

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: P551136

Luminaire Tested: **FCC-X-2-LD4-1STD-50-UNV-80-88-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: P551136
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-LD4-1STD-50-UNV-80-88-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 5000K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

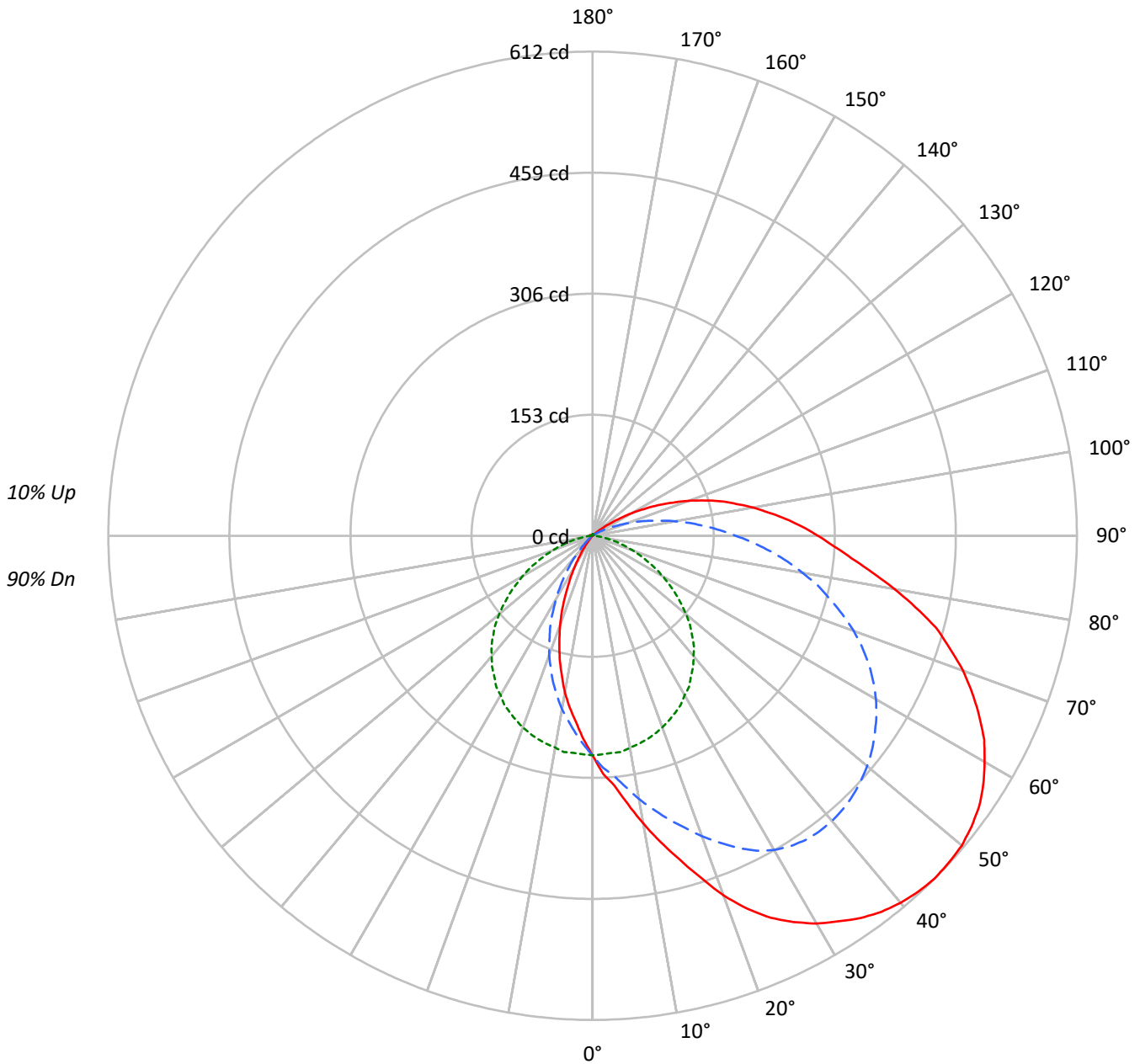
Lumens per Lamp: N/A
Luminaire Lumens: 1372.1 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 16.7
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

