

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: P550885

Luminaire Tested: **FCC-X-2-LD4-1LO-50-UNV-80-97-ED1D-90**

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: P550885
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-80-97-ED1D-90
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 5000K, AND 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

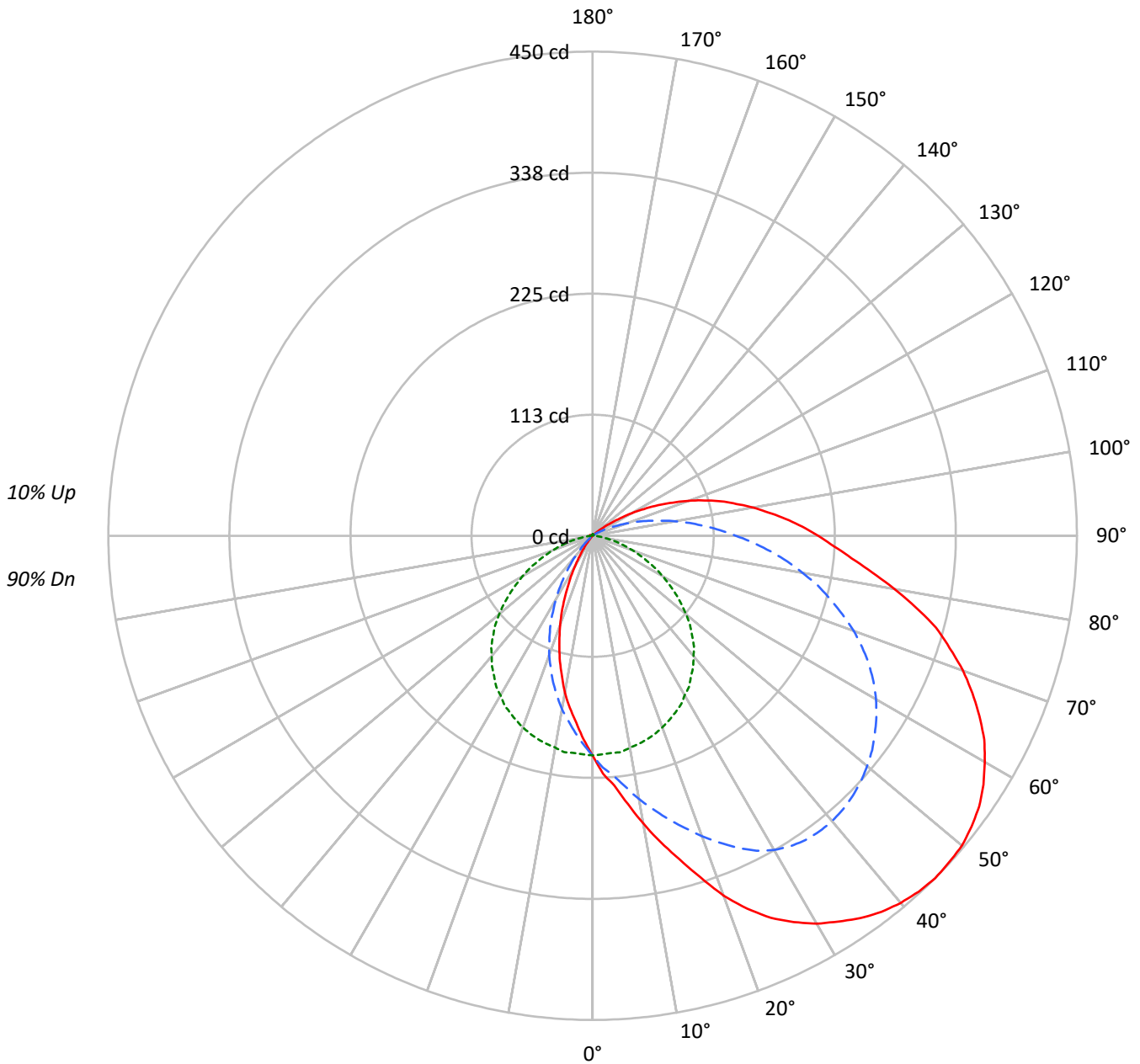
Lumens per Lamp: N/A
Luminaire Lumens: 1009.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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									
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°	2197	2197	2197
5°	2412	2164	1806
10°	2729	2138	1489
15°	3058	2111	1160
20°	3449	2076	854
25°	3773	2037	561
30°	4015	1983	316
35°	4223	1926	139
40°	4409	1855	34
45°	4568	1766	0
50°	4701	1648	0
55°	4802	1498	0
60°	4854	1325	0
65°	4873	1129	0
70°	4856	921	0
75°	4796	678	4
80°	4601	414	21
85°	4447	198	29



