

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: P551522

Luminaire Tested: **FCC-X-2-LD4-2LO-35-UNV-80-94-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: P551522
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-80-94-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

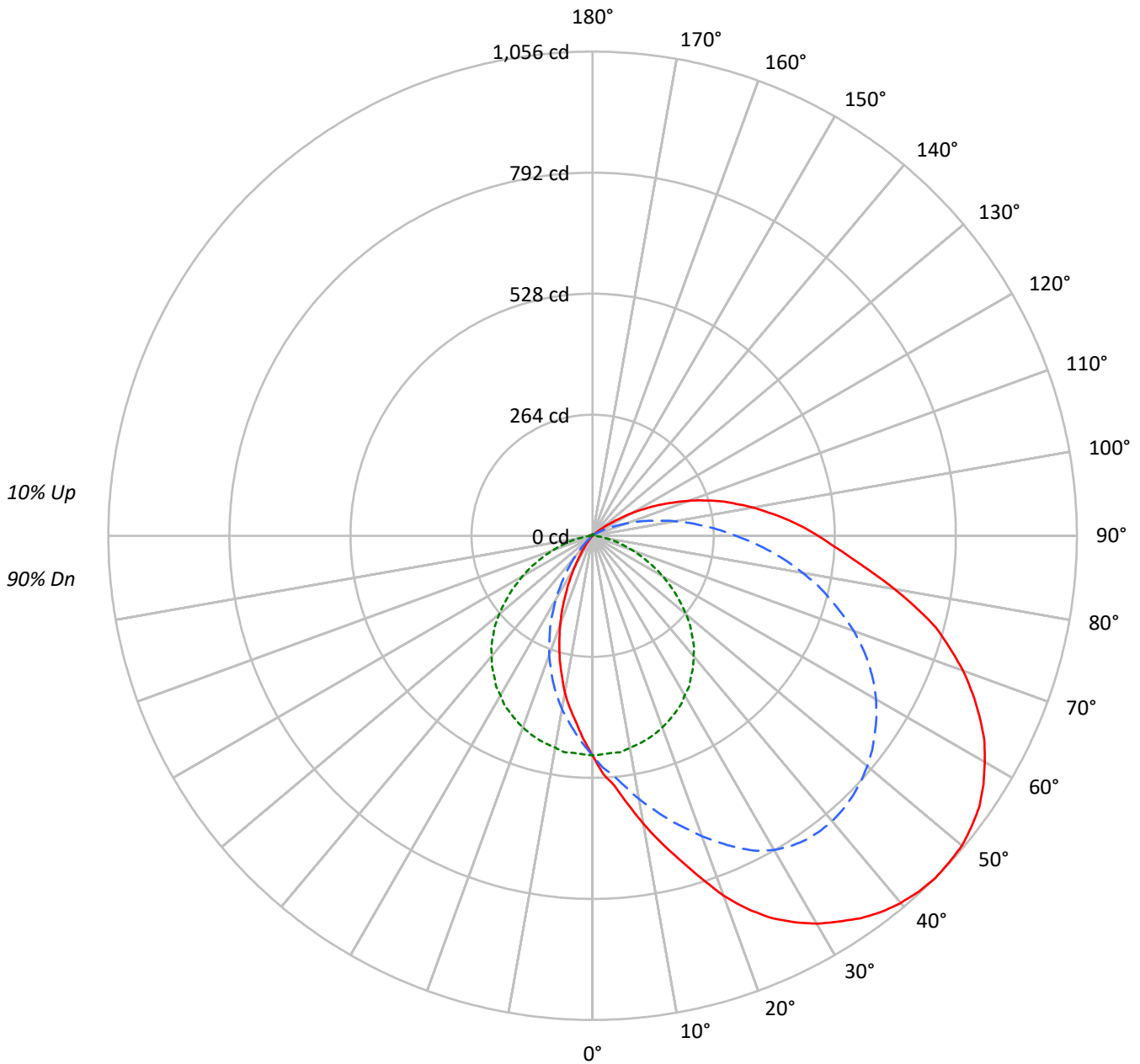
Lumens per Lamp: N/A
Luminaire Lumens: 2367.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (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				20				20
RC	80				70				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	93	93	93	90
1	103	96	91	86	99	93	88	83	87	83	79	81	78	74	76	73	70	76	73	70	67
2	92	82	74	67	88	79	72	65	74	67	62	69	64	59	64	60	56	64	60	56	53
3	83	71	61	54	79	68	60	53	64	56	50	59	53	48	55	50	46	55	50	46	43
4	75	62	52	44	72	60	51	44	56	48	42	52	45	40	49	43	38	49	43	38	36
5	69	55	45	38	66	53	44	37	50	42	35	46	39	34	43	38	33	43	38	33	30
6	63	49	39	32	61	47	38	32	44	36	31	42	35	29	39	33	28	39	33	28	26
7	58	44	35	28	56	43	34	28	40	32	27	38	31	26	36	29	25	36	29	25	23
8	54	40	31	25	52	39	30	24	37	29	24	34	28	23	32	26	22	32	26	22	20
9	51	36	28	22	49	35	27	22	33	26	21	32	25	20	30	24	20	30	24	20	18
10	47	33	25	20	45	33	25	19	31	24	19	29	23	18	28	22	18	28	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5156	5156	5156
5°	5660	5080	4238
10°	6404	5018	3493
15°	7178	4955	2722
20°	8095	4873	2005
25°	8856	4780	1317
30°	9422	4654	742
35°	9912	4519	327
40°	10346	4353	78
45°	10719	4145	0
50°	11031	3868	0
55°	11270	3518	0
60°	11390	3109	0
65°	11437	2647	0
70°	11398	2158	0
75°	11253	1591	9
80°	10797	972	50
85°	10437	468	68



