42	35	46	39	34	43	38	33	30																			
6	63	49	39	32	61	47	38	32	44	36	31	42	35	29	39	33	28	26																			
7	58	44	35	28	56	43	34	28	40	32	27	38	31	26	36	29	25	23																			
8	54	40	31	25	52	39	30	24	37	29	24	34	28	23	32	26	22	20																			
9	51	36	28	22	49	35	27	22	33	26	21	32	25	20	30	24	20	18																			
10	47	33	25	20	45	33	25	19	31	24	19	29	23	18	28	22	18	16																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	2641	2641	2641
5°	2900	2603	2171
10°	3281	2571	1790
15°	3676	2538	1394
20°	4147	2497	1027
25°	4536	2449	674
30°	4826	2385	380
35°	5078	2315	167
40°	5300	2229	41
45°	5490	2123	0
50°	5651	1982	0
55°	5773	1801	0
60°	5834	1593	0
65°	5859	1356	0
70°	5839	1106	0
75°	5765	817	4
80°	5532	501	26
85°	5347	239	35



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	1.9
10°-20°	70.4	5.8
20°-30°	114.0	9.4
30°-40°	146.4	12.1
40°-50°	165.7	13.7
50°-60°	171.7	14.2
60°-70°	161.9	13.3
70°-80°	135.7	11.2
80°-90°	98.4	8.1
90°-100°	64.6	5.3
100°-110°	37.3	3.1
110°-120°	16.5	1.4
120°-130°	4.5	0.4
130°-140°	1.0	0.1
140°-150°	0.7	0.1
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	207.8	17.1
0°-40°	354.2	29.2
0°-60°	691.6	57.0
0°-90°	1087.6	89.7
90°-120°	118.4	9.8
90°-150°	124.6	10.3
90°-180°	125.0	10.3
0°-180°	1213.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	245	245	245	245	245	
5°	280	269	244	221	210	28
15°	374	328	235	170	142	108
25°	471	385	218	112	70	218
35°	522	415	192	54	17	327
45°	541	411	157	12	0	418
55°	527	385	113	0	0	471
65°	477	341	68	0	0	472
75°	397	275	29	0	0	417
85°	291	199	5	1	2	248
90°	252	160	1	2	2	138
95°	216	125	1	2	3	170
105°	149	64	1	2	2	157
115°	81	21	1	1	2	81
125°	24	3	1	1	1	24
135°	1	1	2	1	1	2
145°	0	1	1	1	1	0
155°	1	1	1	1	0	0
165°	1	1	1	1	0	0
175°	1	1	2	1	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
0°	245.4	245.4	245.4	245.4	245.4	245.4	245.4	245.4	245.4	245.4	245.4
2.5°	266.0	265.7	264.7	263.2	261.0	257.2	254.1	251.3	247.5	244.4	238.5
5°	280.1	278.5	277.2	275.7	270.7	267.2	261.6	255.4	249.4	243.5	231.6
7.5°	302.6	300.1	298.2	293.8	286.9	279.1	270.4	264.4	260.4	243.8	223.5
10°	326.6	324.4	320.7	312.9	304.4	293.2	280.7	266.6	254.1	240.4	216.3
12.5°	350.4	347.3	341.9	331.9	320.1	306.0	288.8	272.2	254.4	238.2	207.9
15°	374.1	370.7	365.1	352.9	337.3	318.8	297.9	276.9	256.0	235.4	199.1
17.5°	400.1	395.4	387.0	373.2	353.5	330.7	306.0	280.7	255.4	231.9	189.7
20°	427.9	421.3	412.3	393.8	370.7	343.8	314.1	284.4	255.1	227.9	179.1
22.5°	451.0	444.5	434.5	415.4	387.6	354.8	321.0	286.9	253.8	223.2	169.1
25°	471.0	465.7	454.8	432.9	403.5	366.3	327.6	288.8	251.9	218.2	158.5
