

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: P550752

Luminaire Tested: **FCC-X-2-LD4-1LO-35-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: P550752
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-80-88-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

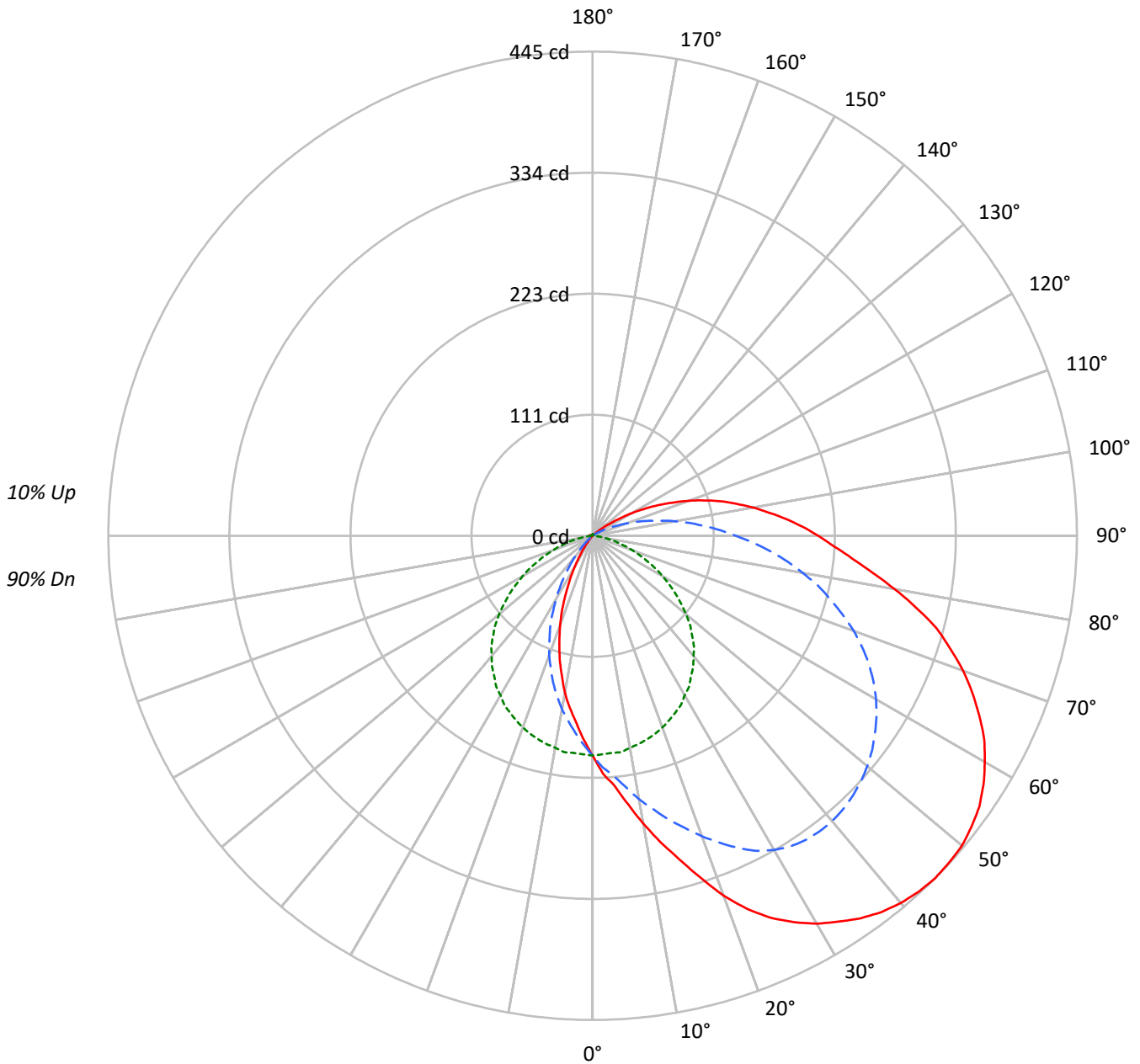
Lumens per Lamp: N/A
Luminaire Lumens: 998.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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°	2173	2173	2173
5°	2385	2141	1787
10°	2699	2115	1473
15°	3025	2087	1148
20°	3412	2054	845
25°	3732	2014	555
30°	3971	1961	312
35°	4177	1904	137
40°	4360	1835	33
45°	4517	1747	0
50°	4649	1631	0
55°	4749	1482	0
60°	4800	1311	0
65°	4820	1115	0
70°	4803	909	0
75°	4744	672	4
80°	4551	410	21
85°	4399	198	28