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.6	1.9
10°-20°	58.5	5.8
20°-30°	94.8	9.4
30°-40°	121.8	12.1
40°-50°	137.8	13.7
50°-60°	142.8	14.2
60°-70°	134.7	13.3
70°-80°	112.9	11.2
80°-90°	81.8	8.1
90°-100°	53.8	5.3
100°-110°	31.1	3.1
110°-120°	13.7	1.4
120°-130°	3.7	0.4
130°-140°	0.8	0.1
140°-150°	0.6	0.1
150°-160°	0.4	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	172.9	17.1
0°-40°	294.7	29.2
0°-60°	575.3	57.0
0°-90°	904.7	89.7
90°-120°	98.5	9.8
90°-150°	103.6	10.3
90°-180°	104.0	10.3
0°-180°	1009.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	204	204	204	204	204	
5°	233	224	202	184	174	23
15°	311	273	196	141	118	90
25°	392	320	182	93	58	181
35°	434	345	159	45	14	272
45°	450	342	130	10	0	347
55°	439	320	94	0	0	392
65°	396	283	56	0	0	392
75°	330	229	24	0	0	347
85°	242	166	4	1	2	206
90°	210	133	1	2	2	115
95°	180	104	0	2	2	141
105°	124	54	0	1	2	131
115°	67	18	1	1	1	67
125°	20	2	1	1	1	20
135°	1	1	1	1	1	2
145°	0	1	1	1	1	0
155°	0	1	1	1	0	0
165°	0	1	1	1	0	0
175°	0	1	1	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°	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1
2.5°	221.3	221.0	220.2	218.9	217.1	214.0	211.4	209.0	205.9	203.3	198.4
5°	233.0	231.7	230.6	229.3	225.2	222.3	217.6	212.4	207.5	202.5	192.7
7.5°	251.7	249.6	248.0	244.4	238.7	232.2	224.9	220.0	216.6	202.8	185.9
10°	271.7	269.9	266.8	260.3	253.2	243.9	233.5	221.8	211.4	199.9	179.9
12.5°	291.5	288.9	284.4	276.1	266.2	254.5	240.2	226.5	211.6	198.1	172.9
15°	311.2	308.4	303.7	293.5	280.5	265.2	247.8	230.4	212.9	195.8	165.6
17.5°	332.8	328.9	321.9	310.4	294.1	275.1	254.5	233.5	212.4	192.9	157.8
20°	355.9	350.5	342.9	327.6	308.4	286.0	261.3	236.6	212.2	189.5	149.0
22.5°	375.2	369.7	361.4	345.5	322.4	295.1	267.0	238.7	211.1	185.6	140.7
25°	391.8	387.4	378.3	360.1	335.7	304.7	272.5	240.2	209.6	181.5	131.8
27.5°	404.8	400.7	390.5	371.8	346.8	313.3	276.6	241.0	207.5	177.3	122.7
30°	416.3	412.1	399.9	380.6	354.4	320.1	280.8	241.3	204.9	171.1	112.8
32.5°	425.1	421.2	408.7	388.2	359.6	324.7	283.1	241.0	201.5	166.7	102.2
35°	433.9	430.0	415.5	393.6	363.5	326.8	285.0	239.7	197.3	159.4	92.0
37.5°	440.7	436.3	421.5	397.3	365.3	327.3	284.7	237.9	192.9	153.4	81.9
40°	445.4	440.7	424.8	399.4	365.8	326.6	282.6	234.8	187.7	145.9	71.2
42.5°	448.5	443.3	426.4	402.5	364.8	324.5	279.5	230.9	182.0	139.4	61.1
45°	450.1	444.6	426.7	399.9	363.0	320.6	274.8	225.9	175.8	130.5	51.0
47.5°	449.3	443.3	425.4	397.0	359.6	316.4	269.6	220.0	168.2	122.7	41.3
50°	448.0	441.7	422.5	393.4	354.9	311.2	263.9	212.7	160.4	113.1	32.8
52.5°	443.8	437.6	419.4	388.2	349.4	305.2	256.1	205.1	152.1	103.7	25.0
55°	438.6	432.9	413.9	383.5	342.4	298.0	248.8	197.1	144.0	94.1	17.9
57.5°	430.6	425.4	407.2	376.0	335.4	289.9	240.8	188.2	133.9	84.5	12.5
60°	420.7	415.5	397.8	367.4	327.3	280.8	231.9	179.1	124.8	74.9	7.8
62.5°	410.3	405.3	386.9	356.7	317.2	271.2	222.3	170.0	115.2	66.0	4.7
65°	396.5	391.8	375.2	344.0	306.0	260.8	211.6	159.1	105.3	56.2	2.6
67.5°	381.9	377.8	360.9	332.3	293.0	249.3	200.7	148.5	94.9	47.6	1.3
70°	366.3	361.1	345.5	316.4	279.8	236.3	188.8	137.5	85.0	39.3	0.0
72.5°	348.1	344.2	329.2	301.6	264.4	222.6	176.5	125.6	74.1	31.2	0.3
