

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: P551526

Luminaire Tested: **FCC-X-2-LD4-2LO-35-UNV-80-97-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: P551526
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-LD4-2LO-35-UNV-80-97-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

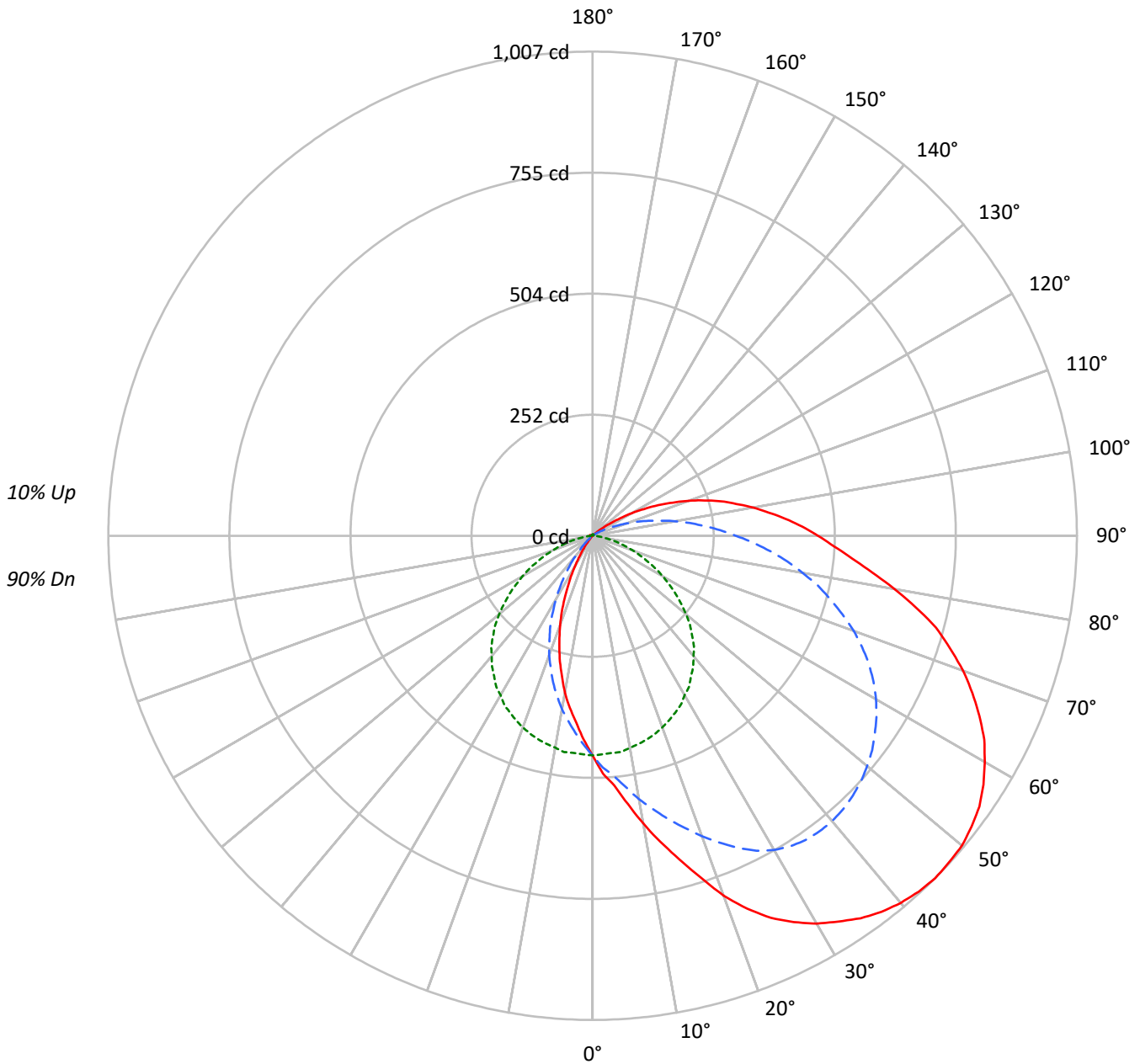
Lumens per Lamp: N/A
Luminaire Lumens: 2257.9 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 23.5
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

