

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: P550500

Luminaire Tested: **FCC-X-2-LD4-1HI-35-UNV-80-96-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: P550500
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-LD4-1HI-35-UNV-80-96-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

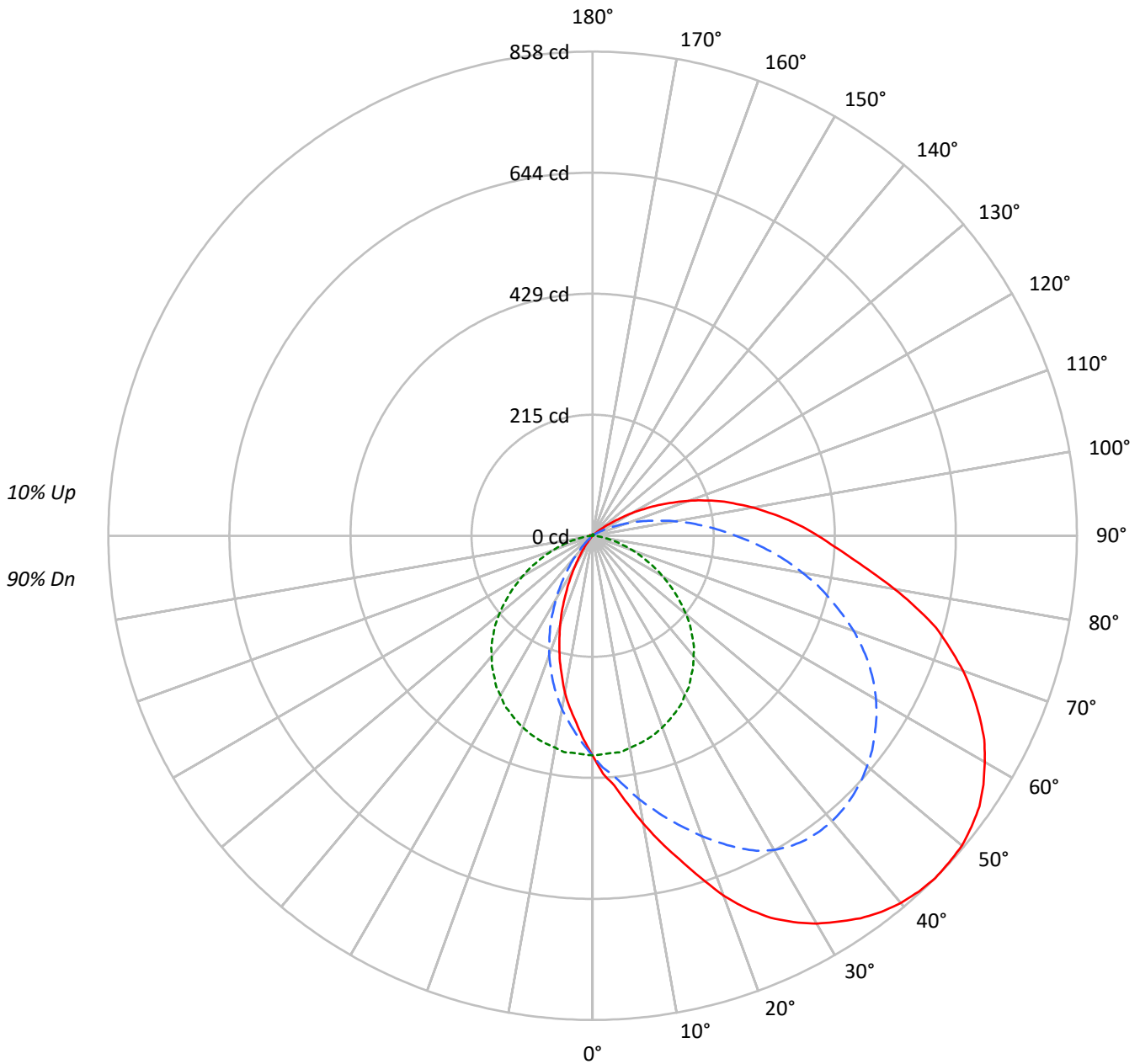
Lumens per Lamp: N/A
Luminaire Lumens: 1924.1 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 21.7
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: P550500

