

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: P550876

Luminaire Tested: **FCC-X-2-LD4-1LO-50-UNV-80-86-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: P550876
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-80-86-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 5000K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

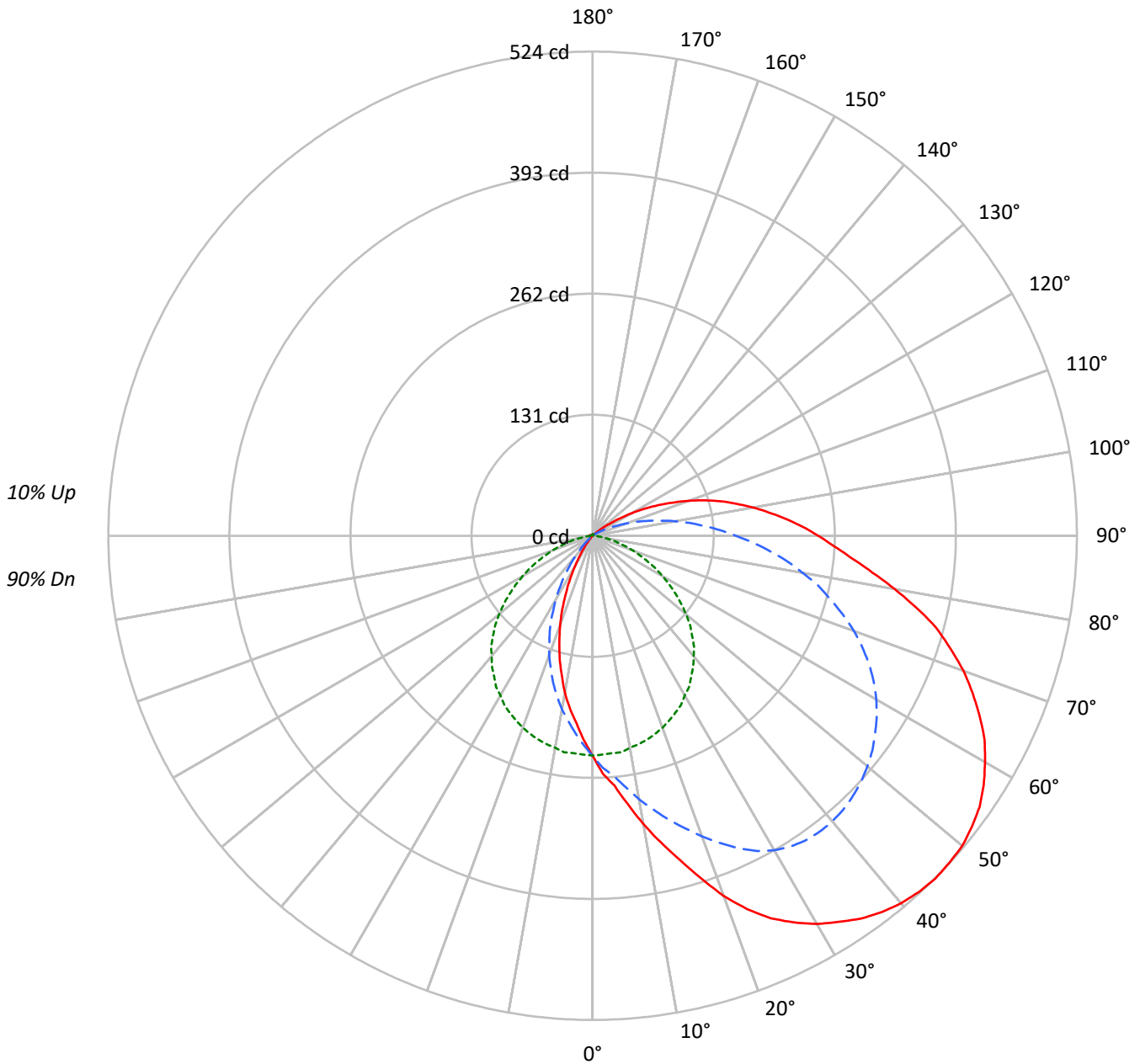
Lumens per Lamp: N/A
Luminaire Lumens: 1175.9 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

