

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: P550776

Luminaire Tested: **FCC-X-2-LD4-1LO-35-UNV-82-84-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: P550776
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-82-84-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

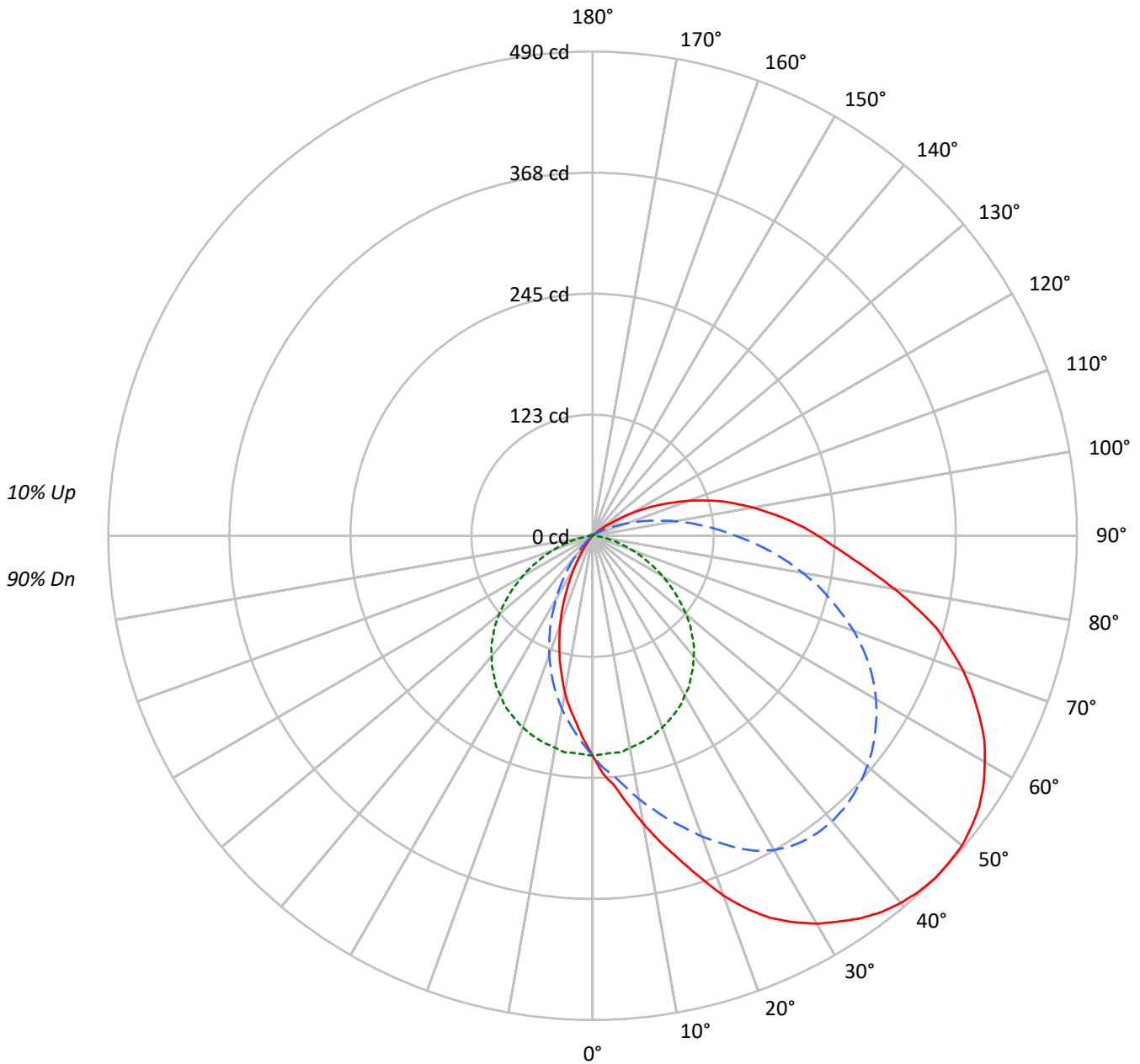
Lumens per Lamp: N/A
Luminaire Lumens: 1098.9 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

