

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: P550758

Luminaire Tested: **FCC-X-2-LD4-1LO-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: P550758
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-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

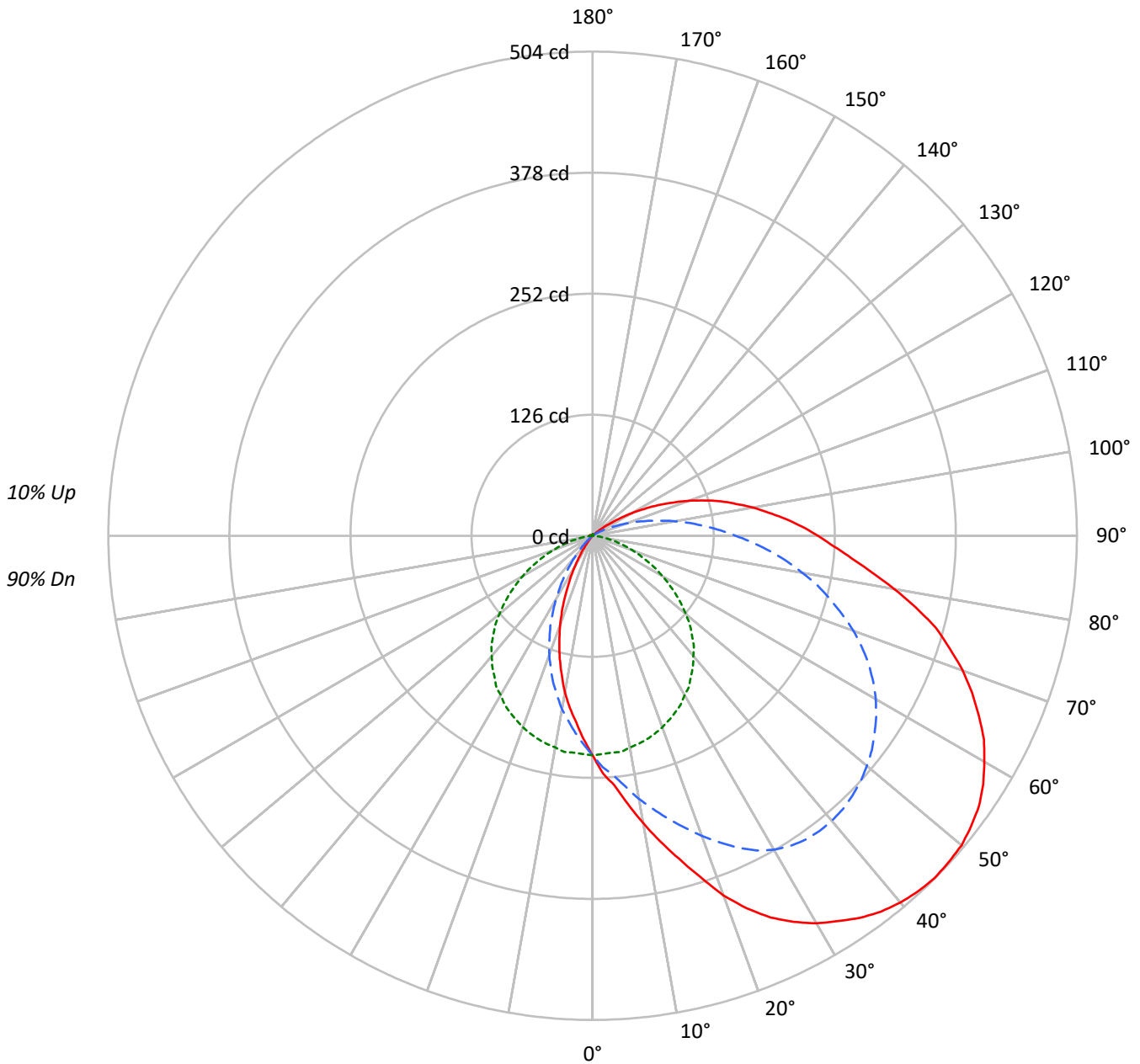
Lumens per Lamp: N/A
Luminaire Lumens: 1129.1 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