CATALOG NUMBER: FCC-X-2-LD4-1HI-35-UNV-80-96-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°	4189	4189	4189
5°	4598	4128	3444
10°	5204	4077	2839
15°	5831	4025	2212
20°	6577	3960	1629
25°	7195	3883	1070
30°	7655	3781	603
35°	8053	3672	266
40°	8407	3537	63
45°	8709	3368	0
50°	8963	3144	0
55°	9157	2858	0
60°	9255	2527	0
65°	9292	2151	0
70°	9261	1755	0
75°	9143	1293	7
80°	8774	791	40
85°	8481	376	55



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	1.9
10°-20°	111.6	5.8
20°-30°	180.8	9.4
30°-40°	232.2	12.1
40°-50°	262.8	13.7
50°-60°	272.3	14.2
60°-70°	256.8	13.3
70°-80°	215.2	11.2
80°-90°	156.0	8.1
90°-100°	102.5	5.3
100°-110°	59.2	3.1
110°-120°	26.1	1.4
120°-130°	7.1	0.4
130°-140°	1.6	0.1
140°-150°	1.1	0.1
150°-160°	0.8	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-30°	329.7	17.1
0°-40°	561.8	29.2
0°-60°	1097.0	57.0
0°-90°	1725.0	89.7
90°-120°	187.9	9.8
90°-150°	197.7	10.3
90°-180°	199.0	10.3
0°-180°	1924.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	389	389	389	389	389	
5°	444	427	386	350	333	45
15°	593	520	373	270	225	171
25°	747	610	346	178	111	345
35°	827	658	304	86	27	519
45°	858	652	249	20	0	663
55°	836	611	180	0	0	747
65°	756	540	107	0	0	748
75°	630	436	46	0	0	661
85°	461	316	7	2	3	394
90°	400	254	2	3	4	219
95°	343	198	1	4	4	269
105°	236	102	1	2	4	249
115°	128	34	2	2	2	129
125°	38	5	2	2	2	38
135°	2	2	2	2	2	4
145°	0	2	2	2	2	0
155°	1	2	2	2	0	0
165°	1	2	2	2	0	0
175°	1	2	2	2	0	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°	389.2	389.2	389.2	389.2	389.2	389.2	389.2	389.2	389.2	389.2	389.2
2.5°	421.9	421.4	419.9	417.4	414.0	408.0	403.1	398.6	392.6	387.7	378.3
5°	444.2	441.7	439.7	437.3	429.3	423.9	415.0	405.0	395.6	386.2	367.4
7.5°	479.9	475.9	473.0	466.0	455.1	442.7	428.8	419.4	413.0	386.7	354.5
10°	518.1	514.6	508.7	496.3	482.9	465.0	445.2	422.9	403.1	381.2	343.1
12.5°	555.8	550.8	542.4	526.5	507.7	485.4	458.1	431.8	403.6	377.8	329.7
15°	593.4	588.0	579.1	559.7	534.9	505.7	472.5	439.3	406.0	373.3	315.8
17.5°	634.6	627.1	613.8	591.9	560.7	524.5	485.4	445.2	405.0	367.9	300.9
20°	678.7	668.3	653.9	624.7	588.0	545.3	498.2	451.2	404.5	361.4	284.1
22.5°	715.4	705.0	689.1	658.9	614.8	562.7	509.2	455.1	402.6	354.0	268.2
