

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: P550878

Luminaire Tested: **FCC-X-2-LD4-1LO-50-UNV-80-87-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: P550878
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-50-UNV-80-87-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 5000K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

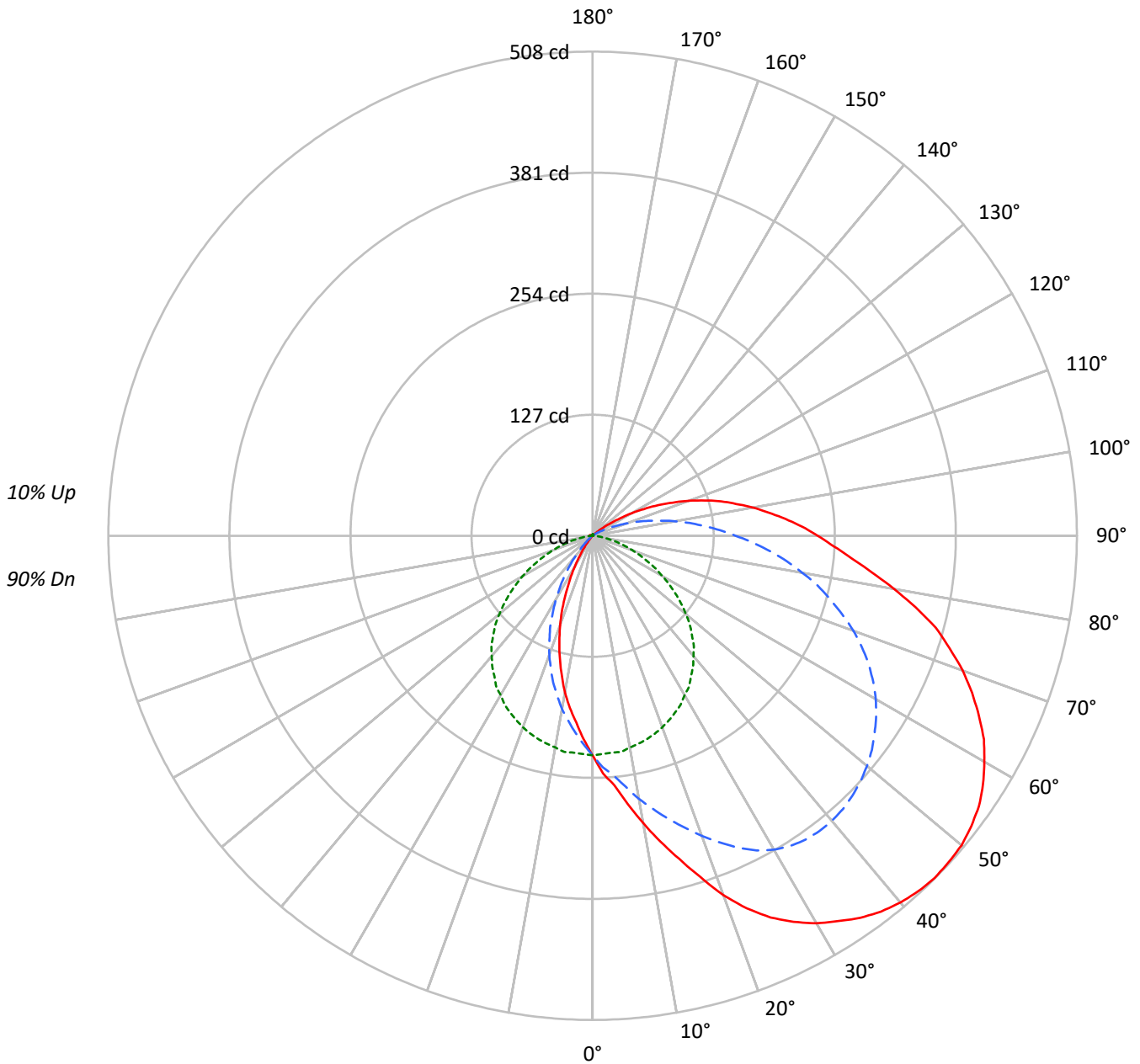
Lumens per Lamp: N/A
Luminaire Lumens: 1138.1 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

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°	2478	2478	2478
5°	2720	2441	2037
10°	3078	2412	1678
15°	3449	2381	1308
20°	3890	2342	963
25°	4256	2297	633
30°	4528	2236	356
35°	4763	2172	157
40°	4972	2092	38
45°	5151	1992	0
50°	5301	1860	0
55°	5416	1691	0
60°	5474	1495	0
65°	5496	1271	0
70°	5478	1038	0
75°	5408	766	4
80°	5189	468	24
85°	5015	224	33