TEST NUMBER: P551526

CATALOG NUMBER: FCC-X-2-LD4-2LO-35-UNV-80-97-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°	4916	4916	4916
5°	5397	4844	4041
10°	6107	4785	3331
15°	6845	4724	2596
20°	7719	4648	1911
25°	8445	4557	1255
30°	8984	4438	707
35°	9452	4310	311
40°	9866	4151	75
45°	10221	3952	0
50°	10519	3689	0
55°	10747	3354	0
60°	10861	2966	0
65°	10906	2525	0
70°	10869	2059	0
75°	10731	1517	9
80°	10296	929	47
85°	9952	442	64



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	1.9
10°-20°	131.0	5.8
20°-30°	212.1	9.4
30°-40°	272.5	12.1
40°-50°	308.5	13.7
50°-60°	319.6	14.2
60°-70°	301.4	13.3
70°-80°	252.6	11.2
80°-90°	183.1	8.1
90°-100°	120.3	5.3
100°-110°	69.5	3.1
110°-120°	30.6	1.4
120°-130°	8.3	0.4
130°-140°	1.9	0.1
140°-150°	1.2	0.1
150°-160°	0.9	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	386.9	17.1
0°-40°	659.4	29.2
0°-60°	1287.4	57.0
0°-90°	2024.5	89.7
90°-120°	220.5	9.8
90°-150°	231.9	10.3
90°-180°	233.0	10.3
0°-180°	2257.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	457	457	457	457	457	
5°	521	501	453	411	390	53
15°	696	611	438	316	264	201
25°	877	716	406	208	130	405
35°	971	772	357	101	32	609
45°	1007	765	292	23	0	778
55°	982	717	211	0	0	877
65°	887	634	126	0	0	878
75°	740	512	54	1	1	776
85°	541	371	9	2	4	462
90°	469	298	2	4	4	257
95°	403	232	1	4	5	316
105°	277	120	1	3	5	292
115°	151	40	2	2	3	151
125°	45	6	2	2	2	45
135°	2	2	3	2	2	4
145°	1	2	2	2	2	0
155°	1	2	2	2	1	0
165°	1	2	2	2	0	0
175°	1	2	3	2	1	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
0°	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7
2.5°	495.1	494.6	492.8	489.9	485.8	478.8	473.0	467.8	460.8	455.0	443.9
5°	521.3	518.4	516.1	513.2	503.9	497.5	487.0	475.4	464.3	453.2	431.1
7.5°	563.2	558.6	555.1	546.9	534.1	519.6	503.3	492.2	484.7	453.8	416.0
10°	608.0	603.9	597.0	582.4	566.7	545.8	522.5	496.3	473.0	447.4	402.6
12.5°	652.2	646.4	636.5	617.9	595.8	569.6	537.6	506.8	473.6	443.4	386.9
15°	696.5	690.1	679.6	656.9	627.8	593.5	554.5	515.5	476.5	438.1	370.6
17.5°	744.7	736.0	720.3	694.7	658.1	615.6	569.6	522.5	475.4	431.7	353.2
20°	796.5	784.3	767.4	733.1	690.1	640.0	584.7	529.5	474.8	424.2	333.4
22.5°	839.6	827.4	808.7	773.3	721.5	660.4	597.5	534.1	472.4	415.4	314.8
25°	876.8	866.9	846.6	805.8	751.1	681.9	609.8	537.6	469.0	406.1	295.0
27.5°	905.9	896.6	873.9	832.0	776.2	701.1	619.1	539.4	464.3	396.8	274.6
30°	931.5	922.2	894.9	851.8	793.0	716.2	628.4	539.9	458.5	382.8	252.5
32.5°	951.3	942.6	914.6	868.7	804.7	726.7	633.6	539.4	450.9	373.0	228.7
35°	971.1	962.4	929.8	880.9	813.4	731.4	637.7	536.5	441.6	356.7	206.0
37.5°	986.2	976.3	943.2	889.0	817.5	732.5	637.1	532.4	431.7	343.3	183.3
40°	996.7	986.2	950.7	893.7	818.6	730.8	632.5	525.4	420.1	326.4	159.4
42.5°	1003.7	992.0	954.2	900.7	816.3	726.1	625.5	516.7	407.3	311.9	136.7
45°	1007.2	994.9	954.8	894.9	812.2	717.4	615.0	505.6	393.3	292.1	114.0
47.5°	1005.4	992.0	951.9	888.5	804.7	708.1	603.4	492.2	376.4	274.6	92.5
50°	1002.5	988.5	945.5	880.3	794.2	696.5	590.6	475.9	359.0	253.1	73.3
52.5°	993.2	979.2	938.5	868.7	782.0	683.1	573.1	459.1	340.4	232.2	55.9
55°	981.6	968.8	926.3	858.2	766.3	666.8	556.8	441.0	322.3	210.6	40.1
57.5°	963.5	951.9	911.2	841.3	750.6	648.7	538.8	421.2	299.6	189.1	27.9
60°	941.4	929.8	890.2	822.1	732.5	628.4	519.0	400.9	279.3	167.6	17.5
62.5°	918.1	907.1	865.8	798.3	709.8	606.9	497.5	380.5	257.8	147.8	10.5
65°	887.3	876.8	839.6	769.8	684.8	583.6	473.6	356.1	235.6	125.7	5.8
67.5°	854.7	845.4	807.6	743.6	655.7	558.0	449.2	332.2	212.4	106.5	2.9
70°	819.8	808.2	773.3	708.1	626.1	528.9	422.4	307.8	190.3	87.9	0.0
72.5°	779.1	770.3	736.6	674.9	591.7	498.0	395.1	281.0	165.8	69.8	0.6
75°	739.5	728.5	697.6	639.4	558.0	465.5	364.8	256.0	142.0	53.5	0.6
77.5°	688.3	684.8	655.7	599.3	526.0	434.0	331.6	225.8	119.3	38.4	0.6
80°	637.1	633.6	610.9	559.1	488.7	396.8	300.8	197.2	97.2	25.6	0.6
82.5°	586.5	581.8	560.3	517.2	450.9	365.4	268.8	168.7	76.8	15.7	0.6
85°	541.1	535.3	512.0	472.4	411.9	329.9	235.6	140.8	57.0	8.7	1.2
87.5°	502.1	498.0	472.4	431.7	372.4	296.7	206.6	114.0	40.1	4.1	1.7
90°	469.0	460.2	437.5	394.5	335.1	260.1	175.7	91.3	26.8	2.3	2.3
92.5°	436.4	428.8	403.8	359.6	302.0	228.7	146.0	69.8	16.9	1.2	2.9
95°	402.6	394.5	370.0	329.3	268.2	196.7	119.9	51.2	9.3	1.2	2.9
97.5°	369.5	361.9	336.3	295.6	238.0	168.7	94.8	36.1	4.7	1.2	2.3
100°	338.6	329.9	306.6	265.9	207.7	140.8	73.3	23.3	2.9	1.2	2.3
102.5°	306.0	299.1	275.2	235.6	176.3	114.6	54.7	14.5	1.2	1.2	1.7
105°	277.0	268.2	245.0	204.2	150.1	90.2	38.4	8.7	1.2	1.2	1.7



