

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: P550780

Luminaire Tested: **FCC-X-2-LD4-1LO-35-UNV-82-86-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: P550780
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-82-86-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .187 CLEAR PC 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

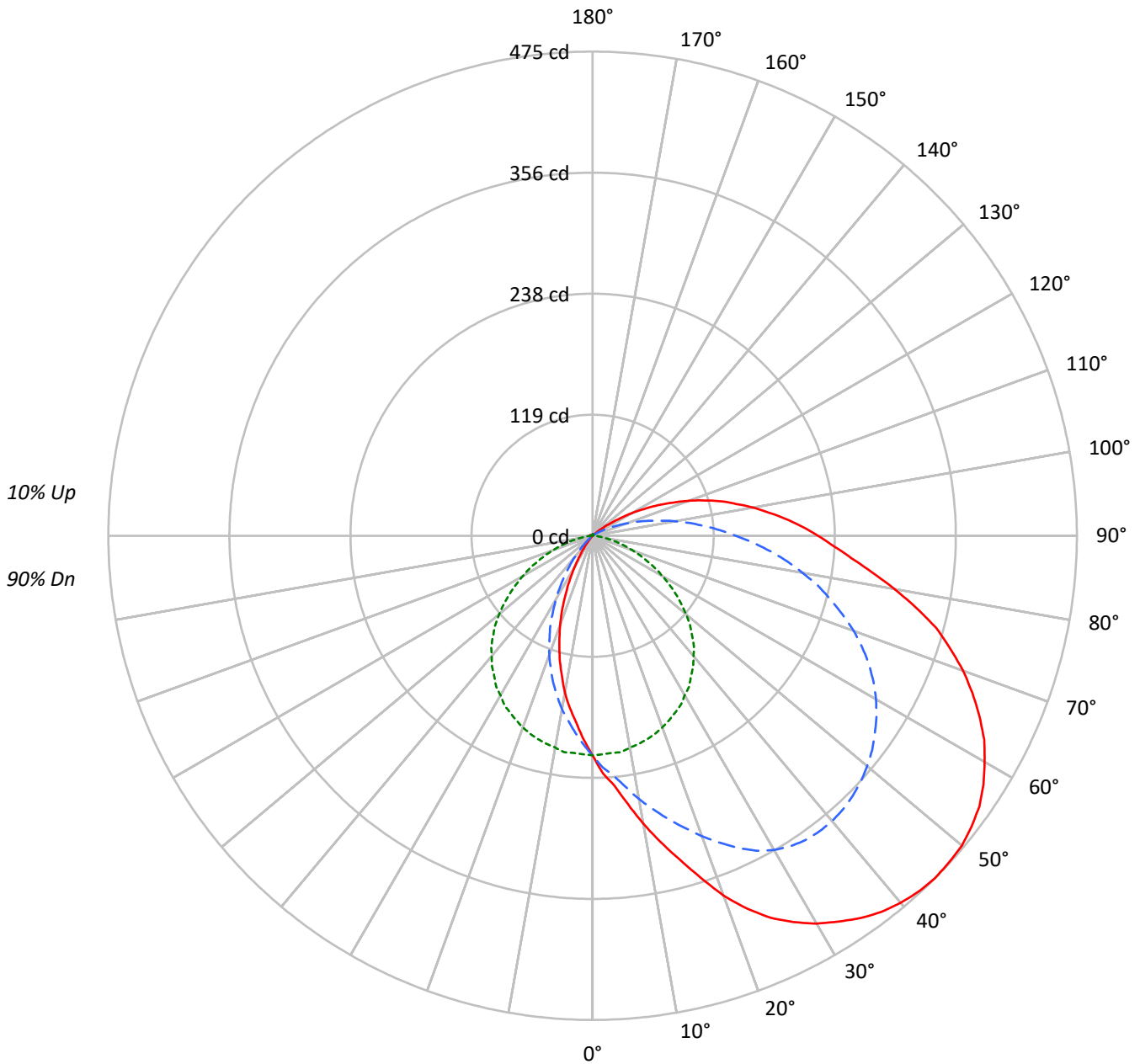
Lumens per Lamp: N/A
Luminaire Lumens: 1064.9 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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°	2319	2319	2319
5°	2546	2285	1906
10°	2881	2256	1571
15°	3228	2228	1224
20°	3641	2192	901
25°	3983	2149	592
30°	4238	2094	334
35°	4458	2032	147
40°	4653	1958	36
45°	4820	1865	0
50°	4961	1740	0
55°	5069	1581	0
60°	5122	1398	0
65°	5144	1191	0
70°	5127	970	0
75°	5061	715	4
80°	4856	439	23
85°	4694	208	29