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	1.9
10°-20°	137.4	5.8
20°-30°	222.5	9.4
30°-40°	285.8	12.1
40°-50°	323.5	13.7
50°-60°	335.1	14.2
60°-70°	316.1	13.3
70°-80°	264.9	11.2
80°-90°	192.0	8.1
90°-100°	126.2	5.3
100°-110°	72.9	3.1
110°-120°	32.1	1.4
120°-130°	8.7	0.4
130°-140°	2.0	0.1
140°-150°	1.3	0.1
150°-160°	0.9	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	405.7	17.1
0°-40°	691.5	29.2
0°-60°	1350.2	57.0
0°-90°	2123.1	89.7
90°-120°	231.2	9.8
90°-150°	243.2	10.3
90°-180°	245.0	10.3
0°-180°	2367.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	479	479	479	479	479	
5°	547	525	475	431	409	55
15°	730	640	460	332	277	211
25°	920	751	426	218	137	425
35°	1018	810	374	106	34	639
45°	1056	802	306	24	0	815
55°	1029	751	221	0	0	919
65°	930	665	132	0	0	921
75°	776	537	56	1	1	813
85°	568	389	9	2	4	485
90°	492	312	2	4	4	270
95°	422	244	1	4	6	331
105°	290	126	1	3	5	306
115°	158	42	2	2	3	158
125°	47	6	2	2	2	47
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°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	519.3	518.7	516.8	513.8	509.5	502.2	496.1	490.6	483.3	477.2	465.6
5°	546.7	543.7	541.2	538.2	528.4	521.7	510.7	498.5	486.9	475.3	452.1
7.5°	590.7	585.8	582.1	573.6	560.1	544.9	527.8	516.2	508.3	475.9	436.3
10°	637.6	633.4	626.0	610.8	594.3	572.3	547.9	520.5	496.1	469.2	422.2
12.5°	684.0	677.9	667.5	648.0	624.8	597.4	563.8	531.5	496.7	465.0	405.8
15°	730.4	723.7	712.7	688.9	658.4	622.4	581.5	540.6	499.7	459.5	388.7
17.5°	781.0	771.9	755.4	728.6	690.1	645.6	597.4	547.9	498.5	452.8	370.4
20°	835.3	822.5	804.8	768.8	723.7	671.2	613.2	555.3	497.9	444.8	349.6
22.5°	880.5	867.7	848.1	810.9	756.6	692.6	626.7	560.1	495.5	435.7	330.1
25°	919.5	909.2	887.8	845.1	787.7	715.1	639.5	563.8	491.8	425.9	309.4
27.5°	950.0	940.3	916.5	872.6	814.0	735.3	649.2	565.6	486.9	416.1	288.0
30°	976.9	967.1	938.5	893.3	831.7	751.1	659.0	566.2	480.8	401.5	264.8
32.5°	997.6	988.5	959.2	911.0	843.9	762.1	664.5	565.6	472.9	391.1	239.8
35°	1018.4	1009.2	975.1	923.8	853.0	767.0	668.8	562.6	463.1	374.0	216.0
37.5°	1034.3	1023.9	989.1	932.4	857.3	768.2	668.1	558.3	452.8	360.0	192.2
40°	1045.2	1034.3	997.0	937.2	858.5	766.4	663.3	551.0	440.5	342.3	167.2
42.5°	1052.6	1040.4	1000.7	944.6	856.1	761.5	655.9	541.8	427.1	327.1	143.4
45°	1056.2	1043.4	1001.3	938.5	851.8	752.3	645.0	530.2	412.5	306.3	119.6
47.5°	1054.4	1040.4	998.3	931.7	843.9	742.6	632.8	516.2	394.8	288.0	97.0
50°	1051.3	1036.7	991.5	923.2	832.9	730.4	619.3	499.1	376.5	265.4	76.9
52.5°	1041.6	1026.9	984.2	911.0	820.1	716.3	601.0	481.4	357.0	243.5	58.6
55°	1029.4	1015.9	971.4	900.0	803.6	699.3	583.9	462.5	338.0	220.9	42.1
57.5°	1010.5	998.3	955.5	882.3	787.1	680.3	565.0	441.8	314.2	198.3	29.3
60°	987.3	975.1	933.6	862.2	768.2	659.0	544.3	420.4	292.9	175.7	18.3
