

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: P550746

Luminaire Tested: **FCC-X-2-LD4-1LO-35-UNV-80-85-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: P550746
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-80-85-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

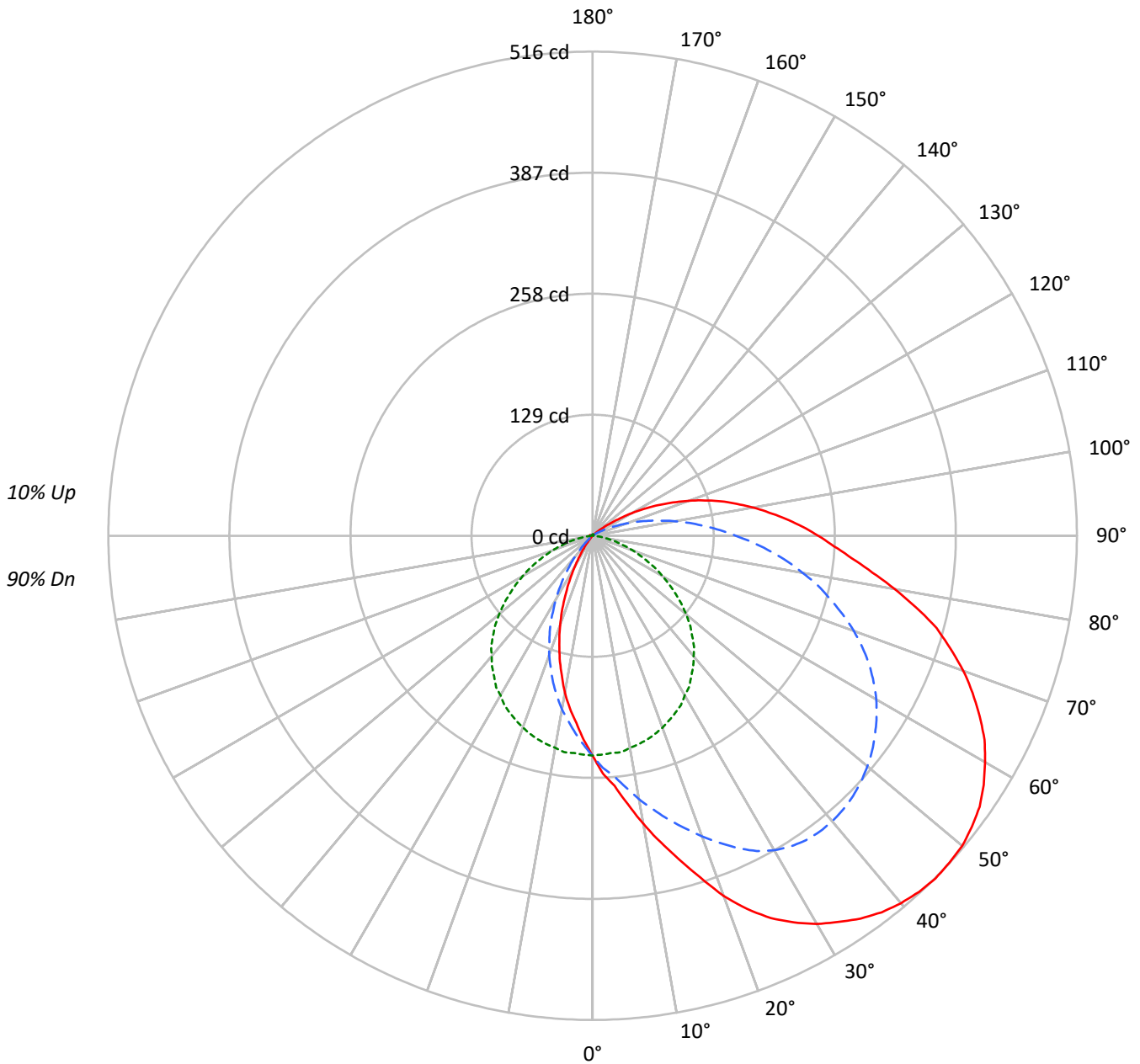
Lumens per Lamp: N/A
Luminaire Lumens: 1158.1 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