27.5°	486.7	481.7	469.5	447.0	417.0	376.6	332.6	289.7	249.4	213.2	147.5
30°	500.4	495.4	480.7	457.6	426.0	384.8	337.6	290.1	246.3	205.7	135.7
32.5°	511.0	506.3	491.3	466.7	432.3	390.4	340.4	289.7	242.2	200.4	122.8
35°	521.7	517.0	499.5	473.2	437.0	392.9	342.6	288.2	237.2	191.6	110.6
37.5°	529.8	524.5	506.7	477.6	439.1	393.5	342.3	286.0	231.9	184.4	98.5
40°	535.4	529.8	510.7	480.1	439.8	392.6	339.8	282.2	225.7	175.3	85.6
42.5°	539.2	532.9	512.6	483.8	438.5	390.1	336.0	277.6	218.8	167.5	73.5
45°	541.0	534.5	512.9	480.7	436.3	385.4	330.4	271.6	211.3	156.9	61.3
47.5°	540.1	532.9	511.4	477.3	432.3	380.4	324.1	264.4	202.2	147.5	49.7
50°	538.5	531.0	507.9	472.9	426.6	374.1	317.2	255.7	192.9	136.0	39.4
52.5°	533.5	526.0	504.2	466.7	420.1	366.9	307.9	246.6	182.8	124.7	30.0
55°	527.3	520.4	497.6	461.0	411.6	358.2	299.1	236.9	173.2	113.1	21.6
57.5°	517.6	511.4	489.5	452.0	403.2	348.5	289.4	226.3	161.0	101.6	15.0
60°	505.7	499.5	478.2	441.6	393.5	337.6	278.8	215.4	150.0	90.0	9.4
62.5°	493.2	487.3	465.1	428.8	381.3	326.0	267.2	204.4	138.5	79.4	5.6
65°	476.7	471.0	451.0	413.5	367.9	313.5	254.4	191.3	126.6	67.5	3.1
67.5°	459.2	454.2	433.8	399.5	352.3	299.7	241.3	178.5	114.1	57.2	1.6
70°	440.4	434.1	415.4	380.4	336.3	284.1	226.9	165.3	102.2	47.2	0.0
72.5°	418.5	413.8	395.7	362.6	317.9	267.6	212.2	151.0	89.1	37.5	0.3
75°	397.3	391.3	374.8	343.5	299.7	250.0	196.0	137.5	76.3	28.8	0.3
77.5°	369.8	367.9	352.3	321.9	282.6	233.2	178.2	121.3	64.1	20.6	0.3
80°	342.3	340.4	328.2	300.4	262.6	213.2	161.6	106.0	52.2	13.8	0.3
82.5°	315.1	312.6	301.0	277.9	242.2	196.3	144.4	90.6	41.3	8.4	0.3
85°	290.7	287.6	275.1	253.8	221.3	177.2	126.6	75.6	30.6	4.7	0.6
87.5°	269.7	267.6	253.8	231.9	200.0	159.4	111.0	61.3	21.6	2.2	0.9
90°	251.9	247.2	235.0	211.9	180.0	139.7	94.4	49.1	14.4	1.3	1.3
92.5°	234.4	230.4	216.9	193.2	162.2	122.8	78.5	37.5	9.1	0.6	1.6
95°	216.3	211.9	198.8	176.9	144.1	105.6	64.4	27.5	5.0	0.6	1.6
97.5°	198.5	194.4	180.7	158.8	127.8	90.6	50.9	19.4	2.5	0.6	1.3
100°	181.9	177.2	164.7	142.8	111.6	75.6	39.4	12.5	1.6	0.6	1.3
102.5°	164.4	160.7	147.8	126.6	94.7	61.6	29.4	7.8	0.6	0.6	0.9
105°	148.8	144.1	131.6	109.7	80.6	48.4	20.6	4.7	0.6	0.6	0.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	96.9	93.1	82.2	63.8	40.9	19.1	5.6	0.9	0.9	0.9	0.9
115°	81.0	75.3	65.6	49.4	30.3	12.5	2.8	0.9	0.9	0.9	0.9
117.5°	64.7	60.0	53.1	37.5	20.0	8.1	1.6	0.9	0.9	0.9	0.9
120°	50.6	46.3	38.4	25.9	13.4	4.7	0.6	0.9	0.9	0.9	0.9
122.5°	36.3	32.8	25.9	16.9	8.1	2.2	0.9	0.9	1.3	1.3	0.9
125°	24.1	22.2	17.2	10.3	5.0	0.9	0.9	0.9	1.3	1.3	0.9
127.5°	15.6	14.1	10.0	5.9	2.2	0.9	0.9	1.3	1.3	1.3	0.9
130°	8.8	7.8	5.9	3.4	0.9	0.9	0.9	1.3	1.3	1.3	0.9
132.5°	5.0	4.7	3.1	0.6	0.9	0.9	0.9	1.3	1.3	1.3	1.3