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.6	1.9
10°-20°	61.8	5.8
20°-30°	100.1	9.4
30°-40°	128.5	12.1
40°-50°	145.5	13.7
50°-60°	150.7	14.2
60°-70°	142.2	13.3
70°-80°	119.1	11.2
80°-90°	86.3	8.1
90°-100°	56.8	5.3
100°-110°	32.8	3.1
110°-120°	14.5	1.4
120°-130°	3.9	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°	182.5	17.1
0°-40°	311.0	29.2
0°-60°	607.2	57.0
0°-90°	954.9	89.7
90°-120°	104.0	9.8
90°-150°	109.4	10.3
90°-180°	110.0	10.3
0°-180°	1064.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	215	215	215	215	215	
5°	246	236	214	194	184	25
15°	328	288	207	149	125	95
25°	414	338	192	98	62	191
35°	458	364	168	48	15	287
45°	475	361	138	11	0	367
55°	463	338	99	0	0	413
65°	418	299	59	0	0	414
75°	349	241	25	0	0	366
85°	255	175	4	1	2	218
90°	221	140	1	2	2	121
95°	190	110	0	2	2	149
105°	131	57	0	1	2	138
115°	71	19	1	1	1	71
125°	21	3	1	1	1	21
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°	215.4	215.4	215.4	215.4	215.4	215.4	215.4	215.4	215.4	215.4	215.4
2.5°	233.5	233.3	232.4	231.1	229.1	225.9	223.1	220.6	217.3	214.6	209.4
5°	245.9	244.5	243.4	242.0	237.7	234.6	229.7	224.2	219.0	213.8	203.3
7.5°	265.6	263.4	261.8	258.0	251.9	245.1	237.4	232.2	228.6	214.1	196.2
10°	286.8	284.9	281.6	274.7	267.3	257.4	246.4	234.1	223.1	211.0	189.9
12.5°	307.6	304.9	300.2	291.4	281.0	268.7	253.6	239.0	223.4	209.1	182.5
15°	328.5	325.5	320.5	309.8	296.1	279.9	261.5	243.1	224.8	206.6	174.8
17.5°	351.3	347.1	339.7	327.7	310.4	290.3	268.7	246.4	224.2	203.6	166.6
20°	375.7	369.9	362.0	345.8	325.5	301.9	275.8	249.7	223.9	200.1	157.2
22.5°	396.0	390.2	381.5	364.7	340.3	311.5	281.8	251.9	222.8	195.9	148.5
25°	413.6	408.9	399.3	380.1	354.3	321.6	287.6	253.6	221.2	191.5	139.1
27.5°	427.3	422.9	412.2	392.4	366.1	330.7	292.0	254.4	219.0	187.2	129.5
30°	439.4	435.0	422.1	401.8	374.0	337.8	296.4	254.7	216.2	180.6	119.1
32.5°	448.7	444.6	431.4	409.7	379.5	342.8	298.8	254.4	212.7	175.9	107.8
35°	458.0	453.9	438.5	415.5	383.6	345.0	300.8	253.0	208.3	168.2	97.1
37.5°	465.2	460.5	444.8	419.3	385.6	345.5	300.5	251.1	203.6	161.9	86.4
40°	470.1	465.2	448.4	421.5	386.1	344.7	298.3	247.8	198.1	154.0	75.2
42.5°	473.4	467.9	450.1	424.8	385.0	342.5	295.0	243.7	192.1	147.1	64.5
45°	475.0	469.3	450.3	422.1	383.1	338.4	290.1	238.5	185.5	137.8	53.8
47.5°	474.2	467.9	449.0	419.0	379.5	334.0	284.6	232.2	177.6	129.5	43.6
50°	472.8	466.2	445.9	415.2	374.6	328.5	278.5	224.5	169.3	119.4	34.6
52.5°	468.4	461.9	442.6	409.7	368.8	322.2	270.3	216.5	160.5	109.5	26.3
55°	463.0	456.9	436.9	404.8	361.4	314.5	262.6	208.0	152.0	99.3	18.9
57.5°	454.4	449.0	429.8	396.8	354.0	306.0	254.1	198.7	141.3	89.2	13.2
60°	444.0	438.5	419.9	387.8	345.5	296.4	244.8	189.1	131.7	79.0	8.2
62.5°	433.0	427.8	408.3	376.5	334.8	286.2	234.6	179.5	121.6	69.7	4.9
65°	418.5	413.6	396.0	363.1	323.0	275.2	223.4	167.9	111.1	59.3	2.7
67.5°	403.1	398.7	380.9	350.7	309.3	263.2	211.9	156.7	100.2	50.2	1.4
70°	386.7	381.2	364.7	334.0	295.3	249.5	199.2	145.2	89.7	41.4	0.0
72.5°	367.5	363.3	347.4	318.3	279.1	234.9	186.3	132.5	78.2	32.9	0.3