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

TEST NUMBER: P550758

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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°	2458	2458	2458
5°	2699	2422	2021
10°	3054	2392	1665
15°	3422	2362	1298
20°	3860	2324	956
25°	4222	2279	628
30°	4493	2219	354
35°	4725	2154	156
40°	4932	2075	38
45°	5111	1976	0
50°	5259	1844	0
55°	5373	1677	0
60°	5430	1483	0
65°	5452	1261	0
70°	5435	1028	0
75°	5366	760	4
80°	5149	464	24
85°	4977	224	31



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.9	1.9
10°-20°	65.5	5.8
20°-30°	106.1	9.4
30°-40°	136.3	12.1
40°-50°	154.2	13.7
50°-60°	159.8	14.2
60°-70°	150.7	13.3
70°-80°	126.3	11.2
80°-90°	91.6	8.1
90°-100°	60.2	5.3
100°-110°	34.8	3.1
110°-120°	15.4	1.4
120°-130°	4.2	0.4
130°-140°	1.0	0.1
140°-150°	0.6	0.1
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	193.4	17.1
0°-40°	329.7	29.2
0°-60°	643.7	57.0
0°-90°	1012.3	89.7
90°-120°	110.3	9.8
90°-150°	116.1	10.3
90°-180°	117.0	10.4
0°-180°	1129.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	228	228	228	228	228	
5°	261	250	227	206	195	26
15°	348	305	219	158	132	100
25°	438	358	203	104	65	203
35°	486	386	178	51	16	304
45°	504	382	146	12	0	389
55°	491	358	105	0	0	438
65°	444	317	63	0	0	439
75°	370	256	27	0	0	388
85°	271	185	4	1	2	231
90°	234	149	1	2	2	129
95°	201	116	1	2	3	158
105°	138	60	1	2	2	146
115°	75	20	1	1	2	75
125°	22	3	1	1	1	22
135°	1	1	2	1	1	2
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°	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4
2.5°	247.6	247.3	246.4	245.0	242.9	239.4	236.5	233.9	230.4	227.5	222.0
5°	260.7	259.2	258.0	256.6	251.9	248.7	243.5	237.7	232.2	226.6	215.6
7.5°	281.6	279.3	277.5	273.5	267.1	259.8	251.6	246.1	242.3	226.9	208.0
10°	304.0	302.0	298.5	291.2	283.4	272.9	261.2	248.2	236.5	223.7	201.3
12.5°	326.1	323.2	318.3	309.0	297.9	284.8	268.8	253.4	236.8	221.7	193.5
15°	348.2	345.0	339.8	328.4	313.9	296.7	277.2	257.8	238.3	219.1	185.3
17.5°	372.4	368.0	360.2	347.4	329.0	307.8	284.8	261.2	237.7	215.9	176.6
20°	398.3	392.2	383.7	366.6	345.0	320.0	292.4	264.7	237.4	212.1	166.7
22.5°	419.8	413.7	404.4	386.6	360.7	330.2	298.8	267.1	236.2	207.7	157.4
25°	438.4	433.5	423.3	402.9	375.6	341.0	304.9	268.8	234.5	203.1	147.5
27.5°	453.0	448.3	437.0	416.0	388.1	350.6	309.5	269.7	232.2	198.4	137.3
30°	465.8	461.1	447.4	425.9	396.5	358.1	314.2	270.0	229.2	191.4	126.3
32.5°	475.6	471.3	457.3	434.3	402.3	363.4	316.8	269.7	225.5	186.5	114.3
35°	485.5	481.2	464.9	440.4	406.7	365.7	318.8	268.2	220.8	178.3	103.0
37.5°	493.1	488.2	471.6	444.5	408.7	366.3	318.6	266.2	215.9	171.6	91.6
40°	498.3	493.1	475.4	446.8	409.3	365.4	316.2	262.7	210.0	163.2	79.7
42.5°	501.8	496.0	477.1	450.3	408.2	363.1	312.7	258.3	203.6	155.9	68.4
45°	503.6	497.5	477.4	447.4	406.1	358.7	307.5	252.8	196.7	146.0	57.0
47.5°	502.7	496.0	475.9	444.2	402.3	354.0	301.7	246.1	188.2	137.3	46.3
50°	501.2	494.3	472.7	440.2	397.1	348.2	295.3	238.0	179.5	126.5	36.7
52.5°	496.6	489.6	469.2	434.3	391.0	341.5	286.6	229.5	170.2	116.1	27.9
55°	490.8	484.4	463.1	429.1	383.1	333.4	278.4	220.5	161.2	105.3	20.1
57.5°	481.8	475.9	455.6	420.7	375.3	324.4	269.4	210.6	149.8	94.5	14.0
60°	470.7	464.9	445.1	411.1	366.3	314.2	259.5	200.4	139.6	83.8	8.7
62.5°	459.1	453.5	432.9	399.1	354.9	303.4	248.7	190.3	128.9	73.9	5.2
65°	443.6	438.4	419.8	384.9	342.4	291.8	236.8	178.0	117.8	62.8	2.9
