

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: P551130

Luminaire Tested: **FCC-X-2-LD4-1STD-50-UNV-80-85-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: P551130
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-LD4-1STD-50-UNV-80-85-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 5000K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

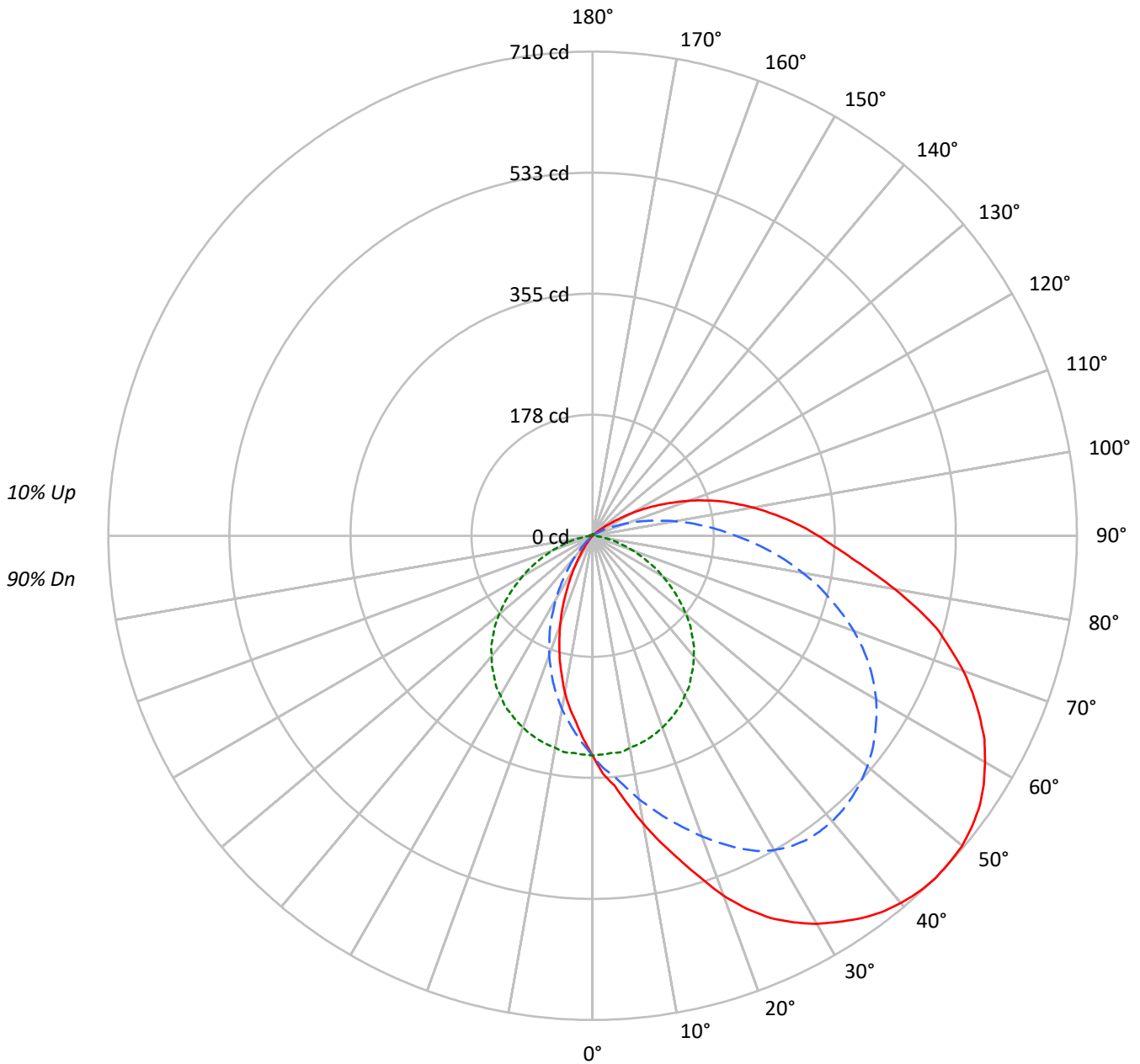
Lumens per Lamp: N/A
Luminaire Lumens: 1592.9 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 16.7
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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CATALOG NUMBER: FCC-X-2-LD4-1STD-50-UNV-80-85-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°	3468	3468	3468
5°	3808	3418	2851
10°	4309	3376	2350
15°	4828	3333	1832
20°	5445	3278	1349
25°	5958	3215	885
30°	6339	3131	499
35°	6668	3040	220
40°	6960	2929	52
45°	7210	2789	0
50°	7422	2603	0
55°	7582	2366	0
60°	7663	2092	0
65°	7694	1782	0
70°	7669	1452	0
75°	7570	1072	6
80°	7264	657	34
85°	7020	315	46