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

TEST NUMBER: P550876

CATALOG NUMBER: FCC-X-2-LD4-1LO-50-UNV-80-86-ED1D

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	2561	2561	2561
5°	2811	2523	2105
10°	3181	2492	1735
15°	3564	2461	1352
20°	4020	2420	995
25°	4399	2374	654
30°	4679	2312	368
35°	4923	2245	163
40°	5138	2162	39
45°	5323	2058	0
50°	5478	1921	0
55°	5597	1747	0
60°	5656	1545	0
65°	5680	1316	0
70°	5661	1073	0
75°	5588	791	4
80°	5362	482	24
85°	5183	229	33



TEST NUMBER: P550876

CATALOG NUMBER: FCC-X-2-LD4-1LO-50-UNV-80-86-ED1D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.8	1.9
10°-20°	68.2	5.8
20°-30°	110.5	9.4
30°-40°	141.9	12.1
40°-50°	160.7	13.7
50°-60°	166.4	14.2
60°-70°	157.0	13.3
70°-80°	131.5	11.2
80°-90°	95.3	8.1
90°-100°	62.7	5.3
100°-110°	36.2	3.1
110°-120°	16.0	1.4
120°-130°	4.3	0.4
130°-140°	1.0	0.1
140°-150°	0.6	0.1
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	201.5	17.1
0°-40°	343.4	29.2
0°-60°	670.5	57.0
0°-90°	1054.4	89.7
90°-120°	114.8	9.8
90°-150°	120.8	10.3
90°-180°	122.0	10.4
0°-180°	1175.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	238	238	238	238	238	
5°	272	261	236	214	203	27
15°	363	318	228	165	138	105
25°	457	373	212	108	68	211
35°	506	402	186	53	17	317
45°	524	398	152	12	0	405
55°	511	373	110	0	0	456
65°	462	330	66	0	0	457
75°	385	266	28	0	0	404
85°	282	193	4	1	2	241
90°	244	155	1	2	2	134
95°	210	121	1	2	3	165
105°	144	63	1	2	2	152
115°	78	21	1	1	2	79
125°	23	3	1	1	1	23
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	