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°	2521	2521	2521
5°	2768	2484	2073
10°	3132	2454	1709
15°	3510	2423	1332
20°	3959	2383	981
25°	4331	2338	643
30°	4607	2276	363
35°	4847	2210	160
40°	5059	2129	39
45°	5242	2027	0
50°	5394	1892	0
55°	5511	1720	0
60°	5570	1520	0
65°	5592	1296	0
70°	5574	1057	0
75°	5504	780	4
80°	5280	475	24
85°	5104	229	33



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	1.9
10°-20°	67.2	5.8
20°-30°	108.8	9.4
30°-40°	139.8	12.1
40°-50°	158.2	13.7
50°-60°	163.9	14.2
60°-70°	154.6	13.3
70°-80°	129.5	11.2
80°-90°	93.9	8.1
90°-100°	61.7	5.3
100°-110°	35.6	3.1
110°-120°	15.7	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°	198.4	17.1
0°-40°	338.2	29.2
0°-60°	660.3	57.0
0°-90°	1038.3	89.7
90°-120°	113.1	9.8
90°-150°	119.0	10.3
90°-180°	120.0	10.4
0°-180°	1158.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	234	234	234	234	234	
5°	267	257	232	211	200	27
15°	357	313	225	162	136	103
25°	450	367	208	107	67	208
35°	498	396	183	52	16	312
45°	516	392	150	12	0	399
55°	503	368	108	0	0	450
65°	455	325	64	0	0	450
75°	379	262	28	0	0	398
85°	278	190	4	1	2	237
90°	240	153	1	2	2	132
95°	206	119	1	2	3	162
105°	142	62	1	2	2	150
115°	77	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°	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2
2.5°	253.9	253.6	252.7	251.2	249.2	245.6	242.6	239.9	236.3	233.3	227.7
5°	267.4	265.9	264.7	263.2	258.4	255.1	249.8	243.8	238.1	232.4	221.1
7.5°	288.8	286.5	284.7	280.5	273.9	266.5	258.1	252.4	248.6	232.7	213.3
10°	311.8	309.7	306.1	298.7	290.6	279.9	268.0	254.5	242.6	229.5	206.5
12.5°	334.5	331.5	326.4	316.9	305.6	292.1	275.7	259.9	242.9	227.4	198.4
15°	357.2	353.9	348.5	336.9	322.0	304.4	284.4	264.4	244.4	224.7	190.1
17.5°	381.9	377.5	369.4	356.3	337.5	315.7	292.1	268.0	243.8	221.4	181.1
20°	408.5	402.2	393.6	376.0	353.9	328.2	299.9	271.5	243.5	217.5	171.0
22.5°	430.6	424.3	414.8	396.6	370.0	338.7	306.4	273.9	242.3	213.0	161.4
25°	449.7	444.6	434.2	413.3	385.2	349.7	312.7	275.7	240.5	208.3	151.3
27.5°	464.6	459.8	448.2	426.7	398.1	359.6	317.5	276.6	238.1	203.5	140.8
30°	477.7	472.9	458.9	436.8	406.7	367.3	322.3	276.9	235.1	196.3	129.5
32.5°	487.9	483.4	469.1	445.5	412.7	372.7	324.9	276.6	231.3	191.3	117.3
35°	498.0	493.5	476.8	451.8	417.1	375.1	327.0	275.1	226.5	182.9	105.6
37.5°	505.8	500.7	483.7	455.9	419.2	375.7	326.7	273.0	221.4	176.0	94.0
40°	511.1	505.8	487.6	458.3	419.8	374.8	324.3	269.4	215.4	167.4	81.8
42.5°	514.7	508.8	489.4	461.9	418.6	372.4	320.8	265.0	208.9	159.9	70.1
45°	516.5	510.2	489.7	458.9	416.6	367.9	315.4	259.3	201.7	149.8	58.5
47.5°	515.6	508.8	488.2	455.6	412.7	363.1	309.4	252.4	193.1	140.8	47.4
50°	514.1	507.0	484.9	451.5	407.3	357.2	302.9	244.1	184.1	129.8	37.6