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.3	1.9
10°-20°	57.9	5.8
20°-30°	93.8	9.4
30°-40°	120.4	12.1
40°-50°	136.3	13.7
50°-60°	141.2	14.2
60°-70°	133.2	13.3
70°-80°	111.6	11.2
80°-90°	80.9	8.1
90°-100°	53.2	5.3
100°-110°	30.7	3.1
110°-120°	13.6	1.4
120°-130°	3.7	0.4
130°-140°	0.8	0.1
140°-150°	0.6	0.1
150°-160°	0.4	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	171.0	17.1
0°-40°	291.4	29.2
0°-60°	569.0	57.0
0°-90°	894.8	89.7
90°-120°	97.5	9.8
90°-150°	102.5	10.3
90°-180°	103.0	10.3
0°-180°	998.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	202	202	202	202	202	
5°	230	221	200	182	173	23
15°	308	270	194	140	117	89
25°	388	317	180	92	58	179
35°	429	341	158	45	14	269
45°	445	338	129	10	0	344
55°	434	317	93	0	0	387
65°	392	280	56	0	0	388
75°	327	226	24	0	0	343
85°	239	164	4	1	2	204
90°	207	132	1	2	2	114
95°	178	103	0	2	2	140
105°	122	53	0	1	2	129
115°	67	18	1	1	1	67
125°	20	2	1	1	1	20
135°	1	1	1	1	1	2
145°	0	1	1	1	1	0
155°	0	1	1	1	0	0
165°	0	1	1	1	0	0
175°	0	1	1	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°	201.9	201.9	201.9	201.9	201.9	201.9	201.9	201.9	201.9	201.9	201.9
2.5°	218.8	218.6	217.8	216.5	214.7	211.6	209.1	206.8	203.7	201.1	196.2
5°	230.4	229.1	228.1	226.8	222.7	219.9	215.2	210.1	205.2	200.3	190.6
7.5°	248.9	246.9	245.3	241.7	236.1	229.6	222.4	217.6	214.2	200.6	183.9
10°	268.7	266.9	263.8	257.4	250.5	241.2	230.9	219.4	209.1	197.8	178.0
12.5°	288.3	285.7	281.3	273.1	263.3	251.8	237.6	224.0	209.3	196.0	171.0
15°	307.8	305.0	300.4	290.3	277.5	262.3	245.1	227.8	210.6	193.6	163.8
17.5°	329.2	325.3	318.4	307.1	290.8	272.1	251.8	230.9	210.1	190.8	156.1
20°	352.1	346.7	339.2	324.0	305.0	282.9	258.4	234.0	209.8	187.5	147.4
22.5°	371.1	365.7	357.5	341.8	318.9	291.9	264.1	236.1	208.8	183.6	139.1
25°	387.5	383.2	374.2	356.2	332.0	301.4	269.5	237.6	207.3	179.5	130.4
27.5°	400.4	396.3	386.3	367.7	343.1	309.9	273.6	238.4	205.2	175.4	121.4
30°	411.7	407.6	395.5	376.5	350.5	316.6	277.7	238.6	202.6	169.2	111.6
32.5°	420.5	416.6	404.3	383.9	355.7	321.2	280.0	238.4	199.3	164.8	101.1
35°	429.2	425.3	410.9	389.3	359.5	323.3	281.8	237.1	195.2	157.6	91.0
37.5°	435.9	431.5	416.9	392.9	361.3	323.8	281.6	235.3	190.8	151.7	81.0
40°	440.5	435.9	420.2	395.0	361.8	323.0	279.5	232.2	185.7	144.3	70.5
42.5°	443.6	438.5	421.7	398.1	360.8	320.9	276.4	228.4	180.0	137.8	60.4
45°	445.1	439.7	422.0	395.5	359.0	317.1	271.8	223.5	173.8	129.1	50.4
47.5°	444.4	438.5	420.7	392.7	355.7	313.0	266.7	217.6	166.4	121.4	40.9
50°	443.1	436.9	417.9	389.1	351.0	307.8	261.0	210.4	158.7	111.9	32.4
52.5°	439.0	432.8	414.8	383.9	345.6	301.9	253.3	202.9	150.4	102.6	24.7
55°	433.8	428.2	409.4	379.3	338.7	294.7	246.1	194.9	142.5	93.1	17.7
57.5°	425.9	420.7	402.7	371.9	331.7	286.7	238.1	186.2	132.4	83.6	12.3
60°	416.1	410.9	393.5	363.4	323.8	277.7	229.4	177.2	123.4	74.1	7.7
62.5°	405.8	400.9	382.7	352.8	313.7	268.2	219.9	168.2	113.9	65.3	4.6
65°	392.2	387.5	371.1	340.2	302.7	257.9	209.3	157.4	104.2	55.5	2.6
67.5°	377.8	373.7	356.9	328.7	289.8	246.6	198.5	146.8	93.9	47.1	1.3
70°	362.3	357.2	341.8	313.0	276.7	233.8	186.7	136.0	84.1	38.8	0.0