62.5°	962.9	951.3	907.9	837.2	744.4	636.4	521.7	399.1	270.3	155.0	11.0
65°	930.5	919.5	880.5	807.3	718.2	612.0	496.7	373.4	247.1	131.8	6.1
67.5°	896.4	886.6	846.9	779.8	687.7	585.2	471.1	348.4	222.7	111.7	3.1
70°	859.7	847.5	810.9	742.6	656.6	554.7	443.0	322.8	199.5	92.1	0.0
72.5°	817.0	807.9	772.5	707.8	620.6	522.3	414.3	294.7	173.9	73.2	0.6
75°	775.5	763.9	731.6	670.6	585.2	488.1	382.6	268.5	148.9	56.1	0.6
77.5°	721.8	718.2	687.7	628.5	551.6	455.2	347.8	236.7	125.1	40.3	0.6
80°	668.1	664.5	640.7	586.4	512.5	416.1	315.5	206.9	101.9	26.8	0.6
82.5°	615.1	610.2	587.6	542.4	472.9	383.2	281.9	177.0	80.5	16.5	0.6
85°	567.5	561.4	537.0	495.5	432.0	346.0	247.1	147.7	59.8	9.2	1.2
87.5°	526.6	522.3	495.5	452.8	390.5	311.2	216.6	119.6	42.1	4.3	1.8
90°	491.8	482.7	458.9	413.7	351.5	272.7	184.3	95.8	28.1	2.4	2.4
92.5°	457.6	449.7	423.5	377.1	316.7	239.8	153.2	73.2	17.7	1.2	3.1
95°	422.2	413.7	388.1	345.4	281.3	206.2	125.7	53.7	9.8	1.2	3.1
97.5°	387.5	379.5	352.7	310.0	249.6	177.0	99.5	37.8	4.9	1.2	2.4
100°	355.1	346.0	321.6	278.9	217.8	147.7	76.9	24.4	3.1	1.2	2.4
102.5°	321.0	313.6	288.6	247.1	184.9	120.2	57.4	15.3	1.2	1.2	1.8
105°	290.4	281.3	256.9	214.2	157.4	94.6	40.3	9.2	1.2	1.2	1.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	189.2	181.8	160.5	124.5	79.9	37.2	11.0	1.8	1.8	1.8	1.8
115°	158.0	147.1	128.1	96.4	59.2	24.4	5.5	1.8	1.8	1.8	1.8
117.5°	126.3	117.2	103.7	73.2	39.1	15.9	3.1	1.8	1.8	1.8	1.8
120°	98.8	90.3	75.1	50.6	26.2	9.2	1.2	1.8	1.8	1.8	1.8
122.5°	70.8	64.1	50.6	32.9	15.9	4.3	1.8	1.8	2.4	2.4	1.8
125°	47.0	43.3	33.6	20.1	9.8	1.8	1.8	1.8	2.4	2.4	1.8
127.5°	30.5	27.5	19.5	11.6	4.3	1.8	1.8	2.4	2.4	2.4	1.8
130°	17.1	15.3	11.6	6.7	1.8	1.8	1.8	2.4	2.4	2.4	1.8
132.5°	9.8	9.2	6.1	1.2	1.8	1.8	1.8	2.4	2.4	2.4	2.4
135°	2.4	1.2	1.2	1.2	1.8	1.8	2.4	2.4	3.1	3.1	2.4
137.5°	0.6	0.6	1.2	1.2	1.8	1.8	2.4	3.1	3.1	3.1	2.4
140°	0.6	0.6	1.2	1.8	1.8	1.8	2.4	3.1	3.1	3.1	2.4
142.5°	0.6	1.2	1.2	1.8	1.8	2.4	2.4	3.1	3.1	2.4	2.4
145°	0.6	1.2	1.2	1.8	1.8	2.4	2.4	3.1	2.4	2.4	2.4
147.5°	1.2	1.2	1.2	1.8	1.8	2.4	2.4	3.1	3.1	2.4	2.4
150°	0.6	1.2	1.2	1.8	2.4	2.4	2.4	3.1	2.4	2.4	2.4
152.5°	0.6	1.2	1.2	1.8	2.4	2.4	2.4	3.1	2.4	2.4	2.4
155°	1.2	1.2	1.2	1.8	2.4	2.4	2.4	3.1	2.4	2.4	3.1
157.5°	1.2	1.2	1.2	1.8	2.4	2.4	2.4	3.1	2.4	2.4	3.1
160°	1.2	1.2	1.2	1.8	1.8	2.4	2.4	2.4	2.4	2.4	2.4
162.5°	1.2	1.2	1.2	1.8	1.8	2.4	2.4	2.4	2.4	2.4	2.4
165°	1.2	1.2	1.2	1.2	1.8	1.8	2.4	2.4	2.4	2.4	2.4
167.5°	1.2	1.2	1.2	1.8	1.8	1.8	2.4	2.4	2.4	2.4	2.4
170°	1.2	1.2	1.2	1.8	1.8	1.8	2.4	3.1	3.1	3.1	3.1
172.5°	1.2	1.2	1.2	1.8	1.8	2.4	2.4	3.1	3.1	3.1	3.1
175°	1.2	1.2	1.2	1.8	1.8	2.4	2.4	3.1	3.1	3.1	3.1
177.5°	0.6	1.2	1.2	1.8	1.8	2.4	2.4	3.1	3.1	3.1	2.4
180°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8