TEST NUMBER: P551526

CATALOG NUMBER: FCC-X-2-LD4-2LO-35-UNV-80-97-ED1D

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	180.4	173.4	153.0	118.7	76.2	35.5	10.5	1.7	1.7	1.7	1.7
115°	150.7	140.2	122.2	91.9	56.4	23.3	5.2	1.7	1.7	1.7	1.7
117.5°	120.4	111.7	98.9	69.8	37.2	15.1	2.9	1.7	1.7	1.7	1.7
120°	94.3	86.1	71.6	48.3	25.0	8.7	1.2	1.7	1.7	1.7	1.7
122.5°	67.5	61.1	48.3	31.4	15.1	4.1	1.7	1.7	2.3	2.3	1.7
125°	44.8	41.3	32.0	19.2	9.3	1.7	1.7	1.7	2.3	2.3	1.7
127.5°	29.1	26.2	18.6	11.1	4.1	1.7	1.7	2.3	2.3	2.3	1.7
130°	16.3	14.5	11.1	6.4	1.7	1.7	1.7	2.3	2.3	2.3	1.7
132.5°	9.3	8.7	5.8	1.2	1.7	1.7	1.7	2.3	2.3	2.3	2.3
135°	2.3	1.2	1.2	1.2	1.7	1.7	2.3	2.3	2.9	2.9	2.3
137.5°	0.6	0.6	1.2	1.2	1.7	1.7	2.3	2.9	2.9	2.9	2.3
140°	0.6	0.6	1.2	1.7	1.7	1.7	2.3	2.9	2.9	2.9	2.3
142.5°	0.6	1.2	1.2	1.7	1.7	2.3	2.3	2.9	2.9	2.3	2.3
145°	0.6	1.2	1.2	1.7	1.7	2.3	2.3	2.9	2.3	2.3	2.3
147.5°	1.2	1.2	1.2	1.7	1.7	2.3	2.3	2.9	2.9	2.3	2.3
150°	0.6	1.2	1.2	1.7	2.3	2.3	2.3	2.9	2.3	2.3	2.3
152.5°	0.6	1.2	1.2	1.7	2.3	2.3	2.3	2.9	2.3	2.3	2.3
155°	1.2	1.2	1.2	1.7	2.3	2.3	2.3	2.9	2.3	2.3	2.9
157.5°	1.2	1.2	1.2	1.7	2.3	2.3	2.3	2.9	2.3	2.3	2.9
160°	1.2	1.2	1.2	1.7	1.7	2.3	2.3	2.3	2.3	2.3	2.3
162.5°	1.2	1.2	1.2	1.7	1.7	2.3	2.3	2.3	2.3	2.3	2.3
165°	1.2	1.2	1.2	1.2	1.7	1.7	2.3	2.3	2.3	2.3	2.3
167.5°	1.2	1.2	1.2	1.7	1.7	1.7	2.3	2.3	2.3	2.3	2.3
170°	1.2	1.2	1.2	1.7	1.7	1.7	2.3	2.9	2.9	2.9	2.9
172.5°	1.2	1.2	1.2	1.7	1.7	2.3	2.3	2.9	2.9	2.9	2.9
175°	1.2	1.2	1.2	1.7	1.7	2.3	2.3	2.9	2.9	2.9	2.9
177.5°	0.6	1.2	1.2	1.7	1.7	2.3	2.3	2.9	2.9	2.9	2.3
180°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7