72.5°	344.3	340.5	325.6	298.3	261.5	220.1	174.6	124.2	73.3	30.9	0.3
75°	326.9	322.0	308.3	282.6	246.6	205.7	161.2	113.2	62.7	23.7	0.3
77.5°	304.2	302.7	289.8	264.9	232.5	191.8	146.6	99.8	52.7	17.0	0.3
80°	281.6	280.0	270.0	247.1	216.0	175.4	133.0	87.2	42.9	11.3	0.3
82.5°	259.2	257.2	247.6	228.6	199.3	161.5	118.8	74.6	33.9	6.9	0.3
85°	239.2	236.6	226.3	208.8	182.1	145.8	104.2	62.2	25.2	3.9	0.5
87.5°	221.9	220.1	208.8	190.8	164.6	131.2	91.3	50.4	17.7	1.8	0.8
90°	207.3	203.4	193.4	174.4	148.1	115.0	77.7	40.4	11.8	1.0	1.0
92.5°	192.9	189.5	178.5	158.9	133.5	101.1	64.5	30.9	7.5	0.5	1.3
95°	178.0	174.4	163.6	145.6	118.6	86.9	53.0	22.6	4.1	0.5	1.3
97.5°	163.3	160.0	148.6	130.6	105.2	74.6	41.9	15.9	2.1	0.5	1.0
100°	149.7	145.8	135.5	117.5	91.8	62.2	32.4	10.3	1.3	0.5	1.0
102.5°	135.3	132.2	121.6	104.2	77.9	50.7	24.2	6.4	0.5	0.5	0.8
105°	122.4	118.6	108.3	90.3	66.3	39.9	17.0	3.9	0.5	0.5	0.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	79.7	76.6	67.6	52.5	33.7	15.7	4.6	0.8	0.8	0.8	0.8
115°	66.6	62.0	54.0	40.6	24.9	10.3	2.3	0.8	0.8	0.8	0.8
117.5°	53.2	49.4	43.7	30.9	16.5	6.7	1.3	0.8	0.8	0.8	0.8
120°	41.7	38.1	31.6	21.3	11.1	3.9	0.5	0.8	0.8	0.8	0.8
122.5°	29.8	27.0	21.3	13.9	6.7	1.8	0.8	0.8	1.0	1.0	0.8
125°	19.8	18.3	14.1	8.5	4.1	0.8	0.8	0.8	1.0	1.0	0.8
127.5°	12.9	11.6	8.2	4.9	1.8	0.8	0.8	1.0	1.0	1.0	0.8
130°	7.2	6.4	4.9	2.8	0.8	0.8	0.8	1.0	1.0	1.0	0.8
132.5°	4.1	3.9	2.6	0.5	0.8	0.8	0.8	1.0	1.0	1.0	1.0
135°	1.0	0.5	0.5	0.5	0.8	0.8	1.0	1.0	1.3	1.3	1.0
137.5°	0.3	0.3	0.5	0.5	0.8	0.8	1.0	1.3	1.3	1.3	1.0
140°	0.3	0.3	0.5	0.8	0.8	0.8	1.0	1.3	1.3	1.3	1.0
142.5°	0.3	0.5	0.5	0.8	0.8	1.0	1.0	1.3	1.3	1.0	1.0
145°	0.3	0.5	0.5	0.8	0.8	1.0	1.0	1.3	1.0	1.0	1.0
147.5°	0.5	0.5	0.5	0.8	0.8	1.0	1.0	1.3	1.3	1.0	1.0
150°	0.3	0.5	0.5	0.8	1.0	1.0	1.0	1.3	1.0	1.0	1.0
152.5°	0.3	0.5	0.5	0.8	1.0	1.0	1.0	1.3	1.0	1.0	1.0
155°	0.5	0.5	0.5	0.8	1.0	1.0	1.0	1.3	1.0	1.0	1.3
157.5°	0.5	0.5	0.5	0.8	1.0	1.0	1.0	1.3	1.0	1.0	1.3
160°	0.5	0.5	0.5	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0
162.5°	0.5	0.5	0.5	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0
165°	0.5	0.5	0.5	0.5	0.8	0.8	1.0	1.0	1.0	1.0	1.0
167.5°	0.5	0.5	0.5	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.0
170°	0.5	0.5	0.5	0.8	0.8	0.8	1.0	1.3	1.3	1.3	1.3
172.5°	0.5	0.5	0.5	0.8	0.8	1.0	1.0	1.3	1.3	1.3	1.3
175°	0.5	0.5	0.5	0.8	0.8	1.0	1.0	1.3	1.3	1.3	1.3
177.5°	0.3	0.5	0.5	0.8	0.8	1.0	1.0	1.3	1.3	1.3	1.0
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	201.9	201.9	201.9
2.5°	192.1	188.5	187.5
5°	181.8	175.9	172.6
7.5°	171.5	163.6	159.7
10°	162.0	150.7	146.6
12.5°	150.7	137.6	131.2
15°	139.9	122.9	116.8
17.5°	127.8	108.8	101.6
20°	116.5	94.6	87.2
22.5°	103.6	80.7	72.5
25°	92.1	66.9	57.6
27.5°	79.2	52.7	44.7
30°	67.1	40.4	32.4
32.5°	55.5	29.6	22.4
35°	44.7	20.1	14.1
37.5°	34.5	12.3	7.2
40°	24.9	6.4	3.3
42.5°	16.7	3.1	1.8
45°	10.3	1.5	0.0
47.5°	5.9	0.0	0.0
50°	3.1	0.0	0.0
52.5°	1.3	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	0.5	0.8
80°	0.5	1.0	1.3
82.5°	1.0	1.3	1.3
85°	1.0	1.3	1.5
87.5°	1.3	1.5	1.8
90°	1.5	1.8	1.8
92.5°	1.5	2.1	2.1
95°	1.8	2.1	2.3
97.5°	2.1	2.3	2.3
100°	1.8	2.3	2.6
102.5°	1.5	2.3	2.3
105°	1.3	1.8	2.1