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CATALOG NUMBER: FCC-X-2-LD4-2LO-35-UNV-80-94-ED1D

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	479.0	479.0	479.0
2.5°	455.8	447.3	444.8
5°	431.4	417.4	409.4
7.5°	407.0	388.1	378.9
10°	384.4	357.6	347.8
12.5°	357.6	326.4	311.2
15°	331.9	291.7	277.0
17.5°	303.3	258.1	241.0
20°	276.4	224.5	206.9
22.5°	245.9	191.6	172.1
25°	218.4	158.6	136.7
27.5°	187.9	125.1	106.2
30°	159.3	95.8	76.9
32.5°	131.8	70.2	53.1
35°	106.2	47.6	33.6
37.5°	81.8	29.3	17.1
40°	59.2	15.3	7.9
42.5°	39.7	7.3	4.3
45°	24.4	3.7	0.0
47.5°	14.0	0.0	0.0
50°	7.3	0.0	0.0
52.5°	3.1	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	1.8
80°	1.2	2.4	3.1
82.5°	2.4	3.1	3.1
85°	2.4	3.1	3.7
87.5°	3.1	3.7	4.3
90°	3.7	4.3	4.3
92.5°	3.7	4.9	4.9
95°	4.3	4.9	5.5
97.5°	4.9	5.5	5.5
100°	4.3	5.5	6.1
102.5°	3.7	5.5	5.5
105°	3.1	4.3	4.9



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CATALOG NUMBER: FCC-X-2-LD4-2LO-35-UNV-80-94-ED1D

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	2.4	3.1	3.1
115°	1.8	2.4	3.1
117.5°	1.8	2.4	2.4
120°	1.8	1.8	2.4
122.5°	1.8	1.8	2.4
125°	1.8	1.8	2.4
127.5°	2.4	1.8	1.8
130°	1.8	1.8	1.8
132.5°	2.4	1.8	1.8
135°	2.4	1.8	1.8
137.5°	2.4	1.8	1.8
140°	2.4	1.8	1.8
142.5°	2.4	1.8	1.8
145°	1.8	1.8	1.8
147.5°	1.8	1.8	1.8
150°	1.8	1.8	1.2
152.5°	1.8	1.2	1.2
155°	1.8	1.2	0.6
157.5°	2.4	1.2	0.6
160°	1.8	1.2	0.6
162.5°	1.8	1.2	0.6
165°	1.8	1.2	0.0
167.5°	1.8	1.2	0.6
170°	1.8	1.2	0.6
172.5°	1.8	1.2	0.6
175°	1.8	0.6	0.6
177.5°	1.8	0.6	0.6
180°	1.8	1.8	1.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	256.3	249.0	224.5	184.3	128.7	72.0	26.8	4.9	1.2	1.8	1.8
110°	223.3	217.2	192.2	153.2	103.7	53.7	17.7	3.1	1.8	1.8	1.8





107.5°	2.4	3.7	4.3
110°	2.4	3.1	3.7



(END OF REPORT)