TEST NUMBER: P550876

CATALOG NUMBER: FCC-X-2-LD4-1LO-50-UNV-80-86-ED1D

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
0°	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9
2.5°	257.9	257.6	256.7	255.1	253.0	249.4	246.4	243.6	240.0	237.0	231.2
5°	271.5	270.0	268.8	267.3	262.4	259.1	253.6	247.6	241.8	236.1	224.5
7.5°	293.3	290.9	289.1	284.8	278.2	270.6	262.1	256.4	252.4	236.4	216.7
10°	316.7	314.5	310.9	303.3	295.1	284.2	272.1	258.5	246.4	233.0	209.7
12.5°	339.7	336.7	331.5	321.8	310.3	296.7	280.0	263.9	246.7	230.9	201.5
15°	362.7	359.4	353.9	342.1	327.0	309.1	288.8	268.5	248.2	228.2	193.0
17.5°	387.9	383.3	375.1	361.8	342.7	320.6	296.7	272.1	247.6	224.8	183.9
20°	414.8	408.5	399.7	381.8	359.4	333.3	304.5	275.8	247.3	220.9	173.6
22.5°	437.3	430.9	421.2	402.7	375.8	343.9	311.2	278.2	246.1	216.4	163.9
25°	456.7	451.5	440.9	419.7	391.2	355.1	317.6	280.0	244.2	211.5	153.6
27.5°	471.8	467.0	455.1	433.3	404.2	365.1	322.4	280.9	241.8	206.7	143.0
30°	485.1	480.3	466.1	443.6	413.0	373.0	327.3	281.2	238.8	199.4	131.5
32.5°	495.4	490.9	476.4	452.4	419.1	378.5	330.0	280.9	234.8	194.2	119.1
35°	505.8	501.2	484.2	458.8	423.6	380.9	332.1	279.4	230.0	185.8	107.3
37.5°	513.6	508.5	491.2	463.0	425.8	381.5	331.8	277.3	224.8	178.8	95.5
40°	519.1	513.6	495.1	465.5	426.4	380.6	329.4	273.6	218.8	170.0	83.0
42.5°	522.7	516.7	497.0	469.1	425.1	378.2	325.8	269.1	212.1	162.4	71.2
45°	524.5	518.2	497.3	466.1	423.0	373.6	320.3	263.3	204.8	152.1	59.4
47.5°	523.6	516.7	495.8	462.7	419.1	368.8	314.2	256.4	196.1	143.0	48.2
50°	522.1	514.8	492.4	458.5	413.6	362.7	307.6	247.9	187.0	131.8	38.2
52.5°	517.3	510.0	488.8	452.4	407.3	355.8	298.5	239.1	177.3	120.9	29.1
55°	511.2	504.5	482.4	447.0	399.1	347.3	290.0	229.7	167.9	109.7	20.9
57.5°	501.8	495.8	474.5	438.2	390.9	337.9	280.6	219.4	156.1	98.5	14.5
60°	490.3	484.2	463.6	428.2	381.5	327.3	270.3	208.8	145.5	87.3	9.1
62.5°	478.2	472.4	450.9	415.8	369.7	316.1	259.1	198.2	134.2	77.0	5.5
65°	462.1	456.7	437.3	400.9	356.7	303.9	246.7	185.5	122.7	65.5	3.0
67.5°	445.1	440.3	420.6	387.3	341.5	290.6	233.9	173.0	110.6	55.5	1.5
70°	427.0	420.9	402.7	368.8	326.1	275.5	220.0	160.3	99.1	45.8	0.0
72.5°	405.8	401.2	383.6	351.5	308.2	259.4	205.8	146.4	86.4	36.4	0.3
75°	385.1	379.4	363.3	333.0	290.6	242.4	190.0	133.3	73.9	27.9	0.3
77.5°	358.5	356.7	341.5	312.1	273.9	226.1	172.7	117.6	62.1	20.0	0.3
80°	331.8	330.0	318.2	291.2	254.5	206.7	156.7	102.7	50.6	13.3	0.3
82.5°	305.5	303.0	291.8	269.4	234.8	190.3	140.0	87.9	40.0	8.2	0.3
85°	281.8	278.8	266.7	246.1	214.5	171.8	122.7	73.3	29.7	4.5	0.6
87.5°	261.5	259.4	246.1	224.8	193.9	154.5	107.6	59.4	20.9	2.1	0.9
90°	244.2	239.7	227.9	205.5	174.5	135.5	91.5	47.6	13.9	1.2	1.2
92.5°	227.3	223.3	210.3	187.3	157.3	119.1	76.1	36.4	8.8	0.6	1.5
95°	209.7	205.5	192.7	171.5	139.7	102.4	62.4	26.7	4.8	0.6	1.5
97.5°	192.4	188.5	175.1	153.9	123.9	87.9	49.4	18.8	2.4	0.6	1.2
100°	176.4	171.8	159.7	138.5	108.2	73.3	38.2	12.1	1.5	0.6	1.2
102.5°	159.4	155.8	143.3	122.7	91.8	59.7	28.5	7.6	0.6	0.6	0.9
105°	144.2	139.7	127.6	106.4	78.2	47.0	20.0	4.5	0.6	0.6	0.9



