

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: P550875

Luminaire Tested: **FCC-X-2-LD4-1LO-50-UNV-80-86-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: P550875
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-90
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 5000K, AND 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

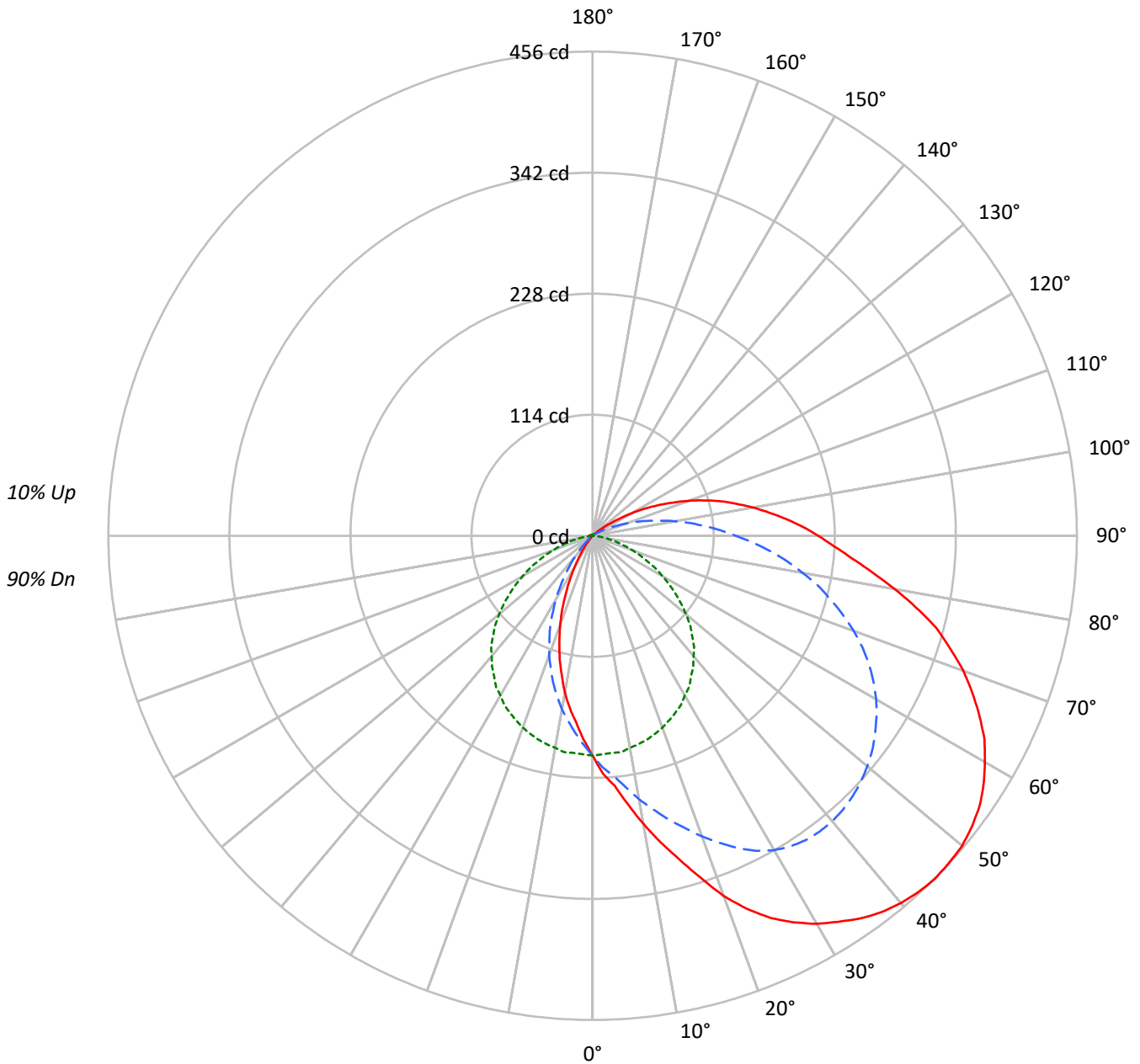
Lumens per Lamp: N/A
Luminaire Lumens: 1023.1 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