75°	330.5	325.5	311.7	285.7	249.3	208.0	163.0	114.4	63.4	23.9	0.3
77.5°	307.6	306.0	293.0	267.8	235.0	194.0	148.2	100.9	53.3	17.2	0.3
80°	284.7	283.1	273.0	249.9	218.4	177.3	134.4	88.1	43.4	11.4	0.3
82.5°	262.1	260.0	250.4	231.1	201.5	163.3	120.1	75.4	34.3	7.0	0.3
85°	241.8	239.2	228.8	211.1	184.1	147.4	105.3	62.9	25.5	3.9	0.5
87.5°	224.4	222.6	211.1	192.9	166.4	132.6	92.3	51.0	17.9	1.8	0.8
90°	209.6	205.7	195.5	176.3	149.8	116.2	78.5	40.8	12.0	1.0	1.0
92.5°	195.0	191.6	180.4	160.7	134.9	102.2	65.3	31.2	7.5	0.5	1.3
95°	179.9	176.3	165.4	147.2	119.9	87.9	53.6	22.9	4.2	0.5	1.3
97.5°	165.1	161.7	150.3	132.1	106.3	75.4	42.4	16.1	2.1	0.5	1.0
100°	151.3	147.4	137.0	118.8	92.8	62.9	32.8	10.4	1.3	0.5	1.0
102.5°	136.8	133.6	123.0	105.3	78.8	51.2	24.4	6.5	0.5	0.5	0.8
105°	123.8	119.9	109.5	91.3	67.1	40.3	17.2	3.9	0.5	0.5	0.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	80.6	77.5	68.4	53.0	34.1	15.9	4.7	0.8	0.8	0.8	0.8
115°	67.3	62.7	54.6	41.1	25.2	10.4	2.3	0.8	0.8	0.8	0.8
117.5°	53.8	49.9	44.2	31.2	16.6	6.8	1.3	0.8	0.8	0.8	0.8
120°	42.1	38.5	32.0	21.6	11.2	3.9	0.5	0.8	0.8	0.8	0.8
122.5°	30.2	27.3	21.6	14.0	6.8	1.8	0.8	0.8	1.0	1.0	0.8
125°	20.0	18.5	14.3	8.6	4.2	0.8	0.8	0.8	1.0	1.0	0.8
127.5°	13.0	11.7	8.3	4.9	1.8	0.8	0.8	1.0	1.0	1.0	0.8
130°	7.3	6.5	4.9	2.9	0.8	0.8	0.8	1.0	1.0	1.0	0.8
132.5°	4.2	3.9	2.6	0.5	0.8	0.8	0.8	1.0	1.0	1.0	1.0
135°	1.0	0.5	0.5	0.5	0.8	0.8	1.0	1.0	1.3	1.3	1.0
137.5°	0.3	0.3	0.5	0.5	0.8	0.8	1.0	1.3	1.3	1.3	1.0
140°	0.3	0.3	0.5	0.8	0.8	0.8	1.0	1.3	1.3	1.3	1.0
142.5°	0.3	0.5	0.5	0.8	0.8	1.0	1.0	1.3	1.3	1.0	1.0
145°	0.3	0.5	0.5	0.8	0.8	1.0	1.0	1.3	1.0	1.0	1.0
147.5°	0.5	0.5	0.5	0.8	0.8	1.0	1.0	1.3	1.3	1.0	1.0
150°	0.3	0.5	0.5	0.8	1.0	1.0	1.0	1.3	1.0	1.0	1.0
152.5°	0.3	0.5	0.5	0.8	1.0	1.0	1.0	1.3	1.0	1.0	1.0
155°	0.5	0.5	0.5	0.8	1.0	1.0	1.0	1.3	1.0	1.0	1.3
157.5°	0.5	0.5	0.5	0.8	1.0	1.0	1.0	1.3	1.0	1.0	1.3
160°	0.5	0.5	0.5	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0
162.5°	0.5	0.5	0.5	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0
165°	0.5	0.5	0.5	0.5	0.8	0.8	1.0	1.0	1.0	1.0	1.0
167.5°	0.5	0.5	0.5	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.0
170°	0.5	0.5	0.5	0.8	0.8	0.8	1.0	1.3	1.3	1.3	1.3
172.5°	0.5	0.5	0.5	0.8	0.8	1.0	1.0	1.3	1.3	1.3	1.3
175°	0.5	0.5	0.5	0.8	0.8	1.0	1.0	1.3	1.3	1.3	1.3
177.5°	0.3	0.5	0.5	0.8	0.8	1.0	1.0	1.3	1.3	1.3	1.0
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	204.1	204.1	204.1
2.5°	194.2	190.6	189.5
5°	183.8	177.8	174.5
7.5°	173.4	165.4	161.5
10°	163.8	152.4	148.2
12.5°	152.4	139.1	132.6
15°	141.4	124.3	118.0
17.5°	129.2	110.0	102.7
20°	117.8	95.7	88.1
22.5°	104.8	81.6	73.3
25°	93.1	67.6	58.2
27.5°	80.1	53.3	45.2
30°	67.9	40.8	32.8
32.5°	56.2	29.9	22.6
35°	45.2	20.3	14.3
37.5°	34.8	12.5	7.3
40°	25.2	6.5	3.4
42.5°	16.9	3.1	1.8
45°	10.4	1.6	0.0
47.5°	6.0	0.0	0.0
50°	3.1	0.0	0.0
52.5°	1.3	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	0.5	0.8
80°	0.5	1.0	1.3
82.5°	1.0	1.3	1.3
85°	1.0	1.3	1.6
87.5°	1.3	1.6	1.8
90°	1.6	1.8	1.8
92.5°	1.6	2.1	2.1
95°	1.8	2.1	2.3
97.5°	2.1	2.3	2.3
100°	1.8	2.3	2.6
102.5°	1.6	2.3	2.3
105°	1.3	1.8	2.1