TEST NUMBER: P551136

CATALOG NUMBER: FCC-X-2-LD4-1STD-50-UNV-80-88-ED1D

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°	2987	2987	2987
5°	3280	2944	2456
10°	3710	2908	2024
15°	4159	2870	1577
20°	4690	2823	1161
25°	5131	2770	763
30°	5459	2696	429
35°	5742	2618	189
40°	5994	2522	46
45°	6211	2402	0
50°	6391	2242	0
55°	6530	2038	0
60°	6599	1801	0
65°	6626	1535	0
70°	6604	1251	0
75°	6520	922	6
80°	6256	566	29
85°	6047	270	39



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	1.9
10°-20°	79.6	5.8
20°-30°	128.9	9.4
30°-40°	165.6	12.1
40°-50°	187.4	13.7
50°-60°	194.2	14.2
60°-70°	183.1	13.3
70°-80°	153.5	11.2
80°-90°	111.3	8.1
90°-100°	73.1	5.3
100°-110°	42.2	3.1
110°-120°	18.7	1.4
120°-130°	5.1	0.4
130°-140°	1.2	0.1
140°-150°	0.8	0.1
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	235.1	17.1
0°-40°	400.7	29.2
0°-60°	782.3	57.0
0°-90°	1230.1	89.7
90°-120°	134.0	9.8
90°-150°	141.0	10.3
90°-180°	142.0	10.3
0°-180°	1372.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	278	278	278	278	278	
5°	317	304	275	250	237	32
15°	423	371	266	192	160	122
25°	533	435	247	127	79	246
35°	590	469	217	62	19	370
45°	612	465	178	14	0	472
55°	596	435	128	0	0	533
65°	539	385	76	0	0	533
75°	449	311	32	0	0	471
85°	329	225	5	1	2	281
90°	285	181	1	2	2	156
95°	245	141	1	2	3	192
105°	168	73	1	2	3	178
115°	92	24	1	1	2	92
125°	27	3	1	1	1	27
135°	1	1	2	1	1	3
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°	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
2.5°	300.9	300.5	299.4	297.7	295.2	291.0	287.4	284.2	280.0	276.5	269.7
5°	316.8	315.0	313.6	311.8	306.2	302.3	295.9	288.8	282.1	275.4	262.0
7.5°	342.2	339.4	337.3	332.3	324.5	315.7	305.8	299.1	294.5	275.8	252.8
10°	369.4	367.0	362.7	353.9	344.3	331.6	317.5	301.6	287.4	271.9	244.6
12.5°	396.3	392.8	386.8	375.5	362.0	346.1	326.7	307.9	287.8	269.4	235.1
15°	423.2	419.3	412.9	399.1	381.5	360.6	336.9	313.2	289.5	266.2	225.2
17.5°	452.5	447.2	437.7	422.1	399.8	374.0	346.1	317.5	288.8	262.3	214.6
20°	484.0	476.6	466.3	445.5	419.3	388.9	355.3	321.7	288.5	257.7	202.6
22.5°	510.1	502.7	491.4	469.8	438.4	401.3	363.1	324.5	287.1	252.4	191.3
25°	532.8	526.8	514.4	489.6	456.4	414.3	370.5	326.7	284.9	246.8	179.2
