

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: P550748

Luminaire Tested: **FCC-X-2-LD4-1LO-35-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: P550748
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-35-UNV-80-86-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

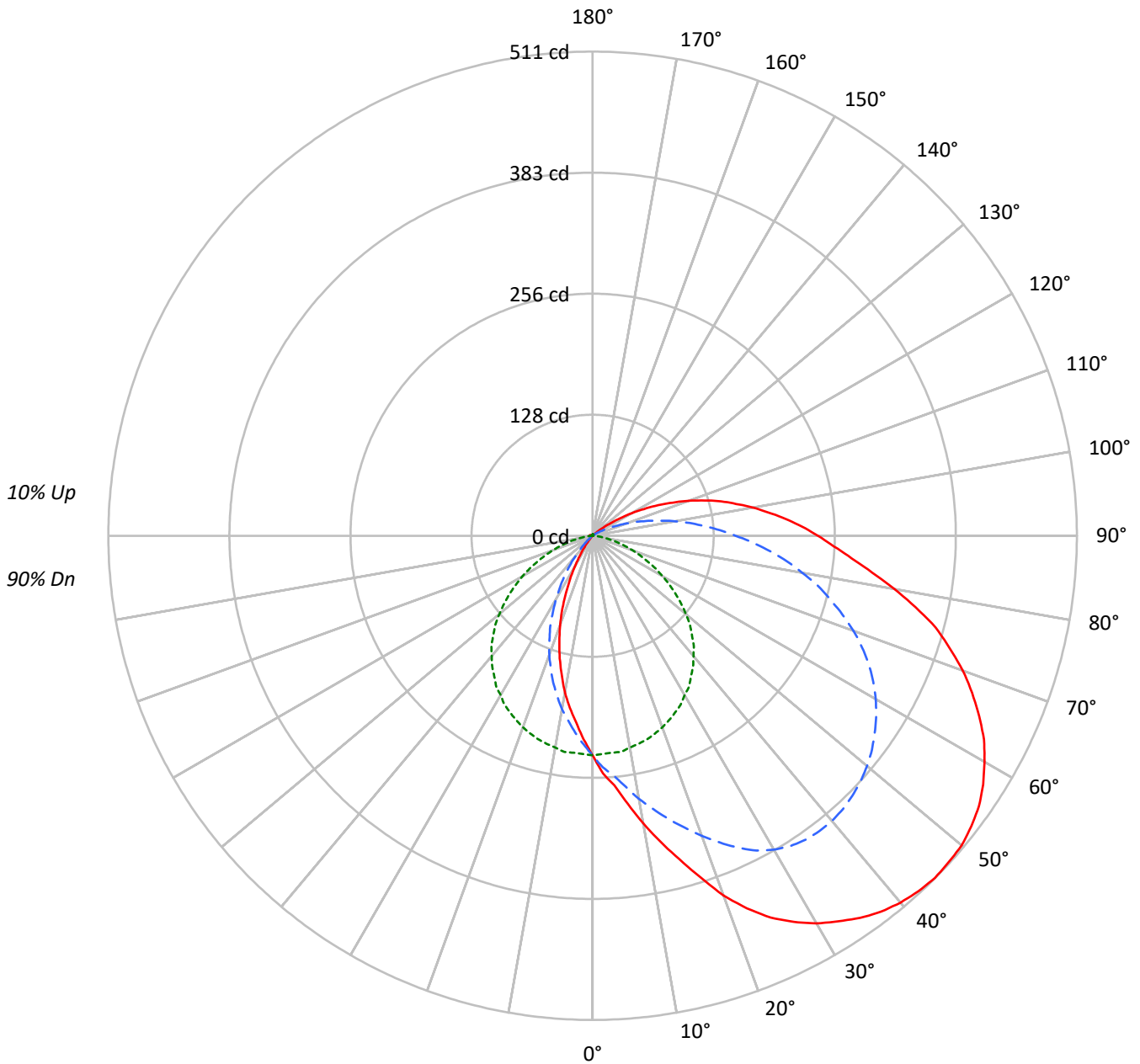
Lumens per Lamp: N/A
Luminaire Lumens: 1145.1 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

