

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: P550692

Luminaire Tested: **FCC-X-2-LD4-1LO-30-UNV-80-96-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: P550692
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-30-UNV-80-96-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 3000K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

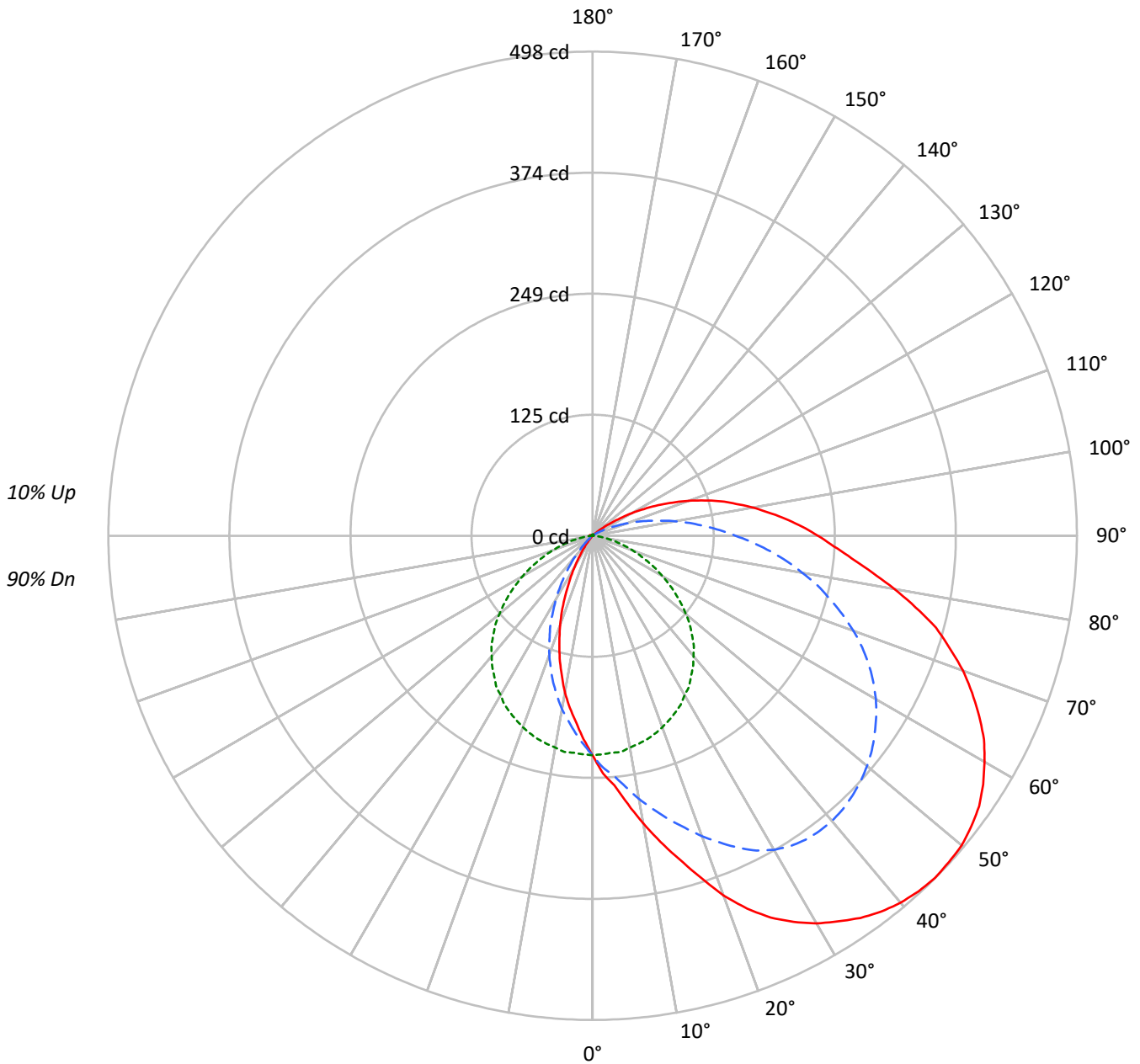
Lumens per Lamp: N/A
Luminaire Lumens: 1116.1 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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°	2429	2429	2429
5°	2668	2394	1998
10°	3018	2364	1646
15°	3382	2334	1283
20°	3815	2296	945
25°	4174	2252	620
30°	4440	2193	349
35°	4671	2130	154
40°	4876	2051	37
45°	5052	1954	0
50°	5199	1823	0
55°	5311	1658	0
60°	5368	1465	0
65°	5390	1247	0
70°	5372	1017	0
75°	5304	752	4
80°	5089	461	23
85°	4918	219	31