67.5°	427.4	422.7	403.8	371.8	327.9	279.0	224.6	166.1	106.2	53.2	1.5
70°	409.9	404.1	386.6	354.0	313.0	264.4	211.2	153.9	95.1	43.9	0.0
72.5°	389.5	385.2	368.3	337.5	295.9	249.0	197.5	140.5	82.9	34.9	0.3
75°	369.8	364.2	348.8	319.7	279.0	232.7	182.4	128.0	71.0	26.8	0.3
77.5°	344.2	342.4	327.9	299.6	263.0	217.0	165.8	112.9	59.6	19.2	0.3
80°	318.6	316.8	305.5	279.6	244.4	198.4	150.4	98.6	48.6	12.8	0.3
82.5°	293.2	290.9	280.2	258.6	225.5	182.7	134.4	84.4	38.4	7.9	0.3
85°	270.6	267.6	256.0	236.2	206.0	164.9	117.8	70.4	28.5	4.4	0.6
87.5°	251.1	249.0	236.2	215.9	186.2	148.4	103.3	57.0	20.1	2.0	0.9
90°	234.5	230.1	218.8	197.2	167.6	130.0	87.9	45.7	13.4	1.2	1.2
92.5°	218.2	214.4	201.9	179.8	151.0	114.3	73.0	34.9	8.4	0.6	1.5
95°	201.3	197.2	185.0	164.7	134.1	98.3	59.9	25.6	4.7	0.6	1.5
97.5°	184.7	181.0	168.1	147.8	119.0	84.4	47.4	18.0	2.3	0.6	1.2
100°	169.3	164.9	153.3	132.9	103.9	70.4	36.7	11.6	1.5	0.6	1.2
102.5°	153.0	149.5	137.6	117.8	88.1	57.3	27.3	7.3	0.6	0.6	0.9
105°	138.5	134.1	122.5	102.1	75.1	45.1	19.2	4.4	0.6	0.6	0.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	90.2	86.7	76.5	59.3	38.1	17.7	5.2	0.9	0.9	0.9	0.9
115°	75.3	70.1	61.1	46.0	28.2	11.6	2.6	0.9	0.9	0.9	0.9
117.5°	60.2	55.9	49.5	34.9	18.6	7.6	1.5	0.9	0.9	0.9	0.9
120°	47.1	43.1	35.8	24.1	12.5	4.4	0.6	0.9	0.9	0.9	0.9
122.5°	33.7	30.5	24.1	15.7	7.6	2.0	0.9	0.9	1.2	1.2	0.9
125°	22.4	20.7	16.0	9.6	4.7	0.9	0.9	0.9	1.2	1.2	0.9
127.5°	14.5	13.1	9.3	5.5	2.0	0.9	0.9	1.2	1.2	1.2	0.9
130°	8.1	7.3	5.5	3.2	0.9	0.9	0.9	1.2	1.2	1.2	0.9
132.5°	4.7	4.4	2.9	0.6	0.9	0.9	0.9	1.2	1.2	1.2	1.2
135°	1.2	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.5	1.5	1.2
137.5°	0.3	0.3	0.6	0.6	0.9	0.9	1.2	1.5	1.5	1.5	1.2
140°	0.3	0.3	0.6	0.9	0.9	0.9	1.2	1.5	1.5	1.5	1.2
142.5°	0.3	0.6	0.6	0.9	0.9	1.2	1.2	1.5	1.5	1.2	1.2
145°	0.3	0.6	0.6	0.9	0.9	1.2	1.2	1.5	1.2	1.2	1.2
147.5°	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.5	1.5	1.2	1.2
150°	0.3	0.6	0.6	0.9	1.2	1.2	1.2	1.5	1.2	1.2	1.2
152.5°	0.3	0.6	0.6	0.9	1.2	1.2	1.2	1.5	1.2	1.2	1.2
155°	0.6	0.6	0.6	0.9	1.2	1.2	1.2	1.5	1.2	1.2	1.5
157.5°	0.6	0.6	0.6	0.9	1.2	1.2	1.2	1.5	1.2	1.2	1.5
160°	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.2	1.2	1.2	1.2
162.5°	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.2	1.2	1.2	1.2
165°	0.6	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.2	1.2	1.2
167.5°	0.6	0.6	0.6	0.9	0.9	0.9	1.2	1.2	1.2	1.2	1.2
170°	0.6	0.6	0.6	0.9	0.9	0.9	1.2	1.5	1.5	1.5	1.5
172.5°	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.5	1.5	1.5	1.5
175°	0.6	0.6	0.6	0.9	0.9	1.2	1.2	1.5	1.5	1.5	1.5
177.5°	0.3	0.6	0.6	0.9	0.9	1.2	1.2	1.5	1.5	1.5	1.2
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	228.4	228.4	228.4
2.5°	217.3	213.2	212.1
5°	205.7	199.0	195.2
7.5°	194.0	185.0	180.7
10°	183.3	170.5	165.8
12.5°	170.5	155.6	148.4
15°	158.3	139.1	132.1
17.5°	144.6	123.1	114.9
20°	131.8	107.1	98.6
22.5°	117.2	91.3	82.0
25°	104.1	75.6	65.2
27.5°	89.6	59.6	50.6
30°	75.9	45.7	36.7
32.5°	62.8	33.5	25.3
35°	50.6	22.7	16.0
37.5°	39.0	14.0	8.1
40°	28.2	7.3	3.8
42.5°	18.9	3.5	2.0
45°	11.6	1.7	0.0
47.5°	6.7	0.0	0.0
50°	3.5	0.0	0.0
52.5°	1.5	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°	0.3	0.3	0.3
77.5°	0.3	0.6	0.9
80°	0.6	1.2	1.5
82.5°	1.2	1.5	1.5
85°	1.2	1.5	1.7
87.5°	1.5	1.7	2.0
90°	1.7	2.0	2.0
92.5°	1.7	2.3	2.3
95°	2.0	2.3	2.6
97.5°	2.3	2.6	2.6
100°	2.0	2.6	2.9
102.5°	1.7	2.6	2.6
105°	1.5	2.0	2.3