27.5°	550.4	544.8	531.0	505.6	471.6	426.0	376.2	327.7	282.1	241.1	166.9
30°	566.0	560.3	543.7	517.6	481.9	435.2	381.8	328.1	278.6	232.6	153.4
32.5°	578.0	572.7	555.8	527.8	488.9	441.6	385.0	327.7	274.0	226.6	138.9
35°	590.0	584.7	564.9	535.2	494.2	444.4	387.5	326.0	268.3	216.7	125.2
37.5°	599.2	593.2	573.1	540.2	496.7	445.1	387.1	323.5	262.3	208.6	111.4
40°	605.6	599.2	577.7	543.0	497.4	444.0	384.3	319.2	255.3	198.3	96.9
42.5°	609.8	602.8	579.8	547.3	496.0	441.2	380.0	313.9	247.5	189.5	83.1
45°	612.0	604.5	580.1	543.7	493.5	435.9	373.7	307.2	239.0	177.5	69.3
47.5°	610.9	602.8	578.4	539.8	488.9	430.2	366.6	299.1	228.7	166.9	56.2
50°	609.1	600.7	574.5	534.9	482.6	423.2	358.8	289.2	218.1	153.8	44.5
52.5°	603.5	595.0	570.2	527.8	475.1	415.0	348.2	278.9	206.8	141.1	33.9
55°	596.4	588.6	562.8	521.5	465.6	405.1	338.3	268.0	195.9	128.0	24.4
57.5°	585.4	578.4	553.6	511.2	456.1	394.2	327.4	256.0	182.1	114.9	17.0
60°	572.0	564.9	540.9	499.5	445.1	381.8	315.4	243.6	169.7	101.8	10.6
62.5°	557.9	551.2	526.1	485.0	431.3	368.7	302.3	231.2	156.6	89.8	6.4
65°	539.1	532.8	510.1	467.7	416.1	354.6	287.8	216.4	143.2	76.4	3.5
67.5°	519.3	513.7	490.7	451.8	398.4	339.0	272.9	201.9	129.0	64.7	1.8
70°	498.1	491.1	469.8	430.2	380.4	321.4	256.7	187.0	115.6	53.4	0.0
72.5°	473.4	468.1	447.6	410.1	359.5	302.6	240.0	170.8	100.8	42.4	0.4
75°	449.3	442.6	423.9	388.5	339.0	282.8	221.7	155.6	86.3	32.5	0.4
77.5°	418.2	416.1	398.4	364.1	319.6	263.7	201.5	137.2	72.5	23.3	0.4
80°	387.1	385.0	371.2	339.7	297.0	241.1	182.8	119.8	59.0	15.6	0.4
82.5°	356.4	353.5	340.5	314.3	274.0	222.0	163.3	102.5	46.7	9.5	0.4
85°	328.8	325.2	311.1	287.1	250.3	200.5	143.2	85.6	34.6	5.3	0.7
87.5°	305.1	302.6	287.1	262.3	226.3	180.3	125.5	69.3	24.4	2.5	1.1
90°	284.9	279.6	265.9	239.7	203.6	158.0	106.8	55.5	16.3	1.4	1.4
92.5°	265.1	260.6	245.4	218.5	183.5	138.9	88.7	42.4	10.3	0.7	1.8
95°	244.6	239.7	224.8	200.1	163.0	119.5	72.8	31.1	5.7	0.7	1.8
97.5°	224.5	219.9	204.3	179.6	144.6	102.5	57.6	21.9	2.8	0.7	1.4
100°	205.8	200.5	186.3	161.6	126.2	85.6	44.5	14.1	1.8	0.7	1.4
102.5°	186.0	181.7	167.2	143.2	107.1	69.6	33.2	8.8	0.7	0.7	1.1
105°	168.3	163.0	148.8	124.1	91.2	54.8	23.3	5.3	0.7	0.7	1.1