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	1.9
10°-20°	92.4	5.8
20°-30°	149.7	9.4
30°-40°	192.2	12.1
40°-50°	217.6	13.7
50°-60°	225.5	14.2
60°-70°	212.6	13.3
70°-80°	178.2	11.2
80°-90°	129.2	8.1
90°-100°	84.9	5.3
100°-110°	49.0	3.1
110°-120°	21.6	1.4
120°-130°	5.8	0.4
130°-140°	1.3	0.1
140°-150°	0.9	0.1
150°-160°	0.6	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	272.9	17.1
0°-40°	465.2	29.2
0°-60°	908.3	57.0
0°-90°	1428.3	89.7
90°-120°	155.5	9.8
90°-150°	163.6	10.3
90°-180°	165.0	10.4
0°-180°	1592.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	322	322	322	322	322	
5°	368	353	320	290	275	37
15°	491	431	309	223	186	142
25°	619	506	286	147	92	286
35°	685	545	252	71	23	430
45°	710	540	206	16	0	549
55°	692	506	149	0	0	618
65°	626	447	89	0	0	619
75°	522	361	38	0	0	547
85°	382	262	6	2	2	326
90°	331	210	2	2	3	181
95°	284	164	1	3	4	223
105°	195	85	1	2	3	206
115°	106	28	1	1	2	106
125°	32	4	2	1	2	32
135°	2	1	2	2	1	3
145°	0	1	2	1	1	0
155°	1	2	2	1	0	0
165°	1	1	2	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°	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2
2.5°	349.3	348.9	347.7	345.6	342.7	337.8	333.7	330.0	325.1	321.0	313.2
5°	367.8	365.7	364.1	362.0	355.5	351.0	343.6	335.4	327.6	319.8	304.2
7.5°	397.3	394.1	391.6	385.8	376.8	366.6	355.1	347.3	341.9	320.2	293.5
10°	429.0	426.1	421.2	410.9	399.8	385.0	368.6	350.1	333.7	315.7	284.1
12.5°	460.1	456.0	449.1	435.9	420.3	401.9	379.3	357.5	334.1	312.8	273.0
15°	491.3	486.8	479.4	463.4	442.9	418.7	391.2	363.7	336.2	309.1	261.5
17.5°	525.4	519.3	508.2	490.1	464.3	434.3	401.9	368.6	335.4	304.6	249.2
20°	561.9	553.3	541.4	517.2	486.8	451.5	412.5	373.5	335.0	299.2	235.2
22.5°	592.3	583.7	570.6	545.5	509.0	465.9	421.6	376.8	333.3	293.1	222.1
25°	618.6	611.6	597.2	568.5	529.9	481.1	430.2	379.3	330.8	286.5	208.1
27.5°	639.1	632.5	616.5	587.0	547.6	494.6	436.7	380.5	327.6	279.9	193.7
30°	657.2	650.6	631.3	600.9	559.5	505.3	443.3	380.9	323.5	270.1	178.1
32.5°	671.1	665.0	645.3	612.8	567.7	512.7	447.0	380.5	318.1	263.1	161.3