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

TEST NUMBER: P550776

CATALOG NUMBER: FCC-X-2-LD4-1LO-35-UNV-82-84-ED1D

Luminous Intensity Polar Plot





TEST NUMBER: P550776

CATALOG NUMBER: FCC-X-2-LD4-1LO-35-UNV-82-84-ED1D

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°	2393	2393	2393
5°	2626	2358	1967
10°	2972	2329	1621
15°	3331	2299	1264
20°	3757	2261	930
25°	4111	2219	611
30°	4373	2160	344
35°	4600	2098	152
40°	4802	2021	37
45°	4975	1924	0
50°	5120	1796	0
55°	5230	1632	0
60°	5286	1444	0
65°	5308	1229	0
70°	5290	1003	0
75°	5222	740	4
80°	5011	453	23
85°	4844	214	31



TEST NUMBER: P550776

CATALOG NUMBER: FCC-X-2-LD4-1LO-35-UNV-82-84-ED1D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	1.9
10°-20°	63.8	5.8
20°-30°	103.2	9.4
30°-40°	132.6	12.1
40°-50°	150.1	13.7
50°-60°	155.5	14.2
60°-70°	146.7	13.3
70°-80°	122.9	11.2
80°-90°	89.1	8.1
90°-100°	58.6	5.3
100°-110°	33.8	3.1
110°-120°	14.9	1.4
120°-130°	4.0	0.4
130°-140°	0.9	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°	188.3	17.1
0°-40°	320.9	29.2
0°-60°	626.6	57.0
0°-90°	985.3	89.7
90°-120°	107.3	9.8
90°-150°	112.8	10.3
90°-180°	114.0	10.4
0°-180°	1098.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	222	222	222	222	222	
5°	254	244	221	200	190	26
15°	339	297	213	154	129	98
25°	427	349	198	101	63	197
35°	473	376	174	49	16	296
45°	490	372	142	11	0	378
55°	478	349	102	0	0	427
65°	432	309	61	0	0	427
75°	360	249	26	0	0	378
85°	263	181	4	1	2	225
90°	228	145	1	2	2	125
95°	196	113	1	2	2	154
105°	135	58	1	1	2	142
115°	73	19	1	1	1	73
125°	22	3	1	1	1	22
135°	1	1	1	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	1	1	0	0
180°	1	1	1	1	1	