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°	2227	2227	2227
5°	2445	2194	1831
10°	2767	2168	1510
15°	3100	2140	1176
20°	3498	2106	866
25°	3825	2065	568
30°	4070	2011	320
35°	4282	1953	141
40°	4470	1881	34
45°	4631	1790	0
50°	4766	1672	0
55°	4869	1519	0
60°	4920	1343	0
65°	4941	1143	0
70°	4924	932	0
75°	4861	689	4
80°	4664	421	21
85°	4510	203	29



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.8	1.9
10°-20°	59.3	5.8
20°-30°	96.1	9.4
30°-40°	123.5	12.1
40°-50°	139.8	13.7
50°-60°	144.8	14.2
60°-70°	136.5	13.3
70°-80°	114.4	11.2
80°-90°	82.9	8.1
90°-100°	54.5	5.3
100°-110°	31.5	3.1
110°-120°	13.9	1.4
120°-130°	3.8	0.4
130°-140°	0.9	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°	175.3	17.1
0°-40°	298.7	29.2
0°-60°	583.3	57.0
0°-90°	917.2	89.7
90°-120°	99.9	9.8
90°-150°	105.1	10.3
90°-180°	106.0	10.4
0°-180°	1023.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	207	207	207	207	207	
5°	236	227	205	186	177	24
15°	316	277	198	143	120	91
25°	397	325	184	94	59	184
35°	440	350	162	46	14	276
45°	456	346	132	10	0	352
55°	445	325	95	0	0	397
65°	402	287	57	0	0	398
75°	335	232	24	0	0	351
85°	245	168	4	1	2	209
90°	212	135	1	2	2	117
95°	182	105	0	2	2	143
105°	126	54	0	1	2	132
115°	68	18	1	1	1	68
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°	206.9	206.9	206.9	206.9	206.9	206.9	206.9	206.9	206.9	206.9	206.9
2.5°	224.3	224.1	223.3	222.0	220.1	216.9	214.3	211.9	208.8	206.1	201.1
5°	236.2	234.9	233.8	232.5	228.3	225.4	220.6	215.4	210.4	205.3	195.3
7.5°	255.2	253.1	251.5	247.8	242.0	235.4	228.0	223.0	219.6	205.6	188.5
10°	275.5	273.6	270.5	263.9	256.7	247.3	236.7	224.9	214.3	202.7	182.4
12.5°	295.5	292.9	288.4	279.9	269.9	258.1	243.6	229.6	214.6	200.9	175.3
15°	315.5	312.6	307.9	297.6	284.4	268.9	251.2	233.6	215.9	198.5	167.9
17.5°	337.4	333.5	326.3	314.7	298.1	278.9	258.1	236.7	215.4	195.6	160.0
20°	360.9	355.3	347.7	332.1	312.6	290.0	264.9	239.9	215.1	192.2	151.0
22.5°	380.4	374.8	366.4	350.3	326.9	299.2	270.7	242.0	214.0	188.2	142.6
25°	397.2	392.8	383.5	365.1	340.3	308.9	276.3	243.6	212.5	184.0	133.6
27.5°	410.4	406.2	395.9	377.0	351.6	317.6	280.5	244.4	210.4	179.8	124.4
30°	422.0	417.8	405.4	385.9	359.3	324.5	284.7	244.6	207.7	173.5	114.4
32.5°	431.0	427.0	414.4	393.6	364.6	329.2	287.1	244.4	204.3	169.0	103.6