35°	685.1	678.9	655.9	621.5	573.8	516.0	449.9	378.5	311.6	251.6	145.3
37.5°	695.8	688.8	665.4	627.2	576.7	516.8	449.5	375.6	304.6	242.2	129.3
40°	703.1	695.8	670.7	630.5	577.5	515.6	446.2	370.7	296.4	230.3	112.5
42.5°	708.1	699.9	673.2	635.4	575.9	512.3	441.3	364.5	287.3	220.0	96.5
45°	710.5	701.9	673.6	631.3	573.0	506.1	433.9	356.7	277.5	206.1	80.5
47.5°	709.3	699.9	671.5	626.8	567.7	499.6	425.7	347.3	265.6	193.7	65.3
50°	707.3	697.4	667.0	621.1	560.3	491.3	416.6	335.8	253.3	178.6	51.7
52.5°	700.7	690.8	662.1	612.8	551.7	481.9	404.3	323.9	240.1	163.8	39.4
55°	692.5	683.4	653.5	605.5	540.6	470.4	392.8	311.1	227.4	148.6	28.3
57.5°	679.8	671.5	642.8	593.6	529.5	457.7	380.1	297.2	211.4	133.4	19.7
60°	664.2	655.9	628.0	580.0	516.8	443.3	366.1	282.8	197.0	118.2	12.3
62.5°	647.7	639.9	610.8	563.2	500.8	428.1	351.0	268.5	181.8	104.3	7.4
65°	626.0	618.6	592.3	543.1	483.1	411.7	334.1	251.2	166.2	88.7	4.1
67.5°	603.0	596.4	569.7	524.6	462.6	393.6	316.9	234.4	149.8	75.1	2.1
70°	578.4	570.2	545.5	499.6	441.7	373.1	298.0	217.1	134.2	62.0	0.0
72.5°	549.6	543.5	519.7	476.2	417.5	351.4	278.7	198.3	117.0	49.3	0.4
75°	521.7	513.9	492.2	451.1	393.6	328.4	257.4	180.6	100.2	37.8	0.4
77.5°	485.6	483.1	462.6	422.8	371.1	306.2	234.0	159.3	84.1	27.1	0.4
80°	449.5	447.0	431.0	394.5	344.8	279.9	212.2	139.2	68.5	18.1	0.4
82.5°	413.8	410.5	395.3	364.9	318.1	257.8	189.6	119.0	54.2	11.1	0.4
85°	381.7	377.6	361.2	333.3	290.6	232.7	166.2	99.3	40.2	6.2	0.8
87.5°	354.2	351.4	333.3	304.6	262.7	209.3	145.7	80.5	28.3	2.9	1.2
90°	330.8	324.7	308.7	278.3	236.4	183.5	124.0	64.4	18.9	1.6	1.6
92.5°	307.9	302.5	284.9	253.7	213.0	161.3	103.0	49.3	11.9	0.8	2.1
95°	284.1	278.3	261.1	232.3	189.2	138.7	84.6	36.1	6.6	0.8	2.1
97.5°	260.7	255.3	237.3	208.5	167.9	119.0	66.9	25.4	3.3	0.8	1.6
100°	238.9	232.7	216.3	187.6	146.5	99.3	51.7	16.4	2.1	0.8	1.6
102.5°	215.9	211.0	194.2	166.2	124.4	80.9	38.6	10.3	0.8	0.8	1.2
105°	195.4	189.2	172.8	144.1	105.9	63.6	27.1	6.2	0.8	0.8	1.2