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	1.0	1.3	1.3
115°	0.8	1.0	1.3
117.5°	0.8	1.0	1.0
120°	0.8	0.8	1.0
122.5°	0.8	0.8	1.0
125°	0.8	0.8	1.0
127.5°	1.0	0.8	0.8
130°	0.8	0.8	0.8
132.5°	1.0	0.8	0.8
135°	1.0	0.8	0.8
137.5°	1.0	0.8	0.8
140°	1.0	0.8	0.8
142.5°	1.0	0.8	0.8
145°	0.8	0.8	0.8
147.5°	0.8	0.8	0.8
150°	0.8	0.8	0.5
152.5°	0.8	0.5	0.5
155°	0.8	0.5	0.3
157.5°	1.0	0.5	0.3
160°	0.8	0.5	0.3
162.5°	0.8	0.5	0.3
165°	0.8	0.5	0.0
167.5°	0.8	0.5	0.3
170°	0.8	0.5	0.3
172.5°	0.8	0.5	0.3
175°	0.8	0.3	0.3
177.5°	0.8	0.3	0.3
180°	0.8	0.8	0.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	108.0	104.9	94.6	77.7	54.3	30.3	11.3	2.1	0.5	0.8	0.8
110°	94.1	91.5	81.0	64.5	43.7	22.6	7.5	1.3	0.8	0.8	0.8





107.5°	1.0	1.5	1.8
110°	1.0	1.3	1.5



(END OF REPORT)