75°	348.8	343.6	329.0	301.6	263.2	219.5	172.1	120.7	67.0	25.2	0.3
77.5°	324.6	323.0	309.3	282.7	248.1	204.7	156.4	106.5	56.3	18.1	0.3
80°	300.5	298.8	288.1	263.7	230.5	187.2	141.9	93.0	45.8	12.1	0.3
82.5°	276.6	274.4	264.3	244.0	212.7	172.3	126.8	79.6	36.2	7.4	0.3
85°	255.2	252.5	241.5	222.8	194.3	155.6	111.1	66.4	26.9	4.1	0.5
87.5°	236.8	234.9	222.8	203.6	175.6	140.0	97.4	53.8	18.9	1.9	0.8
90°	221.2	217.1	206.4	186.1	158.1	122.7	82.9	43.1	12.6	1.1	1.1
92.5°	205.8	202.3	190.5	169.6	142.4	107.8	68.9	32.9	8.0	0.5	1.4
95°	189.9	186.1	174.5	155.3	126.5	92.8	56.5	24.1	4.4	0.5	1.4
97.5°	174.3	170.7	158.6	139.4	112.2	79.6	44.7	17.0	2.2	0.5	1.1
100°	159.7	155.6	144.6	125.4	98.0	66.4	34.6	11.0	1.4	0.5	1.1
102.5°	144.3	141.1	129.8	111.1	83.2	54.1	25.8	6.9	0.5	0.5	0.8
105°	130.6	126.5	115.5	96.3	70.8	42.5	18.1	4.1	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°	85.1	81.8	72.2	56.0	35.9	16.7	4.9	0.8	0.8	0.8	0.8
115°	71.1	66.1	57.6	43.4	26.6	11.0	2.5	0.8	0.8	0.8	0.8
117.5°	56.8	52.7	46.7	32.9	17.6	7.1	1.4	0.8	0.8	0.8	0.8
120°	44.5	40.6	33.8	22.8	11.8	4.1	0.5	0.8	0.8	0.8	0.8
122.5°	31.8	28.8	22.8	14.8	7.1	1.9	0.8	0.8	1.1	1.1	0.8
125°	21.1	19.5	15.1	9.1	4.4	0.8	0.8	0.8	1.1	1.1	0.8
127.5°	13.7	12.3	8.8	5.2	1.9	0.8	0.8	1.1	1.1	1.1	0.8
130°	7.7	6.9	5.2	3.0	0.8	0.8	0.8	1.1	1.1	1.1	0.8
132.5°	4.4	4.1	2.7	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	1.4	1.4	1.1
137.5°	0.3	0.3	0.5	0.5	0.8	0.8	1.1	1.4	1.4	1.4	1.1
140°	0.3	0.3	0.5	0.8	0.8	0.8	1.1	1.4	1.4	1.4	1.1
142.5°	0.3	0.5	0.5	0.8	0.8	1.1	1.1	1.4	1.4	1.1	1.1
145°	0.3	0.5	0.5	0.8	0.8	1.1	1.1	1.4	1.1	1.1	1.1
147.5°	0.5	0.5	0.5	0.8	0.8	1.1	1.1	1.4	1.4	1.1	1.1
150°	0.3	0.5	0.5	0.8	1.1	1.1	1.1	1.4	1.1	1.1	1.1
152.5°	0.3	0.5	0.5	0.8	1.1	1.1	1.1	1.4	1.1	1.1	1.1
155°	0.5	0.5	0.5	0.8	1.1	1.1	1.1	1.4	1.1	1.1	1.4
157.5°	0.5	0.5	0.5	0.8	1.1	1.1	1.1	1.4	1.1	1.1	1.4
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	1.4	1.4	1.4	1.4
172.5°	0.5	0.5	0.5	0.8	0.8	1.1	1.1	1.4	1.4	1.4	1.4
175°	0.5	0.5	0.5	0.8	0.8	1.1	1.1	1.4	1.4	1.4	1.4
177.5°	0.3	0.5	0.5	0.8	0.8	1.1	1.1	1.4	1.4	1.4	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°	215.4	215.4	215.4
2.5°	205.0	201.2	200.1
5°	194.0	187.7	184.1
7.5°	183.0	174.5	170.4
10°	172.9	160.8	156.4
12.5°	160.8	146.8	140.0
15°	149.3	131.2	124.6
17.5°	136.4	116.1	108.4
20°	124.3	101.0	93.0
22.5°	110.6	86.2	77.4
25°	98.2	71.4	61.5
27.5°	84.5	56.3	47.8
30°	71.6	43.1	34.6
32.5°	59.3	31.6	23.9
35°	47.8	21.4	15.1
37.5°	36.8	13.2	7.7
40°	26.6	6.9	3.6
42.5°	17.8	3.3	1.9
45°	11.0	1.6	0.0
47.5°	6.3	0.0	0.0
50°	3.3	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	0.5	0.8
80°	0.5	1.1	1.4
82.5°	1.1	1.4	1.4
85°	1.1	1.4	1.6
87.5°	1.4	1.6	1.9
90°	1.6	1.9	1.9
92.5°	1.6	2.2	2.2
95°	1.9	2.2	2.5
97.5°	2.2	2.5	2.5
100°	1.9	2.5	2.7
102.5°	1.6	2.5	2.5
105°	1.4	1.9	2.2



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	1.1	1.4	1.4
115°	0.8	1.1	1.4
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°	115.3	112.0	101.0	82.9	57.9	32.4	12.1	2.2	0.5	0.8	0.8
110°	100.4	97.7	86.4	68.9	46.7	24.1	8.0	1.4	0.8	0.8	0.8





107.5°	1.1	1.6	1.9
110°	1.1	1.4	1.6



(END OF REPORT)