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CATALOG NUMBER: FCC-X-2-LD4-2LO-35-UNV-80-97-ED1D

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	456.7	456.7	456.7
2.5°	434.6	426.5	424.2
5°	411.4	398.0	390.4
7.5°	388.1	370.0	361.3
10°	366.6	341.0	331.6
12.5°	341.0	311.3	296.7
15°	316.5	278.1	264.2
17.5°	289.2	246.1	229.8
20°	263.6	214.1	197.2
22.5°	234.5	182.7	164.1
25°	208.3	151.3	130.3
27.5°	179.2	119.3	101.2
30°	151.9	91.3	73.3
32.5°	125.7	66.9	50.6
35°	101.2	45.4	32.0
37.5°	78.0	27.9	16.3
40°	56.4	14.5	7.6
42.5°	37.8	7.0	4.1
45°	23.3	3.5	0.0
47.5°	13.4	0.0	0.0
50°	7.0	0.0	0.0
52.5°	2.9	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°	0.6	0.6	0.6
77.5°	0.6	1.2	1.7
80°	1.2	2.3	2.9
82.5°	2.3	2.9	2.9
85°	2.3	2.9	3.5
87.5°	2.9	3.5	4.1
90°	3.5	4.1	4.1
92.5°	3.5	4.7	4.7
95°	4.1	4.7	5.2
97.5°	4.7	5.2	5.2
100°	4.1	5.2	5.8
102.5°	3.5	5.2	5.2
105°	2.9	4.1	4.7



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CATALOG NUMBER: FCC-X-2-LD4-2LO-35-UNV-80-97-ED1D

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	2.3	2.9	2.9
115°	1.7	2.3	2.9
117.5°	1.7	2.3	2.3
120°	1.7	1.7	2.3
122.5°	1.7	1.7	2.3
125°	1.7	1.7	2.3
127.5°	2.3	1.7	1.7
130°	1.7	1.7	1.7
132.5°	2.3	1.7	1.7
135°	2.3	1.7	1.7
137.5°	2.3	1.7	1.7
140°	2.3	1.7	1.7
142.5°	2.3	1.7	1.7
145°	1.7	1.7	1.7
147.5°	1.7	1.7	1.7
150°	1.7	1.7	1.2
152.5°	1.7	1.2	1.2
155°	1.7	1.2	0.6
157.5°	2.3	1.2	0.6
160°	1.7	1.2	0.6
162.5°	1.7	1.2	0.6
165°	1.7	1.2	0.0
167.5°	1.7	1.2	0.6
170°	1.7	1.2	0.6
172.5°	1.7	1.2	0.6
175°	1.7	0.6	0.6
177.5°	1.7	0.6	0.6
180°	1.7	1.7	1.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	244.4	237.4	214.1	175.7	122.8	68.7	25.6	4.7	1.2	1.7	1.7
110°	213.0	207.1	183.3	146.0	98.9	51.2	16.9	2.9	1.7	1.7	1.7





107.5°	2.3	3.5	4.1
110°	2.3	2.9	3.5



(END OF REPORT)