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CATALOG NUMBER: FCC-X-2-LD4-1STD-50-UNV-80-85-ED1D

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	127.2	122.3	108.0	83.7	53.8	25.0	7.4	1.2	1.2	1.2	1.2
115°	106.3	98.9	86.2	64.9	39.8	16.4	3.7	1.2	1.2	1.2	1.2
117.5°	85.0	78.8	69.8	49.3	26.3	10.7	2.1	1.2	1.2	1.2	1.2
120°	66.5	60.8	50.5	34.1	17.7	6.2	0.8	1.2	1.2	1.2	1.2
122.5°	47.6	43.1	34.1	22.2	10.7	2.9	1.2	1.2	1.6	1.6	1.2
125°	31.6	29.1	22.6	13.5	6.6	1.2	1.2	1.2	1.6	1.6	1.2
127.5°	20.5	18.5	13.1	7.8	2.9	1.2	1.2	1.6	1.6	1.6	1.2
130°	11.5	10.3	7.8	4.5	1.2	1.2	1.2	1.6	1.6	1.6	1.2
132.5°	6.6	6.2	4.1	0.8	1.2	1.2	1.2	1.6	1.6	1.6	1.6
135°	1.6	0.8	0.8	0.8	1.2	1.2	1.6	1.6	2.1	2.1	1.6
137.5°	0.4	0.4	0.8	0.8	1.2	1.2	1.6	2.1	2.1	2.1	1.6
140°	0.4	0.4	0.8	1.2	1.2	1.2	1.6	2.1	2.1	2.1	1.6
142.5°	0.4	0.8	0.8	1.2	1.2	1.6	1.6	2.1	2.1	1.6	1.6
145°	0.4	0.8	0.8	1.2	1.2	1.6	1.6	2.1	1.6	1.6	1.6
147.5°	0.8	0.8	0.8	1.2	1.2	1.6	1.6	2.1	2.1	1.6	1.6
150°	0.4	0.8	0.8	1.2	1.6	1.6	1.6	2.1	1.6	1.6	1.6
152.5°	0.4	0.8	0.8	1.2	1.6	1.6	1.6	2.1	1.6	1.6	1.6
155°	0.8	0.8	0.8	1.2	1.6	1.6	1.6	2.1	1.6	1.6	2.1
157.5°	0.8	0.8	0.8	1.2	1.6	1.6	1.6	2.1	1.6	1.6	2.1
160°	0.8	0.8	0.8	1.2	1.2	1.6	1.6	1.6	1.6	1.6	1.6
162.5°	0.8	0.8	0.8	1.2	1.2	1.6	1.6	1.6	1.6	1.6	1.6
165°	0.8	0.8	0.8	0.8	1.2	1.2	1.6	1.6	1.6	1.6	1.6
167.5°	0.8	0.8	0.8	1.2	1.2	1.2	1.6	1.6	1.6	1.6	1.6
170°	0.8	0.8	0.8	1.2	1.2	1.2	1.6	2.1	2.1	2.1	2.1
172.5°	0.8	0.8	0.8	1.2	1.2	1.6	1.6	2.1	2.1	2.1	2.1
175°	0.8	0.8	0.8	1.2	1.2	1.6	1.6	2.1	2.1	2.1	2.1
177.5°	0.4	0.8	0.8	1.2	1.2	1.6	1.6	2.1	2.1	2.1	1.6
180°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	322.2	322.2	322.2
2.5°	306.6	300.9	299.2
5°	290.2	280.8	275.4
7.5°	273.8	261.1	254.9
10°	258.6	240.5	234.0
12.5°	240.5	219.6	209.3
15°	223.3	196.2	186.4
17.5°	204.0	173.6	162.1
20°	185.9	151.1	139.2
22.5°	165.4	128.9	115.8
25°	147.0	106.7	91.9
27.5°	126.4	84.1	71.4
30°	107.1	64.4	51.7
32.5°	88.7	47.2	35.7
35°	71.4	32.0	22.6
37.5°	55.0	19.7	11.5
40°	39.8	10.3	5.3
42.5°	26.7	4.9	2.9
45°	16.4	2.5	0.0
47.5°	9.4	0.0	0.0
50°	4.9	0.0	0.0
52.5°	2.1	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°	0.4	0.4	0.4
77.5°	0.4	0.8	1.2
80°	0.8	1.6	2.1
82.5°	1.6	2.1	2.1
85°	1.6	2.1	2.5
87.5°	2.1	2.5	2.9
90°	2.5	2.9	2.9
92.5°	2.5	3.3	3.3
95°	2.9	3.3	3.7
97.5°	3.3	3.7	3.7
100°	2.9	3.7	4.1
102.5°	2.5	3.7	3.7
105°	2.1	2.9	3.3



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	1.6	2.1	2.1
115°	1.2	1.6	2.1
117.5°	1.2	1.6	1.6
120°	1.2	1.2	1.6
122.5°	1.2	1.2	1.6
125°	1.2	1.2	1.6
127.5°	1.6	1.2	1.2
130°	1.2	1.2	1.2
132.5°	1.6	1.2	1.2
135°	1.6	1.2	1.2
137.5°	1.6	1.2	1.2
140°	1.6	1.2	1.2
142.5°	1.6	1.2	1.2
145°	1.2	1.2	1.2
147.5°	1.2	1.2	1.2
150°	1.2	1.2	0.8
152.5°	1.2	0.8	0.8
155°	1.2	0.8	0.4
157.5°	1.6	0.8	0.4
160°	1.2	0.8	0.4
162.5°	1.2	0.8	0.4
165°	1.2	0.8	0.0
167.5°	1.2	0.8	0.4
170°	1.2	0.8	0.4
172.5°	1.2	0.8	0.4
175°	1.2	0.4	0.4
177.5°	1.2	0.4	0.4
180°	1.2	1.2	1.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	172.4	167.5	151.1	124.0	86.6	48.4	18.1	3.3	0.8	1.2	1.2
110°	150.2	146.1	129.3	103.0	69.8	36.1	11.9	2.1	1.2	1.2	1.2





107.5°	1.6	2.5	2.9
110°	1.6	2.1	2.5



(END OF REPORT)