TEST NUMBER: P550776

CATALOG NUMBER: FCC-X-2-LD4-1LO-35-UNV-82-84-ED1D

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
0°	222.3	222.3	222.3	222.3	222.3	222.3	222.3	222.3	222.3	222.3	222.3
2.5°	241.0	240.7	239.9	238.4	236.5	233.1	230.2	227.7	224.3	221.5	216.1
5°	253.7	252.3	251.2	249.8	245.2	242.1	237.0	231.4	226.0	220.6	209.8
7.5°	274.1	271.9	270.2	266.2	260.0	252.9	245.0	239.6	235.9	220.9	202.5
10°	295.9	293.9	290.5	283.5	275.8	265.6	254.3	241.6	230.2	217.8	196.0
12.5°	317.5	314.6	309.8	300.7	290.0	277.2	261.7	246.7	230.5	215.8	188.3
15°	339.0	335.9	330.8	319.7	305.6	288.9	269.9	250.9	231.9	213.2	180.4
17.5°	362.5	358.2	350.6	338.1	320.3	299.6	277.2	254.3	231.4	210.1	171.9
20°	387.7	381.7	373.5	356.8	335.9	311.5	284.6	257.7	231.1	206.4	162.3
22.5°	408.6	402.7	393.6	376.4	351.2	321.4	290.8	260.0	229.9	202.2	153.2
25°	426.8	421.9	412.0	392.2	365.6	331.9	296.8	261.7	228.2	197.7	143.6
27.5°	440.9	436.4	425.3	405.0	377.8	341.2	301.3	262.5	226.0	193.1	133.7
30°	453.4	448.9	435.5	414.6	386.0	348.6	305.8	262.8	223.2	186.3	122.9
32.5°	463.0	458.8	445.2	422.8	391.6	353.7	308.4	262.5	219.5	181.5	111.3
35°	472.6	468.4	452.5	428.7	395.9	356.0	310.4	261.1	214.9	173.6	100.2
37.5°	480.0	475.2	459.0	432.7	397.9	356.5	310.1	259.1	210.1	167.1	89.2
40°	485.1	480.0	462.7	435.0	398.4	355.7	307.8	255.7	204.5	158.9	77.6
42.5°	488.5	482.8	464.4	438.4	397.3	353.4	304.4	251.5	198.2	151.8	66.5
45°	490.2	484.2	464.7	435.5	395.3	349.2	299.3	246.1	191.4	142.2	55.5
47.5°	489.3	482.8	463.3	432.4	391.6	344.6	293.7	239.6	183.2	133.7	45.0
50°	487.9	481.1	460.2	428.5	386.5	339.0	287.4	231.6	174.7	123.2	35.7
52.5°	483.4	476.6	456.8	422.8	380.6	332.5	278.9	223.4	165.7	113.0	27.2
55°	477.7	471.5	450.8	417.7	373.0	324.5	271.0	214.7	156.9	102.5	19.5
57.5°	469.0	463.3	443.5	409.5	365.3	315.8	262.2	205.0	145.8	92.0	13.6
60°	458.2	452.5	433.3	400.1	356.5	305.8	252.6	195.1	135.9	81.6	8.5
62.5°	446.9	441.5	421.4	388.5	345.5	295.4	242.1	185.2	125.5	71.9	5.1
65°	431.9	426.8	408.6	374.7	333.3	284.0	230.5	173.3	114.7	61.2	2.8
67.5°	416.0	411.5	393.1	361.9	319.2	271.6	218.6	161.7	103.4	51.8	1.4
70°	399.0	393.3	376.4	344.6	304.7	257.4	205.6	149.8	92.6	42.8	0.0
72.5°	379.2	374.9	358.5	328.5	288.0	242.4	192.3	136.8	80.7	34.0	0.3
75°	359.9	354.5	339.5	311.2	271.6	226.5	177.6	124.6	69.1	26.1	0.3
77.5°	335.0	333.3	319.2	291.7	256.0	211.3	161.4	109.9	58.1	18.7	0.3
80°	310.1	308.4	297.3	272.1	237.9	193.1	146.4	96.0	47.3	12.5	0.3
82.5°	285.5	283.2	272.7	251.8	219.5	177.8	130.8	82.1	37.4	7.6	0.3
85°	263.4	260.5	249.2	229.9	200.5	160.6	114.7	68.5	27.8	4.2	0.6
87.5°	244.4	242.4	229.9	210.1	181.2	144.4	100.5	55.5	19.5	2.0	0.8
90°	228.2	224.0	213.0	192.0	163.1	126.6	85.5	44.5	13.0	1.1	1.1
92.5°	212.4	208.7	196.5	175.0	147.0	111.3	71.1	34.0	8.2	0.6	1.4
95°	196.0	192.0	180.1	160.3	130.5	95.7	58.3	24.9	4.5	0.6	1.4
97.5°	179.8	176.1	163.7	143.9	115.8	82.1	46.2	17.6	2.3	0.6	1.1
100°	164.8	160.6	149.2	129.4	101.1	68.5	35.7	11.3	1.4	0.6	1.1
102.5°	149.0	145.6	133.9	114.7	85.8	55.8	26.6	7.1	0.6	0.6	0.8
105°	134.8	130.5	119.2	99.4	73.1	43.9	18.7	4.2	0.6	0.6	0.8