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°	2493	2493	2493
5°	2737	2456	2050
10°	3097	2427	1689
15°	3471	2396	1316
20°	3914	2357	969
25°	4282	2311	637
30°	4556	2250	359
35°	4792	2186	158
40°	5003	2105	38
45°	5183	2004	0
50°	5335	1870	0
55°	5449	1701	0
60°	5508	1504	0
65°	5530	1279	0
70°	5511	1045	0
75°	5442	769	4
80°	5222	472	24
85°	5047	224	33



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	1.9
10°-20°	66.4	5.8
20°-30°	107.6	9.4
30°-40°	138.2	12.1
40°-50°	156.4	13.7
50°-60°	162.1	14.2
60°-70°	152.8	13.3
70°-80°	128.1	11.2
80°-90°	92.8	8.1
90°-100°	61.0	5.3
100°-110°	35.3	3.1
110°-120°	15.6	1.4
120°-130°	4.2	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°	196.2	17.1
0°-40°	334.4	29.2
0°-60°	652.8	57.0
0°-90°	1026.6	89.7
90°-120°	111.9	9.8
90°-150°	117.7	10.3
90°-180°	119.0	10.4
0°-180°	1145.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	232	232	232	232	232	
5°	264	254	230	209	198	27
15°	353	310	222	160	134	102
25°	445	363	206	106	66	205
35°	492	392	181	51	16	309
45°	511	388	148	12	0	394
55°	498	363	107	0	0	444
65°	450	322	64	0	0	445
75°	375	259	27	0	0	393
85°	274	188	4	1	2	234
90°	238	151	1	2	2	130
95°	204	118	1	2	3	160
105°	140	61	1	2	2	148
115°	76	20	1	1	2	77
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	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
0°	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6
2.5°	251.1	250.8	249.9	248.4	246.4	242.8	239.9	237.2	233.7	230.7	225.1
5°	264.4	262.9	261.7	260.2	255.5	252.3	246.9	241.0	235.4	229.8	218.6
7.5°	285.6	283.2	281.5	277.3	270.8	263.5	255.2	249.6	245.8	230.1	211.0
10°	308.3	306.3	302.7	295.3	287.4	276.7	264.9	251.7	239.9	226.9	204.2
12.5°	330.7	327.8	322.8	313.3	302.1	288.8	272.6	257.0	240.2	224.8	196.2
15°	353.2	349.9	344.6	333.1	318.3	300.9	281.2	261.4	241.6	222.2	187.9
17.5°	377.7	373.2	365.3	352.3	333.7	312.2	288.8	264.9	241.0	218.9	179.1
20°	403.9	397.7	389.2	371.7	349.9	324.5	296.5	268.5	240.8	215.1	169.1
22.5°	425.7	419.5	410.1	392.1	365.8	334.9	303.0	270.8	239.6	210.7	159.6
25°	444.6	439.6	429.3	408.6	380.9	345.8	309.2	272.6	237.8	205.9	149.6
27.5°	459.4	454.7	443.1	421.9	393.6	355.5	313.9	273.5	235.4	201.2	139.3
30°	472.4	467.6	453.8	431.9	402.1	363.2	318.6	273.8	232.5	194.1	128.0
32.5°	482.4	478.0	463.8	440.5	408.0	368.5	321.3	273.5	228.7	189.1	116.0
35°	492.4	488.0	471.5	446.7	412.5	370.9	323.4	272.0	223.9	180.9	104.4
37.5°	500.1	495.1	478.3	450.8	414.5	371.5	323.1	270.0	218.9	174.1	92.9
40°	505.4	500.1	482.1	453.2	415.1	370.6	320.7	266.4	213.0	165.5	80.8
42.5°	508.9	503.0	483.9	456.7	413.9	368.2	317.2	262.0	206.5	158.1	69.3
45°	510.7	504.5	484.2	453.8	411.9	363.8	311.9	256.4	199.4	148.1	57.8
47.5°	509.8	503.0	482.7	450.5	408.0	359.1	306.0	249.6	190.9	139.3	46.9
50°	508.4	501.3	479.4	446.4	402.7	353.2	299.5	241.3	182.0	128.3	37.2