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.6	1.9
10°-20°	64.7	5.8
20°-30°	104.8	9.4
30°-40°	134.7	12.1
40°-50°	152.5	13.7
50°-60°	157.9	14.2
60°-70°	149.0	13.3
70°-80°	124.8	11.2
80°-90°	90.5	8.1
90°-100°	59.5	5.3
100°-110°	34.4	3.1
110°-120°	15.2	1.4
120°-130°	4.1	0.4
130°-140°	1.0	0.1
140°-150°	0.6	0.1
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	191.2	17.1
0°-40°	325.9	29.2
0°-60°	636.3	57.0
0°-90°	1000.6	89.6
90°-120°	109.0	9.8
90°-150°	114.7	10.3
90°-180°	116.0	10.4
0°-180°	1116.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	226	226	226	226	226	
5°	258	247	224	203	193	26
15°	344	302	216	156	131	99
25°	433	354	201	103	64	200
35°	480	382	176	50	16	301
45°	498	378	144	12	0	384
55°	485	354	104	0	0	433
65°	438	313	62	0	0	434
75°	366	253	26	0	0	383
85°	267	183	4	1	2	228
90°	232	147	1	2	2	127
95°	199	115	1	2	3	156
105°	137	59	1	1	2	144
115°	74	20	1	1	1	75
125°	22	3	1	1	1	22
135°	1	1	1	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	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°	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7
2.5°	244.7	244.4	243.6	242.1	240.1	236.7	233.8	231.2	227.8	224.9	219.4
5°	257.7	256.2	255.1	253.6	249.0	245.9	240.7	234.9	229.5	224.0	213.1
7.5°	278.4	276.1	274.3	270.3	264.0	256.8	248.7	243.3	239.5	224.3	205.6
10°	300.5	298.5	295.0	287.9	280.1	269.7	258.2	245.3	233.8	221.1	199.0
12.5°	322.4	319.5	314.6	305.4	294.5	281.5	265.7	250.5	234.1	219.1	191.2
15°	344.2	341.1	335.9	324.7	310.3	293.3	274.1	254.8	235.5	216.5	183.2
17.5°	368.1	363.8	356.0	343.4	325.2	304.2	281.5	258.2	234.9	213.4	174.6
20°	393.7	387.6	379.3	362.3	341.1	316.3	289.0	261.7	234.7	209.6	164.8
22.5°	415.0	408.9	399.7	382.2	356.6	326.4	295.3	264.0	233.5	205.3	155.6
25°	433.4	428.5	418.4	398.3	371.2	337.0	301.4	265.7	231.8	200.7	145.8
27.5°	447.7	443.1	431.9	411.2	383.6	346.5	306.0	266.6	229.5	196.1	135.7
30°	460.4	455.8	442.3	421.0	392.0	354.0	310.6	266.9	226.6	189.2	124.8
32.5°	470.2	465.9	452.1	429.3	397.7	359.2	313.2	266.6	222.9	184.3	113.0
35°	479.9	475.6	459.5	435.4	402.0	361.5	315.2	265.1	218.3	176.3	101.8
37.5°	487.4	482.5	466.1	439.4	404.0	362.0	314.9	263.1	213.4	169.7	90.6
40°	492.6	487.4	469.9	441.7	404.6	361.2	312.6	259.7	207.6	161.3	78.8
42.5°	496.1	490.3	471.6	445.2	403.5	358.9	309.1	255.4	201.3	154.1	67.6
45°	497.8	491.7	471.9	442.3	401.4	354.6	304.0	249.9	194.4	144.4	56.4
47.5°	496.9	490.3	470.5	439.1	397.7	350.0	298.2	243.3	186.1	135.7	45.7
50°	495.5	488.6	467.3	435.1	392.5	344.2	291.9	235.2	177.4	125.1	36.2
52.5°	490.9	484.0	463.8	429.3	386.5	337.6	283.3	226.9	168.2	114.7	27.6
55°	485.1	478.8	457.8	424.2	378.7	329.6	275.2	218.0	159.3	104.1	19.8
57.5°	476.2	470.5	450.3	415.8	371.0	320.6	266.3	208.2	148.1	93.5	13.8
60°	465.3	459.5	440.0	406.3	362.0	310.6	256.5	198.1	138.0	82.8	8.6
62.5°	453.8	448.3	427.9	394.5	350.8	299.9	245.9	188.1	127.4	73.0	5.2
65°	438.5	433.4	415.0	380.5	338.5	288.4	234.1	176.0	116.5	62.1	2.9
67.5°	422.4	417.8	399.1	367.5	324.1	275.8	222.0	164.2	105.0	52.6	1.4
70°	405.2	399.4	382.2	350.0	309.4	261.4	208.8	152.1	94.0	43.4	0.0
72.5°	385.1	380.7	364.1	333.6	292.5	246.2	195.3	138.9	82.0	34.5	0.3