35°	440.0	436.0	421.2	399.1	368.5	331.3	288.9	243.0	200.1	161.6	93.3
37.5°	446.8	442.3	427.3	402.8	370.4	331.9	288.6	241.2	195.6	155.5	83.0
40°	451.6	446.8	430.7	404.9	370.9	331.1	286.5	238.0	190.3	147.9	72.2
42.5°	454.7	449.4	432.3	408.1	369.8	329.0	283.4	234.1	184.5	141.3	61.9
45°	456.3	450.8	432.6	405.4	368.0	325.0	278.6	229.1	178.2	132.3	51.7
47.5°	455.5	449.4	431.3	402.5	364.6	320.8	273.4	223.0	170.6	124.4	41.9
50°	454.2	447.9	428.4	398.8	359.8	315.5	267.6	215.6	162.6	114.7	33.2
52.5°	450.0	443.6	425.2	393.6	354.3	309.5	259.6	208.0	154.2	105.2	25.3
55°	444.7	438.9	419.7	388.8	347.2	302.1	252.3	199.8	146.0	95.4	18.2
57.5°	436.5	431.3	412.8	381.2	340.0	293.9	244.1	190.8	135.8	85.7	12.7
60°	426.5	421.2	403.3	372.5	331.9	284.7	235.1	181.6	126.5	75.9	7.9
62.5°	416.0	411.0	392.2	361.7	321.6	274.9	225.4	172.4	116.8	67.0	4.7
65°	402.0	397.2	380.4	348.7	310.3	264.4	214.6	161.3	106.8	56.9	2.6
67.5°	387.2	383.0	365.9	336.9	297.1	252.8	203.5	150.5	96.2	48.2	1.3
70°	371.4	366.1	350.3	320.8	283.6	239.6	191.4	139.4	86.2	39.8	0.0
72.5°	353.0	349.0	333.7	305.8	268.1	225.6	179.0	127.3	75.1	31.6	0.3
75°	335.0	330.0	316.1	289.7	252.8	210.9	165.3	116.0	64.3	24.3	0.3
77.5°	311.8	310.3	297.1	271.5	238.3	196.6	150.3	102.3	54.0	17.4	0.3
80°	288.6	287.1	276.8	253.3	221.4	179.8	136.3	89.4	44.0	11.6	0.3
82.5°	265.7	263.6	253.8	234.3	204.3	165.5	121.8	76.4	34.8	7.1	0.3
85°	245.2	242.5	232.0	214.0	186.6	149.5	106.8	63.8	25.8	4.0	0.5
87.5°	227.5	225.6	214.0	195.6	168.7	134.4	93.6	51.7	18.2	1.8	0.8
90°	212.5	208.5	198.2	178.7	151.8	117.8	79.6	41.4	12.1	1.1	1.1
92.5°	197.7	194.3	182.9	162.9	136.8	103.6	66.2	31.6	7.6	0.5	1.3
95°	182.4	178.7	167.7	149.2	121.5	89.1	54.3	23.2	4.2	0.5	1.3
97.5°	167.4	164.0	152.4	133.9	107.8	76.4	43.0	16.3	2.1	0.5	1.1
100°	153.4	149.5	138.9	120.5	94.1	63.8	33.2	10.5	1.3	0.5	1.1
102.5°	138.7	135.5	124.7	106.8	79.9	51.9	24.8	6.6	0.5	0.5	0.8
105°	125.5	121.5	111.0	92.5	68.0	40.9	17.4	4.0	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°	81.7	78.6	69.3	53.8	34.5	16.1	4.7	0.8	0.8	0.8	0.8
115°	68.3	63.5	55.4	41.6	25.6	10.5	2.4	0.8	0.8	0.8	0.8
117.5°	54.6	50.6	44.8	31.6	16.9	6.9	1.3	0.8	0.8	0.8	0.8
120°	42.7	39.0	32.4	21.9	11.3	4.0	0.5	0.8	0.8	0.8	0.8
122.5°	30.6	27.7	21.9	14.2	6.9	1.8	0.8	0.8	1.1	1.1	0.8
125°	20.3	18.7	14.5	8.7	4.2	0.8	0.8	0.8	1.1	1.1	0.8