52.5°	503.6	496.6	475.9	440.5	396.5	346.4	290.6	232.8	172.6	117.7	28.3
55°	497.7	491.2	469.7	435.2	388.6	338.1	282.4	223.6	163.5	106.8	20.4
57.5°	488.6	482.7	462.0	426.6	380.6	329.0	273.2	213.6	151.9	95.9	14.2
60°	477.4	471.5	451.4	416.9	371.5	318.6	263.2	203.3	141.6	85.0	8.9
62.5°	465.6	460.0	439.0	404.8	359.9	307.7	252.3	193.0	130.7	74.9	5.3
65°	449.9	444.6	425.7	390.3	347.3	295.9	240.2	180.6	119.5	63.7	3.0
67.5°	433.4	428.7	409.5	377.1	332.5	282.9	227.8	168.5	107.7	54.0	1.5
70°	415.7	409.8	392.1	359.1	317.5	268.2	214.2	156.1	96.5	44.6	0.0
72.5°	395.1	390.6	373.5	342.2	300.1	252.6	200.3	142.5	84.1	35.4	0.3
75°	375.0	369.4	353.8	324.2	282.9	236.0	185.0	129.8	72.0	27.1	0.3
77.5°	349.0	347.3	332.5	303.9	266.7	220.1	168.2	114.5	60.5	19.5	0.3
80°	323.1	321.3	309.8	283.5	247.8	201.2	152.5	100.0	49.3	13.0	0.3
82.5°	297.4	295.0	284.1	262.3	228.7	185.3	136.3	85.6	38.9	8.0	0.3
85°	274.4	271.4	259.6	239.6	208.9	167.3	119.5	71.4	28.9	4.4	0.6
87.5°	254.6	252.6	239.6	218.9	188.8	150.5	104.7	57.8	20.4	2.1	0.9
90°	237.8	233.4	221.9	200.0	169.9	131.9	89.1	46.3	13.6	1.2	1.2
92.5°	221.3	217.4	204.8	182.3	153.1	116.0	74.1	35.4	8.6	0.6	1.5
95°	204.2	200.0	187.6	167.0	136.0	99.7	60.8	26.0	4.7	0.6	1.5
97.5°	187.4	183.5	170.5	149.9	120.7	85.6	48.1	18.3	2.4	0.6	1.2
100°	171.7	167.3	155.5	134.8	105.3	71.4	37.2	11.8	1.5	0.6	1.2
102.5°	155.2	151.7	139.6	119.5	89.4	58.1	27.7	7.4	0.6	0.6	0.9
105°	140.4	136.0	124.2	103.6	76.1	45.7	19.5	4.4	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°	91.5	87.9	77.6	60.2	38.7	18.0	5.3	0.9	0.9	0.9	0.9
115°	76.4	71.1	62.0	46.6	28.6	11.8	2.7	0.9	0.9	0.9	0.9
117.5°	61.1	56.6	50.2	35.4	18.9	7.7	1.5	0.9	0.9	0.9	0.9
120°	47.8	43.7	36.3	24.5	12.7	4.4	0.6	0.9	0.9	0.9	0.9
122.5°	34.2	31.0	24.5	15.9	7.7	2.1	0.9	0.9	1.2	1.2	0.9
125°	22.7	20.9	16.2	9.7	4.7	0.9	0.9	0.9	1.2	1.2	0.9
127.5°	14.8	13.3	9.4	5.6	2.1	0.9	0.9	1.2	1.2	1.2	0.9
130°	8.3	7.4	5.6	3.2	0.9	0.9	0.9	1.2	1.2	1.2	0.9
132.5°	4.7	4.4	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



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	231.6	231.6	231.6
2.5°	220.4	216.3	215.1
5°	208.6	201.8	198.0
7.5°	196.8	187.6	183.2
10°	185.9	172.9	168.2
12.5°	172.9	157.8	150.5
15°	160.5	141.0	133.9
17.5°	146.6	124.8	116.5
20°	133.7	108.6	100.0
22.5°	118.9	92.6	83.2
25°	105.6	76.7	66.1
27.5°	90.9	60.5	51.3
30°	77.0	46.3	37.2
32.5°	63.7	33.9	25.7
35°	51.3	23.0	16.2
37.5°	39.5	14.2	8.3
40°	28.6	7.4	3.8
42.5°	19.2	3.5	2.1
45°	11.8	1.8	0.0
47.5°	6.8	0.0	0.0
50°	3.5	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



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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°	123.9	120.4	108.6	89.1	62.3	34.8	13.0	2.4	0.6	0.9	0.9
110°	108.0	105.0	92.9	74.1	50.2	26.0	8.6	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)