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	1.0	1.3	1.3
115°	0.8	1.0	1.3
117.5°	0.8	1.0	1.0
120°	0.8	0.8	1.0
122.5°	0.8	0.8	1.0
125°	0.8	0.8	1.0
127.5°	1.0	0.8	0.8
130°	0.8	0.8	0.8
132.5°	1.0	0.8	0.8
135°	1.0	0.8	0.8
137.5°	1.0	0.8	0.8
140°	1.0	0.8	0.8
142.5°	1.0	0.8	0.8
145°	0.8	0.8	0.8
147.5°	0.8	0.8	0.8
150°	0.8	0.8	0.5
152.5°	0.8	0.5	0.5
155°	0.8	0.5	0.3
157.5°	1.0	0.5	0.3
160°	0.8	0.5	0.3
162.5°	0.8	0.5	0.3
165°	0.8	0.5	0.0
167.5°	0.8	0.5	0.3
170°	0.8	0.5	0.3
172.5°	0.8	0.5	0.3
175°	0.8	0.3	0.3
177.5°	0.8	0.3	0.3
180°	0.8	0.8	0.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	109.2	106.1	95.7	78.5	54.9	30.7	11.4	2.1	0.5	0.8	0.8
110°	95.2	92.6	81.9	65.3	44.2	22.9	7.5	1.3	0.8	0.8	0.8





107.5°	1.0	1.6	1.8
110°	1.0	1.3	1.6



(END OF REPORT)