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	1.2	1.5	1.5
115°	0.9	1.2	1.5
117.5°	0.9	1.2	1.2
120°	0.9	0.9	1.2
122.5°	0.9	0.9	1.2
125°	0.9	0.9	1.2
127.5°	1.2	0.9	0.9
130°	0.9	0.9	0.9
132.5°	1.2	0.9	0.9
135°	1.2	0.9	0.9
137.5°	1.2	0.9	0.9
140°	1.2	0.9	0.9
142.5°	1.2	0.9	0.9
145°	0.9	0.9	0.9
147.5°	0.9	0.9	0.9
150°	0.9	0.9	0.6
152.5°	0.9	0.6	0.6
155°	0.9	0.6	0.3
157.5°	1.2	0.6	0.3
160°	0.9	0.6	0.3
162.5°	0.9	0.6	0.3
165°	0.9	0.6	0.0
167.5°	0.9	0.6	0.3
170°	0.9	0.6	0.3
172.5°	0.9	0.6	0.3
175°	0.9	0.3	0.3
177.5°	0.9	0.3	0.3
180°	0.9	0.9	0.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	122.2	118.7	107.1	87.9	61.4	34.3	12.8	2.3	0.6	0.9	0.9
110°	106.5	103.6	91.6	73.0	49.5	25.6	8.4	1.5	0.9	0.9	0.9





107.5°	1.2	1.7	2.0
110°	1.2	1.5	1.7



(END OF REPORT)