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.0	1.9
10°-20°	66.0	5.8
20°-30°	106.9	9.4
30°-40°	137.3	12.1
40°-50°	155.5	13.7
50°-60°	161.1	14.2
60°-70°	151.9	13.3
70°-80°	127.3	11.2
80°-90°	92.3	8.1
90°-100°	60.6	5.3
100°-110°	35.0	3.1
110°-120°	15.5	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°	195.0	17.1
0°-40°	332.3	29.2
0°-60°	648.8	57.0
0°-90°	1020.3	89.7
90°-120°	111.2	9.8
90°-150°	117.0	10.3
90°-180°	118.0	10.4
0°-180°	1138.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	230	230	230	230	230	
5°	263	252	228	207	197	26
15°	351	308	221	160	133	101
25°	442	361	205	105	66	204
35°	489	389	180	51	16	307
45°	508	386	147	12	0	392
55°	495	361	106	0	0	442
65°	447	320	63	0	0	442
75°	373	258	27	0	0	391
85°	273	187	4	1	2	233
90°	236	150	1	2	2	130
95°	203	117	1	2	3	159
105°	140	61	1	2	2	147
115°	76	20	1	1	2	76
125°	23	3	1	1	1	23
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°	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2
2.5°	249.5	249.3	248.4	246.9	244.9	241.3	238.4	235.8	232.2	229.3	223.7
5°	262.7	261.3	260.1	258.6	253.9	250.7	245.4	239.6	234.0	228.4	217.3
7.5°	283.9	281.5	279.7	275.6	269.2	261.9	253.6	248.1	244.3	228.7	209.7
10°	306.4	304.4	300.9	293.5	285.6	275.1	263.3	250.1	238.4	225.5	202.9
12.5°	328.7	325.8	320.8	311.4	300.3	287.1	270.9	255.4	238.7	223.4	195.0
15°	351.0	347.8	342.5	331.1	316.4	299.1	279.5	259.8	240.2	220.8	186.8
17.5°	375.3	370.9	363.0	350.1	331.6	310.2	287.1	263.3	239.6	217.6	178.0
20°	401.4	395.3	386.8	369.5	347.8	322.6	294.7	266.8	239.3	213.8	168.0
22.5°	423.1	417.0	407.6	389.7	363.6	332.8	301.2	269.2	238.1	209.4	158.6
25°	441.9	436.9	426.7	406.1	378.6	343.7	307.3	270.9	236.3	204.7	148.7
27.5°	456.6	451.9	440.4	419.3	391.2	353.3	312.0	271.8	234.0	200.0	138.4
30°	469.5	464.8	451.0	429.3	399.7	361.0	316.7	272.1	231.1	192.9	127.3
32.5°	479.4	475.0	461.0	437.8	405.5	366.3	319.3	271.8	227.3	188.0	115.2
35°	489.4	485.0	468.6	444.0	409.9	368.6	321.4	270.4	222.6	179.8	103.8
37.5°	497.0	492.0	475.3	448.1	412.0	369.2	321.1	268.3	217.6	173.0	92.4
40°	502.3	497.0	479.1	450.4	412.6	368.3	318.7	264.8	211.7	164.5	80.3
42.5°	505.8	500.0	480.9	453.9	411.4	366.0	315.2	260.4	205.3	157.2	68.9
45°	507.6	501.4	481.2	451.0	409.4	361.6	310.0	254.8	198.2	147.2	57.5
47.5°	506.7	500.0	479.7	447.8	405.5	356.9	304.1	248.1	189.7	138.4	46.6
50°	505.2	498.2	476.5	443.7	400.3	351.0	297.6	239.9	180.9	127.6	36.9
52.5°	500.6	493.5	473.0	437.8	394.1	344.3	288.8	231.4	171.5	117.0	28.2
55°	494.7	488.2	466.8	432.5	386.2	336.0	280.6	222.3	162.5	106.2	20.2
57.5°	485.6	479.7	459.2	424.0	378.3	327.0	271.5	212.3	151.0	95.3	14.1
60°	474.5	468.6	448.7	414.3	369.2	316.7	261.6	202.0	140.8	84.5	8.8
62.5°	462.7	457.2	436.3	402.3	357.7	305.8	250.7	191.8	129.9	74.5	5.3
65°	447.2	441.9	423.1	388.0	345.1	294.1	238.7	179.5	118.8	63.3	2.9
67.5°	430.8	426.1	407.0	374.8	330.5	281.2	226.4	167.4	107.0	53.7	1.5
70°	413.2	407.3	389.7	356.9	315.5	266.6	212.9	155.1	95.9	44.3	0.0
72.5°	392.6	388.2	371.2	340.2	298.2	251.0	199.1	141.6	83.6	35.2	0.3
75°	372.7	367.1	351.6	322.3	281.2	234.6	183.9	129.0	71.5	27.0	0.3
77.5°	346.9	345.1	330.5	302.0	265.1	218.8	167.1	113.8	60.1	19.4	0.3
80°	321.1	319.3	307.9	281.8	246.3	200.0	151.6	99.4	49.0	12.9	0.3
82.5°	295.6	293.2	282.4	260.7	227.3	184.2	135.5	85.0	38.7	7.9	0.3
85°	272.7	269.8	258.0	238.1	207.6	166.3	118.8	71.0	28.7	4.4	0.6
87.5°	253.1	251.0	238.1	217.6	187.7	149.6	104.1	57.5	20.2	2.1	0.9
90°	236.3	231.9	220.5	198.8	168.9	131.1	88.6	46.0	13.5	1.2	1.2
92.5°	219.9	216.1	203.5	181.2	152.2	115.2	73.6	35.2	8.5	0.6	1.5
95°	202.9	198.8	186.5	166.0	135.2	99.1	60.4	25.8	4.7	0.6	1.5
97.5°	186.2	182.4	169.5	149.0	119.9	85.0	47.8	18.2	2.3	0.6	1.2
100°	170.7	166.3	154.5	134.0	104.7	71.0	36.9	11.7	1.5	0.6	1.2
102.5°	154.2	150.7	138.7	118.8	88.9	57.8	27.6	7.3	0.6	0.6	0.9
105°	139.6	135.2	123.5	102.9	75.7	45.5	19.4	4.4	0.6	0.6	0.9