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CATALOG NUMBER: FCC-X-2-LD4-1STD-50-UNV-80-88-ED1D

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	109.6	105.4	93.0	72.1	46.3	21.6	6.4	1.1	1.1	1.1	1.1
115°	91.6	85.2	74.2	55.9	34.3	14.1	3.2	1.1	1.1	1.1	1.1
117.5°	73.2	67.9	60.1	42.4	22.6	9.2	1.8	1.1	1.1	1.1	1.1
120°	57.3	52.3	43.5	29.3	15.2	5.3	0.7	1.1	1.1	1.1	1.1
122.5°	41.0	37.1	29.3	19.1	9.2	2.5	1.1	1.1	1.4	1.4	1.1
125°	27.2	25.1	19.4	11.7	5.7	1.1	1.1	1.1	1.4	1.4	1.1
127.5°	17.7	15.9	11.3	6.7	2.5	1.1	1.1	1.4	1.4	1.4	1.1
130°	9.9	8.8	6.7	3.9	1.1	1.1	1.1	1.4	1.4	1.4	1.1
132.5°	5.7	5.3	3.5	0.7	1.1	1.1	1.1	1.4	1.4	1.4	1.4
135°	1.4	0.7	0.7	0.7	1.1	1.1	1.4	1.4	1.8	1.8	1.4
137.5°	0.4	0.4	0.7	0.7	1.1	1.1	1.4	1.8	1.8	1.8	1.4
140°	0.4	0.4	0.7	1.1	1.1	1.1	1.4	1.8	1.8	1.8	1.4
142.5°	0.4	0.7	0.7	1.1	1.1	1.4	1.4	1.8	1.8	1.4	1.4
145°	0.4	0.7	0.7	1.1	1.1	1.4	1.4	1.8	1.4	1.4	1.4
147.5°	0.7	0.7	0.7	1.1	1.1	1.4	1.4	1.8	1.8	1.4	1.4
150°	0.4	0.7	0.7	1.1	1.4	1.4	1.4	1.8	1.4	1.4	1.4
152.5°	0.4	0.7	0.7	1.1	1.4	1.4	1.4	1.8	1.4	1.4	1.4
155°	0.7	0.7	0.7	1.1	1.4	1.4	1.4	1.8	1.4	1.4	1.8
157.5°	0.7	0.7	0.7	1.1	1.4	1.4	1.4	1.8	1.4	1.4	1.8
160°	0.7	0.7	0.7	1.1	1.1	1.4	1.4	1.4	1.4	1.4	1.4
162.5°	0.7	0.7	0.7	1.1	1.1	1.4	1.4	1.4	1.4	1.4	1.4
165°	0.7	0.7	0.7	0.7	1.1	1.1	1.4	1.4	1.4	1.4	1.4
167.5°	0.7	0.7	0.7	1.1	1.1	1.1	1.4	1.4	1.4	1.4	1.4
170°	0.7	0.7	0.7	1.1	1.1	1.1	1.4	1.8	1.8	1.8	1.8
172.5°	0.7	0.7	0.7	1.1	1.1	1.4	1.4	1.8	1.8	1.8	1.8
175°	0.7	0.7	0.7	1.1	1.1	1.4	1.4	1.8	1.8	1.8	1.8
177.5°	0.4	0.7	0.7	1.1	1.1	1.4	1.4	1.8	1.8	1.8	1.4
180°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	277.5	277.5	277.5
2.5°	264.1	259.1	257.7
5°	249.9	241.8	237.2
7.5°	235.8	224.8	219.5
10°	222.7	207.2	201.5
12.5°	207.2	189.1	180.3
15°	192.3	169.0	160.5
17.5°	175.7	149.5	139.6
20°	160.2	130.1	119.8
22.5°	142.5	111.0	99.7
25°	126.6	91.9	79.2
27.5°	108.9	72.5	61.5
30°	92.3	55.5	44.5
32.5°	76.4	40.7	30.8
35°	61.5	27.6	19.4
37.5°	47.4	17.0	9.9
40°	34.3	8.8	4.6
42.5°	23.0	4.2	2.5
45°	14.1	2.1	0.0
47.5°	8.1	0.0	0.0
50°	4.2	0.0	0.0
52.5°	1.8	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°	0.4	0.4	0.4
77.5°	0.4	0.7	1.1
80°	0.7	1.4	1.8
82.5°	1.4	1.8	1.8
85°	1.4	1.8	2.1
87.5°	1.8	2.1	2.5
90°	2.1	2.5	2.5
92.5°	2.1	2.8	2.8
95°	2.5	2.8	3.2
97.5°	2.8	3.2	3.2
100°	2.5	3.2	3.5
102.5°	2.1	3.2	3.2
105°	1.8	2.5	2.8



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	1.4	1.8	1.8
115°	1.1	1.4	1.8
117.5°	1.1	1.4	1.4
120°	1.1	1.1	1.4
122.5°	1.1	1.1	1.4
125°	1.1	1.1	1.4
127.5°	1.4	1.1	1.1
130°	1.1	1.1	1.1
132.5°	1.4	1.1	1.1
135°	1.4	1.1	1.1
137.5°	1.4	1.1	1.1
140°	1.4	1.1	1.1
142.5°	1.4	1.1	1.1
145°	1.1	1.1	1.1
147.5°	1.1	1.1	1.1
150°	1.1	1.1	0.7
152.5°	1.1	0.7	0.7
155°	1.1	0.7	0.4
157.5°	1.4	0.7	0.4
160°	1.1	0.7	0.4
162.5°	1.1	0.7	0.4
165°	1.1	0.7	0.0
167.5°	1.1	0.7	0.4
170°	1.1	0.7	0.4
172.5°	1.1	0.7	0.4
175°	1.1	0.4	0.4
177.5°	1.1	0.4	0.4
180°	1.1	1.1	1.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	148.5	144.2	130.1	106.8	74.6	41.7	15.6	2.8	0.7	1.1	1.1
110°	129.4	125.9	111.4	88.7	60.1	31.1	10.3	1.8	1.1	1.1	1.1





107.5°	1.4	2.1	2.5
110°	1.4	1.8	2.1



(END OF REPORT)