127.5°	13.2	11.9	8.4	5.0	1.8	0.8	0.8	1.1	1.1	1.1	0.8
130°	7.4	6.6	5.0	2.9	0.8	0.8	0.8	1.1	1.1	1.1	0.8
132.5°	4.2	4.0	2.6	0.5	0.8	0.8	0.8	1.1	1.1	1.1	1.1
135°	1.1	0.5	0.5	0.5	0.8	0.8	1.1	1.1	1.3	1.3	1.1
137.5°	0.3	0.3	0.5	0.5	0.8	0.8	1.1	1.3	1.3	1.3	1.1
140°	0.3	0.3	0.5	0.8	0.8	0.8	1.1	1.3	1.3	1.3	1.1
142.5°	0.3	0.5	0.5	0.8	0.8	1.1	1.1	1.3	1.3	1.1	1.1
145°	0.3	0.5	0.5	0.8	0.8	1.1	1.1	1.3	1.1	1.1	1.1
147.5°	0.5	0.5	0.5	0.8	0.8	1.1	1.1	1.3	1.3	1.1	1.1
150°	0.3	0.5	0.5	0.8	1.1	1.1	1.1	1.3	1.1	1.1	1.1
152.5°	0.3	0.5	0.5	0.8	1.1	1.1	1.1	1.3	1.1	1.1	1.1
155°	0.5	0.5	0.5	0.8	1.1	1.1	1.1	1.3	1.1	1.1	1.3
157.5°	0.5	0.5	0.5	0.8	1.1	1.1	1.1	1.3	1.1	1.1	1.3
160°	0.5	0.5	0.5	0.8	0.8	1.1	1.1	1.1	1.1	1.1	1.1
162.5°	0.5	0.5	0.5	0.8	0.8	1.1	1.1	1.1	1.1	1.1	1.1
165°	0.5	0.5	0.5	0.5	0.8	0.8	1.1	1.1	1.1	1.1	1.1
167.5°	0.5	0.5	0.5	0.8	0.8	0.8	1.1	1.1	1.1	1.1	1.1
170°	0.5	0.5	0.5	0.8	0.8	0.8	1.1	1.3	1.3	1.3	1.3
172.5°	0.5	0.5	0.5	0.8	0.8	1.1	1.1	1.3	1.3	1.3	1.3
175°	0.5	0.5	0.5	0.8	0.8	1.1	1.1	1.3	1.3	1.3	1.3
177.5°	0.3	0.5	0.5	0.8	0.8	1.1	1.1	1.3	1.3	1.3	1.1
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°	206.9	206.9	206.9
2.5°	196.9	193.2	192.2
5°	186.4	180.3	176.9
7.5°	175.8	167.7	163.7
10°	166.1	154.5	150.3
12.5°	154.5	141.0	134.4
15°	143.4	126.0	119.7
17.5°	131.0	111.5	104.1
20°	119.4	97.0	89.4
22.5°	106.2	82.8	74.3
25°	94.4	68.5	59.0
27.5°	81.2	54.0	45.9
30°	68.8	41.4	33.2
32.5°	56.9	30.3	22.9
35°	45.9	20.6	14.5
37.5°	35.3	12.7	7.4
40°	25.6	6.6	3.4
42.5°	17.1	3.2	1.8
45°	10.5	1.6	0.0
47.5°	6.1	0.0	0.0
50°	3.2	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	1.1	1.3
82.5°	1.1	1.3	1.3
85°	1.1	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	2.4
97.5°	2.1	2.4	2.4
100°	1.8	2.4	2.6
102.5°	1.6	2.4	2.4
105°	1.3	1.8	2.1



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	1.1	1.3	1.3
115°	0.8	1.1	1.3
117.5°	0.8	1.1	1.1
120°	0.8	0.8	1.1
122.5°	0.8	0.8	1.1
125°	0.8	0.8	1.1
127.5°	1.1	0.8	0.8
130°	0.8	0.8	0.8
132.5°	1.1	0.8	0.8
135°	1.1	0.8	0.8
137.5°	1.1	0.8	0.8
140°	1.1	0.8	0.8
142.5°	1.1	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°	1.1	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°	110.7	107.6	97.0	79.6	55.6	31.1	11.6	2.1	0.5	0.8	0.8
110°	96.5	93.8	83.0	66.2	44.8	23.2	7.6	1.3	0.8	0.8	0.8





107.5°	1.1	1.6	1.8
110°	1.1	1.3	1.6



(END OF REPORT)