25°	747.1	738.7	721.3	686.6	640.0	581.0	519.6	458.1	399.6	346.0	251.4
27.5°	771.9	764.0	744.6	709.0	661.4	597.4	527.5	459.6	395.6	338.1	234.0
30°	793.7	785.8	762.5	725.8	675.7	610.3	535.4	460.1	390.7	326.2	215.2
32.5°	810.6	803.1	779.3	740.2	685.6	619.2	539.9	459.6	384.2	317.8	194.8
35°	827.4	820.0	792.2	750.6	693.1	623.2	543.4	457.1	376.3	303.9	175.5
37.5°	840.3	831.9	803.6	757.5	696.6	624.2	542.9	453.6	367.9	292.5	156.2
40°	849.3	840.3	810.1	761.5	697.5	622.7	538.9	447.7	357.9	278.1	135.8
42.5°	855.2	845.3	813.1	767.5	695.6	618.7	533.0	440.2	347.0	265.7	116.5
45°	858.2	847.8	813.6	762.5	692.1	611.3	524.0	430.8	335.1	248.9	97.2
47.5°	856.7	845.3	811.1	757.0	685.6	603.4	514.1	419.4	320.8	234.0	78.8
50°	854.2	842.3	805.6	750.1	676.7	593.4	503.2	405.5	305.9	215.7	62.5
52.5°	846.3	834.4	799.7	740.2	666.3	582.0	488.3	391.2	290.0	197.8	47.6
55°	836.4	825.5	789.3	731.3	652.9	568.2	474.5	375.8	274.7	179.5	34.2
57.5°	821.0	811.1	776.4	716.9	639.5	552.8	459.1	358.9	255.3	161.1	23.8
60°	802.2	792.2	758.5	700.5	624.2	535.4	442.2	341.6	238.0	142.8	14.9
62.5°	782.3	772.9	737.7	680.2	604.8	517.1	423.9	324.2	219.6	125.9	8.9
65°	756.0	747.1	715.4	655.9	583.5	497.3	403.6	303.4	200.8	107.1	5.0
67.5°	728.3	720.4	688.1	633.6	558.7	475.4	382.7	283.1	181.0	90.7	2.5
70°	698.5	688.6	658.9	603.4	533.4	450.7	359.9	262.3	162.1	74.9	0.0
72.5°	663.8	656.4	627.6	575.1	504.2	424.4	336.6	239.5	141.3	59.5	0.5
75°	630.1	620.7	594.4	544.9	475.4	396.6	310.8	218.1	121.0	45.6	0.5
77.5°	586.5	583.5	558.7	510.6	448.2	369.8	282.6	192.4	101.6	32.7	0.5
80°	542.9	539.9	520.6	476.4	416.4	338.1	256.3	168.1	82.8	21.8	0.5
82.5°	499.7	495.8	477.4	440.7	384.2	311.3	229.0	143.8	65.4	13.4	0.5
85°	461.1	456.1	436.3	402.6	351.0	281.1	200.8	120.0	48.6	7.4	1.0
87.5°	427.8	424.4	402.6	367.9	317.3	252.8	176.0	97.2	34.2	3.5	1.5
90°	399.6	392.2	372.8	336.1	285.6	221.6	149.7	77.8	22.8	2.0	2.0
92.5°	371.8	365.4	344.1	306.4	257.3	194.8	124.4	59.5	14.4	1.0	2.5
95°	343.1	336.1	315.3	280.6	228.5	167.6	102.1	43.6	7.9	1.0	2.5
97.5°	314.8	308.4	286.6	251.9	202.8	143.8	80.8	30.7	4.0	1.0	2.0
100°	288.5	281.1	261.3	226.6	177.0	120.0	62.5	19.8	2.5	1.0	2.0
102.5°	260.8	254.8	234.5	200.8	150.2	97.7	46.6	12.4	1.0	1.0	1.5
105°	236.0	228.5	208.7	174.0	127.9	76.8	32.7	7.4	1.0	1.0	1.5