75°	365.5	360.0	344.8	316.0	275.8	230.1	180.3	126.5	70.2	26.5	0.3
77.5°	340.2	338.5	324.1	296.2	260.0	214.5	163.9	111.6	59.0	19.0	0.3
80°	314.9	313.2	301.9	276.4	241.6	196.1	148.7	97.5	48.0	12.7	0.3
82.5°	289.9	287.6	276.9	255.6	222.9	180.6	132.9	83.4	38.0	7.8	0.3
85°	267.4	264.6	253.1	233.5	203.6	163.1	116.5	69.6	28.2	4.3	0.6
87.5°	248.2	246.2	233.5	213.4	184.0	146.7	102.1	56.4	19.8	2.0	0.9
90°	231.8	227.5	216.3	195.0	165.6	128.5	86.8	45.1	13.2	1.2	1.2
92.5°	215.7	211.9	199.6	177.7	149.2	113.0	72.2	34.5	8.3	0.6	1.4
95°	199.0	195.0	182.9	162.8	132.6	97.2	59.2	25.3	4.6	0.6	1.4
97.5°	182.6	178.9	166.2	146.1	117.6	83.4	46.9	17.8	2.3	0.6	1.2
100°	167.4	163.1	151.5	131.4	102.7	69.6	36.2	11.5	1.4	0.6	1.2
102.5°	151.3	147.8	136.0	116.5	87.1	56.7	27.0	7.2	0.6	0.6	0.9
105°	136.9	132.6	121.1	100.9	74.2	44.6	19.0	4.3	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°	89.1	85.7	75.6	58.7	37.7	17.5	5.2	0.9	0.9	0.9	0.9
115°	74.5	69.3	60.4	45.4	27.9	11.5	2.6	0.9	0.9	0.9	0.9
117.5°	59.5	55.2	48.9	34.5	18.4	7.5	1.4	0.9	0.9	0.9	0.9
120°	46.6	42.6	35.4	23.9	12.4	4.3	0.6	0.9	0.9	0.9	0.9
122.5°	33.4	30.2	23.9	15.5	7.5	2.0	0.9	0.9	1.2	1.2	0.9
125°	22.1	20.4	15.8	9.5	4.6	0.9	0.9	0.9	1.2	1.2	0.9
127.5°	14.4	12.9	9.2	5.5	2.0	0.9	0.9	1.2	1.2	1.2	0.9
130°	8.1	7.2	5.5	3.2	0.9	0.9	0.9	1.2	1.2	1.2	0.9
132.5°	4.6	4.3	2.9	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	1.4	1.4	1.2
137.5°	0.3	0.3	0.6	0.6	0.9	0.9	1.2	1.4	1.4	1.4	1.2
140°	0.3	0.3	0.6	0.9	0.9	0.9	1.2	1.4	1.4	1.4	1.2
142.5°	0.3	0.6	0.6	0.9	0.9	1.2	1.2	1.4	1.4	1.2	1.2
145°	0.3	0.6	0.6	0.9	0.9	1.2	1.2	1.4	1.2	1.2	1.2
147.5°	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.4	1.4	1.2	1.2
150°	0.3	0.6	0.6	0.9	1.2	1.2	1.2	1.4	1.2	1.2	1.2
152.5°	0.3	0.6	0.6	0.9	1.2	1.2	1.2	1.4	1.2	1.2	1.2
155°	0.6	0.6	0.6	0.9	1.2	1.2	1.2	1.4	1.2	1.2	1.4
157.5°	0.6	0.6	0.6	0.9	1.2	1.2	1.2	1.4	1.2	1.2	1.4
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	1.4	1.4	1.4	1.4
172.5°	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.4	1.4	1.4	1.4
175°	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.4	1.4	1.4	1.4
177.5°	0.3	0.6	0.6	0.9	0.9	1.2	1.2	1.4	1.4	1.4	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°	225.7	225.7	225.7
2.5°	214.8	210.8	209.6
5°	203.3	196.7	193.0
7.5°	191.8	182.9	178.6
10°	181.2	168.5	163.9
12.5°	168.5	153.8	146.7
15°	156.4	137.5	130.6
17.5°	142.9	121.6	113.6
20°	130.3	105.8	97.5
22.5°	115.9	90.3	81.1
25°	102.9	74.8	64.4
27.5°	88.6	59.0	50.0
30°	75.1	45.1	36.2
32.5°	62.1	33.1	25.0
35°	50.0	22.4	15.8
37.5°	38.5	13.8	8.1
40°	27.9	7.2	3.7
42.5°	18.7	3.5	2.0
45°	11.5	1.7	0.0
47.5°	6.6	0.0	0.0
50°	3.5	0.0	0.0
52.5°	1.4	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	1.4
82.5°	1.2	1.4	1.4
85°	1.2	1.4	1.7
87.5°	1.4	1.7	2.0
90°	1.7	2.0	2.0
92.5°	1.7	2.3	2.3
95°	2.0	2.3	2.6
97.5°	2.3	2.6	2.6
100°	2.0	2.6	2.9
102.5°	1.7	2.6	2.6
105°	1.4	2.0	2.3



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	1.2	1.4	1.4
115°	0.9	1.2	1.4
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°	120.8	117.3	105.8	86.8	60.7	33.9	12.7	2.3	0.6	0.9	0.9
110°	105.2	102.4	90.6	72.2	48.9	25.3	8.3	1.4	0.9	0.9	0.9





107.5°	1.2	1.7	2.0
110°	1.2	1.4	1.7



(END OF REPORT)