TEST NUMBER: P550876

CATALOG NUMBER: FCC-X-2-LD4-1LO-50-UNV-80-86-ED1D

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	93.9	90.3	79.7	61.8	39.7	18.5	5.5	0.9	0.9	0.9	0.9
115°	78.5	73.0	63.6	47.9	29.4	12.1	2.7	0.9	0.9	0.9	0.9
117.5°	62.7	58.2	51.5	36.4	19.4	7.9	1.5	0.9	0.9	0.9	0.9
120°	49.1	44.8	37.3	25.2	13.0	4.5	0.6	0.9	0.9	0.9	0.9
122.5°	35.2	31.8	25.2	16.4	7.9	2.1	0.9	0.9	1.2	1.2	0.9
125°	23.3	21.5	16.7	10.0	4.8	0.9	0.9	0.9	1.2	1.2	0.9
127.5°	15.2	13.6	9.7	5.8	2.1	0.9	0.9	1.2	1.2	1.2	0.9
130°	8.5	7.6	5.8	3.3	0.9	0.9	0.9	1.2	1.2	1.2	0.9
132.5°	4.8	4.5	3.0	0.6	0.9	0.9	0.9	1.2	1.2	1.2	1.2
135°	1.2	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.5	1.5	1.2
137.5°	0.3	0.3	0.6	0.6	0.9	0.9	1.2	1.5	1.5	1.5	1.2
140°	0.3	0.3	0.6	0.9	0.9	0.9	1.2	1.5	1.5	1.5	1.2
142.5°	0.3	0.6	0.6	0.9	0.9	1.2	1.2	1.5	1.5	1.2	1.2
145°	0.3	0.6	0.6	0.9	0.9	1.2	1.2	1.5	1.2	1.2	1.2
147.5°	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.5	1.5	1.2	1.2
150°	0.3	0.6	0.6	0.9	1.2	1.2	1.2	1.5	1.2	1.2	1.2
152.5°	0.3	0.6	0.6	0.9	1.2	1.2	1.2	1.5	1.2	1.2	1.2
155°	0.6	0.6	0.6	0.9	1.2	1.2	1.2	1.5	1.2	1.2	1.5
157.5°	0.6	0.6	0.6	0.9	1.2	1.2	1.2	1.5	1.2	1.2	1.5
160°	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.2	1.2	1.2	1.2
162.5°	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.2	1.2	1.2	1.2
165°	0.6	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.2	1.2	1.2
167.5°	0.6	0.6	0.6	0.9	0.9	0.9	1.2	1.2	1.2	1.2	1.2
170°	0.6	0.6	0.6	0.9	0.9	0.9	1.2	1.5	1.5	1.5	1.5
172.5°	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.5	1.5	1.5	1.5
175°	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.5	1.5	1.5	1.5
177.5°	0.3	0.6	0.6	0.9	0.9	1.2	1.2	1.5	1.5	1.5	1.2
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P550876

CATALOG NUMBER: FCC-X-2-LD4-1LO-50-UNV-80-86-ED1D

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	237.9	237.9	237.9
2.5°	226.4	222.1	220.9
5°	214.2	207.3	203.3
7.5°	202.1	192.7	188.2
10°	190.9	177.6	172.7
12.5°	177.6	162.1	154.5
15°	164.8	144.8	137.6
17.5°	150.6	128.2	119.7
20°	137.3	111.5	102.7
22.5°	122.1	95.2	85.5
25°	108.5	78.8	67.9
27.5°	93.3	62.1	52.7
30°	79.1	47.6	38.2
32.5°	65.5	34.8	26.4
35°	52.7	23.6	16.7
37.5°	40.6	14.5	8.5
40°	29.4	7.6	3.9
42.5°	19.7	3.6	2.1
45°	12.1	1.8	0.0
47.5°	7.0	0.0	0.0
50°	3.6	0.0	0.0
52.5°	1.5	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	1.2	1.5
82.5°	1.2	1.5	1.5
85°	1.2	1.5	1.8
87.5°	1.5	1.8	2.1
90°	1.8	2.1	2.1
92.5°	1.8	2.4	2.4
95°	2.1	2.4	2.7
97.5°	2.4	2.7	2.7
100°	2.1	2.7	3.0
102.5°	1.8	2.7	2.7
105°	1.5	2.1	2.4



TEST NUMBER: P550876

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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	1.2	1.5	1.5
115°	0.9	1.2	1.5
117.5°	0.9	1.2	1.2
120°	0.9	0.9	1.2
122.5°	0.9	0.9	1.2
125°	0.9	0.9	1.2
127.5°	1.2	0.9	0.9
130°	0.9	0.9	0.9
132.5°	1.2	0.9	0.9
135°	1.2	0.9	0.9
137.5°	1.2	0.9	0.9
140°	1.2	0.9	0.9
142.5°	1.2	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°	1.2	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°	127.3	123.6	111.5	91.5	63.9	35.8	13.3	2.4	0.6	0.9	0.9
110°	110.9	107.9	95.5	76.1	51.5	26.7	8.8	1.5	0.9	0.9	0.9





107.5°	1.2	1.8	2.1
110°	1.2	1.5	1.8



(END OF REPORT)