TEST NUMBER: P550776

CATALOG NUMBER: FCC-X-2-LD4-1LO-35-UNV-82-84-ED1D

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	87.8	84.4	74.5	57.8	37.1	17.3	5.1	0.8	0.8	0.8	0.8
115°	73.3	68.2	59.5	44.7	27.5	11.3	2.5	0.8	0.8	0.8	0.8
117.5°	58.6	54.4	48.1	34.0	18.1	7.4	1.4	0.8	0.8	0.8	0.8
120°	45.9	41.9	34.8	23.5	12.2	4.2	0.6	0.8	0.8	0.8	0.8
122.5°	32.8	29.7	23.5	15.3	7.4	2.0	0.8	0.8	1.1	1.1	0.8
125°	21.8	20.1	15.6	9.3	4.5	0.8	0.8	0.8	1.1	1.1	0.8
127.5°	14.2	12.7	9.1	5.4	2.0	0.8	0.8	1.1	1.1	1.1	0.8
130°	7.9	7.1	5.4	3.1	0.8	0.8	0.8	1.1	1.1	1.1	0.8
132.5°	4.5	4.2	2.8	0.6	0.8	0.8	0.8	1.1	1.1	1.1	1.1
135°	1.1	0.6	0.6	0.6	0.8	0.8	1.1	1.1	1.4	1.4	1.1
137.5°	0.3	0.3	0.6	0.6	0.8	0.8	1.1	1.4	1.4	1.4	1.1
140°	0.3	0.3	0.6	0.8	0.8	0.8	1.1	1.4	1.4	1.4	1.1
142.5°	0.3	0.6	0.6	0.8	0.8	1.1	1.1	1.4	1.4	1.1	1.1
145°	0.3	0.6	0.6	0.8	0.8	1.1	1.1	1.4	1.1	1.1	1.1
147.5°	0.6	0.6	0.6	0.8	0.8	1.1	1.1	1.4	1.4	1.1	1.1
150°	0.3	0.6	0.6	0.8	1.1	1.1	1.1	1.4	1.1	1.1	1.1
152.5°	0.3	0.6	0.6	0.8	1.1	1.1	1.1	1.4	1.1	1.1	1.1
155°	0.6	0.6	0.6	0.8	1.1	1.1	1.1	1.4	1.1	1.1	1.4
157.5°	0.6	0.6	0.6	0.8	1.1	1.1	1.1	1.4	1.1	1.1	1.4
160°	0.6	0.6	0.6	0.8	0.8	1.1	1.1	1.1	1.1	1.1	1.1
162.5°	0.6	0.6	0.6	0.8	0.8	1.1	1.1	1.1	1.1	1.1	1.1
165°	0.6	0.6	0.6	0.6	0.8	0.8	1.1	1.1	1.1	1.1	1.1
167.5°	0.6	0.6	0.6	0.8	0.8	0.8	1.1	1.1	1.1	1.1	1.1
170°	0.6	0.6	0.6	0.8	0.8	0.8	1.1	1.4	1.4	1.4	1.4
172.5°	0.6	0.6	0.6	0.8	0.8	1.1	1.1	1.4	1.4	1.4	1.4
175°	0.6	0.6	0.6	0.8	0.8	1.1	1.1	1.4	1.4	1.4	1.4
177.5°	0.3	0.6	0.6	0.8	0.8	1.1	1.1	1.4	1.4	1.4	1.1
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P550776

CATALOG NUMBER: FCC-X-2-LD4-1LO-35-UNV-82-84-ED1D

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	222.3	222.3	222.3
2.5°	211.5	207.6	206.4
5°	200.2	193.7	190.0
7.5°	188.9	180.1	175.9
10°	178.4	165.9	161.4
12.5°	165.9	151.5	144.4
15°	154.1	135.4	128.6
17.5°	140.7	119.8	111.9
20°	128.3	104.2	96.0
22.5°	114.1	88.9	79.9
25°	101.4	73.6	63.4
27.5°	87.2	58.1	49.3
30°	73.9	44.5	35.7
32.5°	61.2	32.6	24.6
35°	49.3	22.1	15.6
37.5°	37.9	13.6	7.9
40°	27.5	7.1	3.7
42.5°	18.4	3.4	2.0
45°	11.3	1.7	0.0
47.5°	6.5	0.0	0.0
50°	3.4	0.0	0.0
52.5°	1.4	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	0.8
80°	0.6	1.1	1.4
82.5°	1.1	1.4	1.4
85°	1.1	1.4	1.7
87.5°	1.4	1.7	2.0
90°	1.7	2.0	2.0
92.5°	1.7	2.3	2.3
95°	2.0	2.3	2.5
97.5°	2.3	2.5	2.5
100°	2.0	2.5	2.8
102.5°	1.7	2.5	2.5
105°	1.4	2.0	2.3



TEST NUMBER: P550776

CATALOG NUMBER: FCC-X-2-LD4-1LO-35-UNV-82-84-ED1D

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	1.1	1.4	1.4
115°	0.8	1.1	1.4
117.5°	0.8	1.1	1.1
120°	0.8	0.8	1.1
122.5°	0.8	0.8	1.1
125°	0.8	0.8	1.1
127.5°	1.1	0.8	0.8
130°	0.8	0.8	0.8
132.5°	1.1	0.8	0.8
135°	1.1	0.8	0.8
137.5°	1.1	0.8	0.8
140°	1.1	0.8	0.8
142.5°	1.1	0.8	0.8
145°	0.8	0.8	0.8
147.5°	0.8	0.8	0.8
150°	0.8	0.8	0.6
152.5°	0.8	0.6	0.6
155°	0.8	0.6	0.3
157.5°	1.1	0.6	0.3
160°	0.8	0.6	0.3
162.5°	0.8	0.6	0.3
165°	0.8	0.6	0.0
167.5°	0.8	0.6	0.3
170°	0.8	0.6	0.3
172.5°	0.8	0.6	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°	118.9	115.5	104.2	85.5	59.8	33.4	12.5	2.3	0.6	0.8	0.8
110°	103.6	100.8	89.2	71.1	48.1	24.9	8.2	1.4	0.8	0.8	0.8





107.5°	1.1	1.7	2.0
110°	1.1	1.4	1.7



(END OF REPORT)