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CATALOG NUMBER: FCC-X-2-LD4-1LO-50-UNV-80-87-ED1D

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	90.9	87.4	77.1	59.8	38.4	17.9	5.3	0.9	0.9	0.9	0.9
115°	75.9	70.7	61.6	46.3	28.4	11.7	2.6	0.9	0.9	0.9	0.9
117.5°	60.7	56.3	49.9	35.2	18.8	7.6	1.5	0.9	0.9	0.9	0.9
120°	47.5	43.4	36.1	24.3	12.6	4.4	0.6	0.9	0.9	0.9	0.9
122.5°	34.0	30.8	24.3	15.8	7.6	2.1	0.9	0.9	1.2	1.2	0.9
125°	22.6	20.8	16.1	9.7	4.7	0.9	0.9	0.9	1.2	1.2	0.9
127.5°	14.7	13.2	9.4	5.6	2.1	0.9	0.9	1.2	1.2	1.2	0.9
130°	8.2	7.3	5.6	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°	230.2	230.2	230.2
2.5°	219.0	214.9	213.8
5°	207.3	200.6	196.8
7.5°	195.6	186.5	182.1
10°	184.7	171.8	167.1
12.5°	171.8	156.9	149.6
15°	159.5	140.2	133.1
17.5°	145.7	124.0	115.8
20°	132.8	107.9	99.4
22.5°	118.2	92.1	82.7
25°	105.0	76.2	65.7
27.5°	90.3	60.1	51.0
30°	76.5	46.0	36.9
32.5°	63.3	33.7	25.5
35°	51.0	22.9	16.1
37.5°	39.3	14.1	8.2
40°	28.4	7.3	3.8
42.5°	19.1	3.5	2.1
45°	11.7	1.8	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	1.8
87.5°	1.5	1.8	2.1
90°	1.8	2.1	2.1
92.5°	1.8	2.3	2.3
95°	2.1	2.3	2.6
97.5°	2.3	2.6	2.6
100°	2.1	2.6	2.9
102.5°	1.8	2.6	2.6
105°	1.5	2.1	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°	123.2	119.6	107.9	88.6	61.9	34.6	12.9	2.3	0.6	0.9	0.9
110°	107.3	104.4	92.4	73.6	49.9	25.8	8.5	1.5	0.9	0.9	0.9





107.5°	1.2	1.8	2.1
110°	1.2	1.5	1.8



(END OF REPORT)