52.5°	509.4	502.2	481.3	445.5	401.0	350.3	293.9	235.4	174.6	119.1	28.6
55°	503.4	496.8	475.0	440.1	393.0	342.0	285.6	226.2	165.3	108.0	20.6
57.5°	494.1	488.2	467.3	431.5	384.9	332.7	276.3	216.0	153.7	97.0	14.3
60°	482.8	476.8	456.5	421.6	375.7	322.3	266.2	205.6	143.2	85.9	9.0
62.5°	470.9	465.2	444.0	409.4	364.0	311.2	255.1	195.1	132.2	75.8	5.4
65°	455.0	449.7	430.6	394.8	351.2	299.3	242.9	182.6	120.8	64.5	3.0
67.5°	438.3	433.6	414.2	381.3	336.3	286.2	230.4	170.4	108.9	54.6	1.5
70°	420.4	414.5	396.6	363.1	321.1	271.2	216.6	157.8	97.6	45.1	0.0
72.5°	399.5	395.1	377.8	346.1	303.5	255.4	202.6	144.1	85.0	35.8	0.3
75°	379.3	373.6	357.8	327.9	286.2	238.7	187.1	131.3	72.8	27.5	0.3
77.5°	353.0	351.2	336.3	307.3	269.7	222.6	170.1	115.8	61.2	19.7	0.3
80°	326.7	324.9	313.3	286.8	250.6	203.5	154.3	101.2	49.8	13.1	0.3
82.5°	300.8	298.4	287.3	265.3	231.3	187.4	137.9	86.5	39.4	8.1	0.3
85°	277.5	274.5	262.6	242.3	211.3	169.2	120.8	72.2	29.2	4.5	0.6
87.5°	257.5	255.4	242.3	221.4	191.0	152.2	105.9	58.5	20.6	2.1	0.9
90°	240.5	236.0	224.4	202.3	171.9	133.4	90.1	46.8	13.7	1.2	1.2
92.5°	223.8	219.9	207.1	184.4	154.9	117.3	74.9	35.8	8.7	0.6	1.5
95°	206.5	202.3	189.8	168.9	137.6	100.9	61.5	26.3	4.8	0.6	1.5
97.5°	189.5	185.6	172.5	151.6	122.0	86.5	48.6	18.5	2.4	0.6	1.2
100°	173.7	169.2	157.3	136.4	106.5	72.2	37.6	11.9	1.5	0.6	1.2
102.5°	157.0	153.4	141.1	120.8	90.4	58.8	28.0	7.5	0.6	0.6	0.9
105°	142.0	137.6	125.6	104.7	77.0	46.3	19.7	4.5	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°	92.5	88.9	78.5	60.9	39.1	18.2	5.4	0.9	0.9	0.9	0.9
115°	77.3	71.9	62.7	47.1	28.9	11.9	2.7	0.9	0.9	0.9	0.9
117.5°	61.8	57.3	50.7	35.8	19.1	7.8	1.5	0.9	0.9	0.9	0.9
120°	48.3	44.2	36.7	24.8	12.8	4.5	0.6	0.9	0.9	0.9	0.9
122.5°	34.6	31.3	24.8	16.1	7.8	2.1	0.9	0.9	1.2	1.2	0.9
125°	23.0	21.2	16.4	9.8	4.8	0.9	0.9	0.9	1.2	1.2	0.9
127.5°	14.9	13.4	9.5	5.7	2.1	0.9	0.9	1.2	1.2	1.2	0.9
130°	8.4	7.5	5.7	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



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	234.2	234.2	234.2
2.5°	222.9	218.7	217.5
5°	211.0	204.1	200.2
7.5°	199.0	189.8	185.3
10°	188.0	174.9	170.1
12.5°	174.9	159.6	152.2
15°	162.3	142.6	135.5
17.5°	148.3	126.2	117.9
20°	135.2	109.8	101.2
22.5°	120.3	93.7	84.1
25°	106.8	77.6	66.8
27.5°	91.9	61.2	51.9
30°	77.9	46.8	37.6
32.5°	64.5	34.3	26.0
35°	51.9	23.3	16.4
37.5°	40.0	14.3	8.4
40°	28.9	7.5	3.9
42.5°	19.4	3.6	2.1
45°	11.9	1.8	0.0
47.5°	6.9	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



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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°	125.3	121.7	109.8	90.1	63.0	35.2	13.1	2.4	0.6	0.9	0.9
110°	109.2	106.2	94.0	74.9	50.7	26.3	8.7	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)