135°	1.3	0.6	0.6	0.6	0.9	0.9	1.3	1.3	1.6	1.6	1.3
137.5°	0.3	0.3	0.6	0.6	0.9	0.9	1.3	1.6	1.6	1.6	1.3
140°	0.3	0.3	0.6	0.9	0.9	0.9	1.3	1.6	1.6	1.6	1.3
142.5°	0.3	0.6	0.6	0.9	0.9	1.3	1.3	1.6	1.6	1.3	1.3
145°	0.3	0.6	0.6	0.9	0.9	1.3	1.3	1.6	1.3	1.3	1.3
147.5°	0.6	0.6	0.6	0.9	0.9	1.3	1.3	1.6	1.6	1.3	1.3
150°	0.3	0.6	0.6	0.9	1.3	1.3	1.3	1.6	1.3	1.3	1.3
152.5°	0.3	0.6	0.6	0.9	1.3	1.3	1.3	1.6	1.3	1.3	1.3
155°	0.6	0.6	0.6	0.9	1.3	1.3	1.3	1.6	1.3	1.3	1.6
157.5°	0.6	0.6	0.6	0.9	1.3	1.3	1.3	1.6	1.3	1.3	1.6
160°	0.6	0.6	0.6	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3
162.5°	0.6	0.6	0.6	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3
165°	0.6	0.6	0.6	0.6	0.9	0.9	1.3	1.3	1.3	1.3	1.3
167.5°	0.6	0.6	0.6	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.3
170°	0.6	0.6	0.6	0.9	0.9	0.9	1.3	1.6	1.6	1.6	1.6
172.5°	0.6	0.6	0.6	0.9	0.9	1.3	1.3	1.6	1.6	1.6	1.6
175°	0.6	0.6	0.6	0.9	0.9	1.3	1.3	1.6	1.6	1.6	1.6
177.5°	0.3	0.6	0.6	0.9	0.9	1.3	1.3	1.6	1.6	1.6	1.3
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	245.4	245.4	245.4
2.5°	233.5	229.1	227.9
5°	221.0	213.8	209.7
7.5°	208.5	198.8	194.1
10°	196.9	183.2	178.2
12.5°	183.2	167.2	159.4
15°	170.0	149.4	141.9
17.5°	155.3	132.2	123.5
20°	141.6	115.0	106.0
22.5°	126.0	98.1	88.1
25°	111.9	81.3	70.0
27.5°	96.3	64.1	54.4
30°	81.6	49.1	39.4
32.5°	67.5	35.9	27.2
35°	54.4	24.4	17.2
37.5°	41.9	15.0	8.8
40°	30.3	7.8	4.1
42.5°	20.3	3.8	2.2
45°	12.5	1.9	0.0
47.5°	7.2	0.0	0.0
50°	3.8	0.0	0.0
52.5°	1.6	0.0	0.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	0.0
62.5°	0.0	0.0	0.0
65°	0.0	0.0	0.0
67.5°	0.0	0.0	0.0
70°	0.0	0.0	0.0
72.5°	0.0	0.0	0.0
75°	0.3	0.3	0.3
77.5°	0.3	0.6	0.9
80°	0.6	1.3	1.6
82.5°	1.3	1.6	1.6
85°	1.3	1.6	1.9
87.5°	1.6	1.9	2.2
90°	1.9	2.2	2.2
92.5°	1.9	2.5	2.5
95°	2.2	2.5	2.8
97.5°	2.5	2.8	2.8
100°	2.2	2.8	3.1
102.5°	1.9	2.8	2.8
105°	1.6	2.2	2.5



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	1.3	1.6	1.6
115°	0.9	1.3	1.6
117.5°	0.9	1.3	1.3
120°	0.9	0.9	1.3
122.5°	0.9	0.9	1.3
125°	0.9	0.9	1.3
127.5°	1.3	0.9	0.9
130°	0.9	0.9	0.9
132.5°	1.3	0.9	0.9
135°	1.3	0.9	0.9
137.5°	1.3	0.9	0.9
140°	1.3	0.9	0.9
142.5°	1.3	0.9	0.9
145°	0.9	0.9	0.9
147.5°	0.9	0.9	0.9
150°	0.9	0.9	0.6
152.5°	0.9	0.6	0.6
155°	0.9	0.6	0.3
157.5°	1.3	0.6	0.3
160°	0.9	0.6	0.3
162.5°	0.9	0.6	0.3
165°	0.9	0.6	0.0
167.5°	0.9	0.6	0.3
170°	0.9	0.6	0.3
172.5°	0.9	0.6	0.3
175°	0.9	0.3	0.3
177.5°	0.9	0.3	0.3
180°	0.9	0.9	0.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	131.3	127.5	115.0	94.4	66.0	36.9	13.8	2.5	0.6	0.9	0.9
110°	114.4	111.3	98.5	78.5	53.1	27.5	9.1	1.6	0.9	0.9	0.9





107.5°	1.3	1.9	2.2
110°	1.3	1.6	1.9



(END OF REPORT)