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CATALOG NUMBER: FCC-X-2-LD4-1HI-35-UNV-80-96-ED1D

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	153.7	147.7	130.4	101.1	64.9	30.2	8.9	1.5	1.5	1.5	1.5
115°	128.4	119.5	104.1	78.3	48.1	19.8	4.5	1.5	1.5	1.5	1.5
117.5°	102.6	95.2	84.3	59.5	31.7	12.9	2.5	1.5	1.5	1.5	1.5
120°	80.3	73.4	61.0	41.1	21.3	7.4	1.0	1.5	1.5	1.5	1.5
122.5°	57.5	52.1	41.1	26.8	12.9	3.5	1.5	1.5	2.0	2.0	1.5
125°	38.2	35.2	27.3	16.4	7.9	1.5	1.5	1.5	2.0	2.0	1.5
127.5°	24.8	22.3	15.9	9.4	3.5	1.5	1.5	2.0	2.0	2.0	1.5
130°	13.9	12.4	9.4	5.5	1.5	1.5	1.5	2.0	2.0	2.0	1.5
132.5°	7.9	7.4	5.0	1.0	1.5	1.5	1.5	2.0	2.0	2.0	2.0
135°	2.0	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.5	2.5	2.0
137.5°	0.5	0.5	1.0	1.0	1.5	1.5	2.0	2.5	2.5	2.5	2.0
140°	0.5	0.5	1.0	1.5	1.5	1.5	2.0	2.5	2.5	2.5	2.0
142.5°	0.5	1.0	1.0	1.5	1.5	2.0	2.0	2.5	2.5	2.0	2.0
145°	0.5	1.0	1.0	1.5	1.5	2.0	2.0	2.5	2.0	2.0	2.0
147.5°	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.5	2.5	2.0	2.0
150°	0.5	1.0	1.0	1.5	2.0	2.0	2.0	2.5	2.0	2.0	2.0
152.5°	0.5	1.0	1.0	1.5	2.0	2.0	2.0	2.5	2.0	2.0	2.0
155°	1.0	1.0	1.0	1.5	2.0	2.0	2.0	2.5	2.0	2.0	2.5
157.5°	1.0	1.0	1.0	1.5	2.0	2.0	2.0	2.5	2.0	2.0	2.5
160°	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0
162.5°	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0
165°	1.0	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0	2.0	2.0
167.5°	1.0	1.0	1.0	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0
170°	1.0	1.0	1.0	1.5	1.5	1.5	2.0	2.5	2.5	2.5	2.5
172.5°	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.5	2.5	2.5	2.5
175°	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.5	2.5	2.5	2.5
177.5°	0.5	1.0	1.0	1.5	1.5	2.0	2.0	2.5	2.5	2.5	2.0
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	389.2	389.2	389.2
2.5°	370.3	363.4	361.4
5°	350.5	339.1	332.7
7.5°	330.7	315.3	307.9
10°	312.3	290.5	282.6
12.5°	290.5	265.2	252.8
15°	269.7	237.0	225.1
17.5°	246.4	209.7	195.8
20°	224.6	182.4	168.1
22.5°	199.8	155.7	139.8
25°	177.5	128.9	111.1
27.5°	152.7	101.6	86.3
30°	129.4	77.8	62.5
32.5°	107.1	57.0	43.1
35°	86.3	38.7	27.3
37.5°	66.4	23.8	13.9
40°	48.1	12.4	6.4
42.5°	32.2	5.9	3.5
45°	19.8	3.0	0.0
47.5°	11.4	0.0	0.0
50°	5.9	0.0	0.0
52.5°	2.5	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°	0.5	0.5	0.5
77.5°	0.5	1.0	1.5
80°	1.0	2.0	2.5
82.5°	2.0	2.5	2.5
85°	2.0	2.5	3.0
87.5°	2.5	3.0	3.5
90°	3.0	3.5	3.5
92.5°	3.0	4.0	4.0
95°	3.5	4.0	4.5
97.5°	4.0	4.5	4.5
100°	3.5	4.5	5.0
102.5°	3.0	4.5	4.5
105°	2.5	3.5	4.0



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CATALOG NUMBER: FCC-X-2-LD4-1HI-35-UNV-80-96-ED1D

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	2.0	2.5	2.5
115°	1.5	2.0	2.5
117.5°	1.5	2.0	2.0
120°	1.5	1.5	2.0
122.5°	1.5	1.5	2.0
125°	1.5	1.5	2.0
127.5°	2.0	1.5	1.5
130°	1.5	1.5	1.5
132.5°	2.0	1.5	1.5
135°	2.0	1.5	1.5
137.5°	2.0	1.5	1.5
140°	2.0	1.5	1.5
142.5°	2.0	1.5	1.5
145°	1.5	1.5	1.5
147.5°	1.5	1.5	1.5
150°	1.5	1.5	1.0
152.5°	1.5	1.0	1.0
155°	1.5	1.0	0.5
157.5°	2.0	1.0	0.5
160°	1.5	1.0	0.5
162.5°	1.5	1.0	0.5
165°	1.5	1.0	0.0
167.5°	1.5	1.0	0.5
170°	1.5	1.0	0.5
172.5°	1.5	1.0	0.5
175°	1.5	0.5	0.5
177.5°	1.5	0.5	0.5
180°	1.5	1.5	1.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	208.2	202.3	182.4	149.7	104.6	58.5	21.8	4.0	1.0	1.5	1.5
110°	181.5	176.5	156.2	124.4	84.3	43.6	14.4	2.5	1.5	1.5	1.5





107.5°	2.0	3.0	3.5
110°	2.0	2.5	3.0



(END OF REPORT)